

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Midwestern Exploration Co.**

3500 S Boulevard Ste 2B  
Edmond OK 73013 5487

ATTN: Tom W

**Nix #1-7**

**7-35s-35w Stevens,KS**

Start Date: 2012.06.05 @ 11:30:00

End Date: 2012.06.05 @ 21:46:10

Job Ticket #: 47634      DST #: 1

Midwestern Exploration Co.  
7-35s-35w Stevens,KS  
Nix #1-7  
DST # 1  
Chester Sand  
2012.06.05

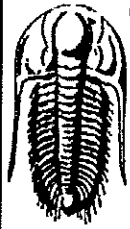
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

**ORIGINAL**

Printed: 2012.06.08 @ 11:34:47



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Midwestern Exploration Co.

7-35s-35w Stevens, KS

3500 S Boulevard Ste 2B  
Edmond OK 73013 5487

Nix #1-7

Job Ticket: 47634

DST#: 1

ATTN: Tom W

Test Start: 2012.06.05 @ 11:30:00

## GENERAL INFORMATION:

Formation: **Chester Sand**  
 Deviated: Yes Whipstock: ft (KB)  
 Time Tool Opened: 14:20:20  
 Time Test Ended: 21:46:10

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Harley Davidson  
 Unit No: 58

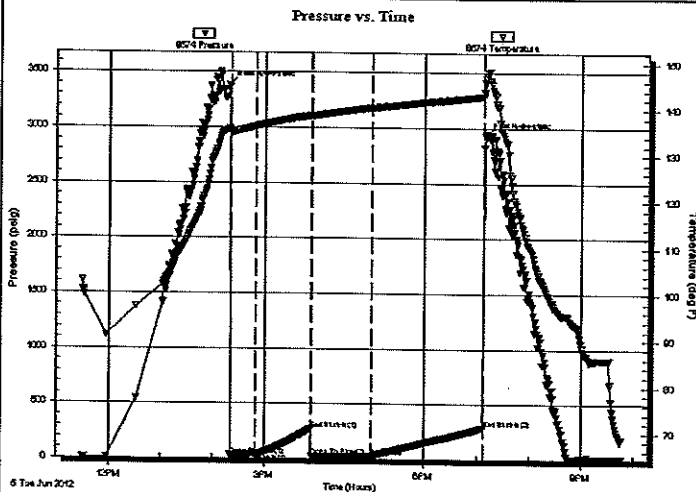
Interval: **6525.00 ft (KB) To 6580.00 ft (KB) (TVD)**  
 Total Depth: 6580.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3032.00 ft (KB)  
 3021.00 ft (CF)  
 KB to GR/CF: 11.00 ft

Serial #: **8674** Outside  
 Press@RunDepth: 26.62 psig @ ft (KB)  
 Start Date: 2012.06.05 End Date: 2012.06.05  
 Start Time: 11:30:05 End Time: 21:46:09

Capacity: 8000.00 psig  
 Last Calib.: 2012.06.05  
 Time On Btm: 2012.06.05 @ 14:18:00  
 Time Off Btm: 2012.06.05 @ 19:09:39

TEST COMMENT: IF- Weak surface blow.  
 IS- No blow back.  
 FF- Weak building blow 3" into bucket.  
 FS- No blow back.



## PRESSURE SUMMARY

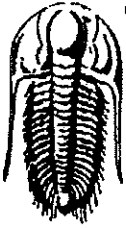
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3379.10	135.67	Initial Hydro-static
3	28.17	134.90	Open To Flow (1)
31	39.88	136.26	Shut-In(1)
94	271.18	138.67	End Shut-In(1)
96	21.31	138.60	Open To Flow (2)
163	26.62	140.30	Shut-In(2)
290	287.70	142.88	End Shut-In(2)
292	2928.46	145.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150' GIP	0.00
15.00	100% mud w ith trace of oil	0.07

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Midwestern Exploration Co.  
 3500 S Boulevard Ste 2B  
 Edmond OK 73013 5487  
 ATTN: Tom W

