



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Inc**
PO Box 399
Garden City, KS 67846

ATTN: Wyatt Urban

UPC #23-7

23-32-37w Stevens,KS

Start Date: 2014.01.30 @ 14:35:32
End Date: 2014.01.30 @ 23:55:32
Job Ticket #: 56622 DST #: 1

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

Printed: 2014.02.05 @ 10:01:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palmer Oil Inc
 PO Box 399
 Garden City, KS 67846
 ATTN: Wyatt Urban

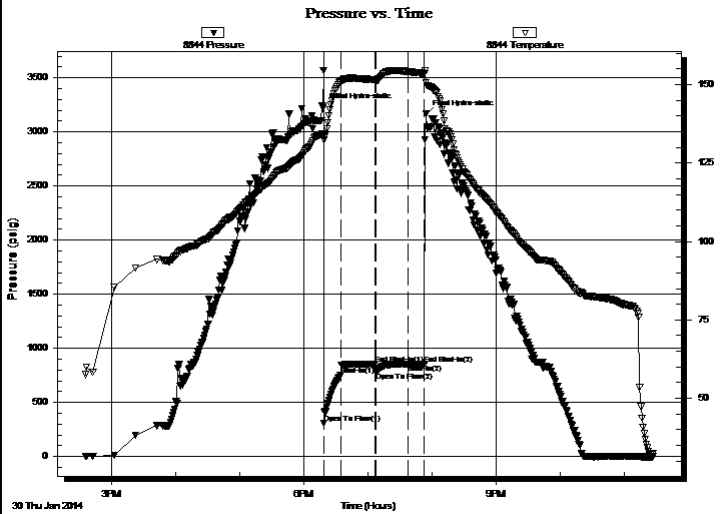
23-32-37w Stevens,KS
UPC #23-7
 Job Ticket: 56622 **DST#: 1**
 Test Start: 2014.01.30 @ 14:35:32

GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 18:18:17
 Time Test Ended: 23:55:32
 Interval: **6345.00 ft (KB) To 6421.00 ft (KB) (TVD)**
 Total Depth: 6421.00 ft (KB) (TVD)
 Hole Diameter: 6.75 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3133.00 ft (KB)
 3121.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8844 Outside
 Press@RunDepth: 855.37 psig @ 6346.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 14:35:32 End Time: 23:26:32 Time On Btm: 2014.01.30 @ 18:17:32
 Time Off Btm: 2014.01.30 @ 19:54:02

TEST COMMENT: Slid tool 15' to bottom B.O.B. in 1 min
 No return
 B.O.B. in 6 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3220.74	133.64	Initial Hydro-static
1	307.51	132.33	Open To Flow (1)
17	749.89	151.02	Shut-In(1)
49	852.14	151.49	End Shut-In(1)
50	783.86	151.44	Open To Flow (2)
80	855.37	154.17	Shut-In(2)
95	855.45	153.55	End Shut-In(2)
97	3162.74	150.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1323.00	water 100%w	16.88
189.00	s m c w 10% m 90% w	2.65
252.00	m c w 35% m 65% w	3.53

Gas Rates

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



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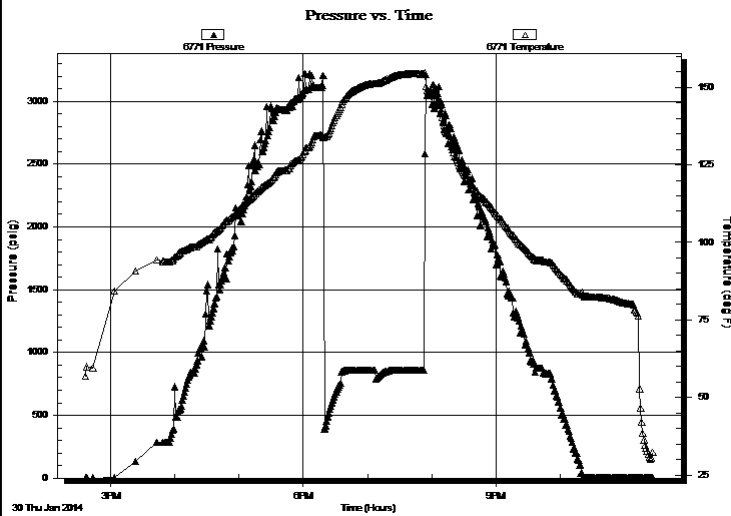
23-32-37w Stevens,KS
UPC #23-7
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Tester: Shane McBride
Unit No: 55
Reference Elevations: 3133.00 ft (KB)
3121.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6771 Inside
Press@RunDepth: psig @ 6346.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
Start Time: 14:36:13 End Time: 23:26:51 Time On Btm:
Time Off Btm:

