GREATER WATTENBERG AREA

BASELINE STUDY

GREATER WATTENBERG AREA, COLORADO

JUNE 2007

Prepared for:

COLORADO OIL AND GAS CONSERVATION COMMISSION
Denver, Colorado

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Prepared for:

COLORADO OIL AND GAS CONSERVATION COMMISSION
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EXECUTIVE SUMMARY

LTE has been retained by the Colorado Oil and Gas Conservation Commission (COGCC) to conduct a baseline study of natural gas wells and Laramie/Fox Hills (Klf) water wells in the Greater Wattenberg Area (GWA). The study area for this project includes a portion of the GWA within the Denver-Julesburg (D-J) Basin and covers an area of approximately 1,600 square miles (Figure 1).

The purpose of this study is to document the general composition of natural gas from 77 production wells and water quality of 9 Klf water wells in the GWA. The overriding goal of the project is to use these data to address concerns about potential impacts to groundwater resources from existing or future development of oil and gas production in the GWA.

LTE sampled a total of 77 natural gas production wells in the GWA. Based on plots of the carbon and hydrogen isotopes of methane and diagrams of the gas wetness ratios for the 77 samples, the gas produced from the production wells are of thermogenic origin.

LTE sampled a total of nine water wells during the baseline study. Dissolved methane was detected in all of the water samples collected and six of the nine samples reported concentrations above the COGCC threshold value of 2 milligrams per liter (mg/L). Free gas samples were collected from six of the nine water wells sampled. Based on plots of the carbon and hydrogen isotopes of methane and diagrams of the gas wetness ratio for each of the samples, it appears that the gas from the six water wells is of biogenic origin.

Results of the study show a good distribution of natural gas data across the project area. These data will be useful in evaluating natural gas from various production zones within the GWA.

The water quality information obtained during this study is a limited data set. The data collected during this study will supplement analytical results already in the COGCC database. However, the data are well distributed across the project area and will be useful in documenting the general water quality for the eastern and southeastern portions of the GWA.

SECTION 1.0

INTRODUCTION

LT Environmental, Inc. (LTE) has been retained by the Colorado Oil and Gas Conservation Commission (COGCC) to conduct a baseline study of natural gas from production wells and water quality of the Laramie-Fox Hills (Klf) aquifer in the Greater Wattenberg Area (GWA) of Colorado. The study area for this project consists of a portion of the Denver Julesburg (D-J) Basin, primarily in Weld County, Colorado, covering approximately 1,600 square miles (Figure 1).

1.1 OBJECTIVES

The objective of this study is to document the general composition of natural gas from selected production wells and water quality of Klf aquifer in selected water wells in the GWA. The overriding goal of the project is to use these data to address concerns about potential impacts to groundwater resources in the GWA.

1.2 BACKGROUND INFORMATION

The GWA is located within the D-J Basin of Colorado, a major oil and gas producing area extending from the Wyoming - Colorado state boundary to approximately 50 miles north of the Colorado - New Mexico state boundary. Oil and gas production wells in the D-J Basin are generally completed in the Codell sandstone, the J sandstone, the Niobrara Formation, the Sussex sandstone, or combinations thereof. Throughout this report, these productions zones are simply referred to as the Codell, J Sand, Niobrara, Sussex, or a combination of two or more units.

As a result of an amendment to Rule 318A which allowed for increased infill drilling in the GWA, the potential for impacts to groundwater from oil and gas production has become a concern for both the public and local government. This study will provide the COGCC with data to help address these concerns.

1.3 ORGANIZATION OF REPORT

This report is organized into four sections including this introduction, which presents the objective of the study and discusses background information related to the project. The field methods used to complete the scope of work are described in Section 2.0. The results of the natural gas production well and water well sampling activities are presented in Section 3.0. Section 4.0 presents the conclusions of the baseline study. Figures, tables, and charts are included after Section 4.0 and appendices are included at the end of this report.

A CD-Rom is included at the end of the appendices and presents the following information:

- The GWA – Baseline Study draft report in its entirety;
- The COGCC Form 17 – Bradenhead Test Reports identified by their respective American Petroleum Institute (API) numbers;
- The laboratory reports identified by their respective chain-of-custody (COC) number;
- Photographs of water well sample locations and water conditions identified by their respective well permit numbers;
- Well records from the Division of Water Resources (DWR) database identified by respective their well permit numbers; and
- The Microsoft Access® database including production well API numbers, Global Positioning System (GPS) coordinates of production wells and water wells, legal descriptions of production wells and water wells, operator information, respective production zones, laboratory analytical data for both gas and water samples, pressure readings, water well permit numbers, pertinent water well information, and landowner information.

SECTION 2.0

SAMPLING METHODOLOGY

This section describes the approach and procedures used during the natural gas production well and water well sampling activities.

2.1 NATURAL GAS SAMPLING

2.1.1 Access

Prior to the sampling of natural gas, the COGCC coordinated access to the 77 natural gas production wells with seven operators including Kerr-McGee Oil and Gas Onshore LP, K.P. Kauffman Co., Inc., Petroleum Development Corp., Noble Energy Production, Inc., Petro-Canada Resources (USA) Inc., Merit Energy Co., and Encana Energy Resources, Inc. Once the wells were selected, LTE contacted the various operators to schedule the sampling activities.

2.1.2 Sampling Procedures

During natural gas sampling activities, LTE was escorted by a staff member from the operator of each of the production wells to ensure the efficiency and safety of the gas sampling process.

At each of the 77 production wells visited, LTE recorded pressure readings from the Bradenhead casing, production casing, and production tubing. Measurements were collected using either a liquid-filled pressure gauge or a digital pressure gauge with varying pressure ranges. The measurements were recoded on a COGCC Form 17 - Bradenhead Test Report.

LTE used IsoTubes® and an IsoTube Wellhead Sampling System® to collect the gas samples from the 77 production wells. The specifications for the IsoTubes® and IsoTube Wellhead Sampling System® are included in Appendix A. All gas samples were packaged per the Federal Department of Transportation (DOT) regulations with a completed COC form and submitted to Isotech Laboratories, Inc. (Isotech) in Champaign, Illinois. Gas samples were analyzed for the following parameters:

- ***Fixed Gas Chromatography***: Hydrogen (H_2), Argon (Ar), Nitrogen (N_2), Oxygen (O_2), Carbon Dioxide (CO_2), and Hydrogen Sulfide (H_2S);
- ***Hydrocarbon Gas Chromatography***: Methane, Ethane, Propane, i-Butane, n-Butane, i-Pentane, and Hexane+; and
- ***Stable Isotopic Analysis***: Carbon and Hydrogen isotopes of Methane, Carbon isotopes of CO_2, and Carbon isotopes of Ethane and Propane.

The location of each natural gas production well was recorded using a Trimble GeoXT® GPS which measures and records geographic position in accordance with COGCC Rule 215. At each production well, LTE recorded the geographic position by logging a minimum of 25 GPS positions. The GPS data were downloaded daily and differentially corrected using publicly

available base station data to achieve sub-meter accuracy. The specifications for the Trimble GeoXT® are included in Appendix A.

To determine the origin of the gas, the analytical results were plotted using a chart from the 1995 paper entitled *Isotopic Identification of Landfill Methane* by Coleman et al. Additionally, the gas wetness ratios were calculated for each sample. All analytical results, charts, and calculations were presented to Dr. Alan Jeffrey of Zymax Forensics for his interpretation of the origin of the gas.

2.2 WATER WELL SAMPLING

2.2.1 Access

Initially, LTE chose 13 water wells to sample. After sending access agreement letters to the 13 landowners and attempting to contact the landowners via telephone, a total of six access agreements were granted. LTE then chose seven different water wells and sent access agreement letters to their respective owners. Two of the seven landowners granted LTE access to sample their water wells. LTE then chose five different water wells and sent access agreement letters to their respective owners. One of the five landowners granted access to their water well. After this attempt to gain access to water wells, the COGCC directed LTE to forgo additional access requests. Therefore, LTE gained access to a total of nine of the 25 wells requested. The locations of the nine water wells sampled are shown on Table 1.

Each of the 25 wells requested was approved by the COGCC. After COGCC approval, LTE prepared a letter explaining the scope of the study, the benefits available to the well owners, and a request for participation. The letter included a self-addressed and stamped response card to be returned to LTE. The response card contained questions regarding well condition, pump type, size of casing, usage, screened interval, well yield, depth, and accessibility. The card also requested a phone number to be used in coordinating the sampling events and contained a statement agreeing to access with a signature and date line.

2.2.2 Water Well Sampling

Prior to water well purging and sampling, all equipment was cleaned and disinfected to maintain sample integrity. Purging and sampling were conducted at points closest to the wellhead, prior to pressure tanks or pretreatment systems such as filtration and/or water softeners. LTE purged each well using a flow-through cell and field parameters of pH, specific electrical conductance (EC), and temperature were collected using an Oakton ph/Con 10 Meter®. The specifications for the water quality meter are included in Appendix A. Purging was considered to be complete when stability of field parameters was demonstrated through three consecutive measurements at 3 to 5 minute intervals, where pH varied by less than 0.1 units, temperature varied by less than 0.2 degrees Celsius (C) and EC varied by less than 5 percent (%) for values less than 100 micro-Siemens per centimeter (uS/cm) or 3% for values greater than 100 uS/cm.

Flow rates during purging were measured using a graduated bucket and a stopwatch. LTE also noted color, clarity, odors, effervescence, produced sediment, and evidence of bacterial fouling.

Once purging was complete, LTE initiated sampling under low-flow rate conditions. All samples were collected in laboratory prepared sample bottles. The samples were placed on ice and shipped via overnight delivery with a completed COC form to Accutest Laboratories, Inc. in Houston, Texas.

The following table presents the analyses that were performed on each groundwater sample and the respective laboratory method:

Laboratory Analyses and Method Numbers

Analyte	Laboratory Method
Major Cations Dissolved Sodium, Calcium, Magnesium, Potassium, Iron	EPA Method 6010
Major Anions Chloride, Sulfate, Carbonate, Bicarbonate, Nitrate, Nitrite	EPA 300/SM2320B EPA 353
Dissolved Metals Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Manganese	EPA Method 6010
Fluoride	EPA 300
Bromide	EPA 300
pH	EPA 150.1
Total Dissolved Solids (TDS)	EPA 160.1
Dissolved Methane	RSK 175
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)	SW846 8260B
Electrical Conductance	SM2510B

All sample bottles were filled directly from the sample tubing with the exception of the bottles used for dissolved methane analysis. Samples for dissolved methane analysis were collected using a 5-gallon bucket and a length of polyvinyl tubing connected to an adapter and the source tap. Flow rates were reduced during the dissolved methane sampling process in order to maximize the amount of dissolved gas in each sample. The end of the tubing and a capped sample bottle were submerged in water in a 5-gallon bucket. The cap was then removed from the bottle and the tubing was inserted while submerged in the bucket of water. Water from the tubing was allowed to flow into the bottle and displace approximately three volumes of the bottle. The cap was placed on the bottle while submerged in the water and the bottle was removed from the bucket.

LTE attempted to collect free gas samples from all water wells. LTE used a 1-liter bottle containing a benzalkonium chloride capsule (preservative) to collect each sample. The bottle was filled with water and then inverted and submerged in water in a 5-gallon bucket. The polyvinyl tubing was inserted into the inverted bottle. The flow rates were increased to approximately 2 to 3 gallons per minute (gpm) during this process. The free gas from within the water stream was allowed to displace the water in the bottle until approximately half of the bottle

contained free gas. The cap was then placed on the inverted bottle while submerged. The sample was packaged and submitted to Isotech for analysis of the same analytes listed in Section 2.1.2.

If free gas was not observed during the sampling process, a bottle was filled via the aforementioned procedures and placed in a cooler on ice. The bottle was submitted to Isotech if the dissolved methane concentration from the water sample was 2 milligrams per liter (mg/L) or greater. If the dissolved methane concentration was less than 2 mg/L, the sample was not submitted for isotopic analysis.

The location of each water well was recorded using the Trimble GeoXT® following sampling. At each water well, the geographic position was recorded by logging a minimum of 25 GPS positions. GPS data were differentially corrected as described in Section 2.1.2. Flow rates and observations were recorded directly into the GPS and photographs of water condition and sampling location were collected at each well.

To determine the origin of the free gas observed in water wells, LTE plotted the analytical data on charts, calculated gas wetness ratios, and presented the data to Dr. Jeffrey for evaluation.

SECTION 3.0

RESULTS

The following section summarizes the results of the natural gas sampling and water well sampling activities. The names, GPS coordinates, and legal descriptions of the 77 production wells and 9 water wells sampled are included in the electronic database provided to the COGCC with this report.

3.1 NATURAL GAS SAMPLING RESULTS

3.1.1 Pressure Readings

LTE recorded pressure readings from the surface casing, production casing, and production tubing for each of the 77 production wells visited. The minimum and maximum surface casing pressures recorded were zero pounds per square inch (psi) and 280 psi, respectively. Measurable pressure was noted in the surface casing at 28 of the 77 wells visited. The following table shows the number of wells with pressure in the surface casing for each of the production zones.

NUMBER OF WELLS WITH PRESSURE IN SURFACE CASINGS

Production Zone	Number of Wells with Pressure in Surface Casing
CODELL	7
J SAND/CODELL	6
J SAND/NIOBRARA/CODELL	0
J SAND	8
NIOBRARA/CODELL	4
SUSSEX	2

Production casing pressures ranged from 21 psi to 900 psi. Production tubing pressures ranged from 6 psi to 625 psi. Pressure readings were recorded on the COGCC Form 17 - Bradenhead Test Reports which are included as Appendix B. The pressure readings are also included in the electronic database. Charts illustrating the pressure readings by production zone are presented as Appendix C. The following table summarizes the results of the pressure readings.

PRESSURE READINGS RESULTS

	Surface Casing Pressure (psi)	Production Casing Pressure (psi)	Production Tubing Pressure (psi)
CODELL			
minimum	0	95	100
maximum	20	900	625
J SAND/CODELL			
minimum	0	164	80
maximum	65	480	480
J SAND/NIOBRARA/CODELL			
minimum	0	160	160
maximum	0	507	384
J SAND			
minimum	0	135	80
maximum	280	550	450
NIOBRARA/CODELL			
minimum	0	200	175
maximum	25	600	590
SUSSEX			
minimum	0	21	6
maximum	28	490	470

3.1.2 Analytical Results - Gas Composition

The gas wetness ratio of each gas sample collected as part of this study was calculated to determine the origin of the gas. LTE calculated the gas wetness ratios by dividing the methane concentration by the sum of all gas concentrations for a particular sample. This ratio is expressed by the following equation:

$$\text{gas wetness ratio} = \frac{C_1}{C_1+C_2+C_3+C_4+C_5+C_6}$$

where,

C_1 = methane
C_2 = ethane and ethylene
C_3 = propylene
C_4 = butane and isobutane
C_5 = pentane and isopentane
C_6 = hexanes+

LTE presented these data to Dr. Jeffrey for his evaluation. According to Dr. Jeffrey, the gas wetness ratios observed in the 77 gas samples are typical for gas of thermogenic origin.

Codell

LTE collected a total of 16 natural gas samples from production wells completed in the Codell. Analytical results report methane concentrations ranging from 66.41 percent (%) to 83.22%. The

natural gas analytical results are shown on Table 2 and included in the electronic database. The values presented in Table 2 are air free concentrations.

Results indicate gas wetness ratios for samples from the Codell ranging from 68% to 85%. Table 2 presents the gas wetness ratios for all samples collected during the study. Chart 1 presents a bar diagram of gas wetness ratios for all samples collected from the Codell.

J-Sand / Codell

LTE collected a total of nine natural gas samples from production wells completed in both the J-Sand and Codell. Analytical results report methane concentrations ranging from 75.50% to 84.53% (Table 2).

Gas wetness ratios for natural gas samples collected from the J-Sand and Codell ranged from 78% to 88% (Table 2). These ratios are indicative of thermogenic gas. Chart 2 presents a bar diagram of gas wetness ratios for all samples collected from wells completed in both the J-Sand and Codell.

J-Sand / Niobrara / Codell

LTE collected a total of eight natural gas samples from production wells completed in the J-Sand, Niobrara, and Codell. Analytical results report methane concentrations ranging from 75.91% to 86.95% (Table 2).

Gas wetness ratios for natural gas samples collected from the J-Sand, Niobrara, and Codell ranged from 79% to 91% (Table 2). These ratios are indicative of thermogenic gas. Chart 3 presents a bar diagram of gas wetness ratios for all samples collected from wells completed in the J-Sand, Niobrara, and Codell.

J-Sand

LTE collected a total of 16 natural gas samples from production wells completed in the J-Sand. Analytical results report methane concentrations ranging from 74.07% to 91.75% (Table 2).

Gas wetness ratios for natural gas samples collected from the J-Sand ranged from 77% to 95% (Table 2). These ratios are indicative of thermogenic gas. Chart 4 presents a bar diagram of gas wetness ratios for all samples collected from wells completed in the J-Sand.

Niobrara / Codell

LTE collected a total of 15 natural gas samples from production wells completed in both the Niobrara and Codell. Analytical results indicate methane concentrations ranging from 69.83% to 80.34% (Table 2).

Gas wetness ratios for natural gas samples collected from the Niobrara and Codell ranged from 72% to 83% (Table 2). These ratios are indicative of thermogenic gas. Chart 5 presents a bar diagram of gas wetness ratios for all samples collected from wells completed in both the Niobrara and Codell.

Sussex

LTE collected a total of seven natural gas samples from production wells completed in the Sussex. Analytical results report methane concentrations ranging from 61.91% to 79.30% (Table 2).

Gas wetness ratios for natural gas samples collected in the Sussex ranged from 63% to 80% (Table 2). These ratios are indicative of thermogenic gas. Chart 6 presents a bar diagram of gas wetness ratios for all samples collected from wells completed in the Sussex.

3.1.3 Analytical Results - Isotopic Analysis

LTE plotted the carbon and hydrogen isotopes of methane for each natural gas sample on the chart created by Coleman et al. to determine the origin of the gas. Charts 7 through 13 present the results of the plots for all natural gas samples collected during sampling activities. Based on the charts and evaluation of the data by Dr. Jeffrey, all of the 77 natural gas samples appear to be of thermogenic origin.

3.2 WATER WELL SAMPLING RESULTS

Field parameters collected during water well sampling activities are shown on Table 3 and included in the electronic database. Photographs of water condition and sample location are included as Appendix D and as part of the electronic database. Laboratory analytical results for water samples are shown on Tables 4 and 5 and are included in the electronic database. The corrected GPS coordinates, drillers log and completion reports, and other pertinent information for the nine water wells are also included as part of the electronic database.

3.2.1 Analytical Results - Inorganics

LTE collected a total of nine water samples from private water wells completed in the Klf. TDS concentrations ranged from 558 mg/L in the water sample collected from the S M Ranch water well to 1,820 mg/L in the water sample collected from the Jerry Sumner water well. Analytical results indicate that nitrate and sulfate in the water sample collected from the Jerry Sumner water well exceeded the respective water quality standards at concentrations of 11 mg/L and 876 mg/L, respectively. TDS concentrations and isoconcentration contours are shown on Figure 2.

The pH levels in the water samples collected from the Hager, Harold Dutton, and S M Ranch water wells exceeded the water quality standards at concentrations of 8.9, 8.6, and 8.6, respectively. However, eight of the nine wells sampled exhibit a pH level greater than 8.0 during both field measurements and laboratory measurements. Inorganic analytical results are shown on Table 4.

The major cation and anion concentrations were relatively consistent with the exception of the Jerry Sumner water well sample which reported significantly higher calcium, chloride, magnesium, nitrate, and sulfate. The major cation and anion concentrations for the nine samples were plotted on Stiff diagrams and appear to be relatively consistent with the exception of the Jerry Sumner water sample. The Stiff diagrams are presented as Charts 14 through 22 and shown on Figure 4.

Major cation and anion results for the water samples were plotted on a Piper diagram. The nine samples plot in a relatively consistent location with the exception of the Jerry Sumner water sample. The Piper diagram is presented as Chart 23.

3.2.2 Analytical Results - Organics

The COGCC currently uses 2 mg/L as the threshold value for methane in water systems. The COGCC guideline for water systems containing dissolved methane concentrations above 2 mg/L is that there is an increased risk to desorb methane from the water and create potentially explosive conditions in confined spaces. Dissolved methane was detected in all of the water wells sampled and six of the nine samples reported concentrations above the COGCC threshold value. The concentrations of dissolved methane above the COGCC threshold value ranged from 3.47 mg/L in the Epple William and Linda S water well to 15.4 mg/L in the Victor and Karen Androvich water well. Dissolved methane concentrations and isoconcentration contours are shown on Figure 3.

Concentrations of benzene, ethylbenzene, and total xylenes were below the laboratory detection limits in all of the water wells sampled. Toluene was detected at a concentration of 0.00089 mg/L in the water sample collected from the Hager water well. However, this concentration is below the respective Colorado Groundwater Quality Standard (CGWQS) of 1.0 mg/L. Table 5 presents the organic analytical results.

3.2.3 Free Gas in Water Wells

Gas Composition

LTE collected a total of six free gas samples from water wells. The water wells containing free gas were the same water wells reporting dissolved methane concentrations above 2 mg/L. Gas composition analytical results indicate methane concentrations ranging from 31.86% to 78.92%. Table 6 presents the results of the gas composition analysis for free gas collected from water wells.

Gas wetness ratios for natural gas samples collected from the water wells were relatively consistent. The ratios ranged from 99.91% to 99.97% (Table 6). According to Dr. Jeffrey, these ratios indicate a gas of biogenic origin. Chart 24 presents a bar diagram of gas wetness ratios for all free gas samples collected from water wells.

Isotopic Analysis

LTE plotted the carbon and hydrogen isotopes of methane for each of the six free gas samples collected from the six water wells to determine the origin of the gas. Chart 25 presents the results of the plots for all free gas samples collected from water wells. Based on the chart and evaluation of the data by Dr. Jeffrey, all gas samples collected from water wells completed in the Klf appear to be of biogenic origin.

SECTION 4.0

CONCLUSIONS

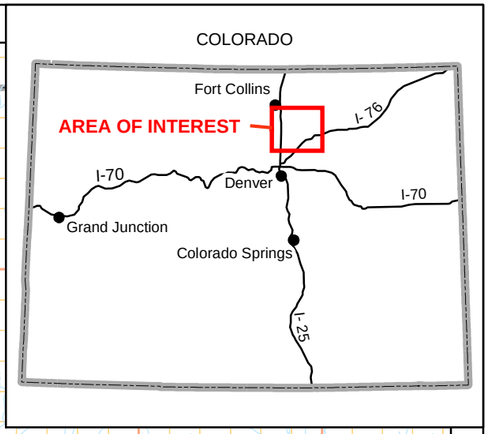
LTE sampled a total of 77 natural gas production wells in the GWA. Based on plots of the carbon and hydrogen isotopes of methane and diagrams of the gas wetness ratios for the 77 samples, it appears that all of the gas samples collected from the production wells are of thermogenic origin.

LTE sampled a total of nine water wells during the baseline study. Dissolved methane was detected in all of the water samples collected and six of the nine samples reported concentrations above the COGCC threshold value of 2 mg/L. Free gas samples were collected from the six water wells. Based on plots of the carbon and hydrogen isotopes of methane and diagrams of the gas wetness ratio for each of the samples, it appears that the gas from the six water wells is of biogenic origin.

Results of the study show a good distribution of natural gas data across the project area. These data will compliment existing COGCC data and will be useful in evaluating natural gas from several production zones and geographic areas within the GWA.

The water quality information obtained during this study is a limited data set but will compliment the existing COGCC database. The data will be useful in documenting groundwater quality in the eastern and southeastern portions of the GWA.