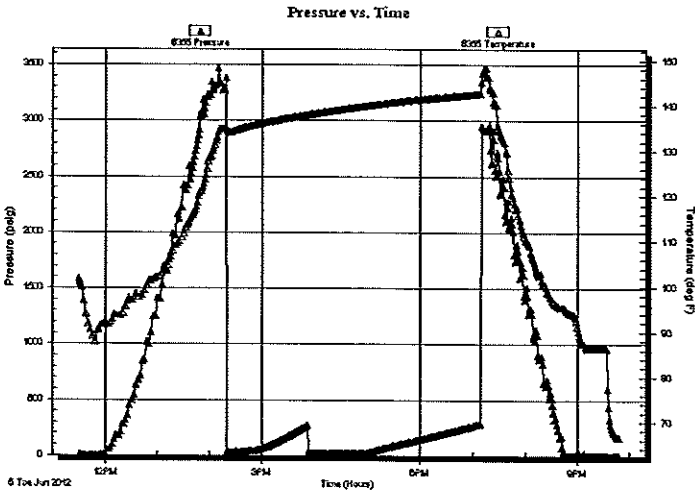
7-35s-35w Stevens, KS  
 Nix #1-7  
 Job Ticket: 47634      DST#: 1  
 Test Start: 2012.06.05 @ 11:30:00

### GENERAL INFORMATION:

Formation: **Chester Sand**  
 Deviated: Yes    Whipstock:                      ft (KB)  
 Time Tool Opened: 14:20:20  
 Time Test Ended: 21:46:10  
 Interval: 6525.00 ft (KB) To 6580.00 ft (KB) (TVD)  
 Total Depth: 6580.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches    Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Harley Davidson  
 Unit No: 58  
 Reference Elevations: 3032.00 ft (KB)  
 3021.00 ft (CF)  
 KB to GR/CF: 11.00 ft

Serial #: **8355**      Inside  
 Press@RunDepth:                      psig @                      ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.06.05      End Date: 2012.06.05      Last Calib.: 2012.06.05  
 Start Time: 11:29:35      End Time: 21:47:00      Time On Btm:  
 Time Off Btm:

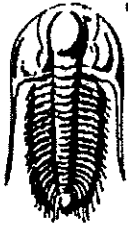
TEST COMMENT: IF- Weak surface blow.  
 IS- No blow back.  
 FF- Weak building blow 3" into bucket.  
 FS- No blow back.



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	150' GIP	0.00
15.00	100% mud with trace of oil	0.07

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Midwestern Exploration Co.

7-35s-35w Stevens, KS

3500 S Boulevard Ste 2B  
Edmond OK 73013 5487

Nix #1-7

Job Ticket: 47634

DST#: 1

ATTN: Tom W

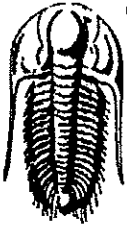
Test Start: 2012.06.05 @ 11:30:00

### Tool Information

Drill Pipe:	Length: 6165.00 ft	Diameter: 3.80 inches	Volume: 86.48 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: 363.00 ft	Diameter: 2.25 inches	Volume: 1.79 bbl	Weight to Pull Loose: 120000.0 lb
			<b>Total Volume: 88.27 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 99000.00 lb
Depth to Top Packer:	6525.00 ft			Final 110000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	82.00 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			6503.00	
Hydraulic tool	5.00			6508.00	
Jars	5.00			6513.00	
Safety Joint	3.00		Fluid	6516.00	
Packer	5.00			6521.00	27.00 Bottom Of Top Packer
Packer	4.00			6525.00	
Stubb	1.00			6526.00	
Recorder	0.00	8355	Inside	6526.00	
Recorder	0.00	8674	Outside	6526.00	
Change Over Sub	1.00			6527.00	
Drill Pipe	31.00			6558.00	
Change Over Sub	1.00			6559.00	
Perforations	18.00			6577.00	
Bullnose	3.00			6580.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE**  
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# DRILL STEM TEST REPORT

FLUID SUMMARY

Midwestern Exploration Co.

7-35s-35w Stevens, KS

3500 S Boulevard Ste 2B  
Edmond OK 73013 5487

Nix #1-7

Job Ticket: 47634

DST#: 1

ATTN: Tom W

Test Start: 2012.06.05 @ 11:30:00

## 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:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	150' GIP	0.000
15.00	100% mud with trace of oil	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

