



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

B5 Operating Co
PO Box 45
Wellington, KS 67152
ATTN: Mitch Bartleson

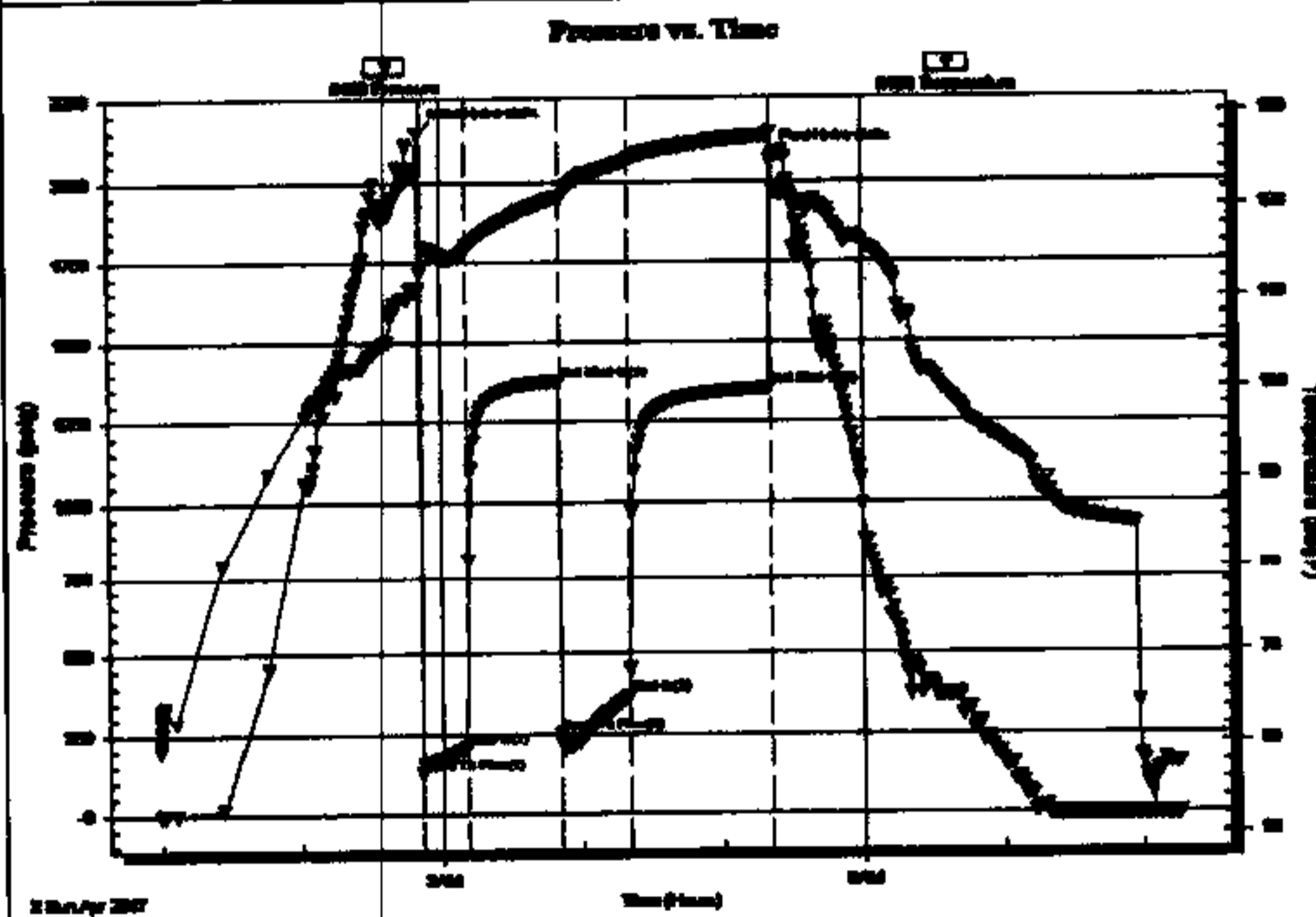
10-33S-13W Sumner, KS
Simons Bros Unit #4
Job Ticket: 59932 **DST#: 1**
Test Start: 2017.04.02 @ 00:59:05