TEST COMMENT: Slid tool 15' to bottom B.O.B. in 1 min
No return
B.O.B. in 6 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1323.00	water 100%w	16.88
189.00	s m c w 10% m 90% w	2.65
252.00	m c w 35% m 65% w	3.53

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil Inc
PO Box 399
Garden City, KS 67846
ATTN: Wyatt Urban

23-32-37w Stevens,KS
UPC #23-7
Job Ticket: 56622 **DST#: 1**
Test Start: 2014.01.30 @ 14:35:32

Tool Information

Drill Pipe:	Length: 6156.00 ft	Diameter: 3.80 inches	Volume: 86.35 bbl	Tool Weight:	2000.00 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: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume: 87.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	6345.00 ft			Final	92000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	104.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			6318.00	
Shut In Tool	5.00			6323.00	
Hydraulic tool	5.00			6328.00	
Jars	5.00			6333.00	
Safety Joint	3.00			6336.00	
Packer	5.00			6341.00	28.00 Bottom Of Top Packer
Packer	4.00			6345.00	
Stubb	1.00			6346.00	
Recorder	0.00	6771	Inside	6346.00	
Recorder	0.00	8844	Outside	6346.00	
Perforations	5.00			6351.00	
Change Over Sub	1.00			6352.00	
Drill Pipe	63.00			6415.00	
Change Over Sub	1.00			6416.00	
Bullnose	5.00			6421.00	76.00 Bottom Packers & Anchor

Total Tool Length: 104.00



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FLUID SUMMARY

Palmer Oil Inc
PO Box 399
Garden City, KS 67846
ATTN: Wyatt Urban

23-32-37w Stevens,KS
UPC #23-7
Job Ticket: 56622 **DST#: 1**
Test Start: 2014.01.30 @ 14:35:32

