



DRILL STEM TEST REPORT

Prepared For: **Prater Oil & Gas**

1303 N Main
Pratt, KS 67124

ATTN: Austin McClain

Banks #5

36-30s-12W Barber,KS

Start Date: 2015.07.14 @ 13:55:53

End Date: 2015.07.14 @ 22:20:38

Job Ticket #: 57903 DST #: 1

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

Printed: 2015.07.15 @ 11:00:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Prater Oil & Gas

36-30s-12W Barber,KS

1303 N Main
Pratt, KS 67124

Banks #5

Job Ticket: 57903

DST#: 1

ATTN: Austin McClain

Test Start: 2015.07.14 @ 13:55:53

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:23

Time Test Ended: 22:20:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4323.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 1728.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

1717.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press@RunDepth: 97.43 psig @ 4324.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.14

End Date:

2015.07.14

Last Calib.:

2015.07.14

Start Time: 13:55:54

End Time:

22:20:38

Time On Btm:

2015.07.14 @ 16:01:08

Time Off Btm:

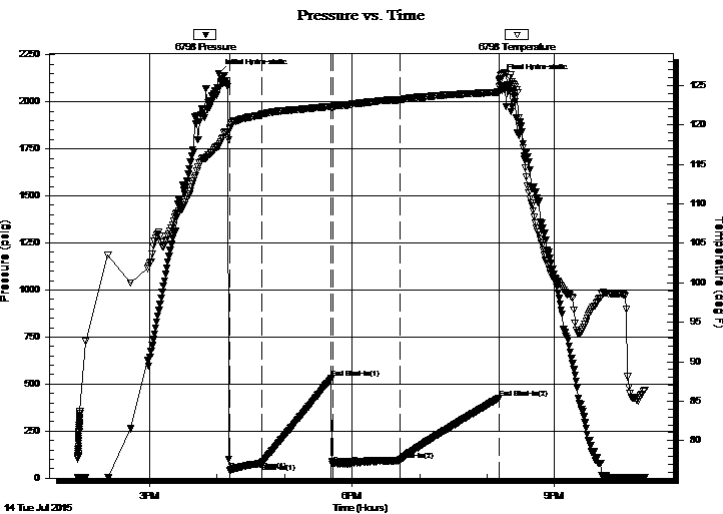
2015.07.14 @ 20:11:23

TEST COMMENT: IF: Strong Blow , BOB in 3 1/2 minutes

IS: No Blow Back

FF: Strong Blow , BOB Immediate

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.62	117.29	Initial Hydro-static
11	42.64	119.63	Open To Flow (1)
39	77.64	121.29	Shut-In(1)
101	530.71	122.35	End Shut-In(1)
102	75.35	122.11	Open To Flow (2)
162	97.43	123.18	Shut-In(2)
250	426.06	124.15	End Shut-In(2)
251	2123.03	125.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1637 GIP	0.00
186.00	GWOCM 20%G 14%W 16%O 50%M	1.20
82.00	GCM 5%G 95%M	1.15

Gas Rates

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



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1717.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4324.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.14

End Date:

2015.07.14

Last Calib.:

2015.07.14

Start Time: 13:55:54

End Time:

22:20:38

Time On Btm:

Time Off Btm:

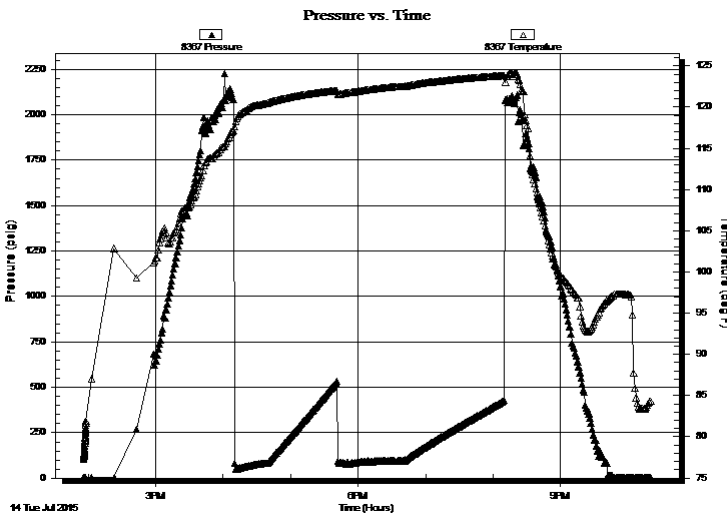
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PRESSURE SUMMARY



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Recovery

Length (ft)	Description	Volume (bbl)
0.00	1637 GIP	0.00
186.00	GWOCM 20%G 14%W 16%O 50%M	1.20
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Prater Oil & Gas