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 02:51:20
Time Test Ended: 08:15:50
Interval: **4037.00 ft (KB) To 4047.00 ft (KB) (TVD)**
Total Depth: **4047.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Leal Cason**
Unit No: **74**
Reference Elevations: **1187.00 ft (KB)**
1182.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8159 **Inside**
Press@RunDepth: **376.06 psig @ 4038.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2017.04.02** End Date: **2017.04.02** Last Calib.: **2017.04.02**
Start Time: **00:59:06** End Time: **08:15:50** Time On Btm: **2017.04.02 @ 02:50:20**
Time Off Btm: **2017.04.02 @ 05:21:20**

TEST COMMENT: IF: Strong Blow, BOB in 1 minute, GTS in 14 minutes, Gauged Gas
IS: BOB Blow Back in 16 minutes
FF: Strong Blow, BOB in 30 seconds, GTS immediate, Gauged Gas
FS: BOB Blow Back in 22 minutes



PRESSURE SUMMARY

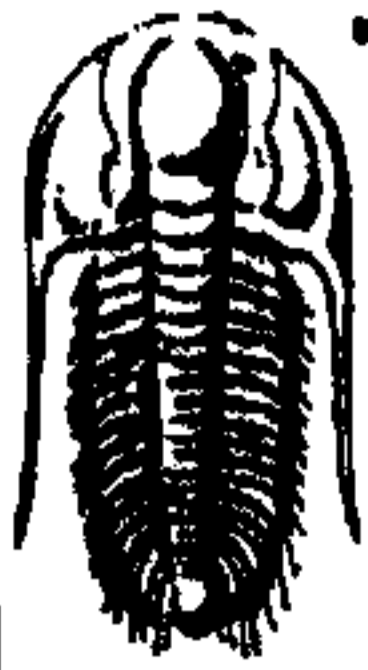
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.75	110.85	Initial Hydro-static
1	130.57	112.66	Open To Flow (1)
21	212.57	115.32	Shut-In(1)
61	1376.51	121.10	End Shut-In(1)
61	255.40	120.78	Open To Flow (2)
90	376.06	124.99	Shut-In(2)
151	1352.24	127.53	End Shut-In(2)
151	2068.52	127.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3200 GIP	0.00
180.00	Water	1.45
62.00	MWCO 30%M 30%W 40%O	0.87
186.00	GMCO 20%G 20%M 60%O	2.61
392.00	GSY Oil 30%G 70%O	5.50

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	14.00	10.63
Last Gas Rate	0.13	22.00	13.62
Max. Gas Rate	0.13	22.00	13.62



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TOOL DIAGRAM

B5 Operating Co

10-33S-13W Sumner, KS

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Simons Bros Unit #4

Job Ticket: 59932 **DST#: 1**

ATTN: Mitch Bartleson

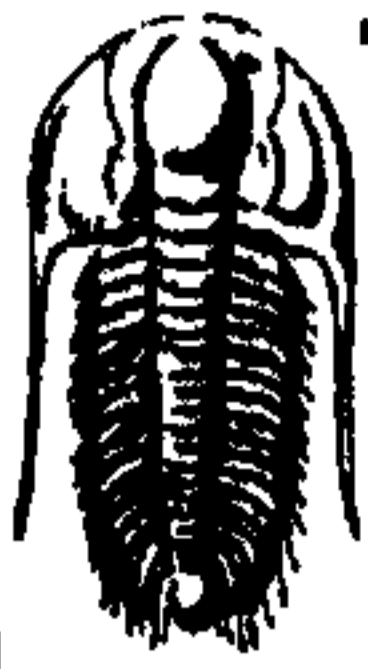
Test Start: 2017.04.02 @ 00:59:05

Tool Information

Drill Pipe:	Length: 3902.00 ft	Diameter: 3.80 inches	Volume: 54.73 bbl	Tool Weight: 2100.00 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: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4037.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.00 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			4015.00	
Hydraulic tool	5.00			4020.00	
Jars	5.00			4025.00	
Safety Joint	2.00			4027.00	
Packer - Shale	6.00			4033.00	
Packer	4.00			4037.00	27.00 Bottom Of Top Packer
Stubb	1.00			4038.00	
Recorder	0.00	8159	Inside	4038.00	
Recorder	0.00	6806	Outside	4038.00	
Perforations	6.00			4044.00	
Bullnose	3.00			4047.00	10.00 Anchor Tool