Mud and Cushion Information

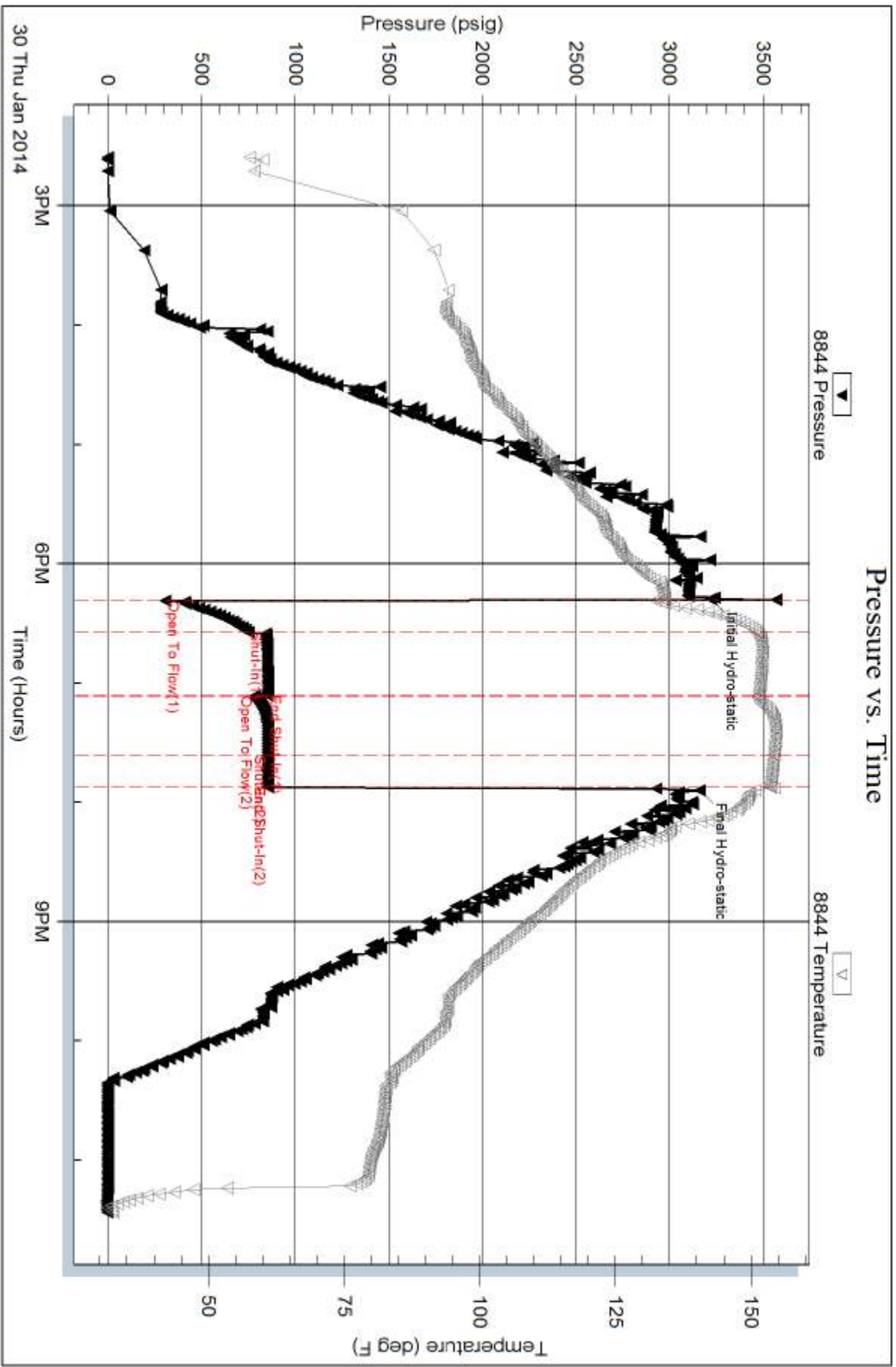
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 49000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1323.00	water 100%w	16.882
189.00	s m c w 10%m 90%w	2.651
252.00	m c w 35%m 65%w	3.535

Total Length: 1764.00 ft Total Volume: 23.068 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .297 @ 30*f= 49,000 chllor



