



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530

ATTN: Brad Rine

Horacek A #2

13-23s-21w Hodgeman,KS

Start Date: 2018.06.28 @ 21:17:00

End Date: 2018.06.29 @ 09:52:40

Job Ticket #: 64452 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.06.29 @ 11:37:32



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DRILL STEM TEST REPORT

Carmen Schmitt Inc
 PO Box 47
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 ATTN: Brad Rine

13-23s-21w Hodgeman, KS
Horacek A #2
 Job Ticket: 64452 **DST#: 1**
 Test Start: 2018.06.28 @ 21:17:00

GENERAL INFORMATION:

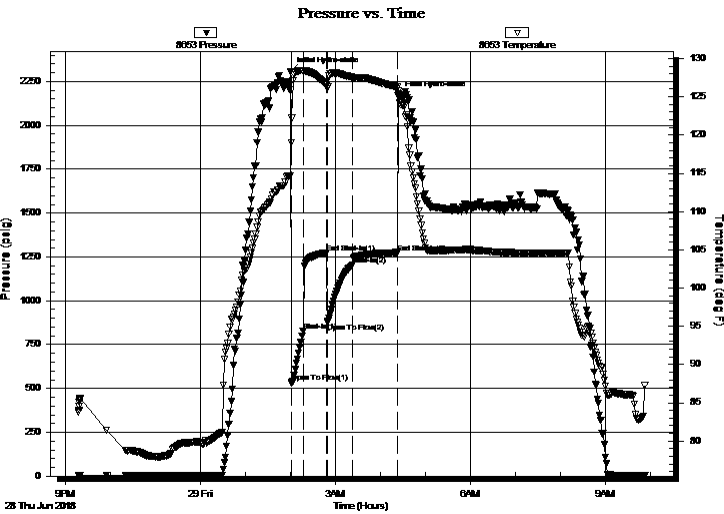
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:01:10
 Time Test Ended: 09:52:40
 Interval: **4565.00 ft (KB) To 4594.00 ft (KB) (TVD)**
 Total Depth: 4594.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cade Gerhard
 Unit No: 65
 Reference Elevations: 2331.00 ft (KB)
 2321.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8653

Inside

Press@RunDepth: 1205.46 psig @ 4566.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.28 End Date: 2018.06.29 Last Calib.: 2018.06.29
 Start Time: 21:17:01 End Time: 09:52:40 Time On Btm: 2018.06.29 @ 02:00:09
 Time Off Btm: 2018.06.29 @ 04:23:20

TEST COMMENT: IF-15- Very strong blow ; BOB in 30 sec
 ISI-30- Good blow back; Built to 7"
 FF-45- Very strong blow ; BOB in 30 sec
 FSI-60- Very strong blow back; BOB in 2 min



PRESSURE SUMMARY

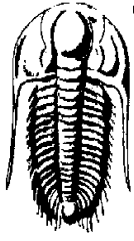
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.32	114.69	Initial Hydro-static
2	534.63	119.04	Open To Flow (1)
17	827.29	128.37	Shut-In(1)
49	1273.94	126.55	End Shut-In(1)
49	874.95	126.03	Open To Flow (2)
83	1205.46	127.51	Shut-In(2)
143	1275.04	126.24	End Shut-In(2)
144	2171.06	125.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2000.00	CGO 10%G 90%O	28.35
1150.00	MCO 90%O 10%M	16.30
0.00	1134' GIP	0.00

Gas Rates

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



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Horacek A #2
Job Ticket: 64452 **DST#: 1**
Test Start: 2018.06.28 @ 21:17:00