Total Tool Length: 37.00



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FLUID SUMMARY

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10-33S-13W Sumner,KS

PO Box 45
Wellington, KS 67152

Simons Bros Unit #4

Job Ticket: 59932 **DST#: 1**

ATTN: Mitch Bartleson

Test Start: 2017.04.02 @ 00:59:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 9.59 in³
Resistivity: ohm.m
Salinity: 5500.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 48 deg API
Water Salinity: 88000 ppm

Recovery Information

Recovery Table

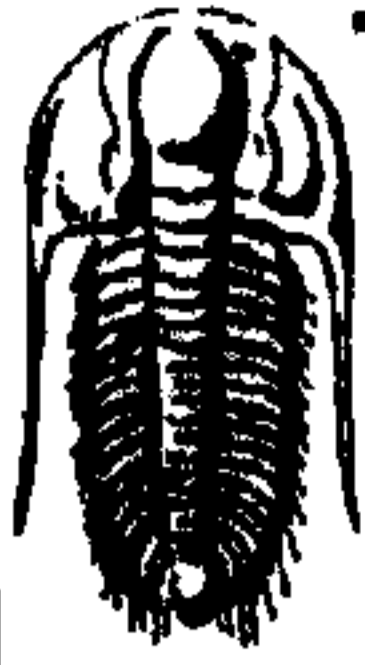
Length ft	Description	Volume bbl
0.00	3200 GIP	0.000
180.00	Water	1.450
62.00	MWCO 30%M 30%W 40%O	0.870
186.00	GMCO 20%G 20%M 60%O	2.609
392.00	GSY Oil 30%G 70%O	5.499

Total Length: 820.00 ft Total Volume: 10.428 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity was 48 @ 60 degrees
RW was .1 @ 64 degrees