FIGURES



FORT COLLINS
TIMNATH
SEVERANCE
EATON
WINDSOR
LOVELAND
GREELEY
GARDEN CITY
KERSEY
EVANS
LA SALLE
JOHNSTOWN
MILLIKEN
BERTHOUD
GILCREST
Big Thompson River
Little Thompson River
South Platte River
LYONS
MEAD
PLATTEVILLE
WIGGINS
LONGMONT
Saint Vrain Creek
FIRESTONE
FREDERICK
KEENESBURG
FORT LUPTON
HUDSON
DACONO
ERIE
BOULDER
LAFAYETTE
BROOMFIELD
THORNTON
LOUISVILLE
BRIGHTON

LEGEND

- SAMPLED WATER WELL

SAMPLED OIL AND GAS PRODUCTION WELL

- CODELL
- J SAND/CODELL
- J SAND/CODELL/NIOBRARA
- J SAND
- CODELL/NIOBRARA
- SUSSEX

- INTERSTATE
- HIGHWAY
- LANDS SUBJECT TO ORDER NO. 1 R-100 AND RULE 318A
- CITY
- COUNTY
- TOWNSHIP AND RANGE
- SECTION

0 5 10
Miles

N

FIGURE 1
SITE MAP
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

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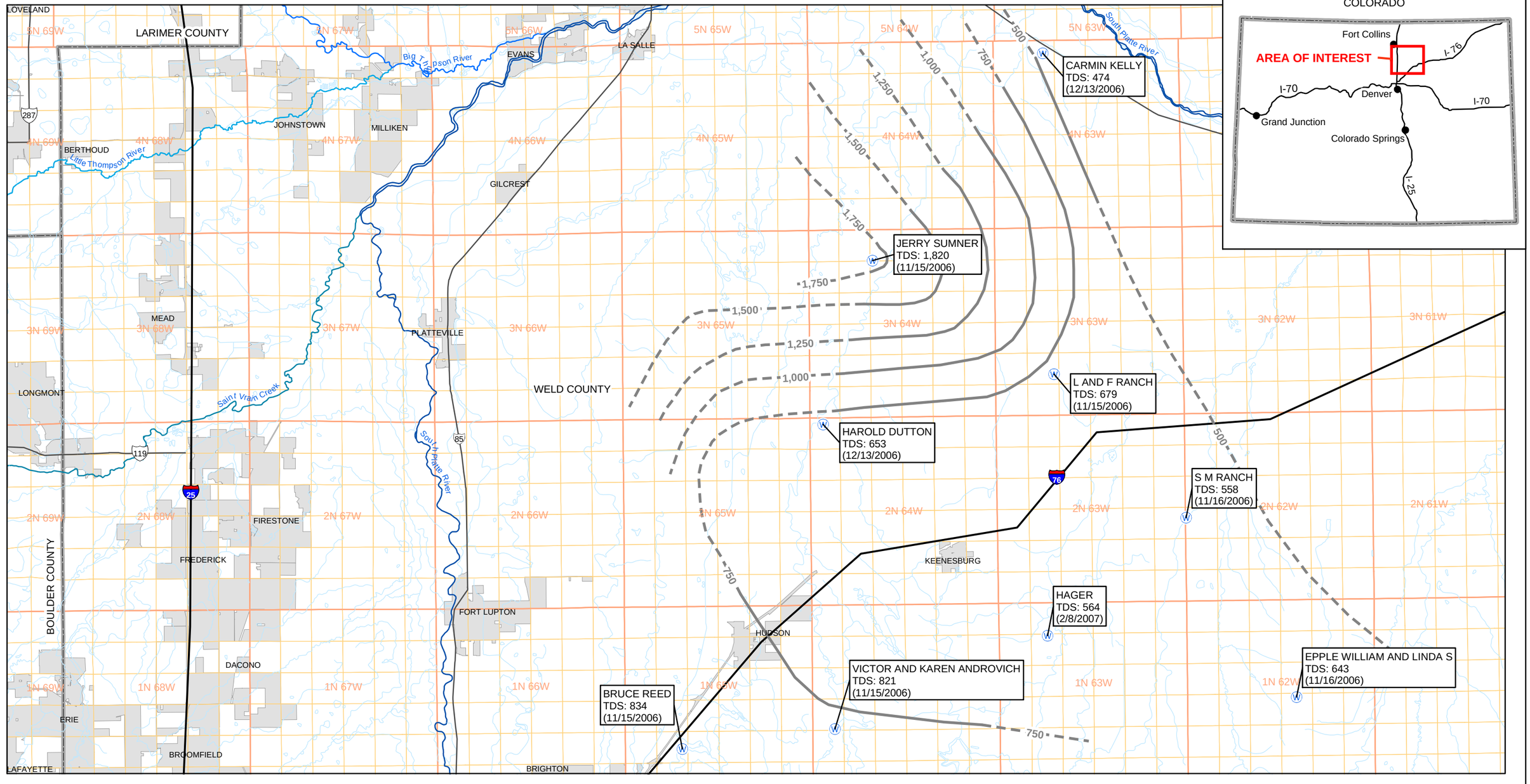

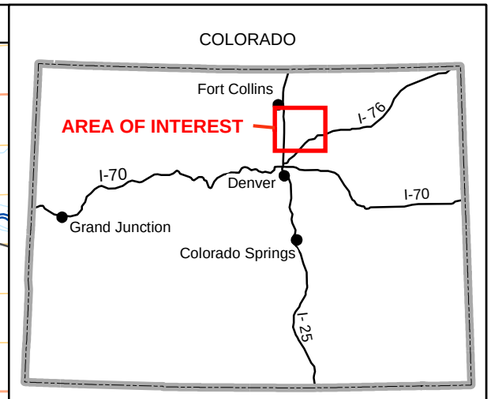

LEGEND

- SAMPLED WATER WELL
- TDS ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED) CONTOUR INTERVAL = 250 MILLIGRAMS/LITER
- INTERSTATE
- HIGHWAY
- CITY
- COUNTY
- TOWNSHIP AND RANGE
- SECTION

WATER WELL OWNER
TDS - TOTAL DISSOLVED SOLIDS IN MILLIGRAMS/LITER
(SAMPLE DATE)

FIGURE 2
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP GREATER WATTENBERG AREA COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

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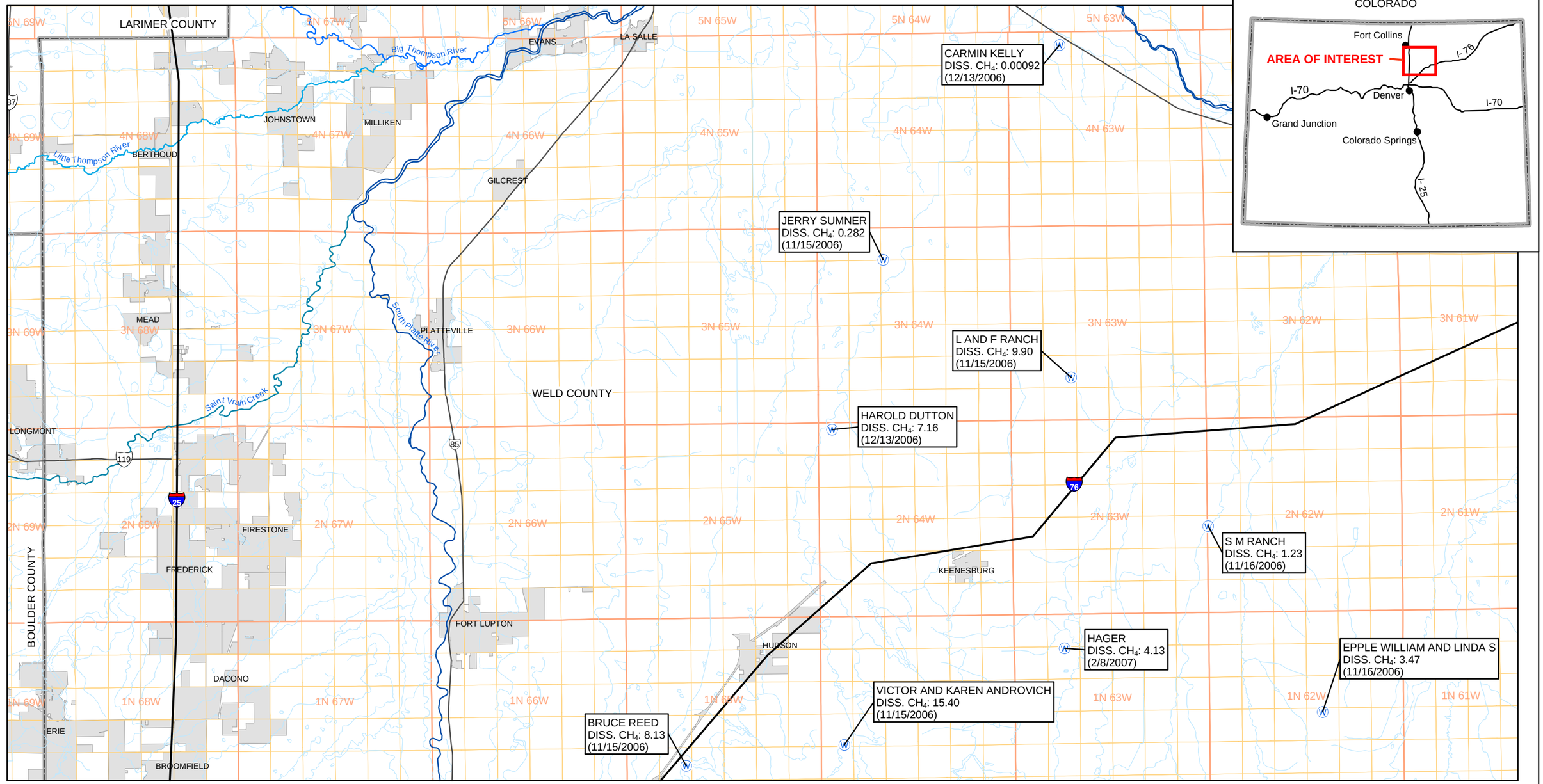

LEGEND

- SAMPLED WATER WELL
- INTERSTATE
- HIGHWAY
- CITY
- COUNTY
- TOWNSHIP AND RANGE
- SECTION

WATER WELL OWNER
DISS. CH_4 - DISSOLVED METHANE IN MILLIGRAMS/LITER
(SAMPLE DATE)

0 3 6
Miles

N

FIGURE 3
DISSOLVED METHANE ISOCONCENTRATION MAP
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

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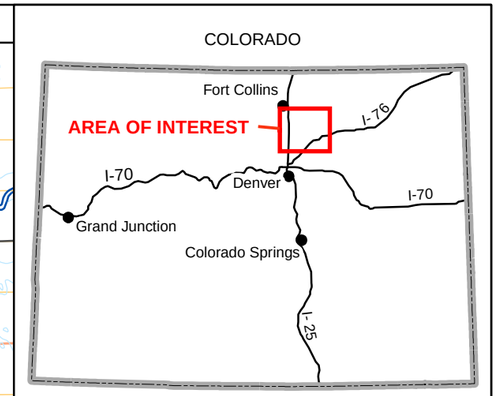

JOHNSTOWN
EVANS
LA SALLE
MILLIKEN
GILCREST
PLATTEVILLE
WELD COUNTY
FORT LUPTON
HUDSON
KEENESBURG
BRIGHTON
WIGGINS

CARMIN KELLY

JERRY SUMNER

L AND F RANCH

HAROLD DUTTON

S M RANCH

HAGER

EPPLE WILLIAM AND LINDA S

VICTOR AND KAREN ANDROVICH

BRUCE REED

4N 67W | 4N 66W | 4N 65W | 4N 64W | 4N 63W | 4N 62W | 4N 61W
3N 67W | 3N 66W | 3N 65W | 3N 64W | 3N 63W | 3N 62W | 3N 61W
2N 67W | 2N 66W | 2N 65W | 2N 64W | 2N 63W | 2N 62W | 2N 61W
1N 67W | 1N 66W | 1N 65W | 1N 64W | 1N 63W | 1N 62W

LEGEND

- SAMPLED WATER WELL
- INTERSTATE
- HIGHWAY
- CITY
- COUNTY
- TOWNSHIP AND RANGE
- SECTION

WELL OWNER AND STIFF DIAGRAM

0 3 6
Miles

N

FIGURE 4
STIFF DIAGRAMS MAP
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

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TABLES

TABLE 1
WATER WELL LOCATIONS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

StationName	Twp	Rng	SEC	QtrQtr	Latitude	Longitude
Bruce Reed	1N	65W	29	NESE	40.021536	-104.681727
Carmin Kelly	4N	63W	05	SWNE	40.342689	-104.459429
Hager	1N	63W	08	NENW	40.072458	-104.460555
Harold Dutton	2N	64W	06	NENW	40.171587	-104.594835
Jerry Sumner	3N	64W	04	SWSW	40.247384	-104.563966
L and F Ranch	3N	63W	17	SWSW	40.193751	-104.454843
S M Ranch	2N	62W	19	SWNW	40.126428	-104.375946
Victor & Karen Androvich	1N	64W	19	SWSE	40.030215	-104.589465
William & Linda S Epple	1N	62W	22	NENW	40.042517	-104.310575

Latitude and Longitude were measured by global positioning system, North American Datum 1983 (NAD 83).
Twp - Township
Rng - Range
SEC - Section
QtrQtr - Quarter Quarter

TABLE 2
AIR FREE GAS COMPOSITION AND ISOTOPIC ANALYSIS - NATURAL GAS PRODUCTION WELLS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	He %	H_2 %	Ar %	O_2 %	CO_2 %	N_2 %	CO %	C_1 %	C_2 %	C_2H_4 %	C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_{6+} %	$\delta^{13}CO_2$ ‰	$\delta^{13}C_1$ ‰	δDC_1 ‰	$\delta^{13}C_2$ ‰	$\delta^{13}C_3$ ‰	Specific Gravity	BTU	Gas Wetness Ratio
CODELL																									
Coleman #22-1I4	12/8/2006	0.0037	0.0076	0	0	2.41	0.19	0	73.62	15.01	0	6.06	0.76	1.38	0.20	0.18	0.17	3.82	-46.00	-239.3	-31.10	-27.86	0.752	1,262	76%
Davis #P27-3	12/11/2006	0.0045	0.0167	0	0	2.09	0.25	0	66.41	15.88	0	9.05	1.47	3.51	0.73	0.52	0.07	3.45	-47.74	-243.5	-32.22	-28.76	0.838	1,405	68%
Fields #X8-14	12/11/2006	0.0062	0.2040	0	0	2.34	0.26	0	73.22	14.77	0	6.38	0.82	1.56	0.23	0.17	0.04	3.60	-47.53	-244.3	-32.00	-28.28	0.753	1,265	75%
Schafer #K21-8	12/11/2006	0.0035	0.0074	0	0	2.91	0.10	0	78.12	11.88	0	4.04	0.77	1.22	0.41	0.31	0.23	4.19	-43.96	-209.8	-27.50	-24.90	0.727	1,212	81%
Bennett #WW 15-11	12/8/2006	0.0077	0.0019	0	0	1.80	0.64	0	83.22	10.06	0	3.02	0.28	0.61	0.10	0.12	0.14	2.38	-49.24	-261.4	-33.90	-29.83	0.673	1,143	85%
Turk Blue #D 19-5	12/8/2006	0.0038	0.0021	0	0	2.47	0.19	0	75.02	14.34	0	5.31	0.74	1.30	0.25	0.19	0.18	3.95	-45.52	-227.5	-30.45	-27.18	0.742	1,244	77%
Ballantine #3-30	10/31/2006	0.0063	0.0020	0	0	1.65	0.31	0	76.70	14.07	0	5.12	0.57	1.12	0.19	0.17	0.09	2.79	-47.42	-232.3	-32.23	-28.68	0.723	1,233	78%
UPRR 49 Pan Am B #1	10/30/2006	0.0070	0.0041	0	0	2.26	0.41	0	73.24	13.87	0	6.39	0.90	2.04	0.39	0.29	0.20	2.60	-48.02	-243.8	-32.41	-28.59	0.767	1,286	75%
Frye-Swanson-Frye #1	11/8/2006	0.0056	0.0025	0	0	1.93	0.45	0	75.62	13.93	0	5.89	0.50	1.16	0.18	0.19	0.15	2.58	-49.52	-266.0	-34.26	-30.08	0.734	1,241	77%
J&L Farms #11-20	11/8/2006	0.0044	0.0028	0	0	2.50	0.39	0	71.67	15.02	0	7.12	0.76	1.73	0.28	0.31	0.22	2.40	-48.71	-267.2	-33.90	-29.85	0.774	1,292	74%
Johnson #2	11/9/2006	0.0034	0.0000	0	0	2.25	0.28	0	70.89	15.12	0	7.32	0.93	2.24	0.42	0.42	0.12	3.08	-47.64	-254.3	-32.72	-28.97	0.786	1,319	73%
Miller #1	11/8/2006	0.0033	0.0044	0	0	2.67	0.17	0	75.35	14.71	0	5.09	0.49	0.88	0.24	0.24	0.15	4.06	-45.99	-236.1	-30.44	-27.28	0.734	1,227	78%
Mininger/Hoff #2	11/8/2006	0.0045	0.0052	0	0	2.45	0.28	0	70.62	15.27	0	5.86	0.65	1.78	0.98	1.20	0.90	3.14	-47.79	-256.9	-32.72	-29.08	0.809	1,349	73%
Oster #15-11	11/1/2006	0.0052	0.0084	0	0	1.96	0.25	0	76.27	14.10	0	5.31	0.60	1.05	0.16	0.15	0.14	3.61	-46.85	-240.1	-31.42	-28.08	0.727	1,233	78%
Strong #3-15	11/7/2006	0.0034	0.0244	0	0	2.61	0.15	0	77.48	12.53	0	4.38	0.70	1.27	0.36	0.30	0.19	4.03	-45.06	-223.2	-29.08	-26.17	0.729	1,221	80%
Walter D #5-10	11/2/2006	0.0038	0.0027	0	0	2.62	0.16	0	73.97	13.88	0	6.22	0.85	1.14	0.27	0.45	0.43	3.65	-46.16	-234.0	-30.20	-26.70	0.761	1,271	76%
Wiedeman #1	11/2/2006	0.0034	0.0260	0	0	2.45	0.16	0	74.65	12.14	0	5.06	1.02	1.96	0.79	0.81	0.92	4.39	-45.06	-215.9	-28.33	-25.39	0.783	1,309	77%
J SAND / CODELL																									
Brandt USX WW #13-23	12/8/2006	0.0174	0.0051	0	0	3.49	1.22	0	78.77	10.84	0	3.65	0.60	0.78	0.27	0.17	0.19	-0.58	-48.18	-233.3	-31.86	-27.60	0.714	1,156	83%
Megan H #16-4J	12/11/2006	0.0067	0.0512	0	0	3.73	0.18	0	80.25	9.93	0	3.41	0.69	1.12	0.33	0.23	0.06	4.80	-44.12	-205.9	-27.72	-25.36	0.711	1,159	84%
Richardson #24-10	12/8/2006	0.0042	0.0039	0	0	2.47	0.21	0	75.50	14.56	0	5.38	0.57	0.81	0.18	0.16	0.14	4.22	-46.03	-235.9	-30.75	-27.48	0.732	1,228	78%
Frank Boulter #1	10/30/2006	0.0042	0.0076	0	0	3.16	0.16	0	77.73	11.88	0	4.20	0.73	1.21	0.36	0.28	0.28	4.02	-44.15	-211.5	-28.37	-25.82	0.731	1,210	80%
Gordon Turkey Farms B Unit #1	10/31/2006	0.0115	0.0055	0	0	2.60	0.45	0	78.08	10.53	0	5.28	0.44	1.19	0.39	0.49	0.52	3.86	-47.06	-225.1	-29.96	-28.58	0.736	1,228	81%
UPRR 43 Pan Am W #1	10/31/2006	0.0110	0.0106	0	0	3.78	0.38	0	84.53	8.37	0	1.76	0.29	0.32	0.11	0.09	0.35	2.71	-45.88	-210.5	-28.14	-24.42	0.671	1,095	88%
UPRR 62 Pan Am C #1	10/31/2006	0.0124	0.0106	0	0	3.59	0.57	0	80.74	10.52	0	2.80	0.38	0.63	0.20	0.19	0.34	2.89	-47.12	-230.5	-30.55	-26.67	0.700	1,143	84%
Edith Ann #44-21	11/9/2006	0.0129	0.0058	0	0	2.44	0.39	0	81.90	10.36	0	3.02	0.47	0.74	0.23	0.18	0.25	2.26	-46.76	-221.9	-29.58	-26.07	0.690	1,160	84%
Olive #1	11/9/2006	0.0083	0.0000	0	0	2.42	0.50	0	78.28	12.70	0	4.41	0.47	0.91	0.12	0.08	0.09	3.16	-48.01	-245.8	-32.45	-28.82	0.710	1,190	81%
J SAND / NIOBRARA / CODELL																									
Daniel #V-11-16	12/8/2006	0.0117	0.0051	0	0	2.74	0.45	0	79.85	11.16	0	3.43	0.52	0.96	0.28	0.27	0.31	3.27	-47.32	-224.7	-30.51	-26.92	0.709	1,182	82%
Van Thuyne #1-35X	12/8/2006	0.0151	0.0052	0	0	2.43	0.43	0	83.00	9.64	0	2.74	0.51	0.76	0.20	0.11	0.15	1.47	-46.82	-215.0	-29.26	-25.78	0.681	1,144	85%
HSR-Sekich Farms #15-18A	10/31/2006	0.0121	0.0027	0	0	2.62	0.54	0	79.39	11.73	0	3.96	0.45	0.84	0.17	0.16	0.12	1.70	-48.51	-235.3	-32.05	-27.97	0.705	1,176	82%
HSR Sloan #15-21A	10/30/2006	0.0066	0.0049	0	0	4.69	0.21	0	86.95	5.21	0	1.41	0.33	0.50	0.21	0.18	0.29	2.99	-42.25	-183.5	-24.13	-23.76	0.666	1,067	91%
Moser #12-4	10/31/2006	0.0088	0.0051	0	0	3.27	0.40	0	80.08	11.03	0	3.30	0.47	0.80	0.22	0.19	0.23	4.02	-46.10	-222.0	-29.72	-26.60	0.704	1,161	83%
Sutton #12-21	10/31/2006	0.0097	0.0054	0	0	3.24	0.69	0	75.91	13.23	0	4.44	0.60	0.99	0.30	0.25	0.32	1.29	-47.81	-234.9	-31.67	-27.51	0.737	1,208	79%
Crandell E Unit #1	11/9/2006	0.0072	0.0000	0	0	2.06	0.40	0	79.79	12.93	0	3.23	0.38	0.43	0.27	0.29	0.23	2.63	-47.11	-236.9	-31.50	-26.46	0.697	1,181	82%
State Peterson #11-20	11/8/2006	0.0107	0.0057	0	0	3.40	0.39	0	83.49	8.66	0	2.38	0.34	0.65	0.17	0.19	0.31	2.96	-45.08	-217.0	-28.90	-27.06	0.682	1,123	87%
J SAND																									
Diggin State D #16-13	12/8/2006	0.0080	0.0048	0	0	4.11	0.24	0	85.41	7.10	0	1.80	0.37	0.47	0.21	0.12	0.16	3.89	-43.49	-197.9	-25.93	-24.02	0.669	1,087	89%
Held #12-14 I8	12/11/2006	0.0100	0.0041	0	0	2.42	0.42	0	81.29	10.80	0	3.16	0.42	0.78	0.26	0.20	0.23	1.01	-48.55	-233.0	-31.63	-26.96	0.694	1,166	84%
Nikoloric C #5-5	12/11/2006	0.0176	1.2267	0.00152	0	0.00	0.21	0	91.75	5.20	0	0.88	0.19	0.22	0.11	0.08	0.12	*	-42.90	-193.7	-23.35	-21.93	0.597	1,070	93%
Reichert #9-2J	12/11/2006	0.0089	0.0177	0.00134	0	4.27	0.18	0	91.07	3.96	0	0.35	0.04	0.04	0.02	0.01	0.03	2.70	-41.73	-184.9	-21.36	-19.51	0.624	999	95%
Travelers U #28-13 DI	12/8/2006	0.0136	0.0057	0	0	2.64	0.39	0	84.09	9.22	0	2.22	0.45	0.46	0.21	0.11	0.19	2.19	-46.30	-215.2	-28.21	-23.86	0.671	1,125	87%
Edith Ann #1	11/9/2006	0.0110	0.0054	0	0	2.32	0.35	0	79.42	11.35	0	4.10	0.61	1.25	0.25	0.18	0.15	2.45	-47.21	-226.5	-30.82	-27.61	0.712	1,197	82%
Francis D Clark Unit B #1	10/31/2006	0.0096	0.0065	0	0	2.79	0.57	0	74.07	12.93	0	5.24	0.81	1.78	0.58	0.60	0.61	2.39	-47.85	-235.0	-31.96	-28.22	0.772	1,277	77%
DOW #1-29	10/30/2006	0.0138	0.0046	0	0	3.78	0.43	0	84.62	8.48	0	1.72	0.30	0.29	0.12	0.07	0.17	2.46	-45.68	-219.1	-28.40	-24.11	0.666	1,088	88%
Gordon Turkey Farm Pool #1	10/31/2006	0.0132	0.0066	0	0	2.76	0.47	0	82.64	10.29	0	2.51	0.39	0.45	0.16	0.09	0.21	4.02	-47.04	-223.4	-29.63	-24.98	0.679	1,133	85%
Hulstrom #6-22	10/31/2006	0.0118	0.0059	0	0	3.67	0.37	0	84.84	8.52	0	1.72	0.27	0.26	0.09	0.05	0.18	2.75	-45.93	-209.3	-28.17	-24.15	0.664	1,088	88%
Raymond Martin Gas Unit #1	10/30/2006	0.0069	0.0089	0	0	4.52	0.28	0	85.48	6.83	0	1.71	0.30	0.41	0.16	0.11	0.19	3.28	-43.82	-198.3	-26.11	-24.41	0.668	1,075	90%