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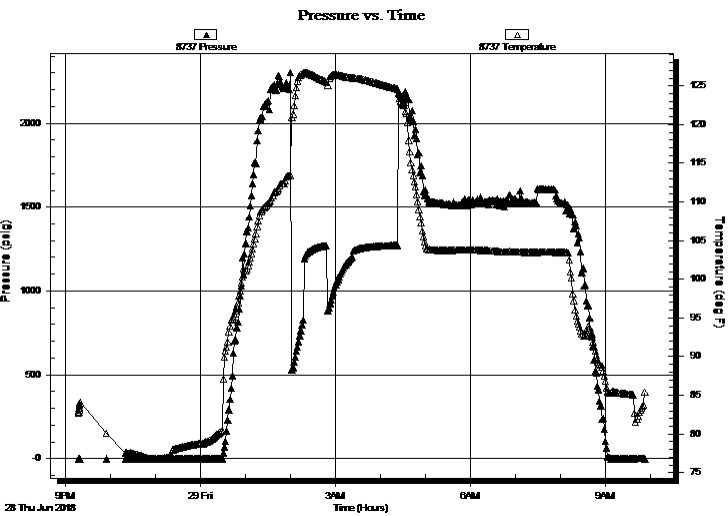
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:01:10
Time Test Ended: 09:52:40
Interval: **4565.00 ft (KB) To 4594.00 ft (KB) (TVD)**
Total Depth: 4594.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Cade Gerhard
Unit No: 65
Reference Elevations: 2331.00 ft (KB)
2321.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 4566.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.06.28 End Date: 2018.06.29 Last Calib.: 2018.06.29
Start Time: 21:17:01 End Time: 09:52:40 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-15- Very strong blow; BOB in 30 sec
ISI-30- Good blow back; Built to 7"
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PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2000.00	CGO 10%G 90%O	28.35
1150.00	MCO 90%O 10%M	16.30
0.00	1134' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-23s-21w Hodgeman,KS
Horacek A #2
Job Ticket: 64452 **DST#: 1**
Test Start: 2018.06.28 @ 21:17:00

Tool Information

Drill Pipe:	Length: 4548.00 ft	Diameter: 3.82 inches	Volume: 64.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 64.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4565.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 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			4538.00	
Shut In Tool	5.00			4543.00	
Hydraulic tool	5.00			4548.00	
Jars	5.00			4553.00	
Safety Joint	3.00			4556.00	
Packer	5.00			4561.00	28.00 Bottom Of Top Packer
Packer	4.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	8653	Inside	4566.00	
Recorder	0.00	8737	Outside	4566.00	
Perforations	25.00			4591.00	
Bullnose	3.00			4594.00	29.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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FLUID SUMMARY

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13-23s-21w Hodgeman,KS
Horacek A #2
Job Ticket: 64452 **DST#: 1**
Test Start: 2018.06.28 @ 21:17:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8500.00 ppm		
Filter Cake: inches		