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GAS RATES

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Job Ticket: 59932

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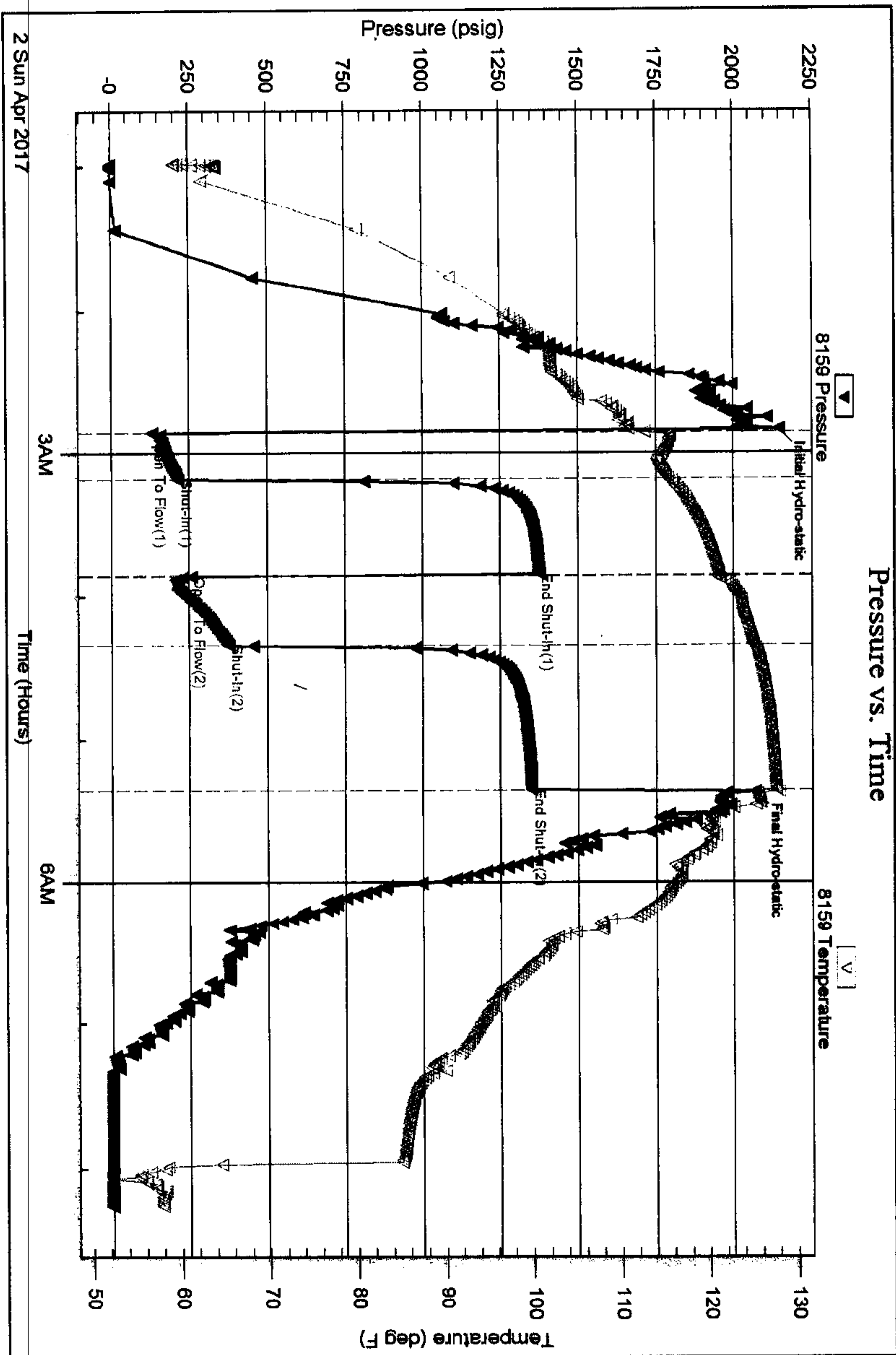
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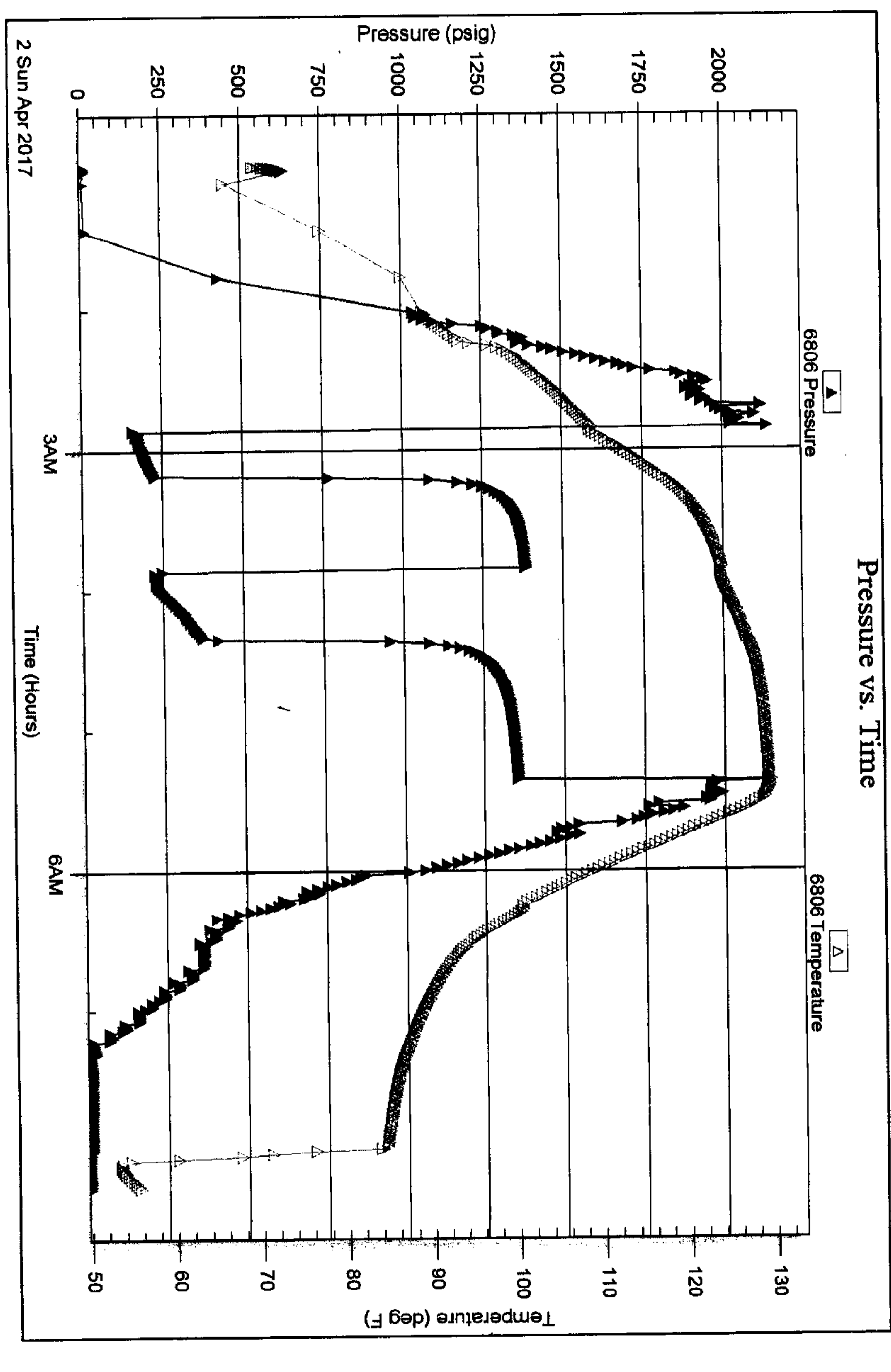
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	15	0.13	14.00	10.63
1	20	0.13	16.00	11.38
2	10	0.13	9.00	8.76
2	20	0.13	16.00	11.38
2	30	0.13	22.00	13.62







