

DRILL STEM TEST REPORT

Prepared For: **Wiepking & Fullerton**

4600 S Sowning St
Englewood CO 80113

ATTN: Gregg Smith

S20-10-55 Lincoln, CO

Bubba State 2

Start Date: 2010.12.29 @ 07:24:00

End Date: 2010.12.29 @ 18:23:10

Job Ticket #: 040574 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Wiepking & Fullerton

Bubba State 2

S20-10-55 Lincoln, CO

DST # 2

Cherokee 'A'

2010.12.29



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TESTING, INC

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S20-10-55 Lincoln, CO

Job Ticket: 040574

DST#: 2

Test Start: 2010.12.29 @ 07:24:00

GENERAL INFORMATION:

Formation: Cherokee 'A'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:50

Time Test Ended: 18:23:10

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 7068.00 ft (KB) To 7105.00 ft (KB) (TVD)

Total Depth: 7105.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 5207.00 ft (KB)

5194.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8018

Inside

Press@RunDepth: 739.80 psig @ 7073.00 ft (KB)

Start Date: 2010.12.29

End Date:

2010.12.29

Start Time: 07:24:05

End Time:

18:23:09

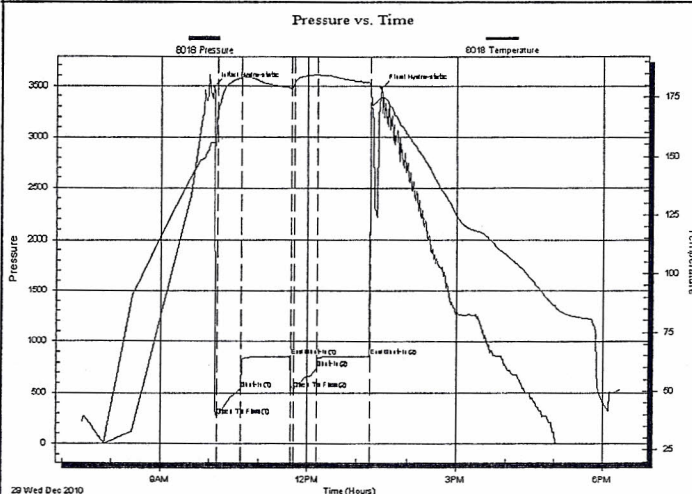
Capacity: 8000.00 psig

Last Calib.: 2010.12.29

Time On Btm: 2010.12.29 @ 10:04:00

Time Off Btm: 2010.12.29 @ 13:28:30

TEST COMMENT: IF: B.O.B. @ 45 sec.
IS: B.O.B. throughout period.
FF: Immediate B.O.B.
FSI: Return blow receded to 10".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3494.85	155.67	Initial Hydro-static
5	276.07	168.17	Open To Flow (1)
35	538.98	182.90	Shut-In(1)
96	855.79	178.80	End Shut-In(1)
99	536.79	180.63	Open To Flow (2)
128	739.80	184.30	Shut-In(2)
192	854.64	180.92	End Shut-In(2)
205	3477.04	174.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3816 Feet GIP	0.00
544.00	GW 5g 95w	2.68
361.00	GWOCM 25g 10w 10o 55m	5.06
650.00	GMCO 35g 15m 50o	9.12
650.00	CGO 15g 85o	9.12
505.00	CGO 55g 45o	7.08

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	17.00	211.82
Last Gas Rate	0.13	30.00	16.62
Max. Gas Rate	0.13	30.00	16.62



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TOOL DIAGRAM

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4600 S Downing St
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Job Ticket: 040574

DST#: 2

ATTN: Gregg Smith

Test Start: 2010.12.29 @ 07:24:00

Tool Information

Drill Pipe:	Length: 6526.00 ft	Diameter: 3.80 inches	Volume: 91.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 544.00 ft	Diameter: 2.25 inches	Volume: 2.68 bbl	Weight to Pull Loose: 125000.0 lb
			Total Volume: 94.22 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 102000.0 lb
Depth to Top Packer:	7068.00 ft			Final 104000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	66.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			7039.50	
Shut In Tool	5.00			7044.50	
Sampler	2.00			7046.50	
Hydraulic tool	5.00			7051.50	
Jars	5.00			7056.50	
Safety Joint	2.50			7059.00	
Packer	5.00			7064.00	29.50 Bottom Of Top Packer
Packer	4.00			7068.00	
Stubb	1.00			7069.00	
Perforations	4.00			7073.00	
Recorder	0.00	8018	Inside	7073.00	
Recorder	0.00	6751	Outside	7073.00	
Perforations	29.00			7102.00	
Bullnose	3.00			7105.00	37.00 Bottom Packers & Anchor

Total Tool Length: 66.50



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FLUID SUMMARY

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ATTN: Gregg Smith

Test Start: 2010.12.29 @ 07:24:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.78 in³
Resistivity: 0.00 ohm.m
Salinity: 500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: 60000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3816 Feet GIP	0.000
544.00	GW 5g 95w	2.675
361.00	GWOCM 25g 10w 10o 55m	5.064
650.00	GMCO 35g 15m 50o	9.118
650.00	CGO 15g 85o	9.118
505.00	CGO 55g 45o	7.084

Total Length: 2710.00 ft Total Volume: 33.059 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: 148 @ 61 Degrees F = 60000 PPM



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GAS RATES

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Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.50	17.00	211.82
1	20	0.50	17.00	211.82
1	25	0.25	16.00	48.23
1	30	0.25	15.00	46.64
2	15	0.13	18.00	12.13
2	20	0.13	23.00	14.00
2	30	0.13	30.00	16.62

Serial #: 8018

Inside

Wiepking & Fullerton

S20-10-55 Lincoln, CO

DST Test Number: 2

