TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Oxy U.S.A.**

PO Box 2528
Liberal, KS 67905

ATTN: Oxy U.S.A.

18-27-34 Haskell,Ks

Berger B-1

Start Date: 2003.07.04 @ 02:03:15
End Date: 2003.07.04 @ 10:33:43
Job Ticket #: 17514 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

CONFIDENTIAL ORIGINAL 99403

DRILL STEM TEST REPORT

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Liberal, KS 67905

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KCC OCT 13 2003 CONFIDENTIAL

Berger B-1

18-27-34 Haskell,Ks

Job Ticket: 17514 **DST#: 1**

Test Start: 2003.07.04 @ 02:03:15

GENERAL INFORMATION:

Formation: **morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:00:28
Time Test Ended: 10:33:43

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 25

Interval: 5055.00 ft (KB) To 5217.00 ft (KB) (TVD)
Total Depth: 5217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

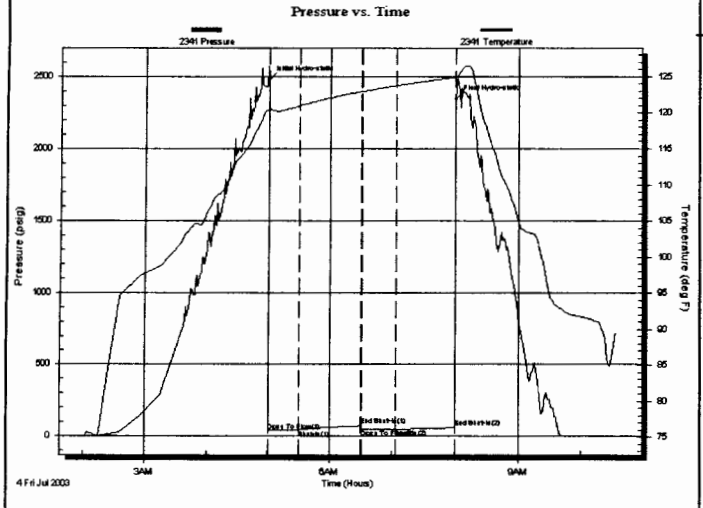
Reference Elevations: 3017.00 ft (KB)
3006.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 2341 **Inside**

Press@RunDepth: 49.99 psig @ 5056.00 ft (KB)
Start Date: 2003.07.04 End Date: 2003.07.04
Start Time: 02:03:15 End Time: 10:33:43

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2003.07.04 @ 05:00:13
Time Off Btm: 2003.07.04 @ 08:00:28

TEST COMMENT: 1/2"in @ open built to 3/4"in.
No return
Bubble to open tool ,No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2476.91	120.53	Initial Hydro-static
1	38.73	120.55	Open To Flow (1)
30	45.69	120.97	Shut-In(1)
90	73.54	122.95	End Shut-In(1)
91	47.98	122.97	Open To Flow (2)
123	49.99	123.75	Shut-In(2)
180	60.50	124.91	End Shut-In(2)
181	2345.45	124.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.10

Gas Rates

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

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TOOL DIAGRAM

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Job Ticket: 17514 DST#: 1

Test Start: 2003.07.04 @ 02:03:15

Tool Information

Drill Pipe:	Length:	4467.00 ft	Diameter:	3.80 inches	Volume:	62.66 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	578.00 ft	Diameter:	2.25 inches	Volume:	2.84 bbl	Weight to Pull Loose:		100000.0 lb
					Total Volume:	65.50 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	80000.00 lb
Depth to Top Packer:		5055.00 ft						Final	80000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		162.00 ft							
Tool Length:		192.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5026.00		
S.I. Tool	5.00			5031.00		
Sampler	3.00			5034.00		
HMV	5.00			5039.00		
Jars	5.00			5044.00		
Safety Joint	2.00			5046.00		
Packer	5.00			5051.00	30.00	Bottom Of Top Packer
Packer	4.00			5055.00		
Stubb	1.00			5056.00		
Recorder	0.00	2341	Inside	5056.00		
Perforations	28.00			5084.00		
C.O. Sub	1.00			5085.00		
drillpipe	126.00			5211.00		
C.O. Sub	1.00			5212.00		
Recorder	0.00	11058	Outside	5212.00		
Bullnose	5.00			5217.00	162.00	Bottom Packers & Anchor
Total Tool Length:	**192.00**					

99403

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FLUID SUMMARY

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18-27-34 Haskell,Ks

Job Ticket: 17514 **DST#: 1**

Test Start: 2003.07.04 @ 02:03:15

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:	700 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.16 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4000 ml. mud in sampler
RW 6.1 @ 89*f = 700 chlorides in sampler