

**BLM BRADENHEAD TEST REPORT FORM**

Lease #: FEE

Well Name Southern Ute

Well Number 5-7

API# #05-067-08483

Operator Four Star O&G Company

Date: 5/24/2011

QQ: NW/SW Sec 5 Twp 33N Range 10W

Minerals: Fee

**Well Status:** On-Line Flowing

**Type:** Gas

Number of Casings if known: (circle) Two Two with liner Three Three with liner

**STEP 1: CLOSE all BLM & approved-to-vent surface & intermediate VALVES 10-14 days prior to test. (BLM well BHD valves shall normally be closed unless specific BLM authorization has been approved to vent casing to atmosphere as a remediation procedure.)**

**BRADENHEAD TEST RECORDING**

**STEP 2: CERTIFY that all buried valves are in OPEN position:**

**If Buried Bradenhead vlv, Confirmed Open? Y**

**If Buried Intermediate vlv, Confirmed Open? Y/N**

Expose piping for all BLM witnessed tests to demonstrate that buried valve is "open".

Elapsed time	Tubing Fm	Tubing Fm	Prod. Casing	Intermed. Casing	Surface Casing
Initial Pressure	<u>64</u>	#	<u>71</u>	<u>N/A</u>	<u>64</u>
<u>25</u> Min:Sec	#	#	#	#	Flow Char. <u>W</u>
05:00			71		Flow Char. <u>W</u>
10:00			71		Flow Char. <u>W</u>
15:00			71		Flow Char. <u>W</u>
20:00			71		Flow Char. <u>W</u>
25:00			70		Flow Char. <u>W</u>
30:00			70		Flow Char. <u>W</u>
				Instantaneous Ending Pressure	<u>2</u>

**STEP 3: USING calibrated mechanical (2# accuracy) or digital Gauge, MEASURE Initial Tubing & Casing Pressures & Record on chart. Too small to measure = "TSTM".**

**STEP 4: If initial Surface casing is >25# (>5# within sensitive areas), SAMPLE gas using 10 individual cylinder purges & record cylinder # 4014.**

**STEP 5: Open & flow Bhd vlv. monitoring flow Character. Record other casing pressures within 1<sup>st</sup> 5 min, then @ 5, 10, 15, 20, 25, 30min. Record Surface Csg. flow characteristic. "Required time to monitor" on reverse. IF < 5 min. to blow down show in "elapsed time" column of Chart; Record below the time to "whisper" & time to "no flow" if different.**

*BHD to "w" in \_\_\_ min \_\_\_ sec & to "NF" in \_\_\_ min \_\_\_ sec.*

*INT to "w" in \_\_\_ min \_\_\_ sec & to "NF" in \_\_\_ min \_\_\_ sec*

**STEP 6: Leave Bradenhead open & repeat above procedure with Intermediate casing. Record in Intermediate Test Record Chart**

**Record flow characteristic by letters: NF=no flow;**

**D=**gas diminished to no flow; **G=**continuous gas, **W=** whisper, Water/mud character:( circle) clear, fresh, salty, sulfur, black (Gas sample analysis to be submitted with BHD test to BLM)

**V=vapor; S=surge; VAC=vacuum H=water; M=mud.**

**INTERMEDIATE TEST RECORDING**

**STEP 7: CLOSE ALL VALVES unless approved to vent.**

**REMARKS:**

Note size of valve: BHD: 2"

INTERMEDIATE: \_\_\_ / \_\_\_ needle valve or 1/2" 3/4", 1"

Clarifying remarks: Whisper of gas during entire test- vapor shadow on ground.

Tested by:

(print name) Bruce Martin

(signature) Bruce Martin

Phone 505-320-7937

DATE 5/24/2011

Witnessed by \_\_\_\_\_ BLM/COGCC

Elapsed Time	Tubing Fm	Tubing Fm	Prod. Casing	Intermed. Casing
Initial Pressure	#	#	#	# Pressure
<u>   </u> Min:Sec	#	#	#	Flow Char.
05:00				Flow Char
10:00				Flow Char
15:00				Flow Char
20:00				Flow Char
25:00				Flow Char
30:00				Flow Char
				Ending Pressure

Bradenhead Test Report Form.doc 1/20/2010 rev.

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 (505) 325-6622

ANALYSIS NO. CH110003  
 CUST. NO. 74000 - 11210

**WELL/LEASE INFORMATION**

CUSTOMER NAME	CHEVRON TEXACO	SOURCE	BRADENHEAD
WELL NAME	SOUTHERN UTE 5-7	PRESSURE	65 PSI G
COUNTY/ STATE	LA PLATA	SAMPLE TEMP	N/A DEG.F
LOCATION		WELL FLOWING	Y
FIELD		DATE SAMPLED	07/19/2011
FORMATION	FRUITLAND COAL	SAMPLED BY	KORY COFFEY
CUST.STN.NO.		FOREMAN/ENGR.	

REMARKS

COMPONENT	MOLE %	ANALYSIS		
		GPM**	B.T.U.*	SP.GR *
NITROGEN	0.839	0.0930	0.00	0.0081
CO2	0.012	0.0020	0.00	0.0002
METHANE	91.776	15.5940	926.94	0.5083
ETHANE	4.776	1.2800	84.52	0.0496
PROPANE	1.418	0.3920	35.68	0.0216
I-BUTANE	0.362	0.1190	11.77	0.0073
N-BUTANE	0.355	0.1120	11.58	0.0071
I-PENTANE	0.132	0.0480	5.28	0.0033
N-PENTANE	0.100	0.0360	4.01	0.0025
HEXANE PLUS	0.230	0.1030	12.12	0.0076
<b>TOTAL</b>	<b>100.000</b>	<b>17.7790</b>	<b>1,091.90</b>	<b>0.6156</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0025	GPM, BTU, and SPG calculations as shown above are based on current GPA factors.
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,097.2	
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,078.1	
REAL SPECIFIC GRAVITY	0.6169	

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,091.2	CYLINDER #	4014
DRY BTU @ 14.696	1,094.7	CYLINDER PRESSURE	61 PSIG
DRY BTU @ 14.730	1,097.2	DATE RUN	07/27/2011
DRY BTU @ 15.025	1,119.2	ANALYSIS RUN BY	SARAH MANGUM