TABLE 2 (continued)
GAS COMPOSITION AND ISOTOPIC ANALYSIS - NATURAL GAS PRODUCTION WELLS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	He %	H_2 %	Ar %	O_2 %	CO_2 %	N_2 %	CO %	C_1 %	C_2 %	C_2H_4 %	C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_{6+} %	$\delta^{13}CO_2$ ‰	$\delta^{13}C_1$ ‰	δDC_1 ‰	$\delta^{13}C_2$ ‰	$\delta^{13}C_3$ ‰	Specific Gravity	BTU	Gas Wetness Ratio
J SAND (continued)																									
Stitt Gas Unit #1	10/31/2006	0.0126	0.0062	0	0	3.47	0.74	0	77.80	12.23	0	3.75	0.56	0.76	0.24	0.16	0.27	1.52	-47.47	-231.1	-30.97	-26.55	0.720	1,175	81%
UPRR 22 Pan Am UT/S #2	10/30/2006	0.0072	0.0095	0	0	4.78	0.34	0	82.25	8.59	0	2.37	0.43	0.58	0.23	0.15	0.27	4.75	-44.83	-203.5	-27.68	-24.84	0.695	1,108	87%
UPRR 62 Pan Am Gas Unit K #1	10/31/2006	0.0126	0.0072	0	0	3.76	0.54	0	81.35	10.09	0	2.59	0.40	0.54	0.21	0.14	0.34	3.06	-46.60	-221.4	-29.57	-25.33	0.695	1,132	85%
Baker #5-41	11/8/2006	0.0128	0.0072	0	0	3.55	0.35	0	87.06	6.91	0	1.21	0.25	0.23	0.12	0.07	0.23	2.74	-44.18	-207.9	-25.98	-22.34	0.651	1,071	91%
Edwards #44-9	11/8/2006	0.0119	0.0038	0	0	2.69	0.55	0	77.07	12.19	0	4.46	0.61	1.19	0.40	0.36	0.47	2.22	-48.45	-244.9	-32.08	-27.60	0.737	1,224	80%
Ruhl #1	11/8/2006	0.0153	0.0058	0	0	3.31	0.67	0	78.85	11.45	0	3.47	0.51	0.81	0.30	0.23	0.39	2.47	-48.00	-237.3	-31.41	-26.69	0.716	1,175	82%
NIOBRARA / CODELL																									
Alles #7-31	12/11/2006	0.0053	0.0881	0	0	2.09	0.27	0	69.83	15.10	0	7.94	1.05	2.54	0.49	0.50	0.10	2.90	-48.00	-254.7	-32.98	-29.15	0.799	1,343	72%
Carr #1	12/8/2006	0.0077	0.0040	0	0	2.39	0.35	0	79.49	11.73	0	4.13	0.49	1.01	0.17	0.16	0.06	3.02	-47.24	-233.6	-30.90	-27.59	0.705	1,185	82%
Bragg #1	12/1/2006	0.0036	0.0035	0	0	2.71	0.15	0	76.01	13.15	0	5.00	0.78	1.41	0.33	0.28	0.17	3.71	-45.09	-224.8	-29.33	-26.31	0.741	1,237	78%
Gill Land Assoc. #1	11/1/2006	0.0038	0.0066	0	0	2.50	0.30	0	74.84	14.73	0	5.82	0.55	1.03	0.08	0.06	0.07	3.23	-47.45	-252.4	-32.69	-29.08	0.734	1,230	77%
Linhart #4-33	11/2/2006	0.0035	0.0077	0	0	2.60	0.14	0	74.94	13.14	0	5.18	0.88	1.72	0.55	0.52	0.32	4.12	-45.09	-223.2	-29.09	-26.18	0.760	1,270	77%
Eckstine V #9-16	12/8/2006	0.0061	0.0033	0	0	2.02	0.33	0	73.19	14.24	0	6.43	0.78	1.86	0.42	0.46	0.26	2.88	-48.36	-253.6	-33.07	-29.60	0.768	1,294	75%
Johnson R C #29-2	12/11/2006	0.0038	0.0048	0	0	2.58	0.14	0	73.27	13.91	0	5.87	0.93	1.96	0.53	0.56	0.24	4.26	-45.25	-227.9	-29.93	-27.04	0.773	1,291	75%
Sarchet #20-1	12/11/2006	0.0057	0.0063	0	0	2.34	0.35	0	75.95	13.80	0	5.25	0.56	1.22	0.22	0.23	0.07	3.02	-48.11	-251.1	-33.00	-29.16	0.732	1,229	78%
Shannon #14-3	12/11/2006	0.0080	0.2620	0	0	0.55	0.37	0	76.00	13.82	0	6.15	0.72	1.62	0.24	0.20	0.06	1.07	-48.54	-257.3	-33.18	-29.22	0.730	1,272	77%
API #41-15	10/30/2006	0.0035	0.0041	0	0	2.84	0.19	0	80.34	11.06	0	3.47	0.59	0.93	0.23	0.18	0.16	4.16	-44.16	-209.6	-27.28	-24.56	0.704	1,173	83%
Dillon #44-15	10/31/2006	0.0057	0.0038	0	0	1.88	0.31	0	74.49	14.54	0	6.03	0.69	1.46	0.23	0.16	0.21	2.98	-47.66	-245.3	-32.51	-28.94	0.746	1,264	76%
Hovey Wanker #1-9	10/31/2006	0.0047	0.0034	0	0	1.88	0.25	0	73.40	14.10	0	6.64	0.90	2.00	0.40	0.31	0.12	3.06	-47.67	-244.9	-32.17	-28.58	0.764	1,294	75%
McLaughlin #34-8	10/30/2006	0.0056	0.0050	0	0	2.00	0.34	0	72.50	14.90	0	7.03	0.82	1.77	0.22	0.20	0.22	2.62	-48.60	-254.5	-33.16	-29.40	0.766	1,291	74%
Becker #5-7	11/2/2006	0.0035	0.0031	0	0	2.54	0.20	0	75.78	13.83	0	5.06	0.75	1.29	0.21	0.13	0.21	4.36	-44.96	-227.9	-29.82	-26.83	0.737	1,234	78%
Urich, Don #31-27	11/2/2006	0.0046	0.0036	0	0	2.44	0.57	0	77.39	13.26	0	4.38	0.51	0.86	0.20	0.19	0.20	3.95	-46.79	-245.0	-31.52	-28.16	0.719	1,202	80%
Gill Land Assoc. #22-3	11/1/2006	0.0041	0.0049	0	0	2.57	0.29	0	75.29	14.74	0	5.31	0.49	0.99	0.13	0.11	0.07	3.62	-47.62	-255.8	-32.65	-29.01	0.731	1,223	78%
CPC-Harless #17-1	11/1/2006	0.0040	0.0042	0	0	2.65	0.20	0	76.77	13.62	0	4.79	0.59	1.01	0.14	0.09	0.13	3.91	-45.75	-231.4	-30.18	-26.98	0.723	1,211	79%
Mowery #19-1	11/2/2006	0.0045	0.0052	0	0	2.45	0.28	0	70.62	15.27	0	5.86	0.65	1.78	0.98	1.20	0.90	3.95	-45.72	-229.2	-30.17	-27.11	0.773	1,291	75%
SUSSEX																									
Scooter #D18-15	12/8/2006	0.0039	0.0018	0	0	2.56	0.21	0	75.99	13.62	0	5.18	0.69	1.31	0.18	0.13	0.12	3.67	-46.29	-233.8	-30.98	-27.49	0.734	1,229	78%
UPRR 21 Pan Am G #1	10/30/2006	0.0106	0.0050	0	0	0.54	0.67	0	79.30	10.72	0	5.14	0.94	1.58	0.43	0.38	0.28	-12.86	-46.93	-215.5	-28.01	-25.61	0.723	1,255	80%
Dinner #1	11/8/2006	0.0129	0.0078	0	0	0.46	0.85	0	77.53	9.59	0	5.73	1.20	2.18	0.79	0.77	0.88	-12.67	-48.20	-220.7	-28.67	-26.81	0.764	1,319	79%
Aristocrat Angus #41-4	11/8/2006	0.0129	0.0072	0	0	0.58	1.47	0	78.05	6.97	0	8.04	1.62	1.70	0.37	0.33	0.85	-11.56	-52.11	-225.9	-32.81	-30.31	0.760	1,298	80%
Guilder #2	11/1/2006	0.0128	0.0118	0.00406	0	0.57	1.18	0	64.75	10.48	0	12.43	2.26	4.67	1.24	1.33	1.06	-12.51	-53.17	-227.8	-33.63	-31.08	0.914	1,494	66%
Rasmussen #44-29	11/7/2006	0.0106	0.0000	0.00286	0	0.31	0.93	0	61.91	13.53	0	15.06	2.05	3.99	0.78	0.77	0.67	*	-53.55	-238.4	-34.11	-30.27	0.908	1,512	63%
Johnson, Rolland A Unit D #1	11/1/2006	0.0197	0.0145	0.0044	0	0.50	1.94	0	71.66	6.57	0	9.91	2.16	3.70	1.12	1.12	1.27	-10.62	-55.64	-227.3	-34.46	-31.50	0.860	1,385	73%
Stonebraker #6-12	11/7/2006	0.0153	0.0070	0.00362	0	0.18	1.44	0	78.05	9.81	0	6.17	0.87	1.84	0.47	0.52	0.63	*	-52.14	-238.1	-33.48	-30.45	0.748	1,253	79%

Notes:

% - percent
‰ - per mil
BTU - British Thermal Units
He - Helium
H_2 - Hydrogen
Ar - Argon
O_2 - Oxygen
CO_2 - Carbon Dioxide
N_2 - Nitrogen
CO - Carbon Monoxide
C_1 - Methane
C_2 - Ethane
C_2H_4 - Ethylene
C_3 - Propane
iC_4 - Isobutane
nC_4 - Butane
iC_5 - Isopentane
nC_5 - Pentane
C_{6+} - Hexanes +
$\delta^{13}CO_2$ - Carbon isotope of Carbon Dioxide
$\delta^{13}C_1$ - Carbon isotope of Methane
δDC_1 - Hydrogen isotope of Methane
$\delta^{13}C_2$ - Carbon isotope of Ethane
$\delta^{13}C_3$ - Carbon isotope of Propane

* = denotes insufficient sample volume or concentration for analysis

TABLE 3
FIELD PARAMETERS - WATER WELL PURGING
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	INITIAL			FINAL		
		pH	Temp ^{o}C	EC (uS/cm)	pH	Temp ^{o}C	EC (uS/cm)
Bruce Reed	11/15/2006	8.3	13.8	1,220	8.3	18.9	1,316
Carmin Kelly	12/13/2006	8.8	11.2	808	8.8	9.2	815
Epple William and Linda S	11/16/2006	8.7	15.0	1,028	8.7	15.0	1,032
Hager	2/8/2007	9.0	12.9	957	8.9	14.0	970
Harold Dutton	12/13/2006	8.9	15.1	1,149	8.9	16.7	1,151
Jerry Sumner	11/15/2006	7.4	14.1	2,600	7.4	14.2	2,620
L and F Ranch	11/15/2006	8.7	18.8	1,098	8.7	18.8	1,097
S M Ranch	11/16/2006	8.8	16.3	894	8.9	16.0	899
Victor and Karen Androvich	11/15/2006	8.7	13.8	1,576	8.7	17.9	1,322

Notes:

^{o}C - degrees celsius

EC - Electrical Conductance

uS/cm - micro-Siemens per centimeter

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - INORGANICS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	MAJOR ANIONS						MAJOR CATIONS					HALIDES	
		CO_3 (mg/L)	HCO_3 (mg/L)	Cl (mg/L)	NO_3-N (mg/L)	NO_2-N (mg/L)	SO_4 (mg/L)	Ca (mg/L)	Fe (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	Br (mg/L)	F (mg/L)
Bruce Reed	11/15/2006	600	540	27.4	<0.010	0.010	9.2	2.860	<0.019	1.320	0.746	239.000	1.1	3.0
Carmin Kelly	12/13/2006	250	250	3.5	0.59	<0.050	101	4.280	0.0388	1.950	1.240	148.000	<0.25	2.2
Epple William and Linda S	11/16/2006	490	470	25.9	<0.10	<0.0030	14.9	3.180	<0.019	1.220	0.776	228.000	0.72	2.1
Hager	2/8/2007	100	475	37.5	0.19	0.010	<1.0	1.490	0.0939	1.010	0.397	214.000	0.64	3.0
Harold Dutton	12/13/2006	460	420	65.4	0.10	<0.050	<1.0	1.680	0.134	1.770	0.492	232.000	1.3	2.6
Jerry Sumner	11/15/2006	260	260	154	**11.0**	0.010	**876**	222.000	<0.019	5.280	43.200	227.000	1.9	0.73
L and F Ranch	11/15/2006	500	480	53.0	<0.10	0.010	<1.0	3.070	0.103	1.400	0.779	235.000	0.96	3.2
S M Ranch	11/16/2006	430	390	24.7	<0.10	<0.0030	<1.0	1.650	0.0724	0.765	0.404	195.000	0.74	2.0
Victor and Karen Androvich	11/15/2006	540	500	107	<0.10	0.010	<1.0	1.570	0.132	1.380	0.477	269.000	1.4	3.5
Water Quality Standard				250	10.0	1.0	250	--	0.3	--	--	--	--	4.0

Sample ID	Sample Date	DISSOLVED METALS							pH (mg/L)	TDS (mg/L)	EC (uS/cm)
		As (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Se (mg/L)	Mn (mg/L)			
Bruce Reed	11/15/2006	<0.0027	0.0682	<0.0024	<0.0018	0.00070	<0.0032	<0.0077	8.3	834	1,440
Carmin Kelly	12/13/2006	<0.0027	0.0185	<0.0024	<0.0018	0.0013	<0.0032	<0.0077	8.4	474	836
Epple William and Linda S	11/16/2006	<0.0027	0.0516	<0.0024	<0.0018	<0.00070	<0.0032	0.0154	8.5	643	1,140
Hager	2/8/2007	<0.0027	0.0276	<0.0024	<0.0018	<0.00070	<0.0032	0.0090	**8.9**	564	1,080
Harold Dutton	12/13/2006	<0.0027	0.0411	<0.0024	<0.0018	<0.00070	<0.0032	0.0080	**8.6**	653	1,210
Jerry Sumner	11/15/2006	<0.0027	0.0196	<0.0024	<0.0018	0.0022	0.0116	0.0301	7.5	1,820	2,330
L and F Ranch	11/15/2006	<0.0027	0.0642	<0.0024	<0.0018	<0.00070	<0.0032	0.0147	8.5	679	1,410
S M Ranch	11/16/2006	<0.0027	0.0308	<0.0024	<0.0018	<0.00070	<0.0032	0.0212	**8.6**	558	921
Victor and Karen Androvich	11/15/2006	<0.0027	0.0460	<0.0024	<0.0018	0.0011	<0.0032	0.0133	8.5	821	1,740
Water Quality Standard		0.05	2.0	0.005	0.1	0.05	0.05	0.05	6.5-8.5	--	--

Notes:

< = less than stated laboratory detection limit
mg/L = milligrams per liter
uS/cm - micro-Siemens per centimeter
water quality standards established by Colorado Department of Public Health and Environment
-- indicates water quality standard not established
Bold indicates concentration exceeds water quality standard
Samples analyzed for chloride and electrical conductance were collected on 2/23/07

CO_3- Carbonate
HCO_3-Bicarbonate
Cl - Chloride
NO_3-N - Nitrate
NO_2-N - Nitrite
SO_4 - Sulfate
Fe - Iron
K - Potassium
Mg - Magnesium
Na - Sodium
As - Arsenic
Ba - Barium
Cd - Cadmium
Pb - Lead
Se - Selenium
Mn - Manganese
Br - Bromide
F - Flouride
TDS - Total Dissolved Solids
EC - Electrical conductance

TABLE 5
GROUNDWATER ANALYTICAL RESULTS - ORGANICS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylenes (mg/L)	Dissolved Methane (mg/L)
Bruce Reed	11/15/2006	<0.0020	<0.0020	<0.0020	<0.0060	**8.130**
Carmin Kelly	12/13/2006	<0.0020	<0.0020	<0.0020	<0.0060	0.00092
Epple William and Linda S	11/16/2006	<0.0020	<0.0020	<0.0020	<0.0060	**3.470**
Hager	2/8/2007	<0.0020	0.00089	<0.0020	<0.0060	**4.130**
Harold Dutton	12/13/2006	<0.0020	<0.0020	<0.0020	<0.0060	**7.160**
Jerry Sumner	11/15/2006	<0.0020	<0.0020	<0.0020	<0.0060	0.282
L and F Ranch	11/15/2006	<0.0020	<0.0020	<0.0020	<0.0060	**9.900**
S M Ranch	11/16/2006	<0.0020	<0.0020	<0.0020	<0.0060	1.230
Victor and Karen Androvich	11/15/2006	<0.0020	<0.0020	<0.0020	<0.0060	**15.400**
Water Quality Standard*		0.005	1.0	0.7	10.0	2.0

Notes:
< = less than stated detection limit
mg/L = milligrams per Liter
* Colorado Groundwater Quality Standards with the exception of methane, which is a threshold value established by the Colorado Oil and Gas Conservation Commission

TABLE 6
GAS COMPOSITION AND ISOTOPIC ANALYSIS - WATER WELLS
GREATER WATTENBERG AREA
COLORADO

COLORADO OIL AND GAS CONSERVATION COMMISSION

Sample ID	Sample Date	He %	H_2 %	Ar %	O_2 %	CO_2 %	N_2 %	CO %	C_1 %	C_2 %	C_2H_4 %	C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_{6+} %	$\delta^{13}CO_2$ ‰	$\delta^{13}C_1$ ‰	δDC_1 ‰	$\delta^{13}C_2$ ‰	$\delta^{13}C_3$ ‰	Specific Gravity	BTU	Gas Wetness Ratio
Bruce Reed	11/15/2006	0.076	0	0.36	0	0.50	22.41	0	76.60	0.049	0	0	0	0	0	0	0	--	-70.02	-277.5	-45.3	0.660	764	1,212	99.94%
Epple William and Linda S	11/16/2006	0.080	0	0.85	0	0.21	66.97	0	31.86	0.030	0	0	0	0	0	0	0	--	-81.99	-280.9	-45.8	0.846	311	1,405	99.91%
Harold Dutton	12/13/2006	0.14	0	0.69	0	0.19	42.91	0	56.04	0.039	0	0	0	0	0	0	0	-22.7	-74.22	-267.8	-49.9	0.746	552	1,262	99.93%
Hager	2/8/2007	0.16	0.00965	0.91	0	0.14	64.10	0	34.68	0.010	0	0	0	0	0	0	0	-16.66	-72.85	-260.2	--	--	0.835	335	99.97%
L and F Ranch	11/15/2006	0.033	0	0.58	0	0.20	37.27	0	61.89	0.024	0	0	0	0	0	0	0	--	-73.91	-262.6	-51.3	0.777	490	1,265	99.96%
Victor & Karen Androvich	11/15/2006	0.069	0	0.34	0	0.21	20.42	0	78.92	0.048	0	0	0	0	0	0	0	--	-71.57	-267.8	-49.6	0.647	792	1,244	99.94%

Notes:

% - percent

‰ - per mil

BTU - British Thermal Unit

-- denotes insufficient sample volume or concentration for analysis

He - Helium

H_2 - Hydrogen

Ar - Argon

O_2 - Oxygen

CO_2 - Carbon Dioxide

N_2 - Nitrogen

CO - Carbon Monoxide

C_1 - Methane

C_2 - Ethane

C_2H_4 - Ethylene

C_3 - Propane

iC_4 - Isobutane

nC_4 - Butane

iC_5 - Isopentane

nC_5 - Pentane

C_{6+} - Hexanes +

$\delta^{13}CO_2$ - Carbon isotope of Carbon Dioxide

$\delta^{13}C_1$ - Carbon isotope of Methane

δDC_1 - Hydrogen isotope of Methane

$\delta^{13}C_2$ - Carbon isotope of Ethane

$\delta^{13}C_3$ - Carbon isotope of Propane

CHARTS

CHART 1
GAS WETNESS - CODELL

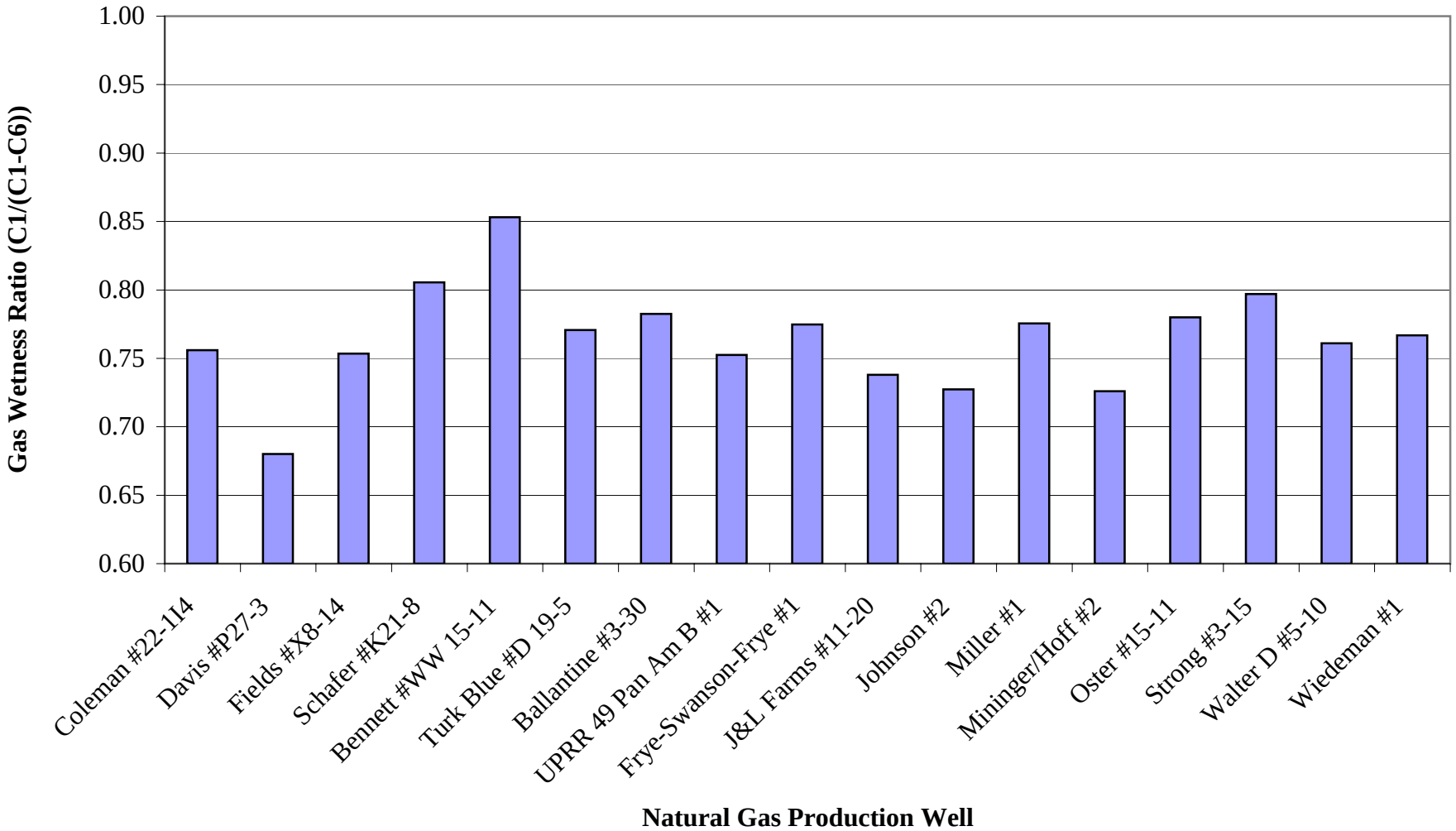


CHART 2
GAS WETNESS - J SAND / CODELL

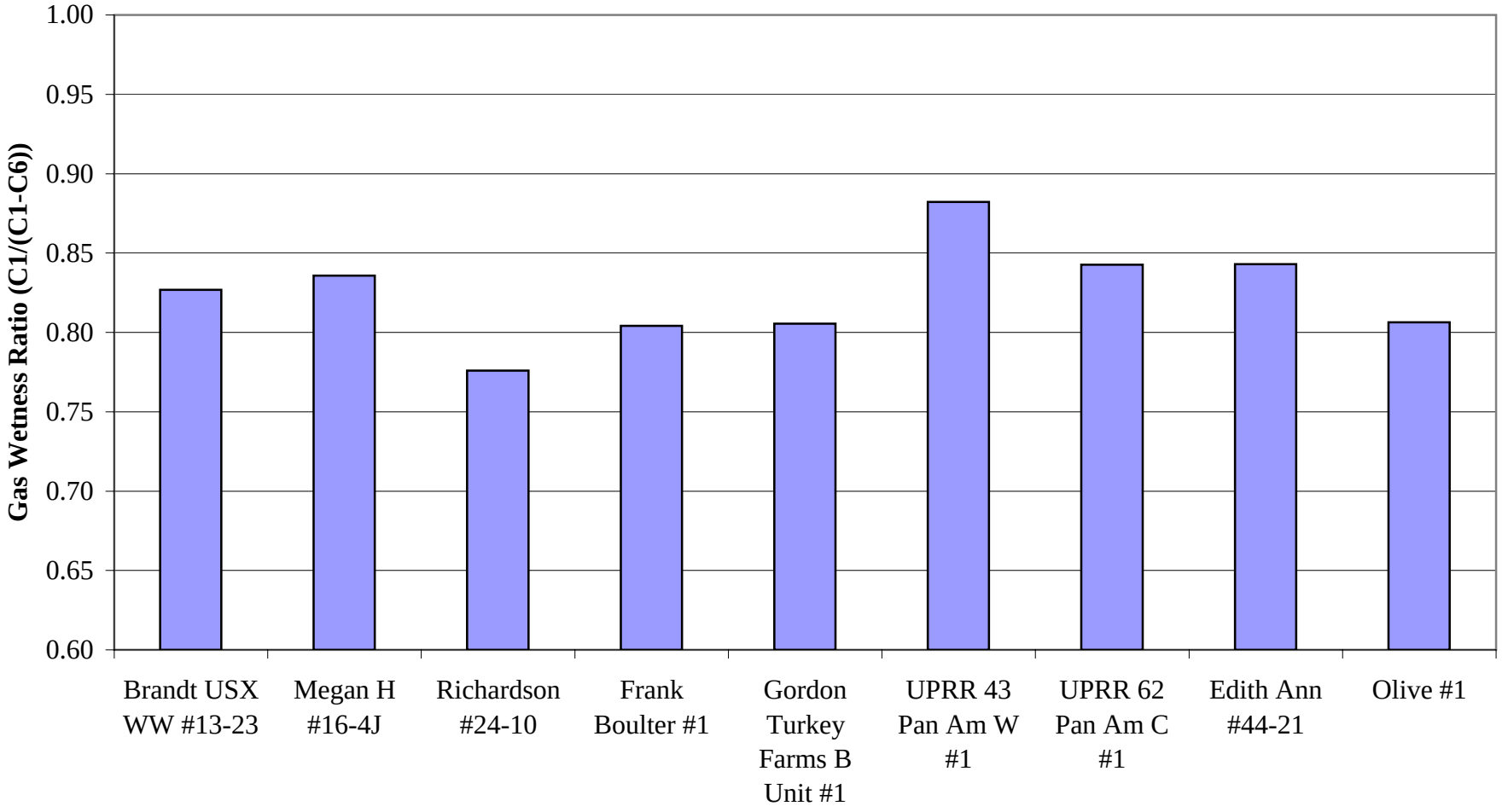


CHART 3
GAS WETNESS - J SAND / NIOBRARA / CODELL

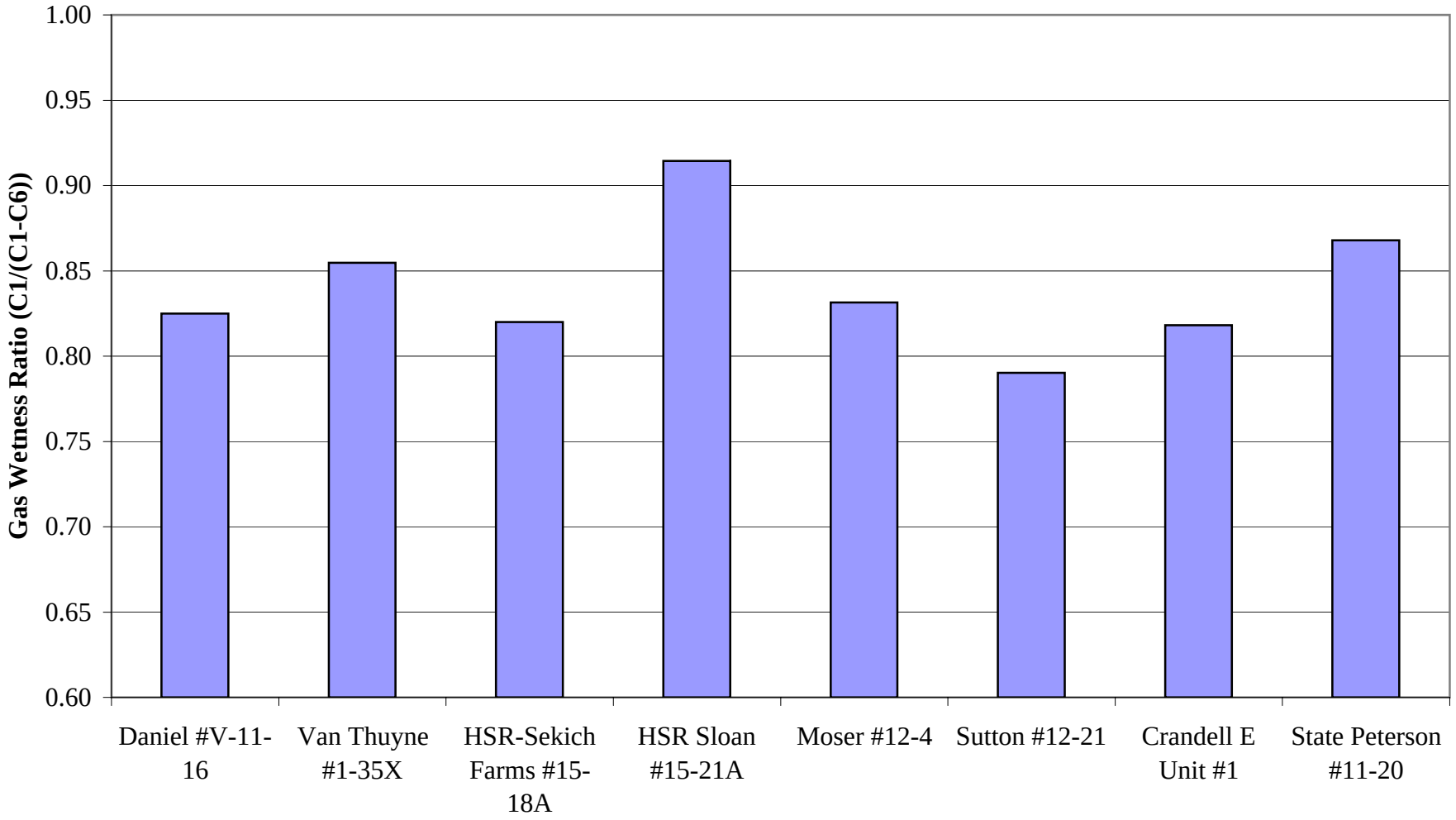


CHART 4
GAS WETNESS - J SAND

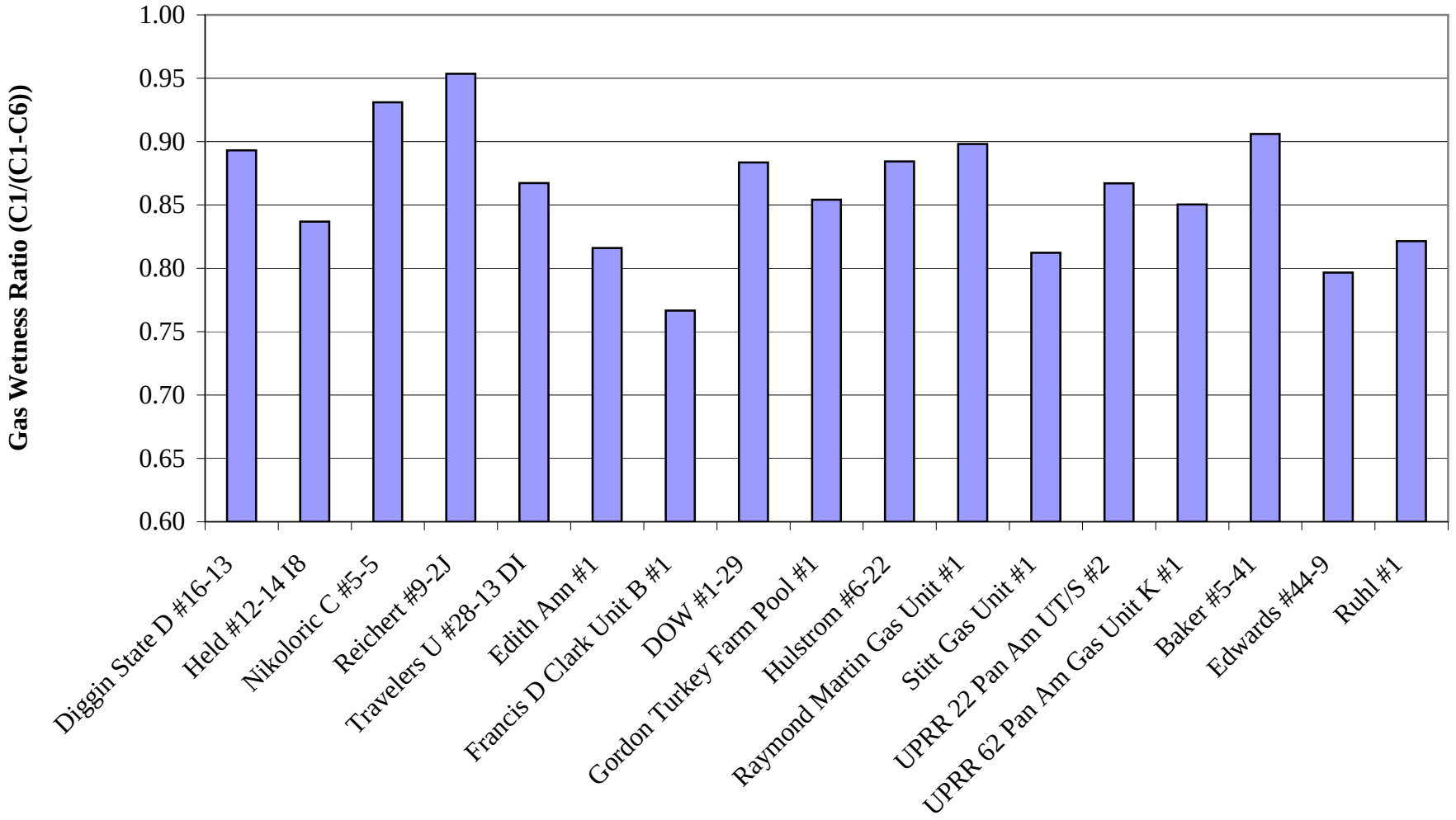


CHART 5
GAS WETNESS - NIOBRARA / CODELL

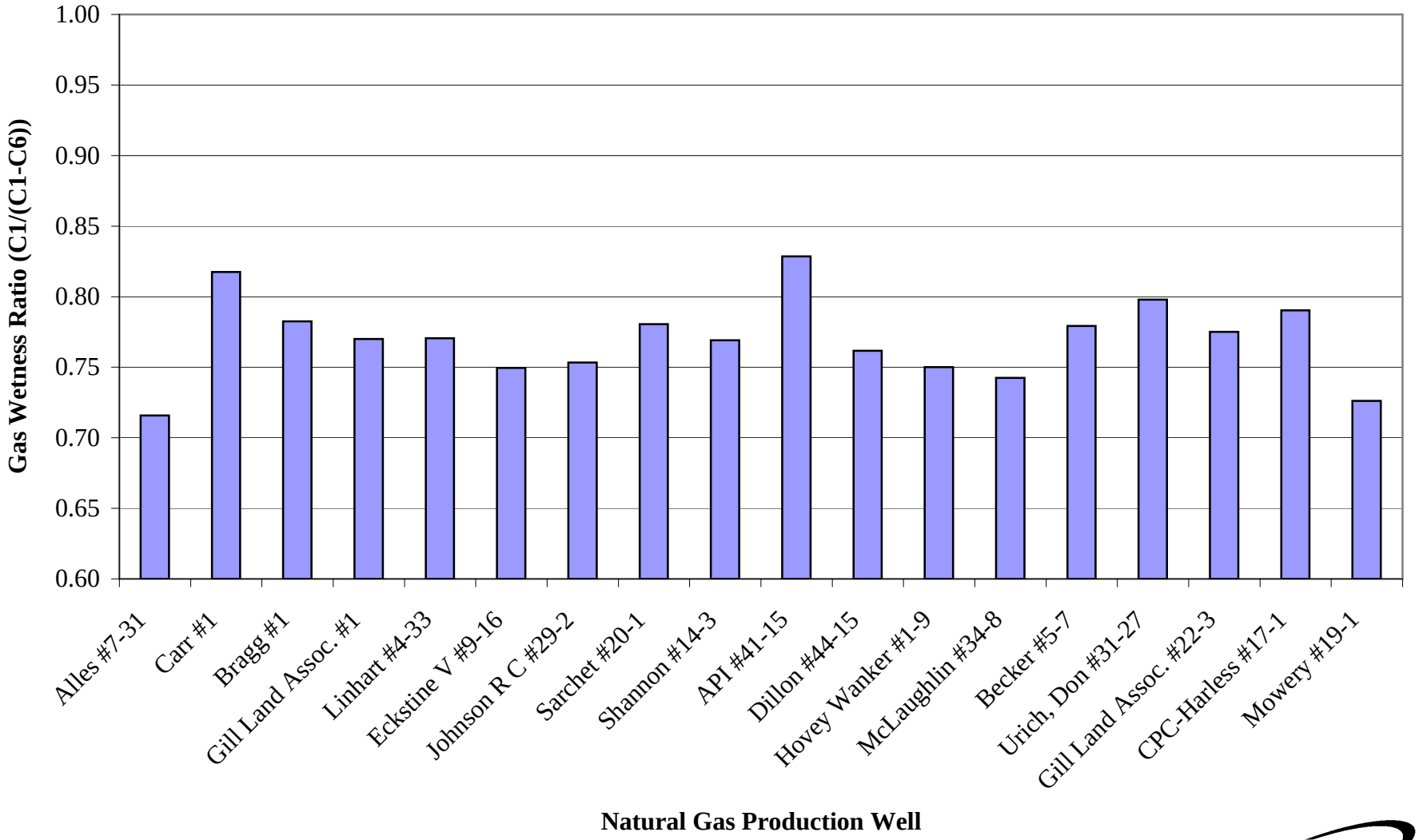


CHART 6
GAS WETNESS - SUSSEX

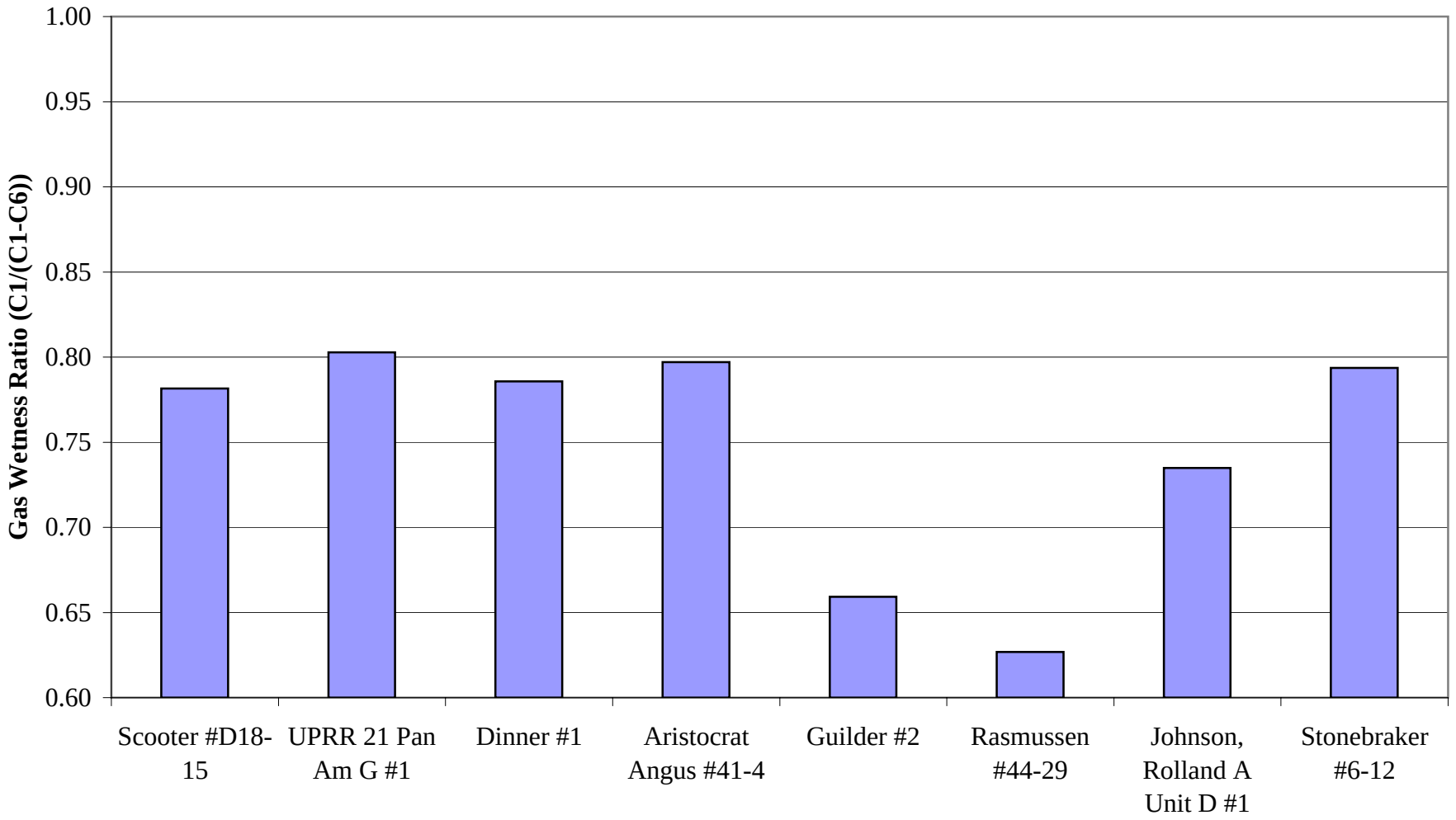
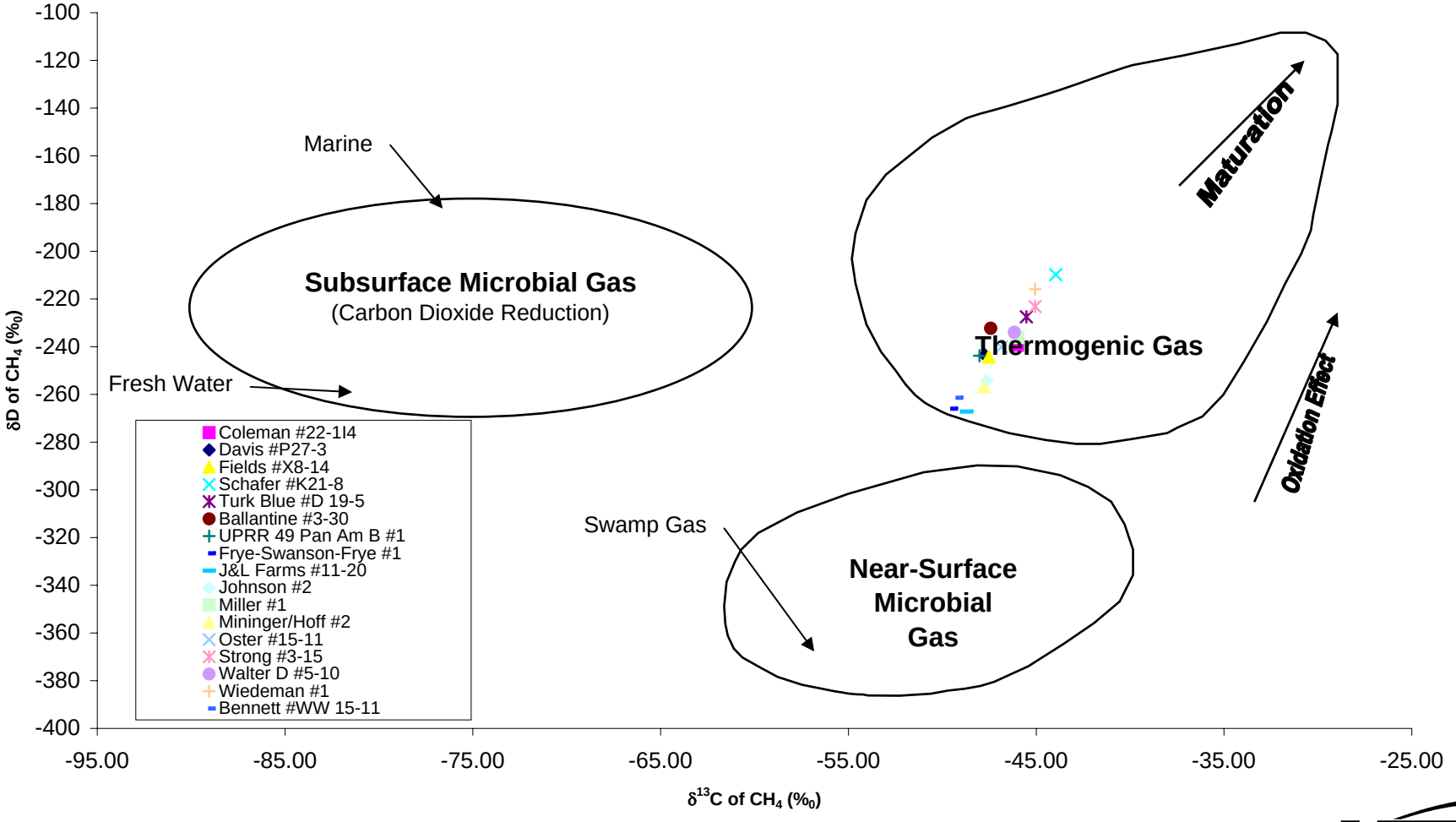
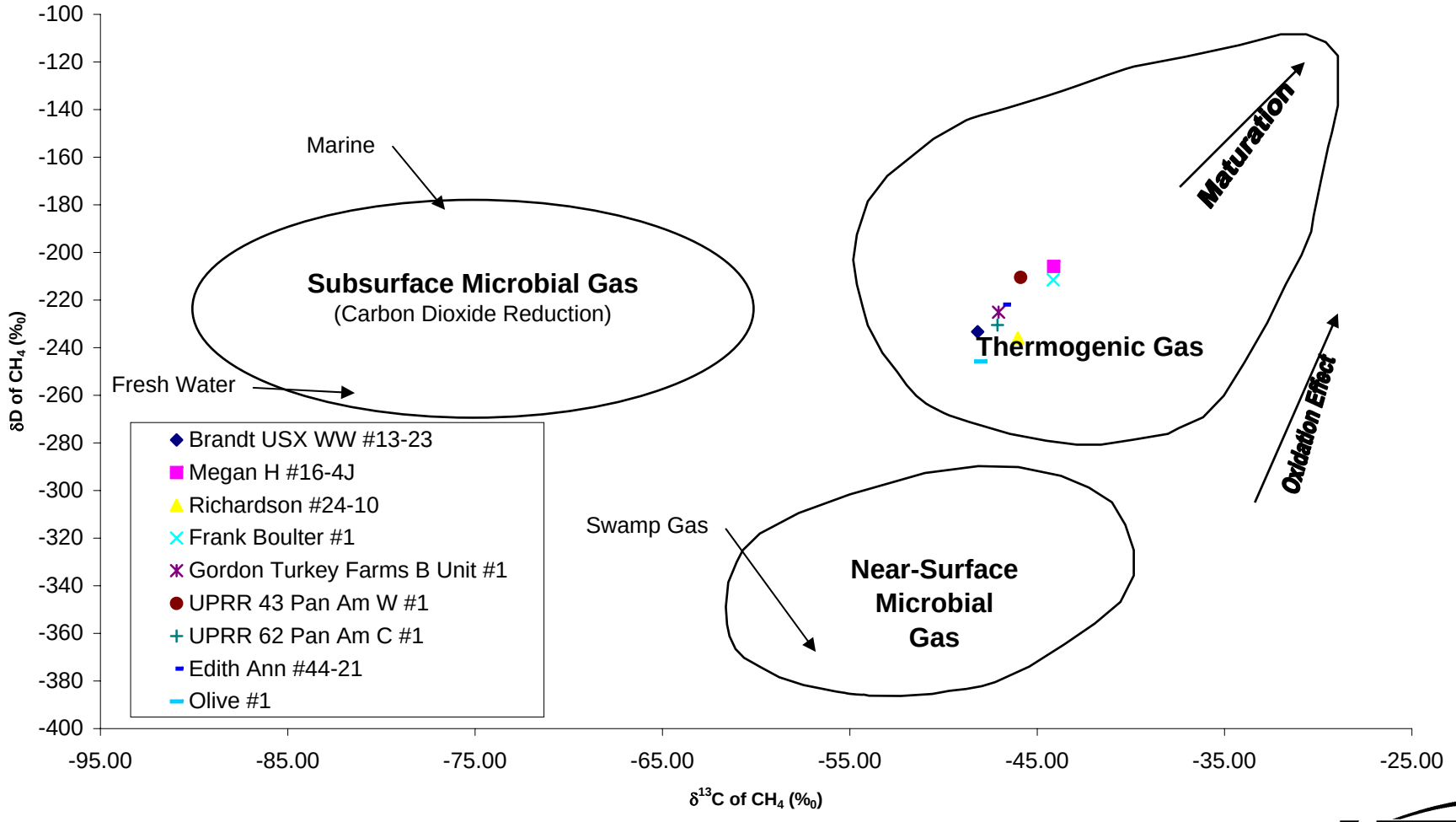