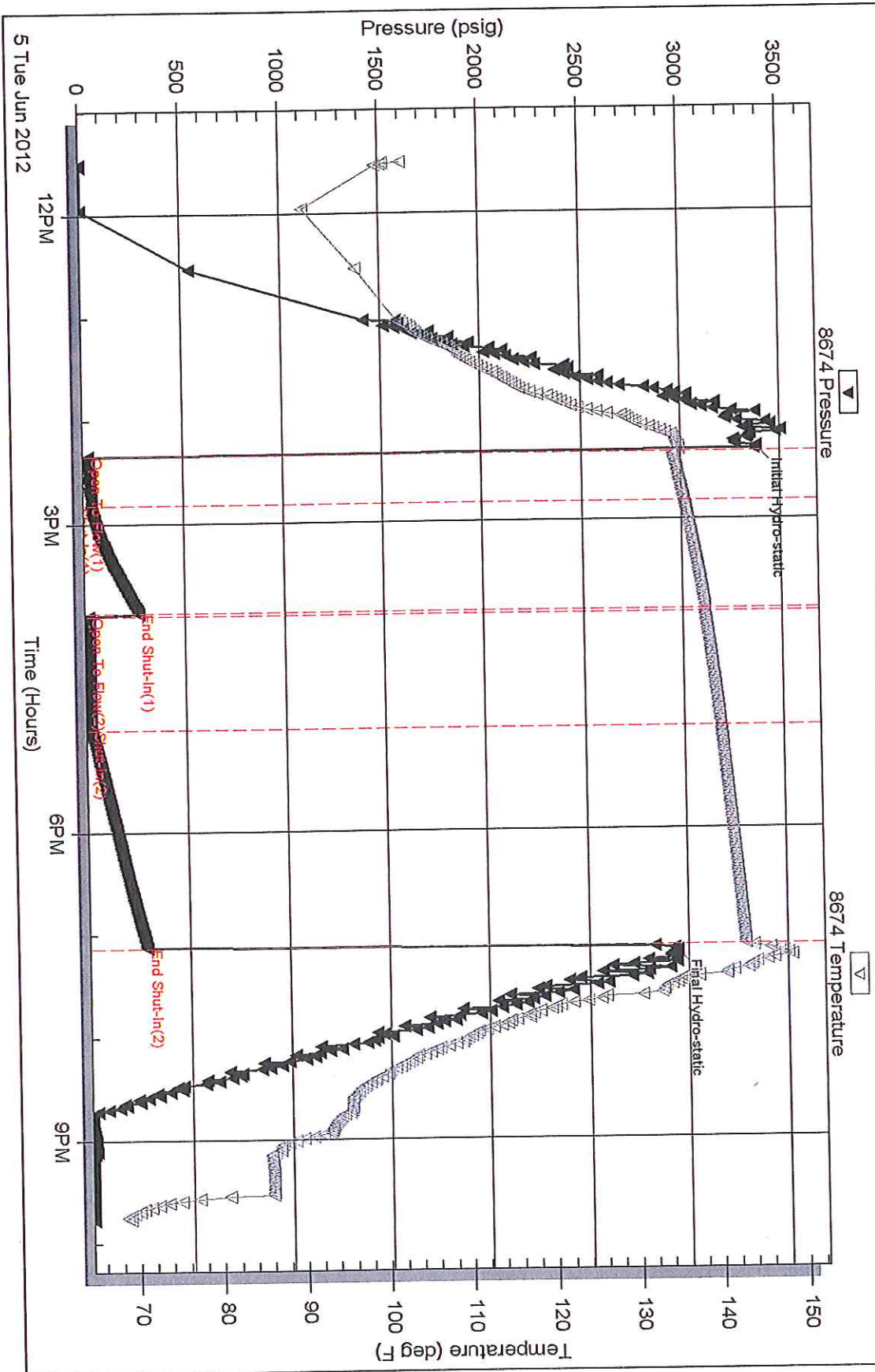
Serial #: 8674

Outside Midwestern Exploration Co.