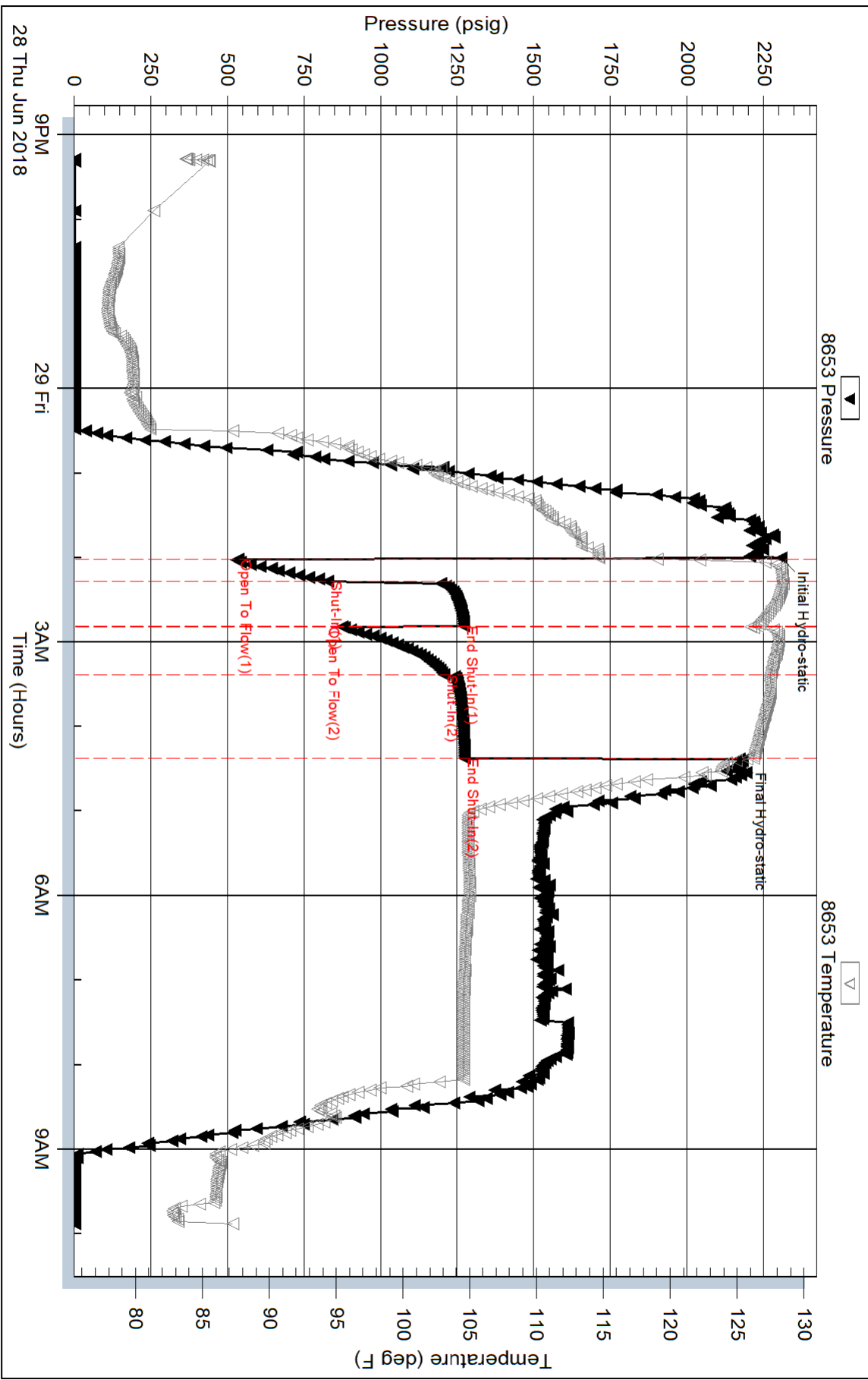
Recovery Information

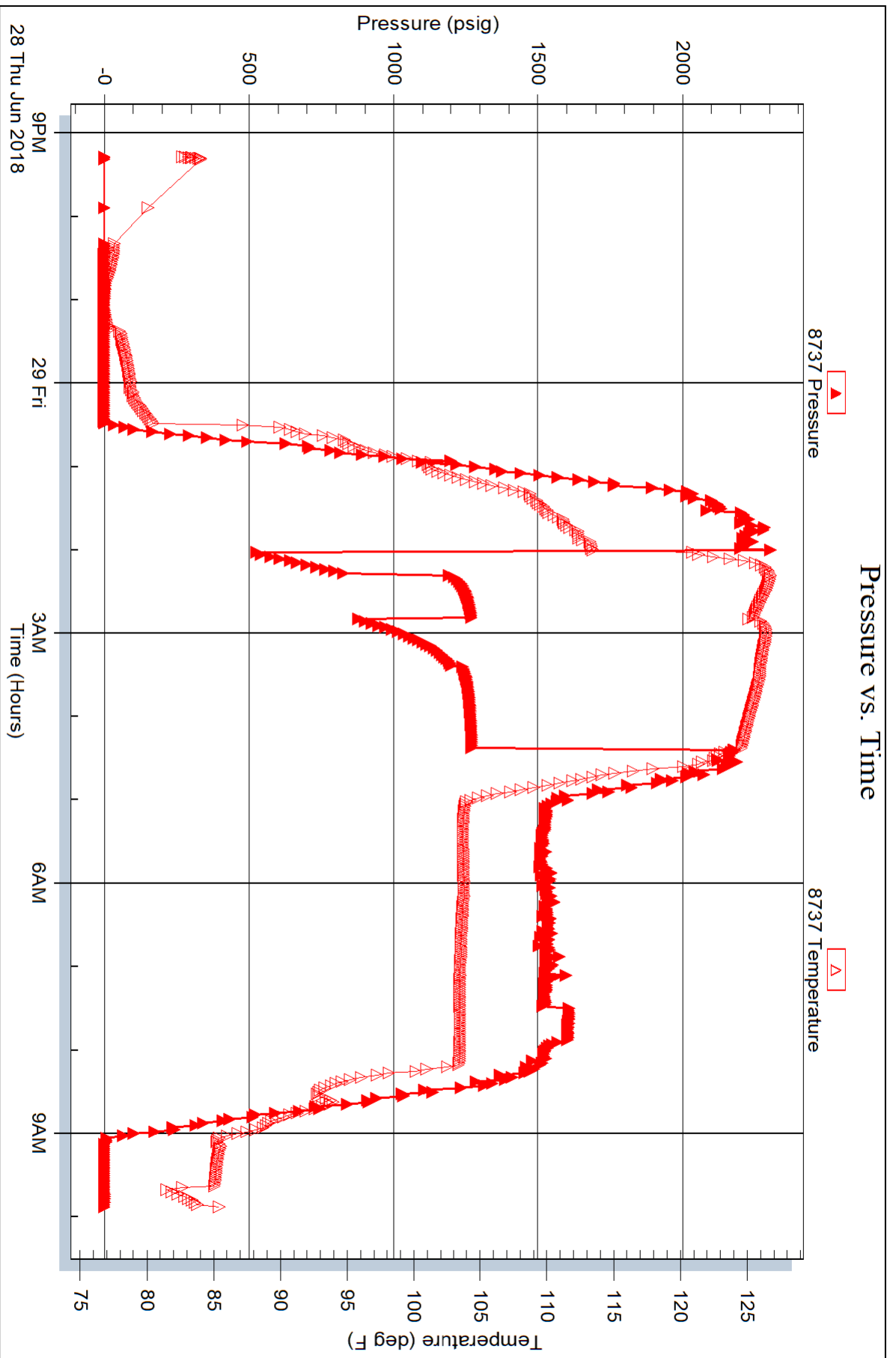
Recovery Table

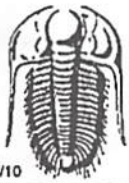
Length ft	Description	Volume bbl
2000.00	CGO 10%G 90%O	28.351
1150.00	MCO 90%O 10%M	16.302
0.00	1134' GIP	0.000

Total Length: 3150.00 ft Total Volume: 44.653 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: LCM - 1#

Pressure vs. Time







TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64452

Well Name & No. Haracek A #2 Test No. 1 Date 6-28-18
 Company Carmen Schmitt, Inc. Elevation 2331 KB 2321 GL
 Address PO BOX 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #9
 Location: Sec. 13 Twp 23^s Rge. 21^w Co. Hodgeman State KS

Interval Tested 4565-4594 Zone Tested Mississippi
 Anchor Length 29' Drill Pipe Run ~~4534~~ 4548 Mud Wt. 9.2
 Top Packer Depth 4560 Drill Collars Run - Vls 57
 Bottom Packer Depth 4565 Wt. Pipe Run - WL 12.0
 Total Depth 4594 Chlorides 8560 ppm System LCM 1#

Blow Description IF - Very Strong blow; BOB in 30 sec
ISI - Good blow back; built to 7"
FF - Very Strong blow; BOB in 30 sec
FSI - Very Strong blow back; BOB in 2 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>2000</u>	<u>CGO</u>	<u>10</u>	<u>90</u>		
<u>1150</u>	<u>MCO</u>		<u>90</u>		<u>10</u>
	<u>1,134' GIP</u>				

Rec Total 3,150' BHT 126° Gravity 40 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2308</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>20:39</u>
(B) First Initial Flow <u>534</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>21:17</u>
(C) First Final Flow <u>827</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>02:00</u>
(D) Initial Shut-In <u>1237</u>	<input checked="" type="checkbox"/> Circ Sub 50	T-Pulled <u>04:23</u>
(E) Second Initial Flow <u>874</u>	<input type="checkbox"/> Hourly Standby 2h 160	T-Out <u>09:52</u>
(F) Second Final Flow <u>1205</u>	<input checked="" type="checkbox"/> Mileage <u>152 RT</u> 118rt	Comments <u>told on bank at 22:00</u>
(G) Final Shut-In <u>1275</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2171</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2053</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2053</u>	

Approved By _____ Our Representative Leide Leckard

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