CHART 7
ISOTOPIC ANALYSIS
CODELL



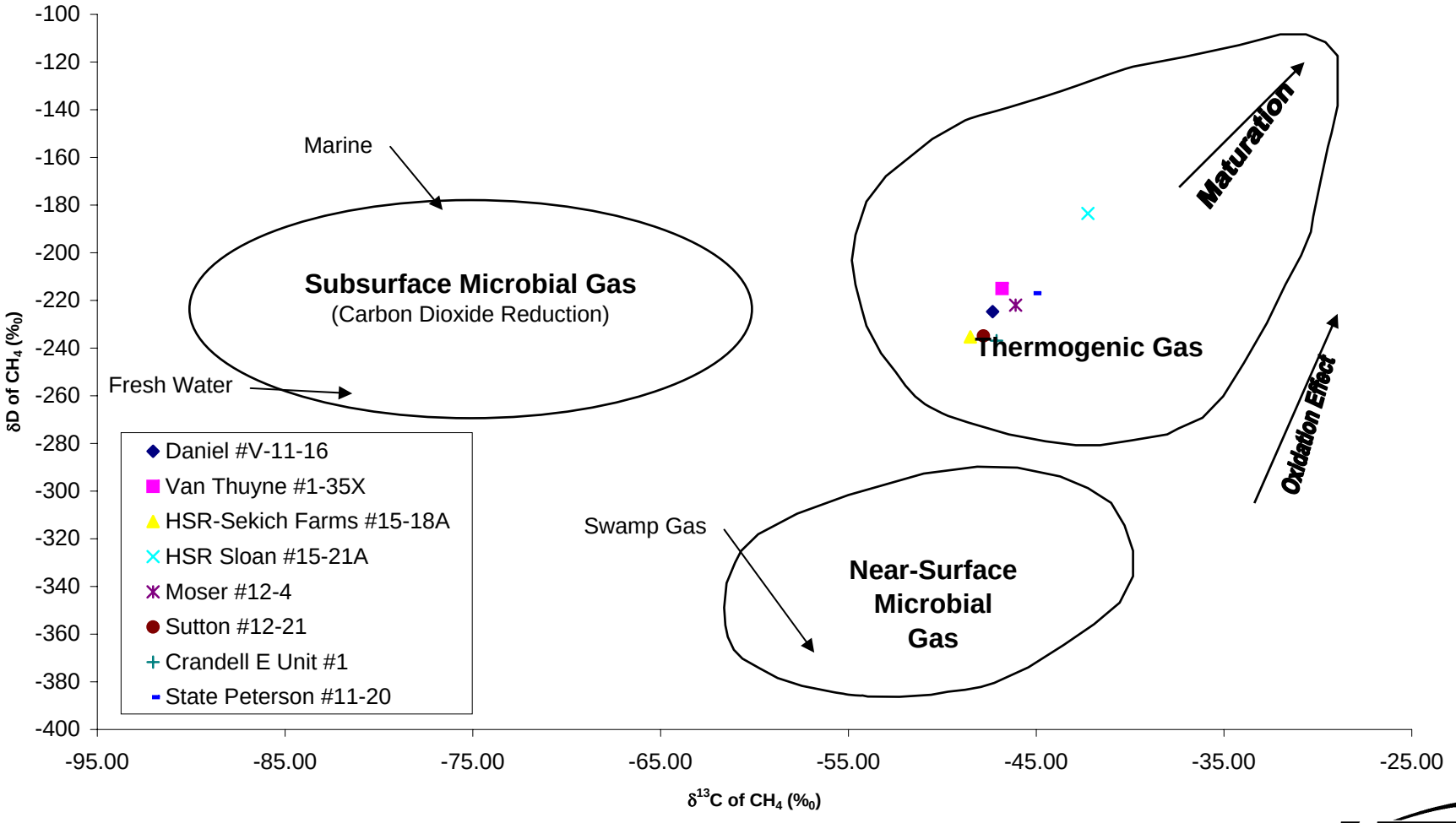
Source: Coleman et al., 1995

CHART 8
ISOTOPIC ANALYSIS
J SAND / CODELL



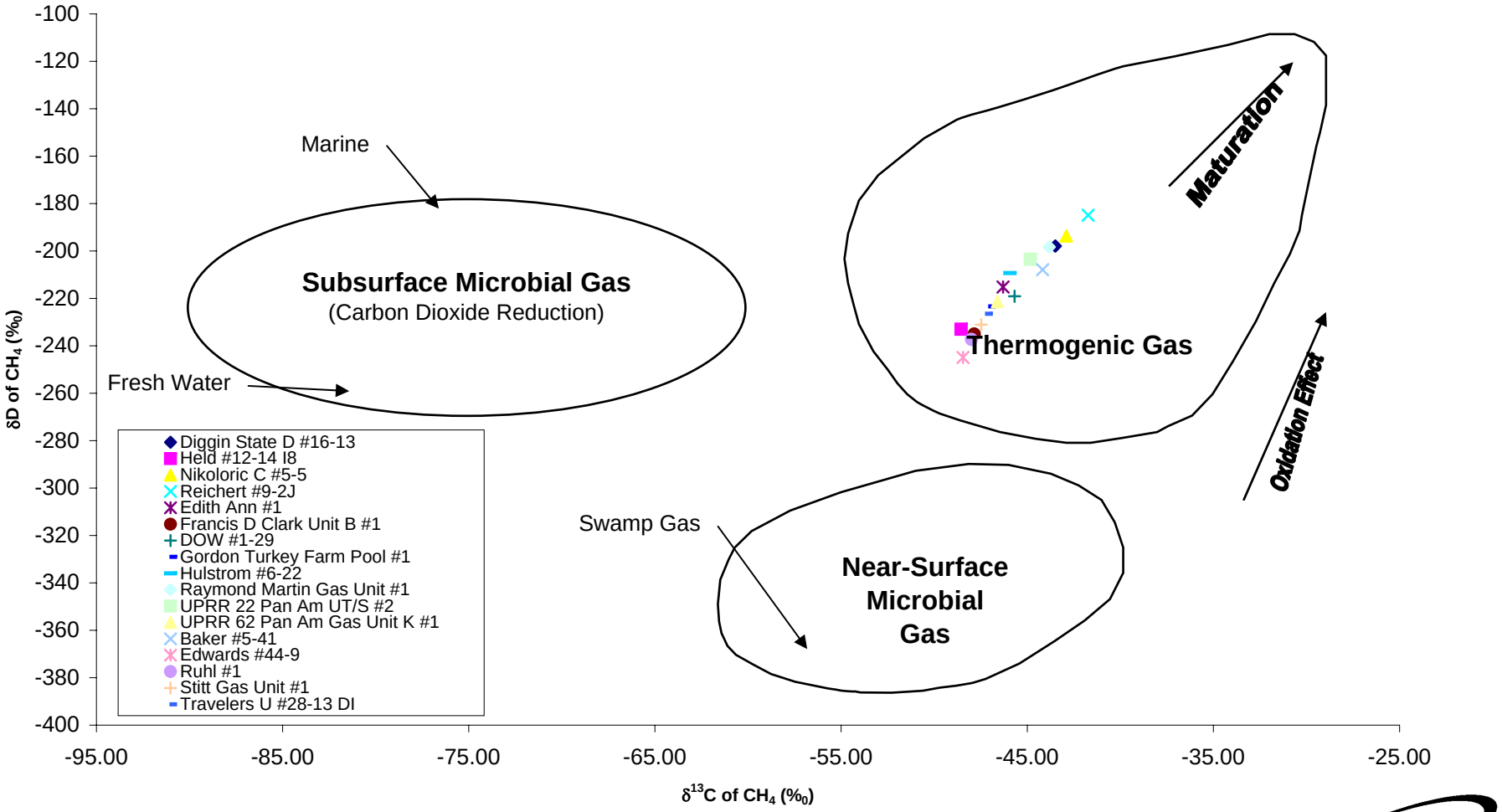
Source: Coleman et al., 1995

CHART 9
ISOTOPIC ANALYSIS
J SAND / CODELL / NIOBRARA



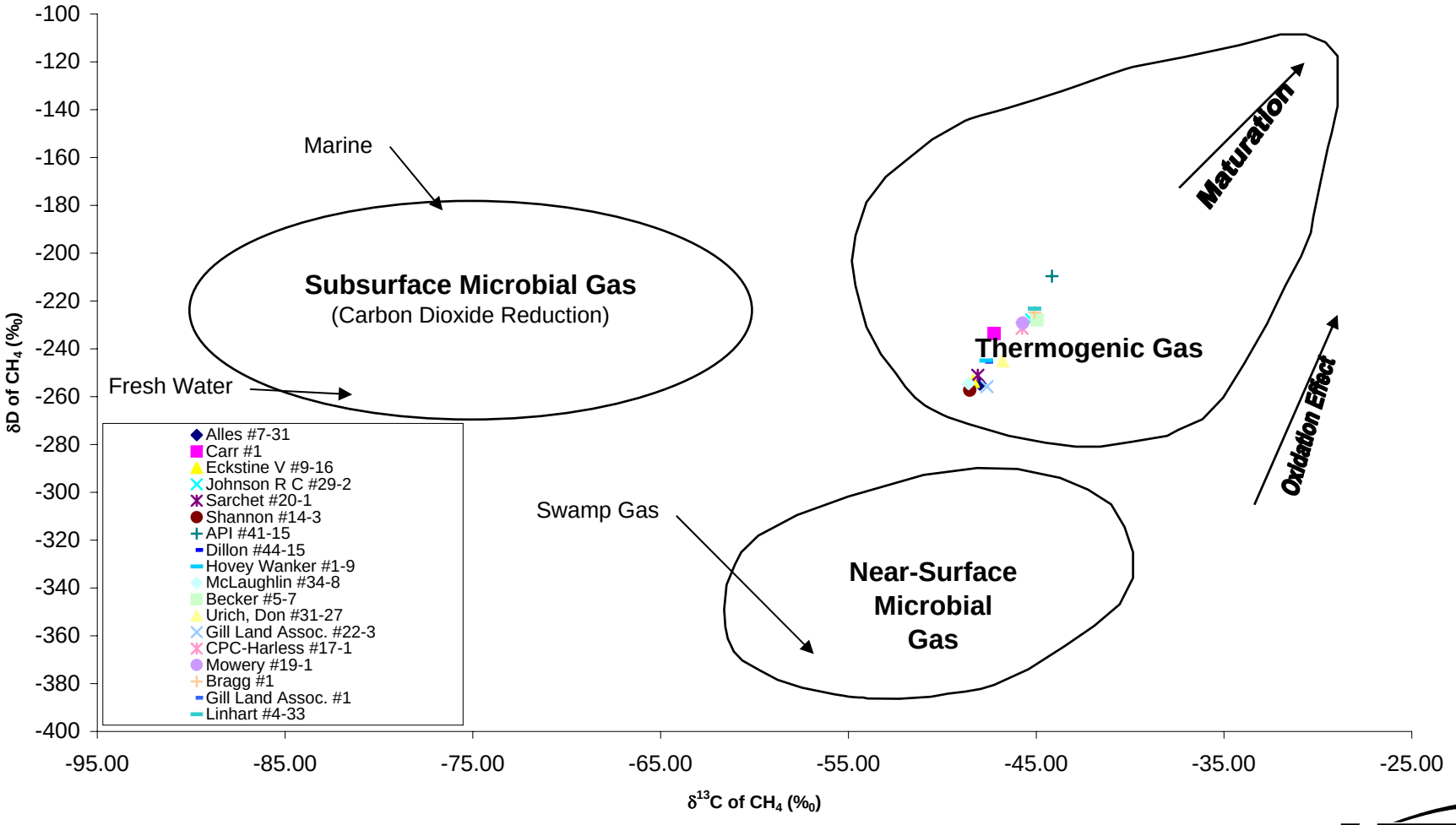
Source: Coleman et al., 1995

CHART 10
ISOTOPIC ANALYSIS
J SAND



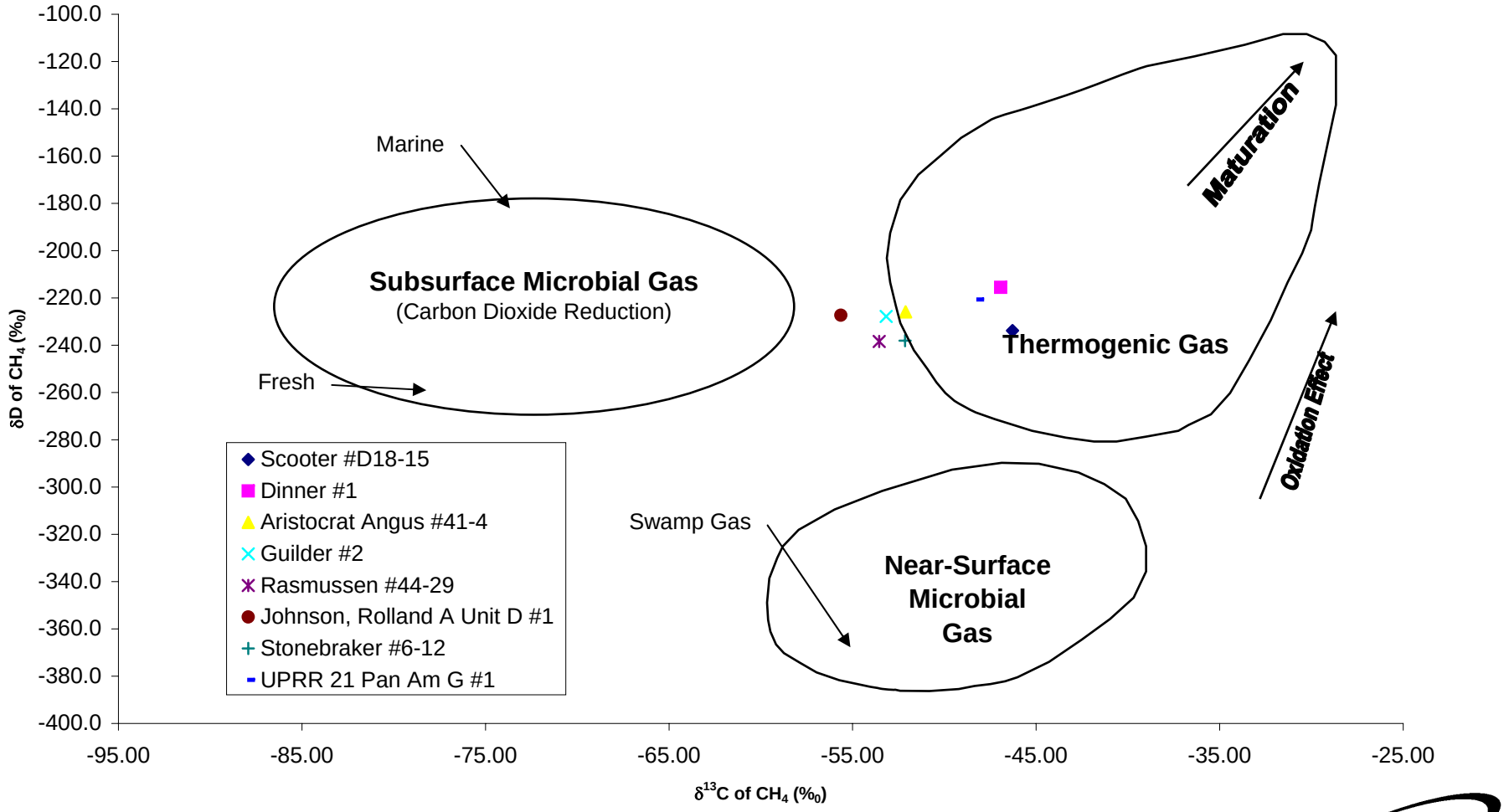
Source: Coleman et al., 1995

CHART 11
ISOTOPIC ANALYSIS
NIOBRARA / CODELL



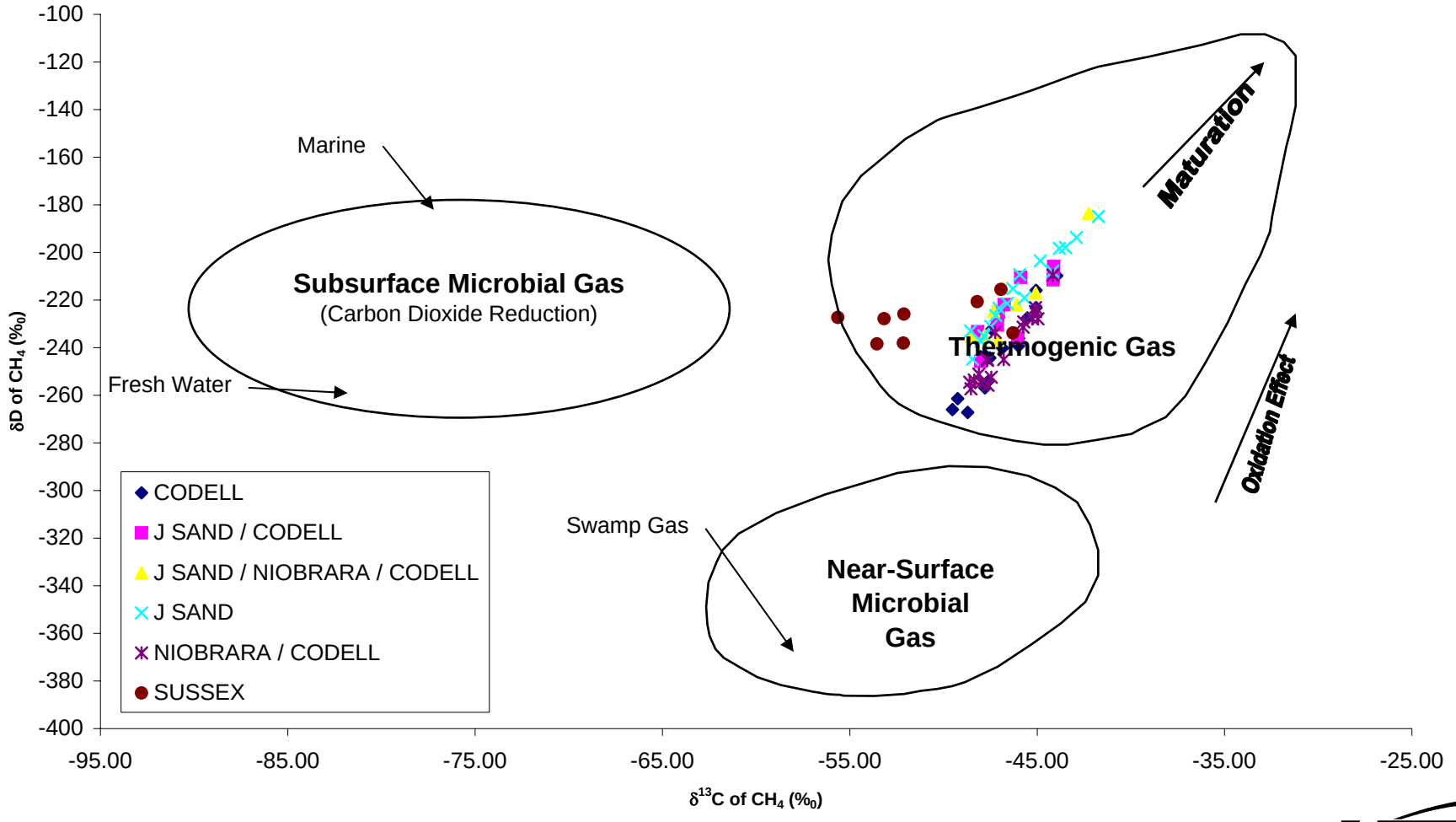
Source: Coleman et al., 1995

CHART 12
ISOTOPIC ANALYSIS
SUSSEX



Source: Coleman et al., 1995

CHART 13
ISOTOPIC ANALYSIS
ALL PRODUCTION ZONES



Source: Coleman et al., 1995

CHART 14 – STIFF DIAGRAM – BRUCE REED

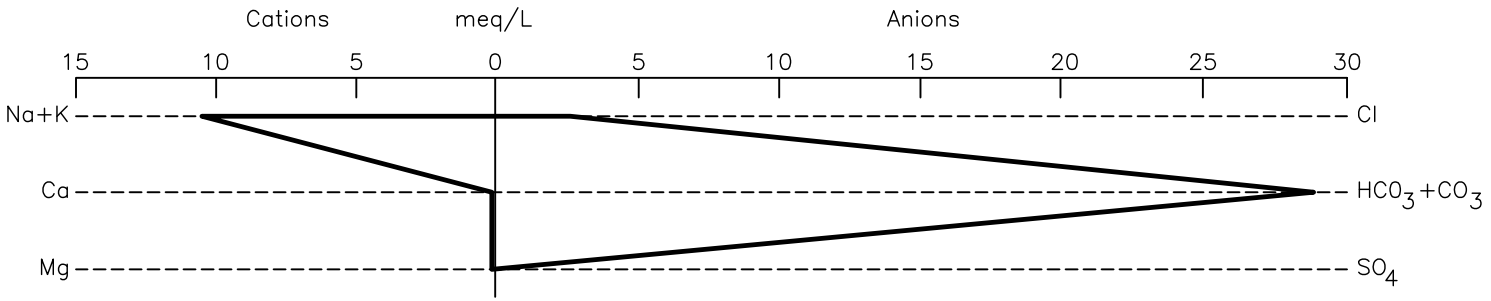


CHART 15 – STIFF DIAGRAM – CARMIN KELLY

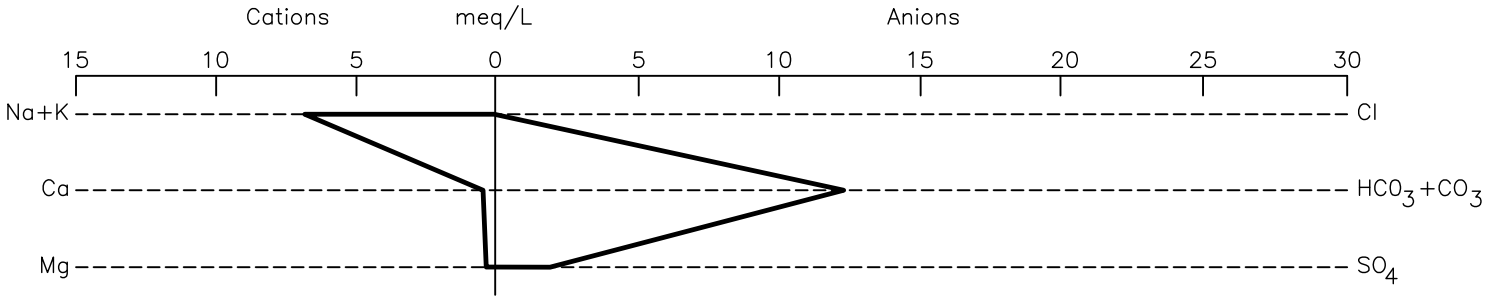


CHART 16 – STIFF DIAGRAM – EPPLE W AND L

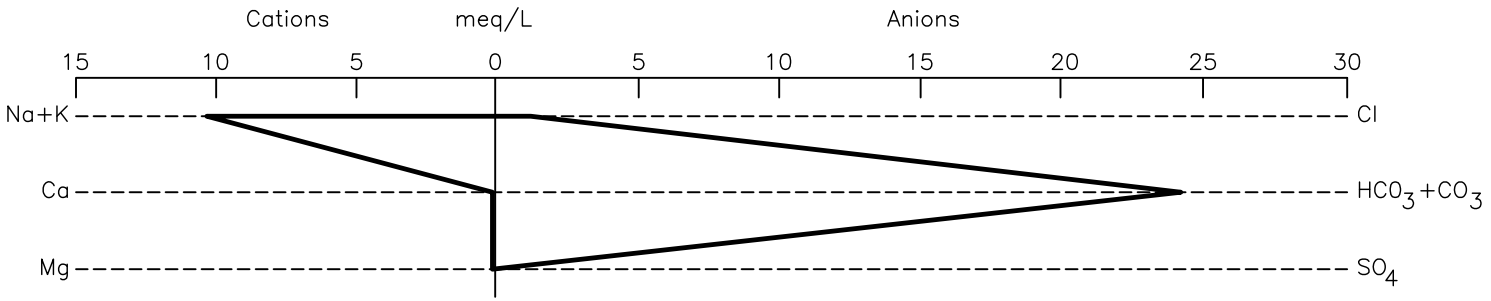


CHART 17 – STIFF DIAGRAM – HAGER

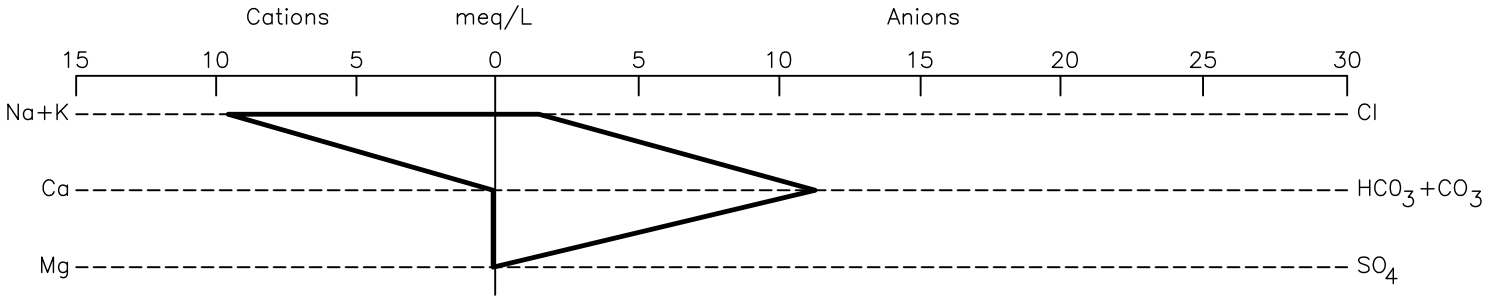


CHART 18 – STIFF DIAGRAM – HAROLD DUTTON

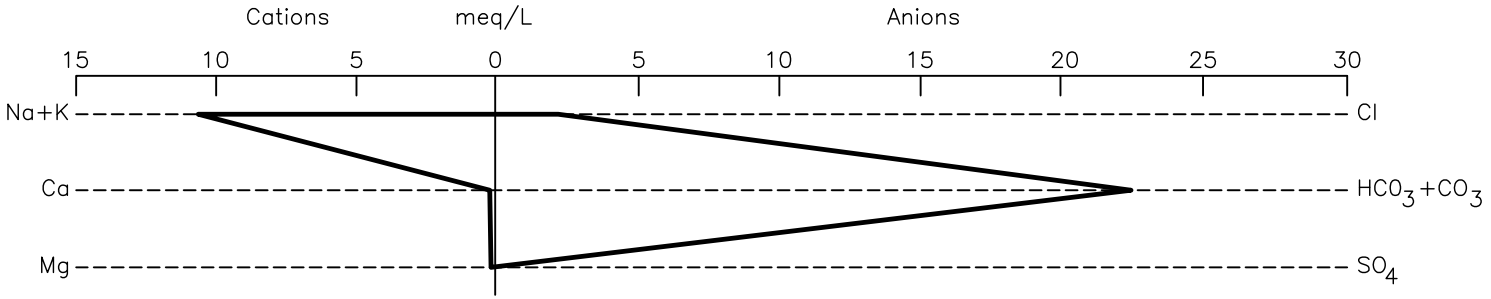


CHART 19 – STIFF DIAGRAM – JERRY SUMNER

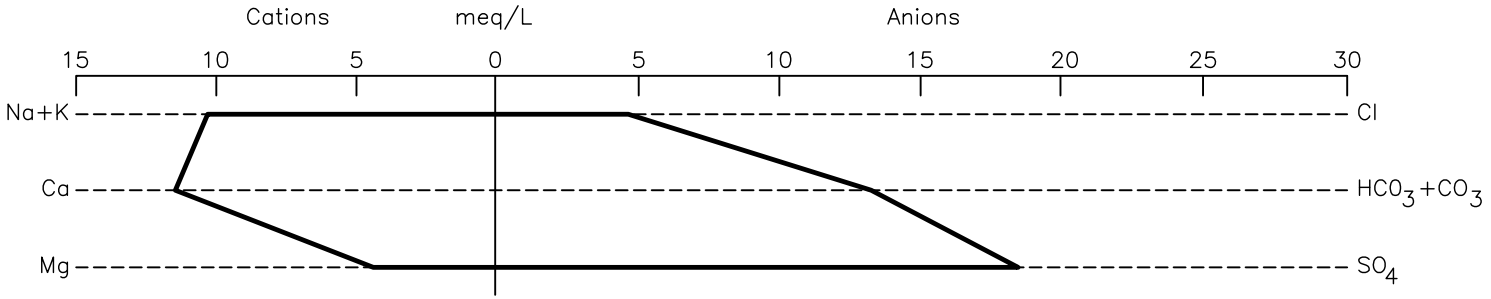


CHART 20 – STIFF DIAGRAM – L AND F RANCH

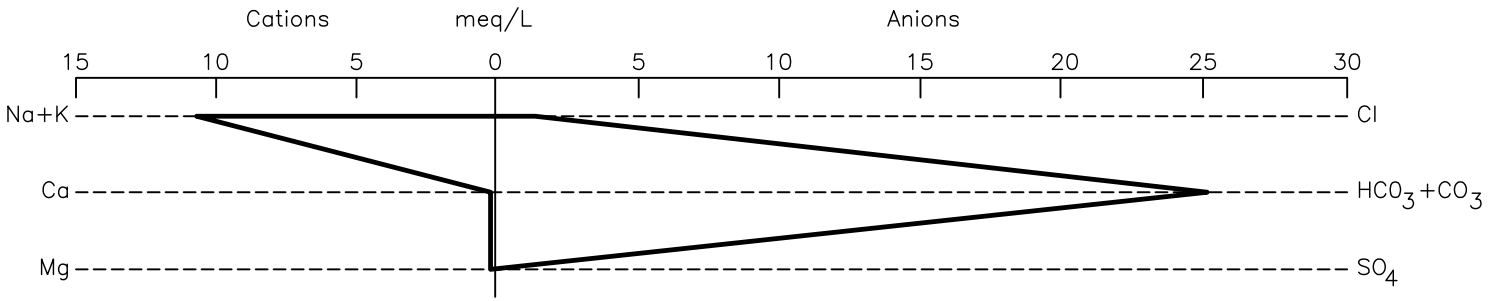


CHART 21 – STIFF DIAGRAM – S M RANCH

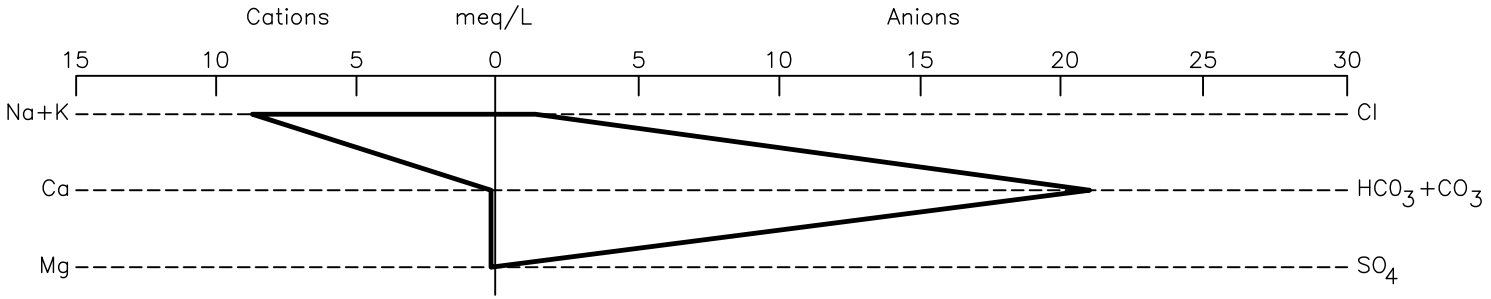


CHART 22 – STIFF DIAGRAM – V ANDROVICH

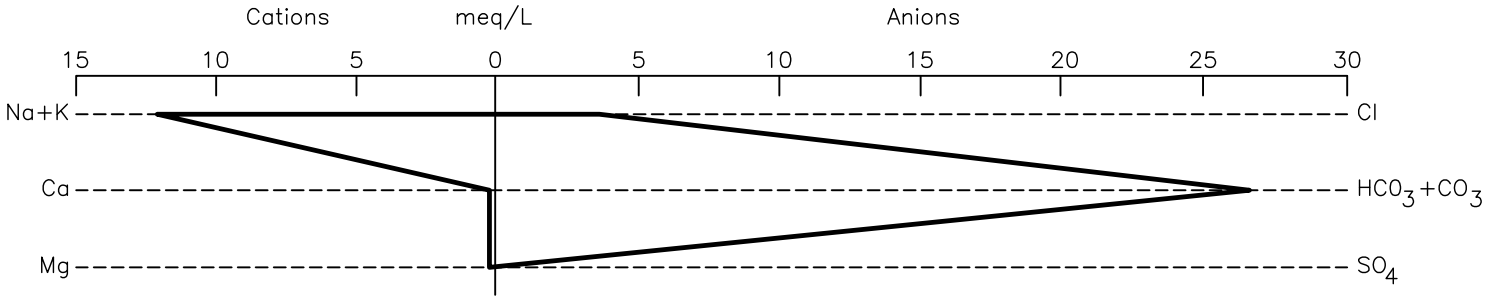


CHART 23 - PIPER DIAGRAM

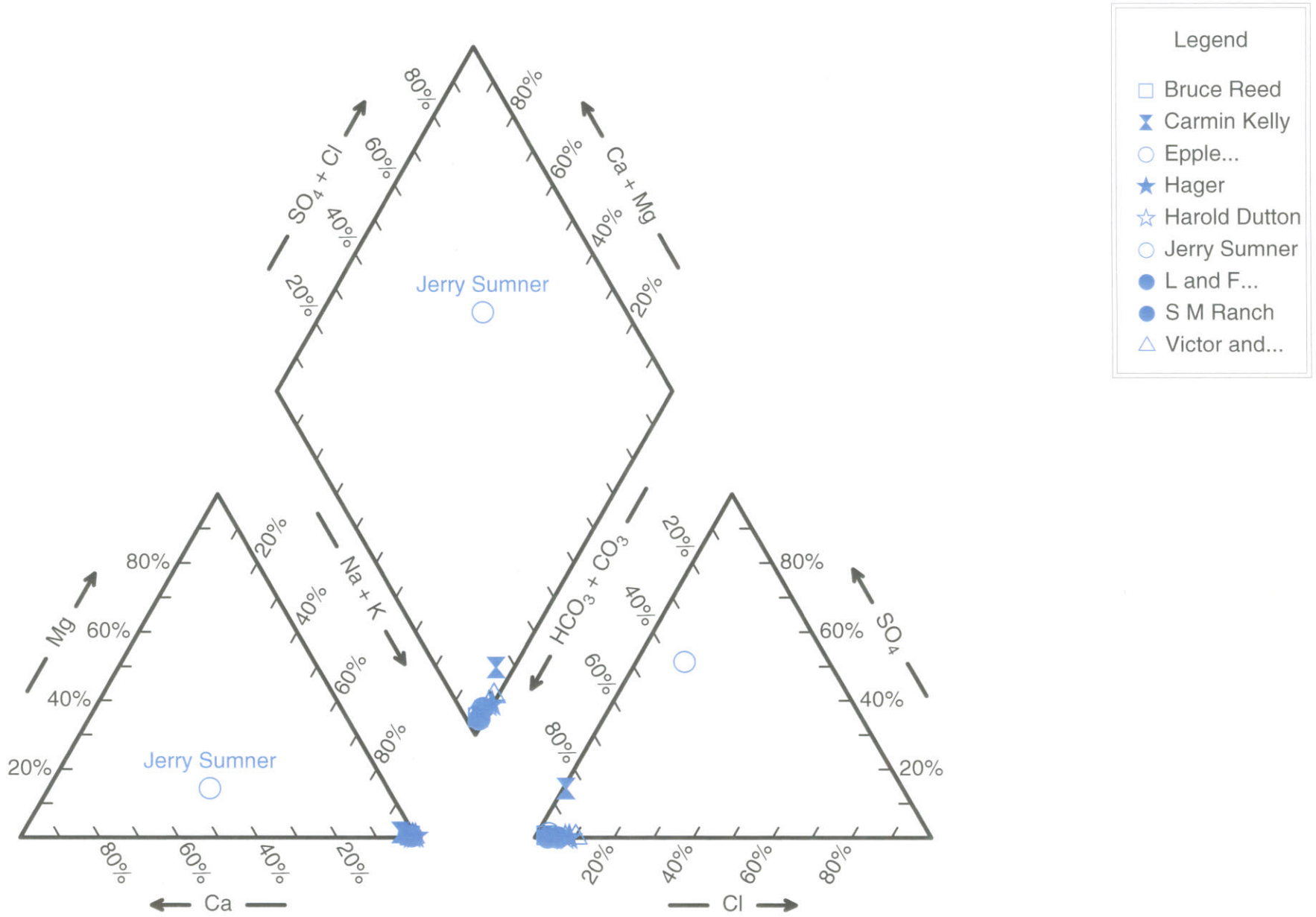


CHART 24
GAS WETNESS - WATER WELLS

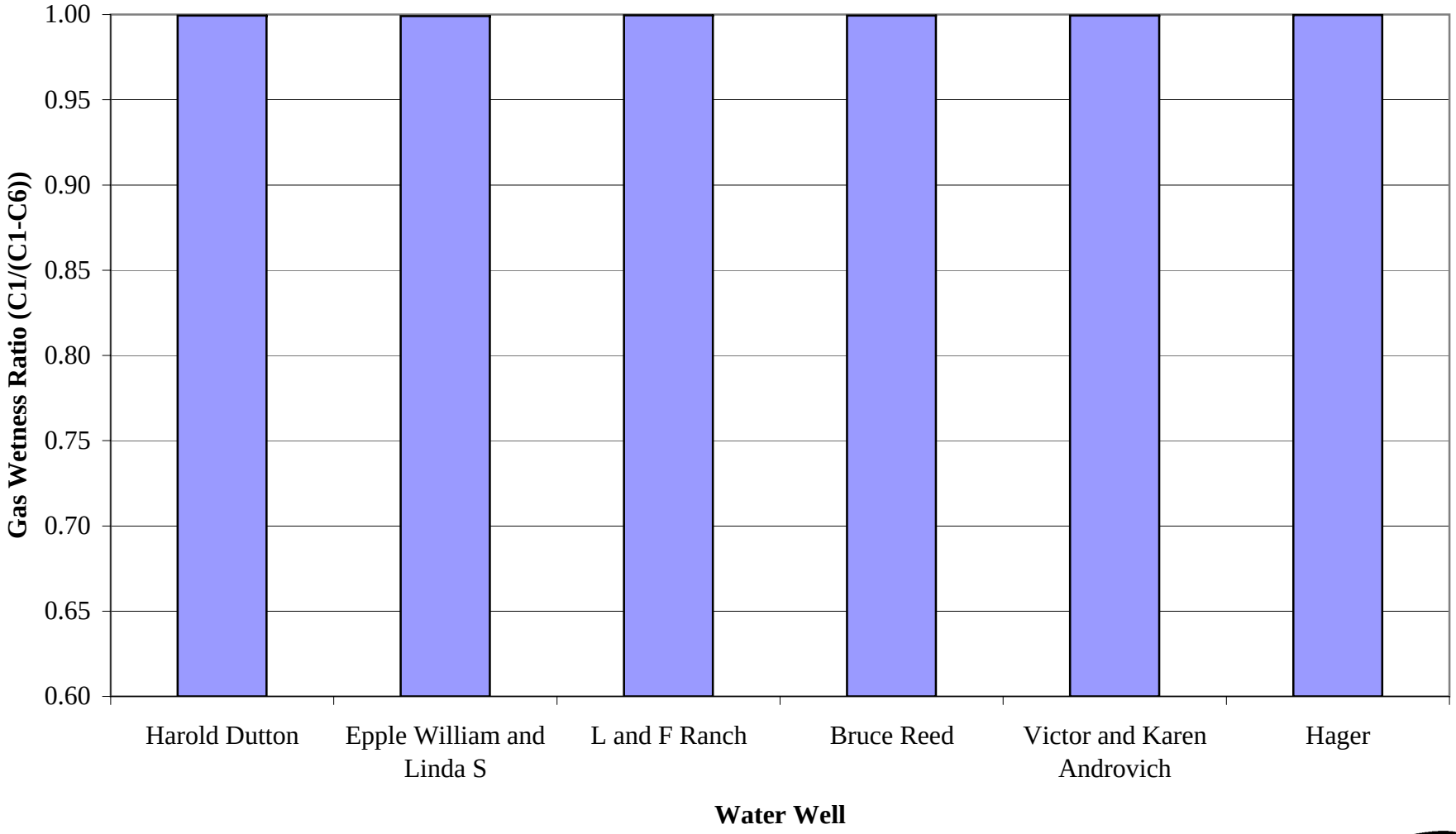
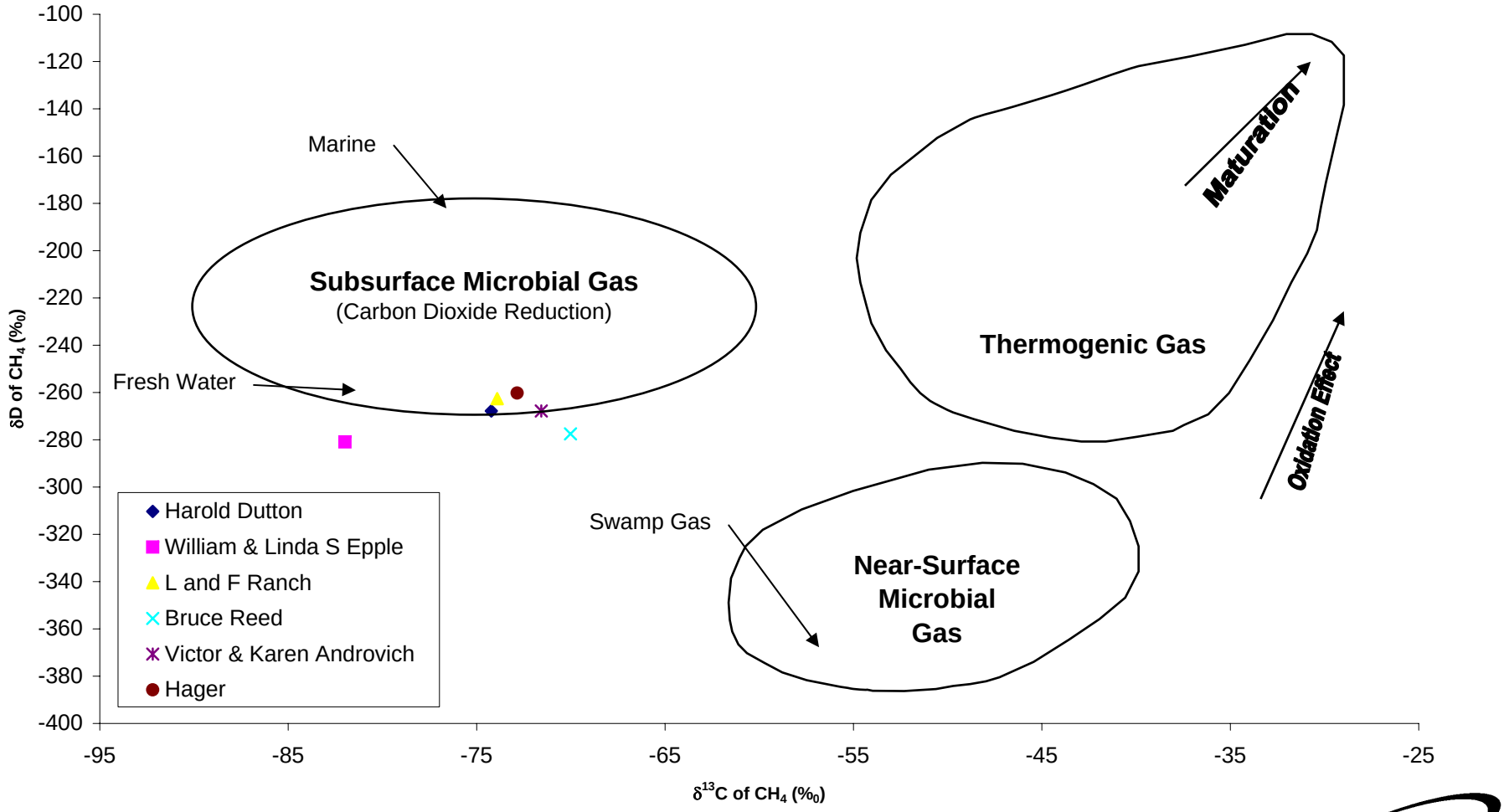


CHART 25
ISOTOPIC ANALYSIS
WATER WELLS



Source: Coleman et al., 1995

APPENDIX A

EQUIPMENT SPECIFICATIONS

FIELD Environmental Instruments

Equipment Rental and Field Supplies

"Your Needs Are Our Business"

Toll-Free
800-393-4009

OAKTON
Portable pH/Con 10 Meter

Measure pH, conductivity and °C with one meter and probe! Meter includes versatile multi-sensor probe—there's no need to switch probes when you switch measurement modes.

Three point pH calibration with auto buffer recognition and 4 point conductivity calibration (one per range) provide high accuracy. Features include water-resistant membrane keypad, Auto-off, Hold, and ready indicator.

Features

- Switch from Conductivity to pH at the press of a button
- Replaceable Multi-sensor probe with 10ft submersible cable
- Dual display of pH (or conductivity) plus temperature
- Easy push-button conductivity and pH calibration
- Automatic Temperature Compensation (ATC)

SPECIFICATIONS

Temperature Compensation:	Automatic from 0 to 50°C
Conductivity Cell Constant (K):	1.0
Conductivity temperature coefficient:	2.00% per°C
Operating Temperature:	0 to 50°C
Power:	four 1.5 V AAA batteries
Battery Life:	>50 hours
Dimensions:	Meter -- 7.5"L x 3.5" W x 1.75"H Probe -- 6.8"L x 1.3" diameter
Shipping Weight:	1.4 lbs

TYPE	PH	CONDUCTIVITY	TEMPERATURE
Range	0 to 14.00 pH	0 to 19.99µS, 0 to 199.9µS, 0 to 1999µS, 0 to 19.99mS	0 to 100 °C
Resolution	0.01 pH	0.01µS, 0.1µS, 1µS, 0.01mS	0.1°C
Accuracy	± 0.01 pH	± 1% full scale or ±1 digit conductivity	± 0.5°C

99 Miller Avenue

Braddock, PA 15104

800-393-4009

Fax 412-271-5083

info@
fieldenvironmental.com

Visit us soon on the web
www.
fieldenvironmental.com

Inquiries and orders
800-393-4009

GeoXT

The total GPS platform for all your GIS field requirements

The GeoXT™ handheld, from the GeoExplorer® series, is an essential tool for maintaining your GIS. It's all you need to collect location data, keep existing GIS information up to date, and even mobilize your GIS.

The unique GeoExplorer series combines a Trimble® GPS receiver with a rugged field-ready handheld computer running the Microsoft® Windows Mobile™ 2003 software for Pocket PCs. Plus there's an internal battery that easily lasts for a whole day of GPS operation. The result is tightly integrated, tough, and incredibly powerful.

High-accuracy integrated GPS

The GeoXT is optimized to provide the reliable, high-accuracy location data you need. Advanced features like EVEREST™ multipath rejection technology let you work under canopy, in urban canyons, or anywhere where accuracy is crucial.

Need submeter accuracy in real-time? Use corrections from a satellite-based augmentation system (SBAS) like WAAS[1] or EGNOS[2]. Want to get that extra edge in precision? Collect data with Trimble's TerraSync™ or GPScorrect™ software, and then postprocess back in the office.

Because the GPS receiver and antenna are built into the handheld computer, it's never been easier to use GPS in your application. The system is more than just cable-free: it's a totally integrated solution.

Optimized productivity

Take advantage of the power and flexibility of Windows Mobile software for Pocket PCs by choosing from the most comprehensive range of field software available—whether off-the-shelf or purpose-built. Whatever your needs, Windows Mobile lets you choose a software solution to match your workflow.

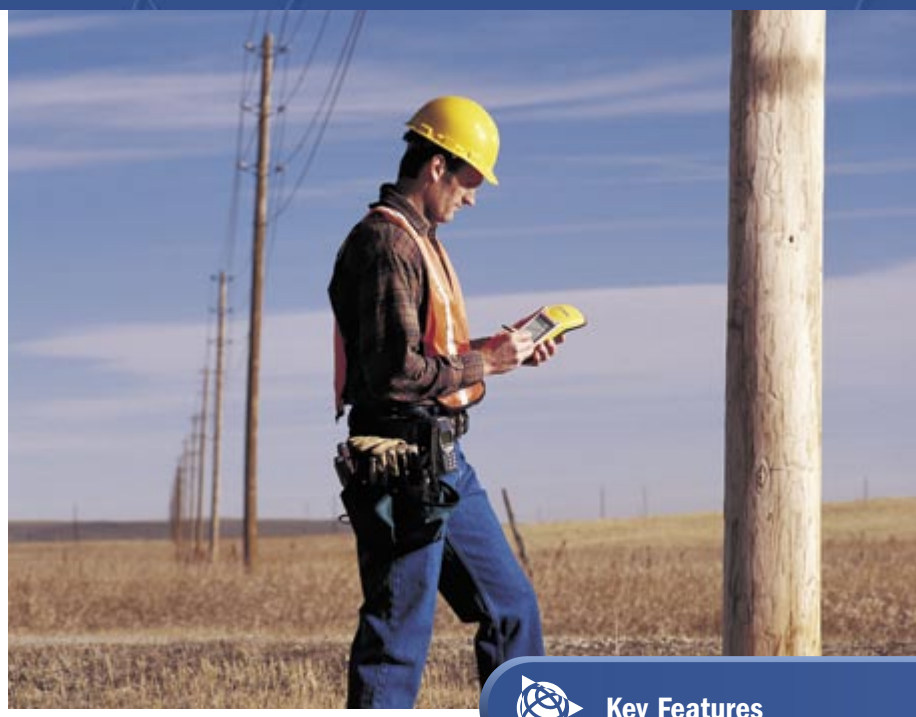
Windows Mobile includes familiar Microsoft productivity tools, including Pocket Word, Pocket Excel, and Pocket Outlook®. Pocket Outlook lets you synchronize e-mails, contacts, appointments, and data with your office computer, so whether you're in the office or in the field, you're always up to date.

Go wireless with integrated Bluetooth®* for connection to other Bluetooth-enabled devices, including cell phones and PCs. You also have the option to use the USB support module to connect to a desktop computer, or use the optional serial clip for cabled connections in the field.

Receive a free copy of Microsoft Streets & Trips** 2004 software with your GeoXT handheld, and take advantage of comprehensive map and travel information for easy navigation and route planning.

All the memory you need

There's plenty of storage space in the GeoXT for all your GIS data. The fast processor and large memory mean even big graphics files load quickly—and they're crisp and crystal-clear on the advanced TFT outdoor color screen.



Key Features

- High-performance submeter GPS with integrated WAAS/EGNOS
- Windows Mobile 2003 software for Pocket PCs, allowing maximum flexibility in software choice
- Rugged handheld with all-day battery
- Advanced color TFT display with backlight
- Integrated Bluetooth for wireless connectivity

From data collection to data maintenance, to mobile GIS and beyond ... the GeoXT is the handheld of choice.

* *Bluetooth type approvals are country specific. GeoExplorer series handhelds are approved for use with Bluetooth in the USA. For a complete list of other countries with Bluetooth approval please refer to: www.trimble.com/geo_bluetooth.html.*

** *Microsoft Streets & Trips 2004 software available in US/Canada; Microsoft AutoRoute® 2004 in Europe.*

Trimble®

GeoXT

The total GPS platform for all your GIS field requirements

Standard features

System

- Microsoft Windows Mobile 2003 software for Pocket PCs
- 206 MHz Intel StrongARM processor
- 512 MB non-volatile Flash data storage
- Outdoor color display
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable battery
- Bluetooth wireless

GPS

- Submeter accuracy
- Integrated WAAS[1]/EGNOS[2]
- RTCM real-time correction support
- NMEA and TSIP protocol support
- EVEREST multipath rejection technology

Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- File Explorer, Internet Explorer, Pocket Outlook (Inbox, Calendar, Contacts, Tasks, Notes), Sprite Pocket Backup, Transcriber, Pocket Word, Pocket Excel, Pictures, Windows® Media Player, Bluetooth File Transfer, Calculator, ActiveSync®
- Microsoft Streets & Trips/AutoRoute 2004 software

Accessories

- Support module with power supply and USB data cable
- Getting Started Guide
- Companion CD includes Outlook 2002 and ActiveSync 3.7.1
- Hand strap
- Pouch
- Stylus

Optional Features

Software

- TerraSync
- GPScorrect for ESRI® ArcPad®
- GPS Pathfinder® Tools Software Development Kit (SDK)
- GPS Pathfinder Office
- Trimble GPS Analyst extension for ArcGIS®

Accessories

- Serial clip for field data and power input
- Vehicle power adaptor[3]
- Portable power kit[3]
- Hurricane antenna
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with antenna sleeve
- Beacon-on-a-Belt (BoB™) differential correction receiver[3]
- Hard carry case
- Null modem cable[3]
- Backpack kit

Specifications subject to change without notice.

Technical specifications

Physical

Size . . . . . 21.5 cm × 9.9 cm × 7.7 cm (8.5 in × 3.9 in × 3.0 in)
Weight. . . . . 0.72 kg (1.59 lb) with battery
Processor . . . . . 206 MHz Intel StrongARM SA-1110
Memory . . . . . 64 MB RAM and 512 MB internal Flash disk
Power
  Low (no GPS) . . . . . 0.6 Watts
  Normal (with GPS) . . . . . 1.4 Watts
  High (with GPS, backlight, and Bluetooth) . . . . . 2.5 Watts
Battery . . . . . Internal lithium-ion, rapidly rechargeable in unit, 21 Watt-hours

Environmental

Temperature
  Operating . . . . . –10 °C to +50 °C (14 °F to 122 °F)
  Storage . . . . . –20 °C to +70 °C (–4 °F to 158 °F)
Humidity . . . . . 99% non-condensing
Casing . . . . . Wind-driven rain and dust-resistant per IP 54 standard
Slip-resistant grip, shock- and vibration-resistant

Input/output

Communications . . . . . Bluetooth for wireless connectivity
USB via support module, serial via optional DE9 serial clip adaptor
Bluetooth
  Certification. . . . . Bluetooth type approvals are country specific.
GeoExplorer series handhelds are approved for use with Bluetooth in the USA.
For a complete list of other countries with Bluetooth approval
please refer to www.trimble.com/geoxt_ts.asp.
  Profiles