36-30s-12W Barber,KS

1303 N Main
Pratt, KS 67124

Banks #5

Job Ticket: 57903

DST#: 1

ATTN: Austin McClain

Test Start: 2015.07.14 @ 13:55:53

Tool Information

Drill Pipe:	Length: 4173.00 ft	Diameter: 3.80 inches	Volume: 58.54 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: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 59.30 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4323.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	83.00 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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Shut In Tool	5.00			4302.00	
Hydraulic tool	5.00			4307.00	
Jars	5.00			4312.00	
Safety Joint	2.00			4314.00	
Packer	5.00			4319.00	26.00 Bottom Of Top Packer
Packer	4.00			4323.00	
Stubb	1.00			4324.00	
Recorder	0.00	6798	Inside	4324.00	
Recorder	0.00	8367	Outside	4324.00	
Perforations	10.00			4334.00	
Change Over Sub	1.00			4335.00	
Drill Pipe	32.00			4367.00	
Change Over Sub	1.00			4368.00	
Perforations	9.00			4377.00	
Bullnose	3.00			4380.00	57.00 Bottom Packers & Anchor

Total Tool Length: 83.00



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FLUID SUMMARY

Prater Oil & Gas

36-30s-12W Barber,KS

1303 N Main
Pratt, KS 67124

Banks #5

Job Ticket: 57903

DST#: 1

ATTN: Austin McClain

Test Start: 2015.07.14 @ 13:55:53

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: 76000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1637 GIP	0.000
186.00	GWOCM 20%G 14%W 16%O 50%M	1.197
82.00	GCM 5%G 95%M	1.150

Total Length: 268.00 ft Total Volume: 2.347 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .09 @ 80 degrees