Nix #41-7

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47634

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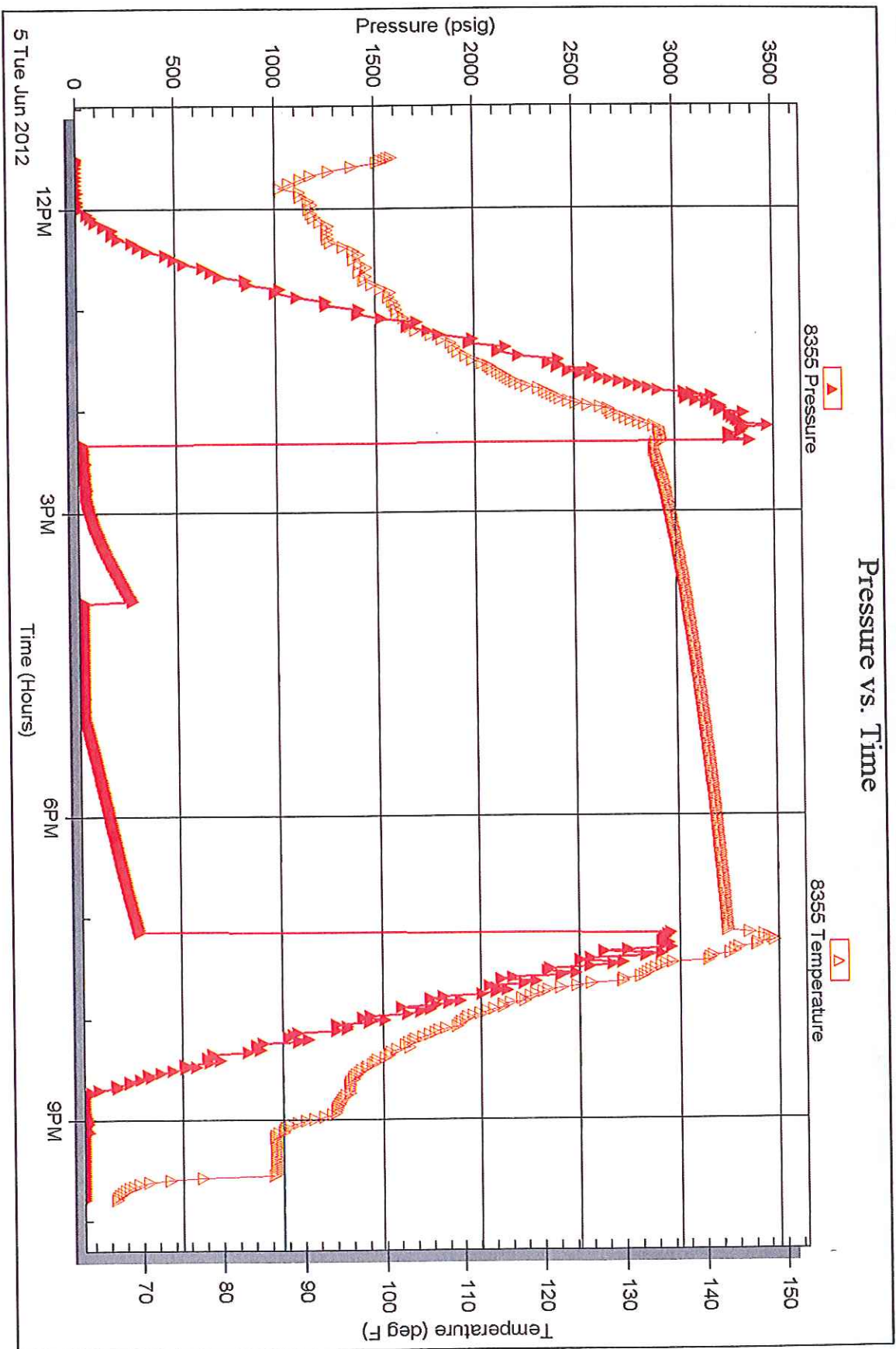
Serial #: 8355

Inside

Midwestern Exploration Co.

Nix #1-7

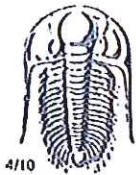
DST Test Number: 1



TriLobite Testing, Inc

Ref. No: 47634

Printed: 2012.06.08 @ 11:34:50



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47634

Well Name & No. Nix 1-7 Test No. 1 Date 6-5-12  
 Company Midwestern Exploration Co. Elevation 3032 KB 3021 GL  
 Address 3500 S. Boulevard Ste 2B Edmond OK 73013 5487  
 Co. Rep / Geo. Tom W Rig Duke #6  
 Location: Sec. 7 Twp. 35 Rge. 35 Co. Stephens State KS

Interval Tested 6525-6580 Zone Tested Chastey Sand  
 Anchor Length 55 Drill Pipe Run 6165 Mud Wt. 9.1  
 Top Packer Depth 6520 Drill Collars Run 363 Vis 45  
 Bottom Packer Depth 6525 Wt. Pipe Run 0 Wt. 7.2  
 Total Depth 6580 Chlorides N/A ppm System LCM B

Blow Description IF - Weak surface blow  
ISF - No blow back  
FF - Weak building blow 3" into bucket.  
PSI - No blow back

Rec.	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>GIP</u>				
<u>15</u>	<u>50CM</u>	<u>Total</u>		<u>100</u>	
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 146 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>3379</u>	<input type="checkbox"/> Test <u>1450</u>	T-On Location <u>10 45 AM</u>
(B) First Initial Flow <u>28</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>11 30 AM</u>
(C) First Final Flow <u>40</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2 00 PM</u>
(D) Initial Shut-In <u>271</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6 30 PM</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9 30 PM</u>
(F) Second Final Flow <u>27</u>	<input type="checkbox"/> Mileage <u>70 round</u> 108.50	Comments
(G) Final Shut-In <u>288</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2928</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>120</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>150</u>	Total <u>2283.50</u>
	Sub Total <u>2283.50</u>	MP/DST Disc't

Approved By Billy [Signature] Our Representative [Signature]

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