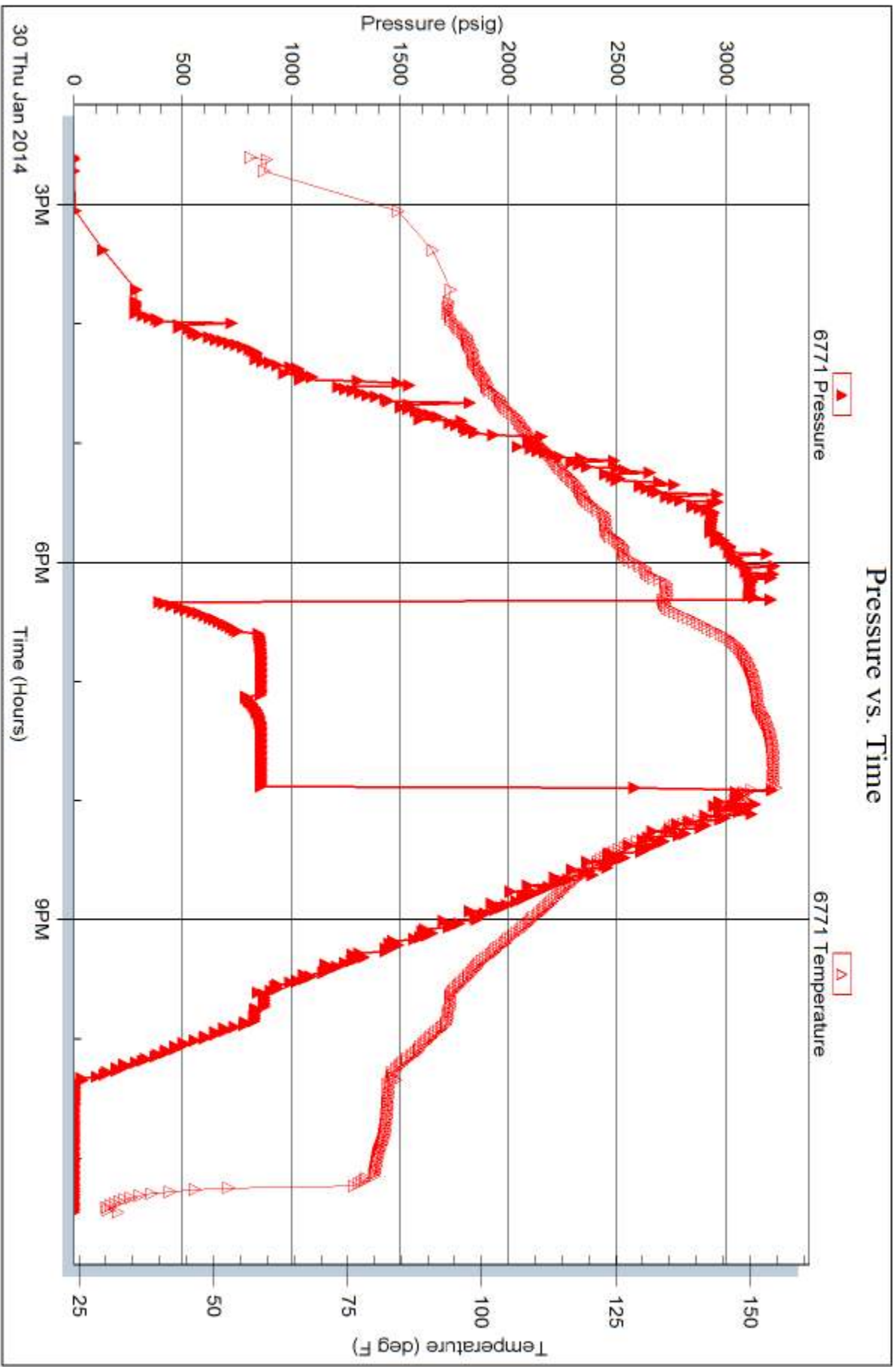
Serial #: 6771

Inside

Palmer Oil Inc

UPC #23-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56622

Printed: 2014.02.05 @ 10:01:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56622

Well Name & No. UPC #23-7 Test No. #1 Date 1/30/14
 Company Palmer Oil Inc Elevation 3133 KB 3121 GL
 Address 3118 N Cummings Rd, Garden City, KS 67846
 Co. Rep / Geo. Wyatt Urban Rig Duke #9
 Location: Sec. 23 Twp. 32 Rge. 37W Co. Sevens State KS

Interval Tested 6345 6421 Zone Tested St. Louis
 Anchor Length 76 Drill Pipe Run 6150 Mud Wt. 9.3
 Top Packer Depth 6340 Drill Collars Run 184' Vis 52
 Bottom Packer Depth 6345 Wt. Pipe Run --- WL 8.8
 Total Depth 6421 Chlorides 1200 ppm System LCM #1

Blow Description Slide tool 15' to bottom. B.O.B. in 1min
No return
B.O.B. in 5min.
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>mcw</u>		<u>65</u>	<u>35</u>	
<u>189</u>	<u>smcw</u>		<u>90</u>	<u>10</u>	
<u>1323</u>	<u>water</u>		<u>100</u>		

Rec Total 1764' BHT 154° Gravity --- API RW 277 @ 30° F Chlorides 19,000 ppm

(A) Initial Hydrostatic <u>3220</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>13:40</u>
(B) First Initial Flow <u>307</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:35</u>
(C) First Final Flow <u>749</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:20</u>
(D) Initial Shut-In <u>852</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:50</u>
(E) Second Initial Flow <u>783</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>855</u>	<input checked="" type="checkbox"/> Mileage <u>222 RT</u> <u>344.10</u>	Comments
(G) Final Shut-In <u>855</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3162</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Ruined Packer X2 640
 Extra Copies
 Sub Total 0
 Total 2759.10
 MP/DST Disc't

Sub Total 2119.10
 Approved By _____ Our Representative [Signature]

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