    Both client and host support . . . . . Serial Port, File Transfer (using OBEX)
    Client support only . . . . . Dial-Up Networking, Lan Access
    Host support only. . . . . Basic Imaging, Object Push
Display . . . . . Advanced outdoor TFT, 240 × 320 pixel, 65,536 colors, with backlight
Audio . . . . . Microphone and half duplex speaker, record and playback utilities
Interface . . . . . Anti-glare coated touch screen, Soft Input Panel (SIP) virtual keyboard
2 hardware control keys plus 4 programmable permanent touch buttons
Handwriting recognition software, Audio system events, warnings, and notifications

GPS

Channels. 12
Integrated real-time. . . . . WAAS[1] or EGNOS[2]
Update rate. . . . . 1 Hz
Time to first fix . . . . . 30 sec (typical)
Protocols. . . . . NMEA (GGA, VTG, GLL, GSA, ZDA, GSV, RMC),
TSIP (Trimble Standard Interface Protocol)

Accuracy (RMS)[4] after differential correction

Postprocessed[5] . . . . . Submeter
Carrier postprocessed[6]
  With 10 minutes tracking satellites . . . . . 30 cm
Real-time . . . . . Submeter

1 *WAAS (Wide Area Augmentation System). Available in North America only. For more information, see http://gps.faa.gov/programs/index.htm.*
2 *EGNOS (European Geostationary Navigation Overlay System). Available in Europe only. For more information, see http://www.esa.int/export/esaSA/navigation.html.*
3 *Serial clip also required.*
4 *Horizontal accuracy. Requires data to be collected with minimum of 4 satellites, maximum PDOP of 6, minimum SNR of 4, minimum elevation of 15 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception. Accuracy varies with proximity to base station by +1 ppm for postprocessing and real-time, and by +5 ppm for carrier postprocessing.*
5 *Postprocessing with GPS Pathfinder Office software or GPS Analyst extension for ArcGIS.*
6 *Requires collection of carrier data. (Only available with the GPS Pathfinder Office software).*

YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

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Trimble Navigation Limited
7403 Church Ranch Blvd • Suite 100
Westminster, CO 80021 • USA
+1-720-887-4374 Phone • +1-720-887-8019 Fax

EUROPE, AFRICA & MIDDLE EAST
Trimble GmbH
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+49-6142-2100-0 Phone • +49-6142-2100-550 Fax

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Trimble Navigation Australia Pty. Ltd
Level 1 • 123 Gotha St • Fortitude Valley
Queensland 4006 • AUSTRALIA
+61-7-3216-0044 Phone • +61-7-3216-0088 Fax

APPENDIX B

COLORADO OIL AND GAS CONSERVATION COMMISSION FORM 17
BRADENHEAD TEST REPORTS

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: Petro-Canada
3. BLM Lease No: ____
4. API Number: 12441
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Hartless 17-1 Number: ____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE SEC 17 T4N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-1-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		340	345		0
	Fm:	Fm: NB-CD	Fm: NB-CD		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: Matthew [signature] Title: STAFF Geologist Date: 11-1-06

WITNESSED BY: ____ Title: ____ Agency: ____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: K.F. Kuffman
3. BLM Lease No: _____
4. API Number: 11661
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: STrong — Number: #3
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE SEC 28 T5N R60W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.7.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	490 Fm: Dakota	525 Fm: Dakota		<5

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2320
05:					8585
10:					8585
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Haden Title: STAFF ENGR Date: 11-7-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 1311D
5. Multiple completion? ☐ Yes ☑ No
6. Well Name: SCOOTER Number: 16-16
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/4 SE/4 Sec 16 T3N R64W
8. County: Weld
9. Field Name: Gwnt
10. Minerals: ☑ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-8-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☑ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 470 Fm: SUSX	Prod. Casing: 490 Fm: SUSX	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: STAFF ENGR Date: 12-30-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 5/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Petro-Canada
3. BLM Lease No: _____
4. API Number: 05 17426
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: FOSTER 15-11 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE 36 15 T1N R67W
8. County: WELD
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11/1/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 420 Fm: CODL	Prod. Casing: 420 Fm: CODL	Intermediate Csg:	Surface Casing: 210

15. **STEP 2:** See instructions above. Bleed off 0.1

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Staff Geologist Date: 11.1.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 13394
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Lubrun Number: 14-33
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 33 T5N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-2-04

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 175 Fm: NBRR	Prod. Casing: 230 Fm: NB-CD	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					3323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: STAFF ENGINEER Date: 11-3-04

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: Merit Energy
3. BLM Lease No: ______
4. API Number: 10803
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Wiedeman Number: 1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 29 T4N R65W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian
11. Date of Test: 11-2-06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	100 Fm: CODL	95 Fm: CODL		17

15. **STEP 2: See instructions above.**

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

18. Comments: ______

19. **STEP 5: See instructions above.**

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: Matthew [signature] Title: Staff Geologist Date: 11-3-06

WITNESSED BY: ______ Title: ______ Agency: ______

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State of Colorado
Oil and Gas Conservation Commission

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 13333
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Mowry Number: #19-1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE Sec 1 T5N R61W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-2-04

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: Fm: NB-CD	Prod. Casing: Fm: NB-CD	Intermediate Csg:	Surface Casing:
		200	200		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					8565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Staff Engineer Date: 11-2-04

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 12047
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Bragg Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW SW Sec 21 T5N R65W
8. County: Weld
9. Field Name: Lone Tree
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 11-2-06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [X] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	400 Fm: NBCO	400 Fm: NBCC		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Sr. H Geologist Date: 11-2-06

WITNESSED BY: _____ Title: _____ Agency: _____

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 05-123-08395
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Martin Raymond D&V Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW NE Sec 34 T4N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/30/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 250 Fm: JSOA	Prod. Casing: 240 Fm: JSOA	Intermediate Csg:	Surface Casing: 100

15. STEP 2: See instructions above. Steady flow

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: [illegible] Date: [illegible]

WITNESSED BY: _____ Title: _____ Agency: _____

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 13519
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Howey Walker 1-9 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec 09-T4N R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10 30 06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 320 Fm: NB-CD	Prod. Casing: 350 Fm: NB-CD	Intermediate Csg:	Surface Casing: <5

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [X] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Halsey Title: STAFF Geologist Date: 10 30 06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: KM
3. BLM Lease No: ____
4. API Number: 18829
5. Multiple completion? ☐ Yes ☐ No
6. Well Name: HSR-SEKKH Farms Number: 15-8
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 18 T3N R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10-31-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	225 Fm: JNBCD	250 Fm: JNBCD		0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: Matthew [illegible] Title: Staff Eng. Date: 10-31-06

WITNESSED BY: ____ Title: ____ Agency: ____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: KM
3. BLM Lease No: ____
4. API Number: 07740
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Clark Francis DUT Number: "B" #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec 14 T1N R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10-31-06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		80	160		40
	Fm:	Fm: JSND	Fm: JSND		

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (If no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm:____ Tubing	Fm:____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm:____ Tubing	Fm:____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: Matthew [signature] Title: Staff [illegible] Date: [illegible]