TRIOBITE TESTING INC.
 1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket
 NO. 59932

Well Name & No. Simons Bros Unit 44 Test No. 1 Date 04/02/17
 Company B5 operating co Elevation 1187 KB 1182 GL
 Address Po Box 45 Wellington, KS 67152
 Co. Rep / Geo. Mitch Bartleson Rig WLR 8
 Location: Sec. 10 Twp. 33S Rge. 13W Co. Sumner State KS

Interval Tested 4037 - 4047 Zone Tested Mississippi
 Anchor Length 10 Drill Pipe Run 3902 Mud Wt. 9.6
 Top Packer Depth 4032 Drill Collars Run 118 Vis 4.7
 Bottom Packer Depth 4037 Wt. Pipe Run 0 WL 9.6
 Total Depth 4047 Chlorides 5500 ppm System LCM 1.5

Blow Description IF: Strong Blow, BOB in 1 minute, GTS in 14 minutes, Gauged Gas
ISI: BOB Blow Back in 16 minutes
FF: Strong Blow, BOB in 30 seconds, GTS immediate, Gauged Gas
FSL: BOB Blow Back in 22 minutes

Rec	Feet of	%gas	%oil	%water	%sand
<u>3200</u>	Feet of <u>GIP</u>				
<u>392</u>	Feet of <u>oil</u>	<u>30%</u>	<u>70%</u>		
<u>186</u>	Feet of <u>GMCO</u>	<u>20%</u>	<u>60%</u>		<u>20%</u>
<u>62</u>	Feet of <u>MWCO</u>		<u>40%</u>	<u>30%</u>	<u>30%</u>
<u>180</u>	Feet of <u>water</u>				
Rec Total <u>820</u>	BHT <u>127</u>	Gravity <u>48</u>	API RW <u>.1</u>	@ <u>64</u> °F	Chlorides <u>5500</u> ppm

(A) Initial Hydrostatic 2146
 (B) First Initial Flow 131
 (C) First Final Flow 213
 (D) Initial Shut-In 137.7
 (E) Second Initial Flow 255
 (F) Second Final Flow 376
 (G) Final Shut-In 1352
 (H) Final Hydrostatic 2068

Initial Open 20
 Initial Shut-In 40
 Final Flow 30
 Final Shut-In 60

Test 1150
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 180 135
 Sampler
 Straddle
 Shale Packer 250
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1860

T-On Location 00:15
 T-Started 00:59
 T-Open 02:51
 T-Pulled 05:20
 T-Out 07:15
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1860
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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