



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Company
 P.O. Box 124
 Kiowa, KS 67070-1912
 ATTN: Arden Ratzlaff

DALE #1
34-34s-10w Barber KS
 Job Ticket: 36258 DST#: 1
 Test Start: 2010.03.25 @ 12:15:00

KCC WICHITA

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:10
 Time Test Ended: 20:57:10
 Interval: **4705.00 ft (KB) To 4724.00 ft (KB) (TVD)**
 Total Depth: **4724.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole
 Tester: Jake Fahrenbruch
 Unit No: 43
 Reference Elevations: 1320.00 ft (KB)
 1312.00 ft (CF)
 KB to GR/CF: 8.00 ft

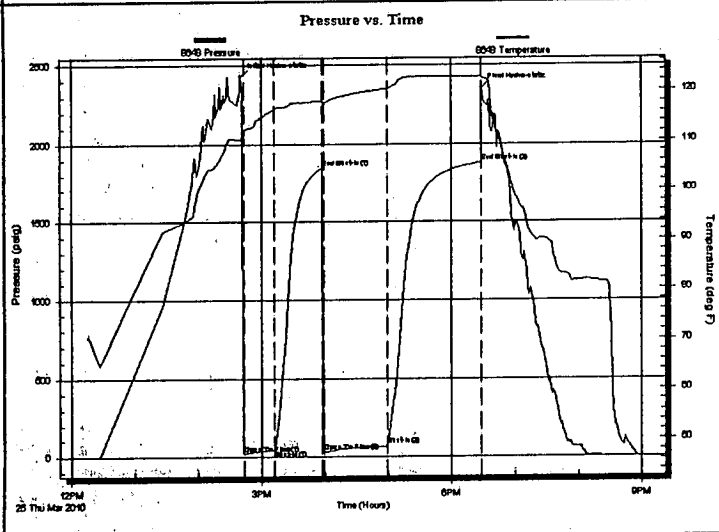
Serial #: 8648

Inside

Press@RunDepth: 69.02 psig @ 4706.00 ft (KB)
 Start Date: 2010.03.25 End Date: 2010.03.25
 Start Time: 12:15:05 End Time: 20:57:09

Capacity: 8000.00 psig
 Last Calib.: 2010.03.25
 Time On Btm: 2010.03.25 @ 14:40:00
 Time Off Btm: 2010.03.25 @ 18:28:20

TEST COMMENT: IF: Fairly strong blow, built to BOB in 7 minutes.
 IS: Bled off, no blow back.
 FF: Strong blow, built to BOB in 10 seconds.
 FS: Bled off, no blow back.



PRESSURE SUMMARY

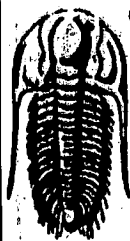
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2428.19	110.20	Initial Hydro-static
4	18.80	111.36	Open To Flow (1)
32	43.75	116.31	Shut-In(1)
78	1845.89	118.03	End Shut-In(1)
79	32.17	117.08	Open To Flow (2)
139	69.02	120.35	Shut-In(2)
228	1879.98	122.67	End Shut-In(2)
229	2352.42	122.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HGC M&WCO 30%g10%m20%w 50%o	0.30
60.00	GC M&WCO 15%g20%m20%w 45%o	0.30
30.00	G&WCMO 10%g10%w 40%m40%o	0.38
0.00	3400' GAS IN PIPE	0.00
0.00	52,000 ppm chlorides	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

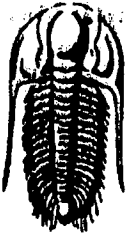
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Tool Information

Drill Pipe:	Length: 4578.00 ft	Diameter: 3.80 inches	Volume: 64.22 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4705.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4687.00	
Hydraulic tool	5.00			4692.00	
Safety Joint	3.00			4695.00	
Packer	5.00			4700.00	23.00 Bottom Of Top Packer
Packer	5.00			4705.00	
Stubb	1.00			4706.00	
Recorder	0.00	8648	Inside	4706.00	
Recorder	0.00	6799	Outside	4706.00	
Perforations	13.00			4719.00	
Bullnose	5.00			4724.00	19.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	52000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HGC M&WCO 30%g 10%m 20%w 50%o	0.295
60.00	GC M&WCO 15%g 20%m 20%w 45%o	0.295
30.00	G&WCMO 10%g 10%w 40%m 40%o	0.375
0.00	3400' GAS IN PIPE	0.000
0.00	52,000 ppm chlorides	0.000

Total Length: 150.00 ft Total Volume: 0.965 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