WITNESSED BY: ____ Title: ____ Agency: ____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. in sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12-8-06

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 14427
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Brandt-Hsx WW Number: 13-23
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE SE/4 Sec 13 T1N R66W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 260 Fm: JSCDL	Prod. Casing: 320 Fm: SSCDL	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Title: Staff Geologist Date:

WITNESSED BY: Title: Agency:

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Petro-Canada 3. BLM Lease No: _____
4. API Number: 15789
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: G. Bland Assoc. #1 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE NE 6N-61W 22
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.1.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing: Fm:	Tubing: Fm: NB-CD	Prod. Casing: Fm: NB-CD	Intermediate Csg:	Surface Casing:
Record all pressures as found		500	520		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: Staff Engineer Date: 11.1.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 1853
5. Multiple completion? ☐ Yes ☑ No
6. Well Name: Held Number: 12-14 18
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/4 SW/4 SEC 12 T4N R68W
8. County: Weld
9. Field Name: WATTENBERG
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12.11.06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 280 Fm: JSND	Prod. Casing: 425 Fm: JSND	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6585
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12-11-06

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 14953
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: SARChet X Number: 20-1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NE/4 NE/4 Sec 20 T2N R65W
8. County: Weld
9. Field Name: Gilcrest
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	280 Fm: NB-CD	300 Fm: NB-CD		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					8565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Title: Staff Engineer Date: 12-11-06

WITNESSED BY: Title: Agency:

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: K.P. Kaufmann
3. BLM Lease No: _____
4. API Number: 16 F 12
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Rasmussen Number: 14-29
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE SEC 29 12N
8. County: Weld
9. Field Name: Gilcrest
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-7-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☒ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	Fm: S in SX	Fm: SX, SX		
		22	30		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☒ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2373
05:					8585
10:					8585
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: Staff Engineer Date: 11-7-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 1241
5. Multiple completion? ☐ Yes ☐ No
6. Well Name: Johnson # 2 Number: 2
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.9.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing: Fm:	Tubing: Fm:	Prod. Casing: Fm:	Intermediate Csg:	Surface Casing:
Record all pressures as found		545	540		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: Staff Engineer Date: 11.9.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 13187
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Johnson B C Number: 29-2
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW/4 NE/4 Sec 29 T4N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-11-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 200 Fm: WSCD	Prod. Casing: 220 Fm: WSCD	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: [illegible] Date: [illegible]

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: PDC
3. BLM Lease No: _____
4. API Number: 21806
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: J&L Farms Number: 11-20
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW SEC 20 T6N R68W
8. County: Weld
9. Field Name: Owl A
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-8-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 340 Fm: CODL	Prod. Casing: 360 Fm: CODL	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2320
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Haber Title: STAFF ENGINEER Date: 11-8-06

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-5-06

1. OGCC Operator Number: _____
2. Name of Operator: EOG
3. BLM Lease No: _____
4. API Number: 1988 4
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Baker Number: 35 541
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): N2NE 35 T4N R63W
8. County: Weld
9. Field Name: GLVA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing: Fm:	Tubing: Fm: JSND	Prod. Casing: Fm: JSND	Intermediate Csg:	Surface Casing:
Record all pressures as found		310	135		90

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Staff Engineer Date: 11-5-06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi In sensitive areas, 1 psi
Step 3. Conduct Bradenhead test
Step 4. Conduct Intermediate casing test
Step 5. Send report to BLM within 30 days and to OGCC within 10 days Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program Attach gas and liquid analyses if sampled

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 13141
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Allis Number: 7-31
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE Sec 31 T5N R63W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☑ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-11-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 190 Fm: NB-CD	Prod. Casing: 250 Fm: NB-CD	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number:
2. Name of Operator: NOBLE
3. BLM Lease No:
4. API Number: 20235
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Nikolaic Number: 15-5
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/4 NW/4 SEC 5 T4N R64W
8. County: Weld
9. Field Name: WATTENBERG
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-11-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 280 Fm: JSND	Prod. Casing: 550 Fm: JSND	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Title: STAFF SPECIALIST Date:

WITNESSED BY: Title: Agency:

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 13213
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Shannon Number: 14-3
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW/4 NW/4 Sec 14 T5N R67W
8. County: Weld
9. Field Name: Gwt
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12.11.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: Fm: NB-CD	Prod. Casing: Fm: NB-CD	Intermediate Csg:	Surface Casing:
		520	540		0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: STAH Date: 12-11-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: Noble
3. BLM Lease No: ______
4. API Number: 15568
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Davis P 27-3 Number: ______
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NE/4 NW/4 Sec 27 T3N R68W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12.11.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		110	170		10
	Fm:	Fm: [illegible]	Fm: [illegible]		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing:	Fm: ___ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing:	Fm: ___ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ______

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: [illegible signature] Title: [illegible] Date: [illegible]

WITNESSED BY: ______ Title: ______ Agency: ______

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: Mobil
3. BLM Lease No: ______
4. API Number: 09987
5. Multiple completion? ☐ Yes ☐ No
6. Well Name: Reichert
Number: 9-23
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/4 SEC 9 T4N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-11-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	350 Fm: JSND	350 Fm: JSND		2

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

18. Comments: ______

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: Matthew [signature] Title: Staff Geologist Date: 12-11-06

WITNESSED BY: ______ Title: ______ Agency: ______

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 13102
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Schaefer Number: R 21-6
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/4 NE/4 Sec 21 T4N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-11-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 190 Fm: Codl	Prod. Casing: 300 Fm: Codl	Intermediate Csg:	Surface Casing: 20

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☒ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Stallard Title: Staff Engineer Date: 12-11-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-1-06

1. OGCC Operator Number: _____
2. Name of Operator: Petro-Canada
3. BLM Lease No: _____
4. API Number: 1359
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Gilcrow 22-3 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW NW Sec 22 TN R61W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	590 Fm: Prod	600 Fm: Prod		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8585
10:					8585
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Weld Title: STAFF GEOLOGIST Date: 11-1-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/96

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12.8.06

1. OGCC Operator Number: _____
2. Name of Operator: NOBLE
3. BLM Lease No: _____
4. API Number: 0617S
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: VAN THUYNE Number: 1-35X
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW/4 NW/4 Sec 35 T2N R69W
8. County: Boulder
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: Fm: SNBCD	Prod. Casing: Fm: SNBCD	Intermediate Csg:	Surface Casing:
		70	220		0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: Staff Engineer Date: 12.8.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12.8.06

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 19662
5. Multiple completion? ☒ Yes ☐ No Number: 11 28-13 D1
6. Well Name: Travelers
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/4 SW/4 SEC 28 T2N - R68W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg.:	Surface Casing:
Record all pressures as found	Fm:	180 Fm: JSND	195 Fm: JS ND		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Matthew Vidal Title: Staff Engineer Date: 12.8.06

WITNESSED BY: Title: Agency:

FORM 17 Rev. 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 17250
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Beckfoot Number: 9-16
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE sec 9 2N 67W
8. County: Weld
9. Field Name: Gwin
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12.8.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 260 Fm: NB-CD	Prod. Casing: 290 Fm: NB-CD	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☒ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Staff Geologist Date: 12.8.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12-8-06

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 13716
5. Multiple completion? ☑ Yes ☐ No
6. Well Name: Daniel Number: 11-16
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/4 SE/4 Sec 11 T2N R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	Fm: SUSD	Fm: SUSD		
		225	410		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matt Welch Title: Staff Engineer Date: 12-9-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev. 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12-8-06

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 17234
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Bennett WW Number: 15-11
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NE/4 SW/4 Sec 15 T1N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing: Fm:	Tubing: 625 Fm: CODL	Prod. Casing: 900 Fm: CODL	Intermediate Csg:	Surface Casing: 0
Record all pressures as found					

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8585
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: STAFF GEOLOGIST Date: 12-8-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12.8.06

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 162K
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Lurk 3Hua
Number: D 19-5
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/4 NW/4 sec 19 T3N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 320 Fm: CODL	Prod. Casing: 320 Fm: CODL	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Title: Date: 12.8.06

WITNESSED BY: Title: Agency:

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 22251
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Diggin State D Number: 16-13
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/SW Sec16 T3N R64W
8. County: Weld
9. Field Name: Watt
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12-8-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 450 Fm: JSND	Prod. Casing: 520 Fm: JSND	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6585
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Matthew Kirkland Title: Staff Tech 1 Date: 12-8-06

WITNESSED BY: Title: Agency:

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 17860
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Coleman 22-134 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NE NE S24-4N-64W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12806

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	330 Fm: COOL	370 Fm: COOL		10

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12.8.06

1. OGCC Operator Number: _____
2. Name of Operator: NOBLE
3. BLM Lease No: _____
4. API Number: 12017
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: CARR Number: 1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW/4 NW/4 Sec 23 T1N - R68W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	350 Fm: MB-CD	415 Fm: MB-CD		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: Staff Engineer Date: 12.8.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: ~~05-123-~~ 11024
5. Multiple completion? ☐ Yes ☑ No
6. Well Name: Richardson Number: 24-10
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/4 SW/4 SEC 10 T4N R64W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 12.8.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☑ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 415 Fm: JSND	Prod. Casing: 400 Fm: JSND	Intermediate Csg:	Surface Casing: 10

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kell Title: Staff Engr. Date: 12-8-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/90

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number:
2. Name of Operator: Noble
3. BLM Lease No:
4. API Number: 14954
5. Multiple completion? ☐ Yes ☒ No Number: 8-14 R65W
6. Well Name: Fields X
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/4 SW/4 SEC 8 T2N ~~R65~~
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian
11. Date of Test: 12-11-06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	360 Fm: CODL	430 Fm: CODL		0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: Matthew [signature] Title: Staff Chemist Date: 12-11-06

WITNESSED BY: Title: Agency:

FORM 17 Rev. 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 12/11/06

1. OGCC Operator Number: _____
2. Name of Operator: Noble
3. BLM Lease No: _____
4. API Number: 15080
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Magor H Number: 16-43
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): ~~NE~~ C SE4 Sec 16 T3N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	480 Fm: FtCol	480 Fm: J-Cd		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8585
10:					8585
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Hall Title: Staff Engr. Date: 12/11/06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: K. P. Kaufmann
3. BLM Lease No: _____
4. API Number: 05123 _____
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Gunkel Ned Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW NW Sec 23-2N-67W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-1-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☒ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	6 Fm: SUSX	42 Fm: SUSX		0

15. **STEP 2:** See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kaufmann Title: STAFF GEOLOGIST Date: 11-1-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev. 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 22549
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: DOW 129 (DIR) Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW SW Sec 28 T5N R63W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10-30-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 275 Fm: JSND	Prod. Casing: 340 Fm: JSND	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kleinsp Title: STAFF GEOLOGIST Date: 10-30-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev. 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 05123
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: STITT AU #1 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10-31-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 180 Fm: TSND	Prod. Casing: 200 Fm: TSND	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: State Insp. T Date: 10-31-06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 05 123 04185
5. Multiple completion? [X] Yes [ ] No
6. Well Name: UPRR 6-2 PAN AM "K" Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW NE SEC 15 T3N R65W
8. County: Weld
9. Field Name: GAWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10-31-06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: Fm: JSND	Prod. Casing: Fm:	Intermediate Csg:	Surface Casing:
		140	180	JSND	0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [X] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: [illegible] Date: [illegible]

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 9/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 07219
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Garden Turkey Farms Number: Pool #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE SEC 10-T2N R67W
8. County: Weld
9. Field Name: GLWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian
11. Date of Test: 10-31-06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 160 Fm: JSND	Prod. Casing: 180 Fm: JSND	Intermediate Csg:	Surface Casing: 20

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

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Oil and Gas Conservation Commission

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 18504
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: DILLON 44-15 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec 15 T2N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/31/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 260 Fm: NB-CD	Prod. Casing: 260 Fm: NB-CD	Intermediate Csg:	Surface Casing: 18

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Nelson Title: Staff Geologist Date: 11-21-06

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 23298
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: BALLANTINE Number: #3-30
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 30 T2N R68W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/31/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 320 Fm: CODL	Prod. Casing: 400 Fm: CODL	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kirkland Title: STAFF GEOLOGIST Date: 11-21-06

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 10071
5. Multiple completion? [X] Yes [ ] No
6. Well Name: UPRR 43-7AM "W" Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sec 12 T1N R63W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/31/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. STEP 1: EXISTING PRESSURES

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	180 Fm: J-CDL	200 Fm: J-CDL		12

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Rickard Title: STAFF GEOLOGIST Date: 10 31 06

WITNESSED BY: _____ Title: _____ Agency: _____

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: KM
3. BLM Lease No: ____
4. API Number: 21795
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Hullstrom 6-22 Number: ____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW NW Sec 22 T2N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/31/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	330 Fm: JSND	360 Fm: JSND		280

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing	Fm: ___ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing	Fm: ___ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: Matthew V. L.[illegible] Title: STAH Gang-T Date: 10 31 06

WITNESSED BY: ____ Title: ____ Agency: ____

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 18550
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: SUTTON 12-21 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW Sec 2 T1N R66W
8. County: Weld
9. Field Name: GRWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/31/00

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	160 Fm: JNBCD	160 Fm: JNBCD		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Title: STAFF Assistant Date: 12-31-00

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 07909
5. Multiple completion? [X] Yes [ ] No
6. Well Name: UPRR02 PAN AM "C" Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sec 15 T2N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/31/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 240 Fm: J-CDL	Prod. Casing: 250 Fm: J-CDL	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neal Title: STAFF ENGR Date: 10-31-06

WITNESSED BY: _____ Title: _____ Agency: _____

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 2197
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Moser 12-4
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW Sec 04 T2N R65W
8. County: Weld
9. Field Name: CIWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/31/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 280 Fm: JNBCD	Prod. Casing: 310 Fm: JNBCD	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [X] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: STAFF ENGINEER Date: 12/31/06

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 10/30/06

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 07236
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: UPRR 49 PAN AM "B" Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sec 11-T5N-R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 230 Fm:	Prod. Casing: 230 Fm: CODL	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: STAT Engineer Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 16562
5. Multiple completion? [X] Yes [ ] No
6. Well Name: API 41-15 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE Sec 15 T4N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/30/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 400 Fm: NB-CD	Prod. Casing: 435 Fm: NB-CD	Intermediate Csg:	Surface Casing: 25

15. STEP 2: See instructions above. W/Water

STEP 3: BRADENHEAD TEST

16.

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 14560
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: UPRR 22 PANAM "S" Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW NW Sec 17 T3N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/30/06

12. Well Status: ☐ Flowing ☐ Shut in ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 210 Fm: JSND	Prod. Casing: 240 Fm: JSND	Intermediate Csg:	Surface Casing: 85

15. STEP 2: See instructions above. Steady

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew [illegible] Title: [illegible] Date: [illegible]

WITNESSED BY: _____ Title: _____ Agency: _____

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 05-123-09302
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: UPRR 21-PAN AM "G" Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW NW Sec 21 T4N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/15/04

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 195 Fm: SUSX	Prod. Casing: 210 Fm: SUSX	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kirkland Title: Field Supervisor Date: 10/20/04

WITNESSED BY: _____ Title: _____ Agency: _____

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 17775
5. Multiple completion? [X] Yes [ ] No
6. Well Name: McLaughlin-34-8 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 8-T3N-R67W
8. County: Weld
9. Field Name: Gilla
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/30/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 380 Fm: NB-LO	Prod. Casing: 410 Fm: NB-LO	Intermediate Csg:	Surface Casing: <5

15. **STEP 2:** See instructions above.

Loses pressure quickly, water in tune

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: [illegible] Date: [illegible]

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: KM
3. BLM Lease No: ____
4. API Number: 07203
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Boulter Frank 1 Number: ____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW SW Sec 14-T4N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/30/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		230	260		65
	Fm:	Fm: J-CDL	Fm: J-CDL		

15. STEP 2: See instructions above.

Steady w/Oil

16. **STEP 3: BRADENHEAD TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: [signature] Title: Staff [illegible] Date: [illegible]

WITNESSED BY: ____ Title: ____ Agency: ____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: PDC
3. BLM Lease No: _____
4. API Number: 12156
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Miller Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW SEC 17 T5N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11/8/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 320 Fm: COAL	Prod. Casing: 340 Fm: COAL	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☒ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6965
10:					6965
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Haslam Title: STAFF ENGR Date: 11/8/06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-8-06

1. OGCC Operator Number: _____
2. Name of Operator: Encana OGC
3. BLM Lease No: _____
4. API Number: 10432
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Ruhl Number: 1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE SEC 32 T4N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	209 Fm: JSND	242 Fm: JSND		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6501
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Ruhl Title: STAFF Engr. IT Date: 11-8-06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: EDC
3. BLM Lease No: _____
4. API Number: 11129
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: FOYE Swanson Number: 1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec 7 T6N R64W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.8.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 450 Fm: CODL	Prod. Casing: 485 Fm: CODL	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8585
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew K Lee Title: Staff Engr, PE Date: 11.8.06

WITNESSED BY: _____ Title: _____ Agency: _____

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 15 045 - 21
5. Multiple completion? [X] Yes [ ] No
6. Well Name: HSR Sloan 15-21A
Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 21-T4N-R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 10/30/06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	170 Fm: JNBCD	205 Fm: JNBCD		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16. Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17. Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: _____ Date: _____

WITNESSED BY: _____ Title: _____ Agency: _____

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: K. E. Kaufmann
3. BLM Lease No: _____
4. API Number: 10220
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Rowland Johnson Unit D Well #3 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SE NE Sec 7 T3N R64W
8. County: Weld
9. Field Name: Lwr A
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.1.06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☒ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

Record all pressures as found	Tubing: Fm:	Tubing: 21 Fm: SUSX	Prod. Casing: 21 Fm: SUSX	Intermediate Csg:	Surface Casing: 0

15. **STEP 2:** See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Borland Title: STAFF GEOLOGIST Date: 11.1.06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: PDC
3. BLM Lease No: ______
4. API Number: 11966
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Dinning C/ Hoff Number: 2
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 15 T6N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian
11. Date of Test: 11.8.06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		140	355		17
	Fm:	Fm: C-DOL	Fm: CDOL		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing:	Fm: ___ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing:	Fm: ___ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ______

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: Matthew [signature] Title: Staff Consult Date: 11.8.06

WITNESSED BY: ______ Title: ______ Agency: ______

FORM 17 Rev. 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KM
3. BLM Lease No: _____
4. API Number: 0780
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Gordon Turkey Farms Number: "B" #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW SW SEC 10 T2N R67W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/31/06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: 80 Fm: J-CDL	Prod. Casing: 210 Fm: J-CDL	Intermediate Csg:	Surface Casing: <5

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Kinder Title: STAT Knight Date: 12-21-06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: KP Kauffman
3. BLM Lease No: _____
4. API Number: 2063?
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Stonebreaker Number: 5-12
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW Sec 12 T1N R68W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-7-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☒ Pumping ☐ Injection ☐ Clock/Intermitter ☐ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing: Fm:	Tubing: 46 Fm: SUSX	Prod. Casing: 32 Fm: SUSX	Intermediate Csg:	Surface Casing: >5
Record all pressures as found					

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					8565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: _____ Date: 11-?-06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: [illegible] Energy
3. BLM Lease No: ____
4. API Number: 10705
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Don Urich Number: 23-27
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNE Sec 27 6N 65W
8. County: Weld
9. Field Name: [illegible]
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 11-2-06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: 400 Fm: NB CD	Prod. Casing: 450 Fm: NB CD	Intermediate Csg:	Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: [signature] Title: Staff Geologist Date: 11-2-06

WITNESSED BY: ____ Title: ____ Agency: ____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: PDC
3. BLM Lease No: _____
4. API Number: 05 123 [illegible]94-9
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Ellis Number: 94-9
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec. 9 T5N R67W
8. County: Weld
9. Field Name: Gina
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-2-04
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	Fm: SSND	300 Fm: SSND		100

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☒ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: STAFF BENEFIT Date: 11-5-04

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: Encana O&G
3. BLM Lease No: ____
4. API Number: 23335
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Armstrat Angus Number: # [illegible] 41-4
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE SEC 4 T3N R65W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-8-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	130 Fm: SUSX	190 Fm: SUSX		0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

Elapsed Time (Min:Sec)	Fm: ____ Tubing	Fm: ____ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ____

Sample cylinder number:

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: [signature] Title: STAFF Geologist Date: 11-8-06

WITNESSED BY: ____ Title: ____ Agency: ____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ____
2. Name of Operator: Encana O&G
3. BLM Lease No: ____
4. API Number: 25624
5. Multiple completion? [x] Yes [ ] No Number: 1-20
6. Well Name: State Patterson
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec20 T5N R63W
8. County: Weld
9. Field Name: Good
10. Minerals: [x] Fee [ ] State [ ] Federal [ ] Indian

11. Date of Test: 11 8 06

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [x] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		384	507		0
	Fm:	Fm: JMBCD	Fm: JBKCD		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ____ Title: ____ Phone: ____

Signed: Matthew [signature] Title: Staff Geologist Date: 11 8 06

WITNESSED BY: ____ Title: ____ Agency: ____

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-8-06

1. OGCC Operator Number:
2. Name of Operator: Encana O&G
3. BLM Lease No:
4. API Number: 09106
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Dinner
Number: #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE SC 14 T4N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing: 80	Prod. Casing: 170	Intermediate Csg:	Surface Casing: 0
	Fm:	Fm: SUSX	Fm: SUSX		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments:

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Title: Phone:

Signed: [signature] Title: Staff Geologist Date: 11-8-06

WITNESSED BY: Title: Agency:

FORM 17 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: EnCana O&G
3. BLM Lease No: ______
4. API Number: 12021
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Campbell E Number: Unit #1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW Sec 26 T1N R68W
8. County: Weld
9. Field Name: Gwa
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-9-06

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
		356	356		0
	Fm:	Fm: J NB CD	Fm: J NB CD		

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing	Fm: ___ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ___ Tubing	Fm: ___ Tubing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ______

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: Matthew [signature] Title: Staff Foreman Date: 11-9-06

WITNESSED BY: ______ Title: ______ Agency: ______

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State of Colorado
Oil and Gas Conservation Commission

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >26 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Encana O+G
3. BLM Lease No: _____
4. API Number: 1283
5. Multiple completion? ☒ Yes ☐ No
6. Well Name: Edith Ann Number: #3
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE SEC 21 T2N R66W
8. County: Weld
9. Field Name: GWA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11.9.06
12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☐ Injection ☐ Clock/Intermitter ☒ Plunger Lift
13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing: Fm:	Tubing: Fm: SUSD	Prod. Casing: Fm: SUSD	Intermediate Csg:	Surface Casing:
		19 Y	205		28

15. **STEP 2:** See instructions above.

16. **STEP 3: BRADENHEAD TEST**

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					
Note instantaneous Bradenhead PSIG at end of test:					>

17. **STEP 4: INTERMEDIATE CASING TEST**

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					
Note instantaneous Intermediate Casing PSIG at end of test:					>

18. Comments: _____

19. **STEP 5:** See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: _____ Title: STAFF ENGINEER Date: 11.9.06

WITNESSED BY: _____ Title: _____ Agency: _____

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: ______
2. Name of Operator: Encana O&G
3. BLM Lease No: ______
4. API Number: 20525
5. Multiple completion? [x] Yes [ ] No — Number: CR 44-21
6. Well Name: Elitis Ann
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec 21 T4N R66W
8. County: Weld
9. Field Name: GNA
10. Minerals: [x] Fee [ ] State [ ] Federal [ ] Indian
11. Date of Test: 11-9-06
12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [x] Plunger Lift
13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm:	165 Fm: J-CDL	169 Fm: J-CDL		25

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN? [ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) ______

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: ____ Tubing:	Fm: ____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6585
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: ______

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: ______ Title: ______ Phone: ______

Signed: [signature] Title: Staff Project Date: 11-9-06

WITNESSED BY: ______ Title: ______ Agency: ______

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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-9-06

1. OGCC Operator Number: _____
2. Name of Operator: Encana O&G
3. BLM Lease No: _____
4. API Number: 05 123 09710
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Dine Number: # 1
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW SEC 26 T2N R67W
8. County: Weld
9. Field Name: GUA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian

12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [ ] Injection [ ] Clock/Intermitter [X] Plunger Lift

13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

STEP 1: EXISTING PRESSURES

14.

	Tubing:	Tubing:	Prod. Casing: 4.	Intermediate Csg:	Surface Casing:
Record all pressures as found	Fm:	464 Fm: J-CDL	395? Fm: J-CDL		0

15. STEP 2: See instructions above.

STEP 3: BRADENHEAD TEST

16.

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

STEP 4: INTERMEDIATE CASING TEST

17.

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [X] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: _____ Tubing:	Fm: _____ Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8585
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: Matthew Neland Title: Staff Geologist Date: 11-9-06

WITNESSED BY: _____ Title: _____ Agency: _____

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Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 13764
5. Multiple completion? [X] Yes [ ] No
6. Well Name: Becker # 5-7 Number: _____
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW Sec 5 3 R64W
8. County: Weld
9. Field Name: DJNA
10. Minerals: [X] Fee [ ] State [ ] Federal [ ] Indian
11. Date of Test: 11-2-06
12. Well Status: [ ] Flowing [ ] Shut In [ ] Gas Lift [ ] Pumping [X] Injection [ ] Clock/Intermitter [X] Plunger Lift
13. Number of Casing Strings: [ ] Two [ ] Three [ ] Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: Fm: NB-CD	Prod. Casing: Fm: NB-CD	Intermediate Csg:	Surface Casing:
		0	0		0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? [ ] Yes [ ] No Confirmed open? [ ] Yes [ ] No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Bradenhead fluid: [ ] Clear [ ] Fresh [ ] Sulfur [ ] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? [ ] Yes [X] No Confirmed open? [ ] Yes [X] No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

O = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
[ ] Yes [ ] No [ ] Gas [ ] Liquid

Character of Intermediate fluid: [ ] Clear [ ] Fresh [ ] Sulfur [X] Salty [ ] Black [ ] Other: (describe) _____

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					6565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

Signed: [signature] Title: Tuff Braught Date: 11-2-06

WITNESSED BY: _____ Title: _____ Agency: _____

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State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test.
Step 4. Conduct Intermediate casing test.
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

11. Date of Test: 11-2-06

1. OGCC Operator Number: _____
2. Name of Operator: Merit Energy
3. BLM Lease No: _____
4. API Number: 13115
5. Multiple completion? ☐ Yes ☒ No
6. Well Name: Walter D Number: 15-10
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW Sec 10 3N 68W
8. County: Weld
9. Field Name: GUA
10. Minerals: ☒ Fee ☐ State ☐ Federal ☐ Indian

12. Well Status: ☐ Flowing ☐ Shut In ☐ Gas Lift ☐ Pumping ☒ Injection ☐ Clock/Intermitter ☒ Plunger Lift

13. Number of Casing Strings: ☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES

Record all pressures as found	Tubing: Fm:	Tubing: Fm: CODL	Prod. Casing: Fm: CODL	Intermediate Csg:	Surface Casing:
		135	325		0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☐ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
00:					
05:					
10:					
15:					
20:					
25:					
30:					

Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☒ No Confirmed open? ☐ Yes ☐ No

With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:

D = No Flow; C = Continuous; D = Down to 0; V = Vapor
H = Water H2O; M = Mud; W = Whisper; S = Surge; G =Gas

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid

Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sulfur ☒ Salty ☐ Black ☐ Other: (describe)

Sample cylinder number:

Elapsed Time (Min:Sec)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
00:					2323
05:					8565
10:					6565
15:					
20:					
25:					
30:					

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: _____ Title: _____ Phone: _____

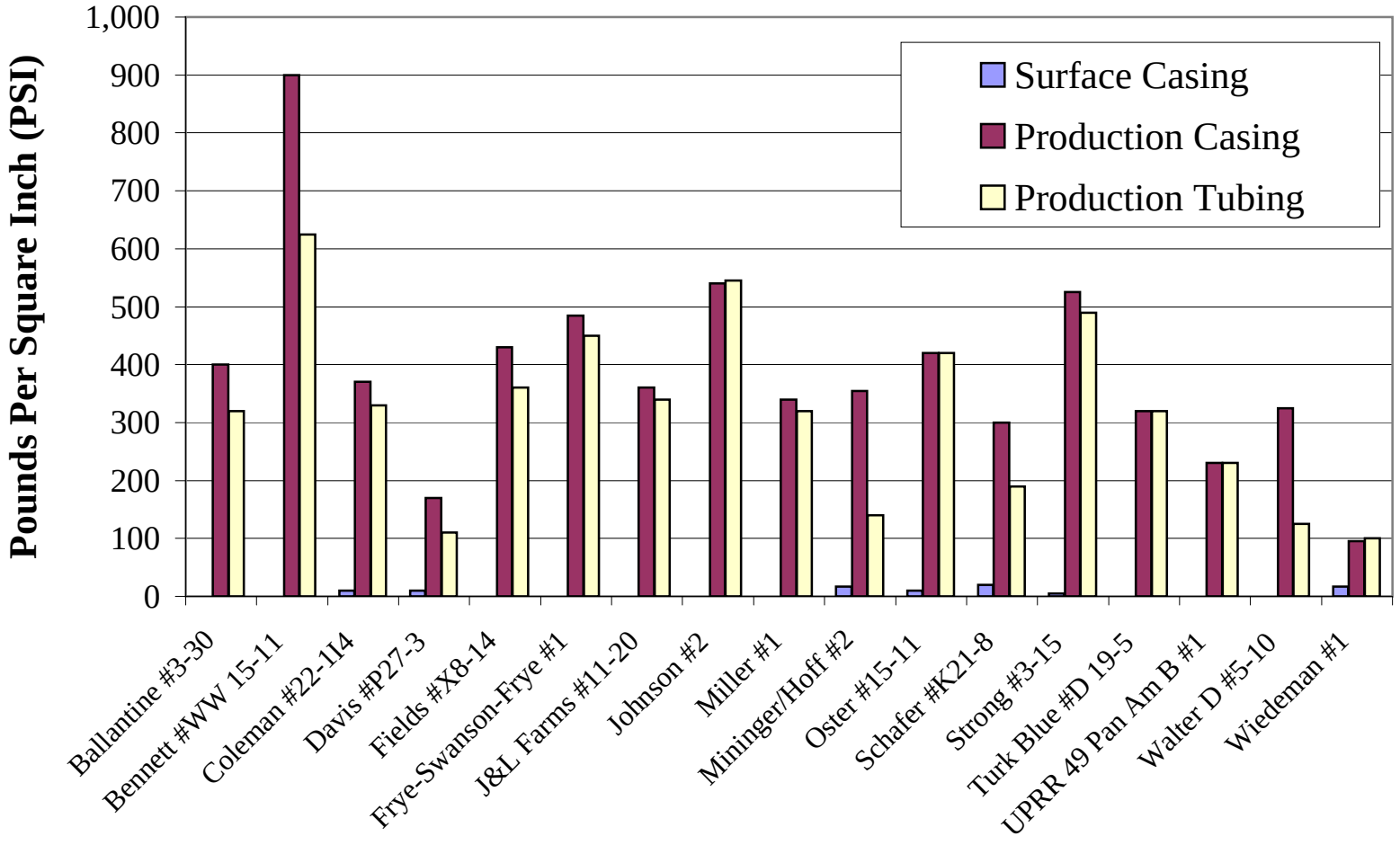
Signed: _____ Title: STAFF GEOLOGIST Date: 11-2-06

WITNESSED BY: _____ Title: _____ Agency: _____

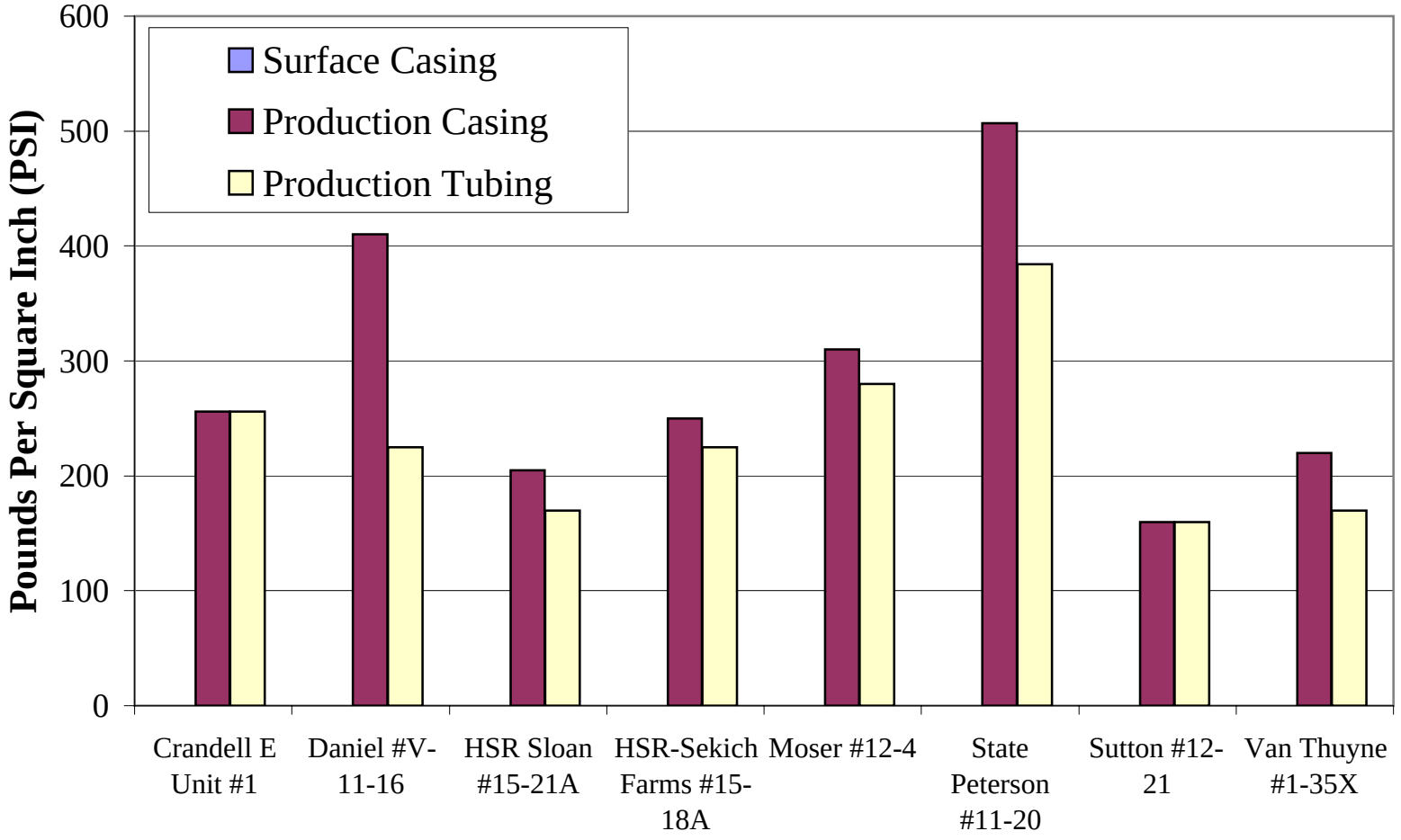
APPENDIX C

PRESSURE READINGS RESULTS CHARTS

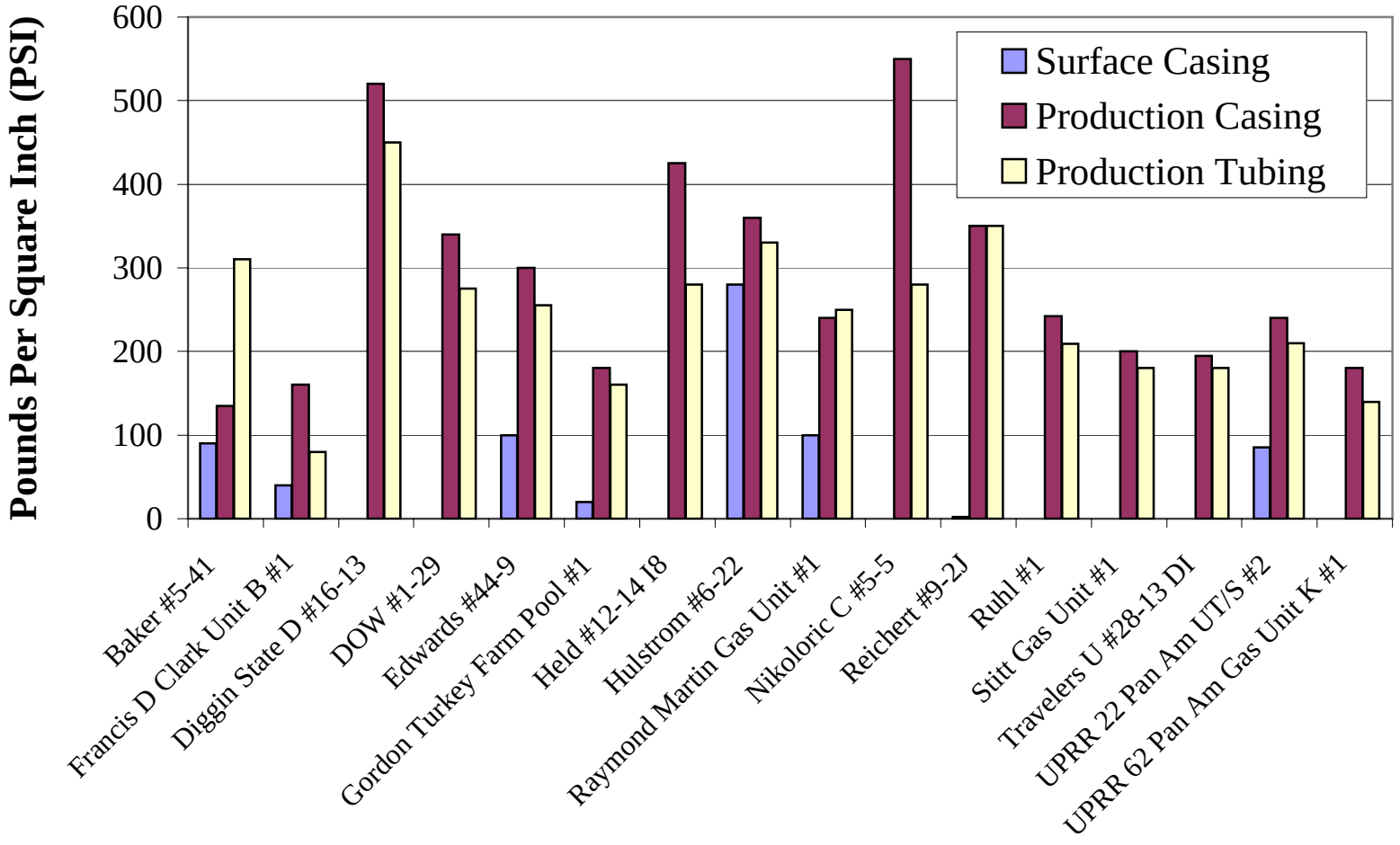
PRESSURE READINGS RESULTS
CODELL



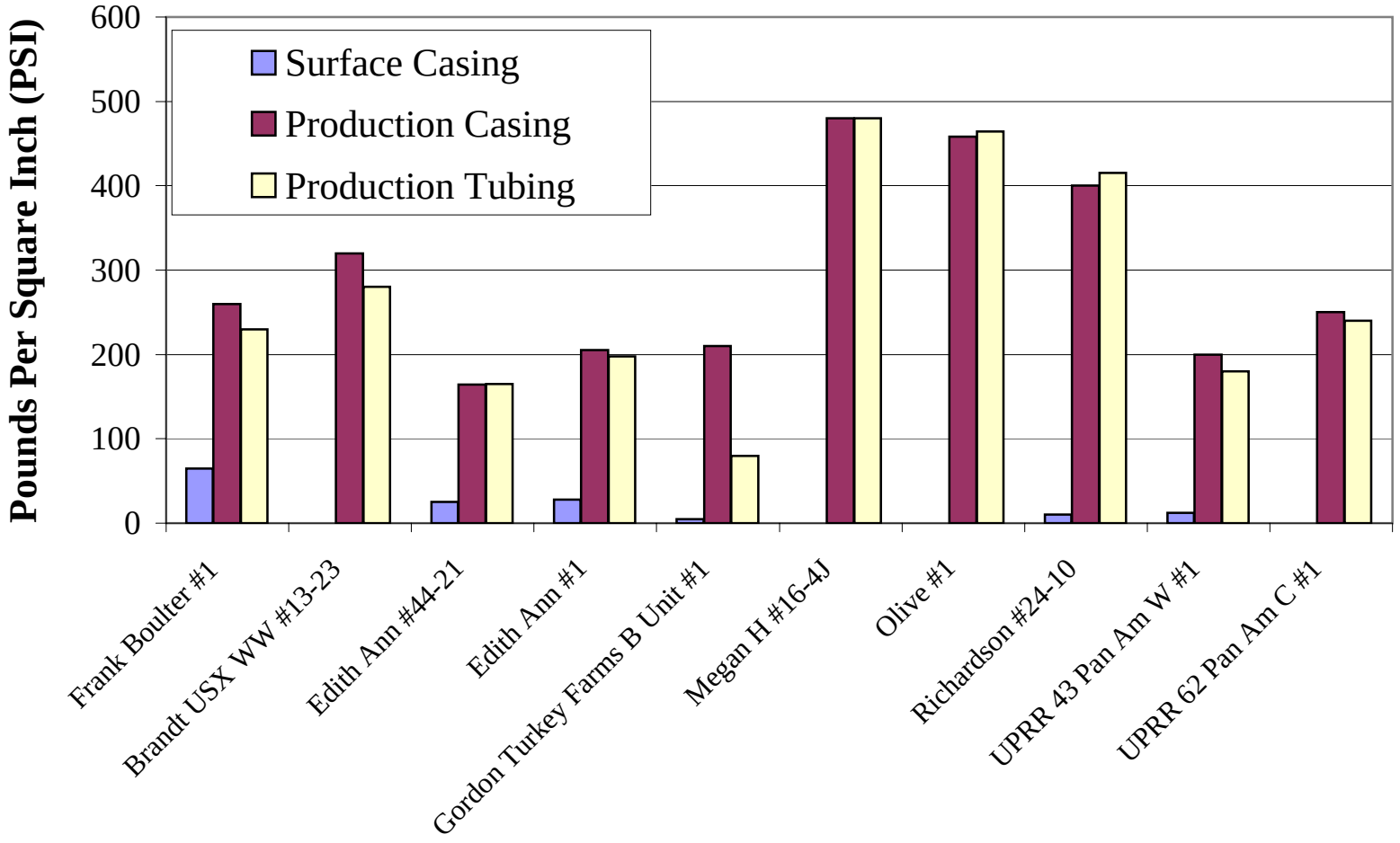
PRESSURE READINGS RESULTS
J SAND / NIOBRARA / CODELL



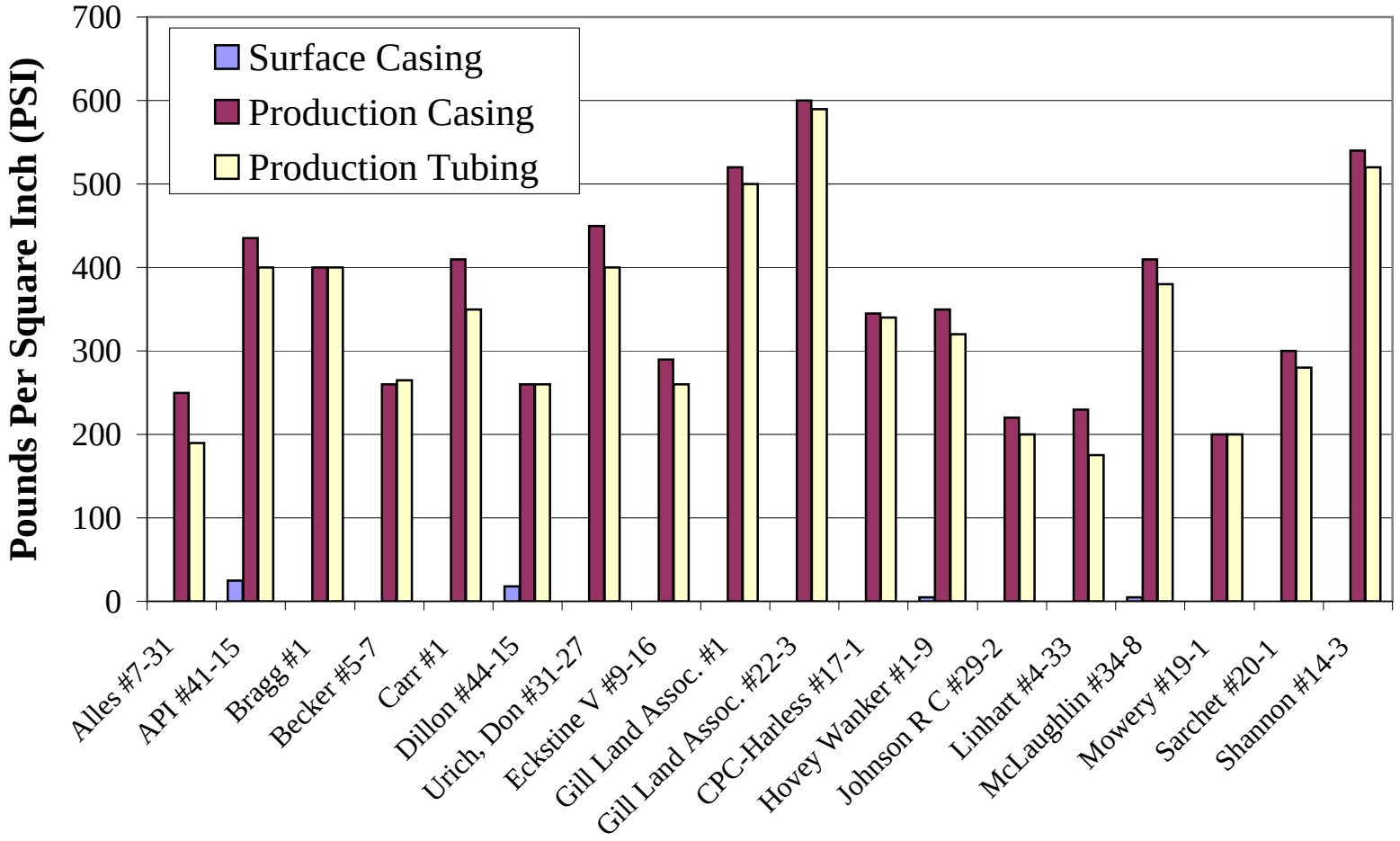
PRESSURE READINGS RESULTS
J SAND



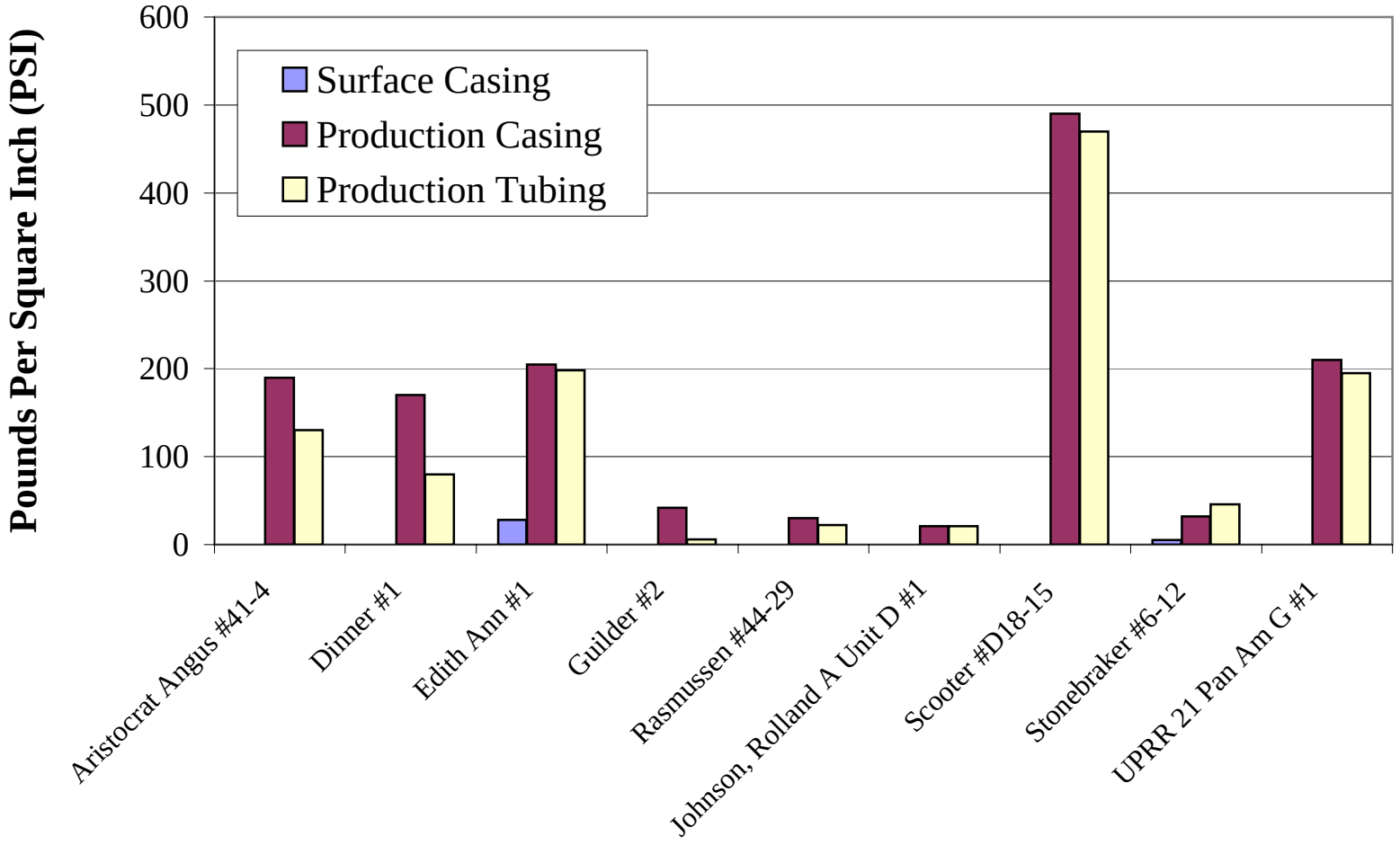
PRESSURE READINGS RESULTS
J SAND / CODELL



PRESSURE READINGS RESULTS
NIOBRARA / CODELL



PRESSURE READINGS RESULTS
SUSSEX



APPENDIX D

PHOTOGRAPHS – WATER WELLS

Photo 1: Carmin Kelly water sample location.

Photo 2: Carmin Kelly water condition.

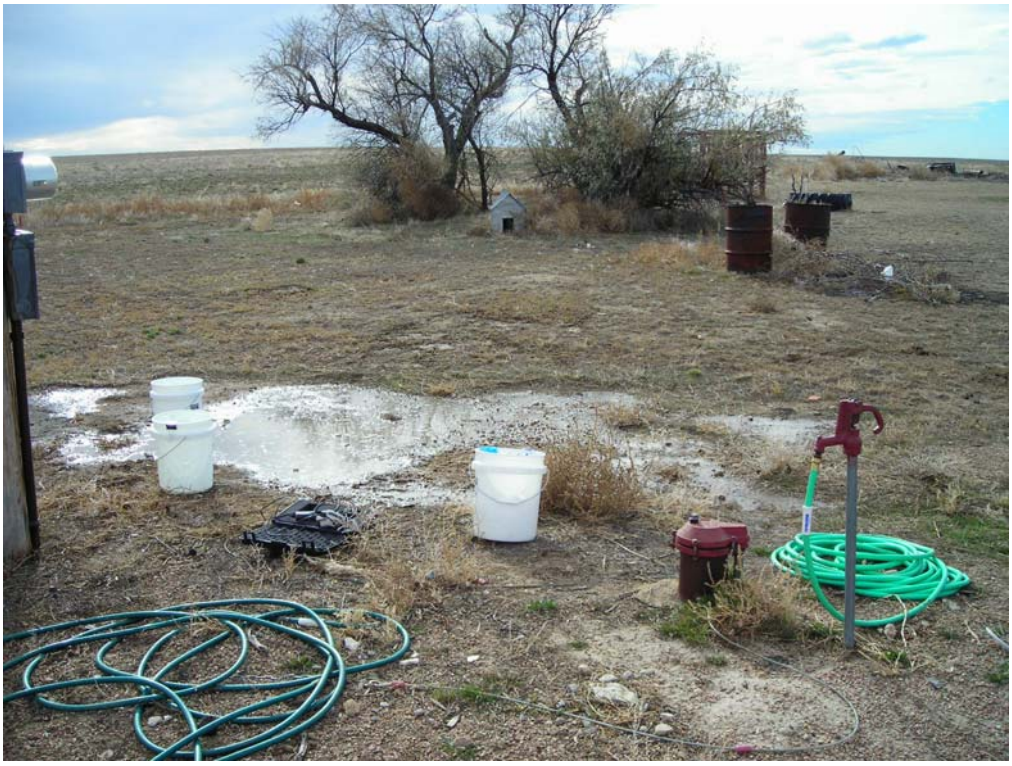


Photo 3: Epple William and Linda S water sample location.

Photo 4: Epple William and Linda S water condition.

Photo 5: Hager water sample location.

Photo 6: Hager water condition.

Photo 7: Harold Dutton water sample location.

Photo 8: Harold Dutton water condition.

Photo 9: Jerry Sumner water sample location.

Photo 10: Jerry Sumner water condition.

Photo 11: L and F Ranch water sample location.

Photo 12: L and F Ranch water condition.

Photo 13: S M Ranch water condition and sample location.

Photo 14: S M Ranch water condition and sample location.

Photo 15: Victor and Karen Androvich water sample location.

Photo 16: Victor and Karen Androvich water condition.

Photo 17: Bruce Reed water condition.

APPENDIX E

CD-ROM – ELECTRONIC FILES