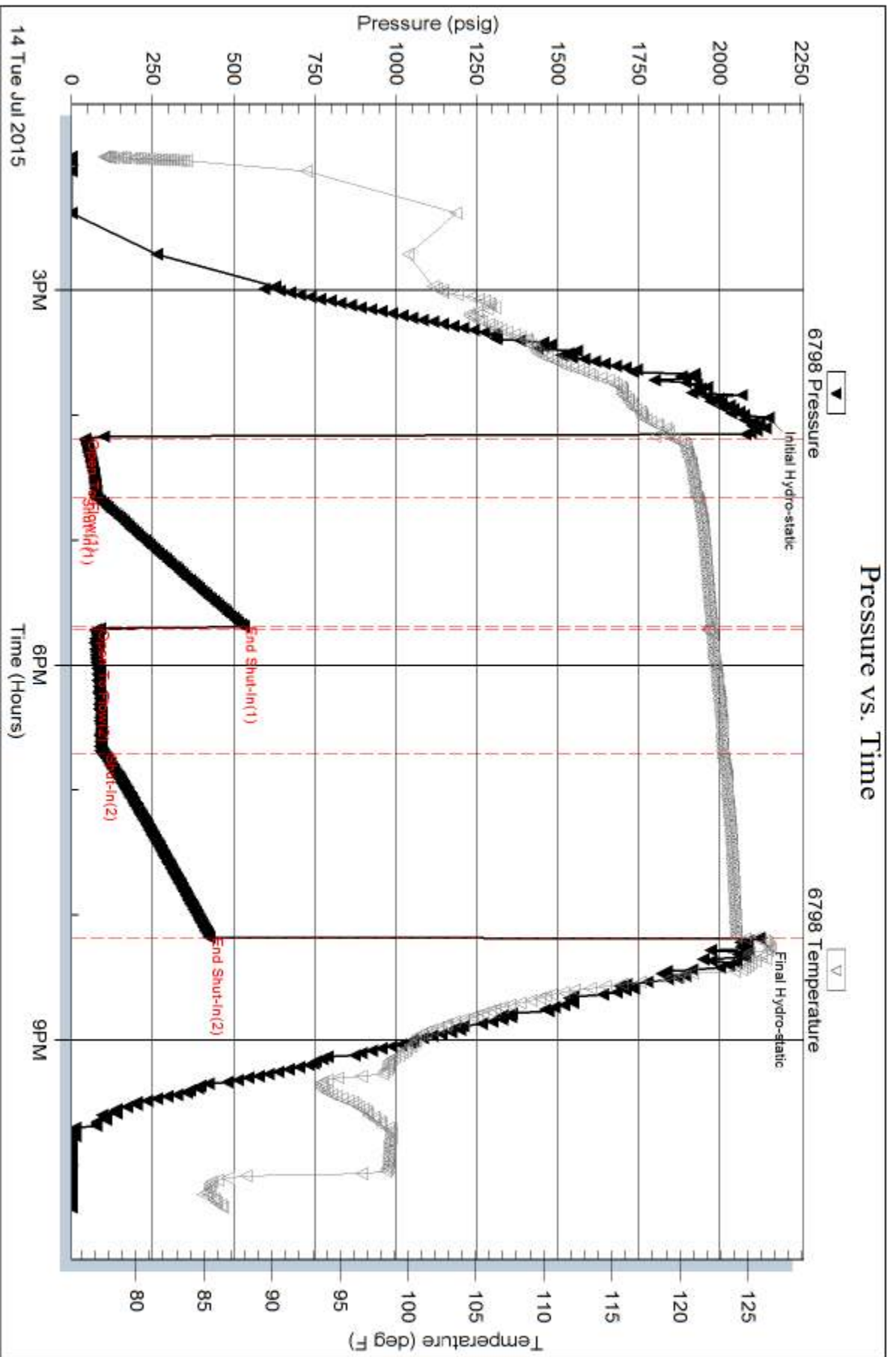
Serial #: 6798

Inside

Prater Oil & Gas

Banks #5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57903

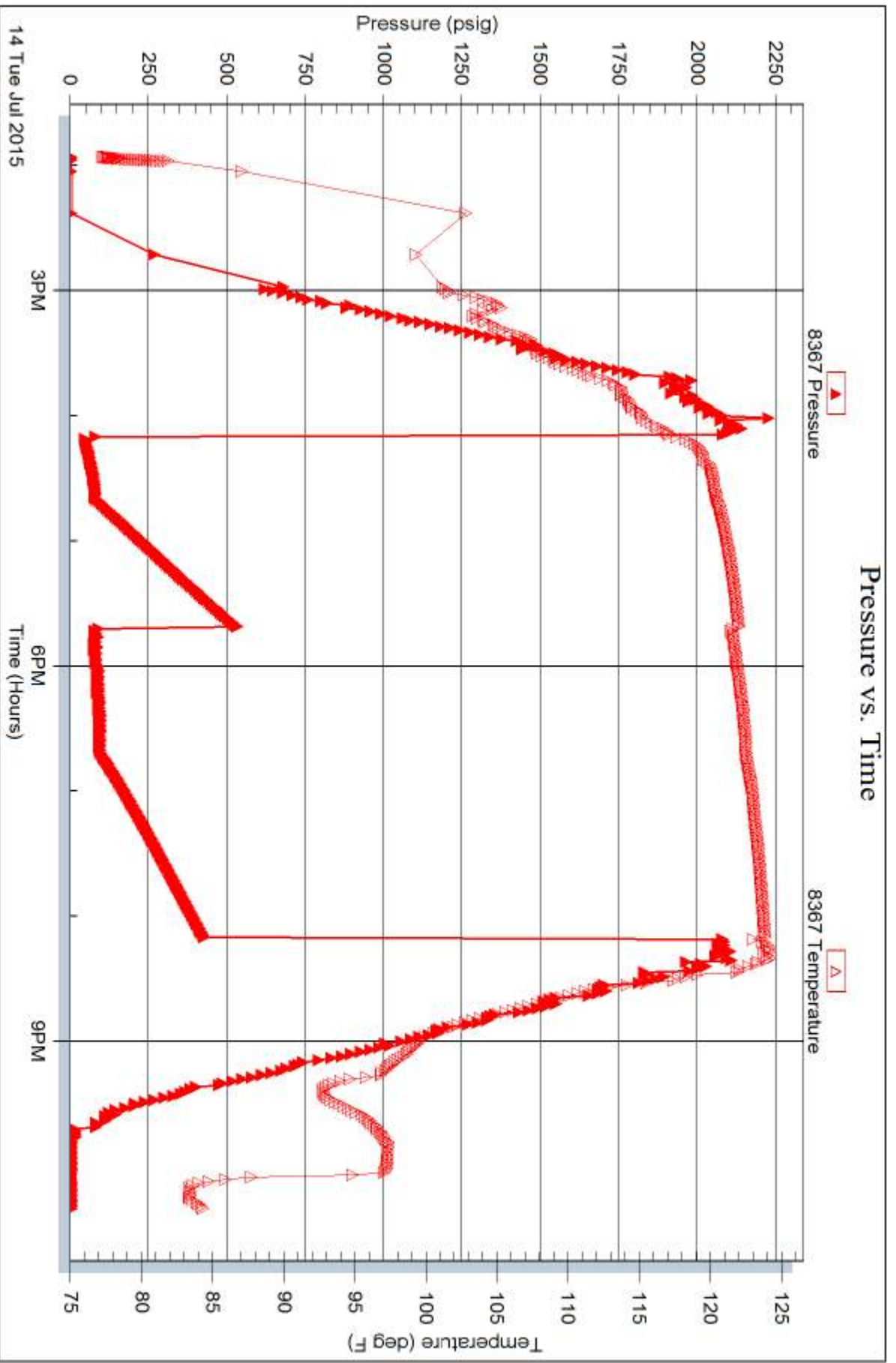
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Serial #: 8367

Outside Prater Oil & Gas

Banks #5

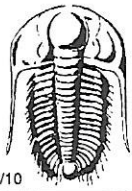
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57903

Printed: 2015.07.15 @ 11:00:57



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57903

Well Name & No. ~~Prater Oil & Gas~~ ~~Prater Oil & Gas~~ ~~Prater Oil & Gas~~ Banks 5 Test No. 1 Date 07/14/15
 Company Prater Oil & Gas Elevation 1728 KB 1717 GL
 Address 1303 N. Main Pratt, KS 67124
 Co. Rep / Geo. Austin McClain Rig Sterling 4
 Location: Sec. 36 Twp. 305 Rge. 12 W Co. Barber State KS

Interval Tested 4323 - 4380 Zone Tested Mississippi
 Anchor Length 57 Drill Pipe Run 4173 Mud Wt. 9.1
 Top Packer Depth 4318 Drill Collars Run 155 Vis 58
 Bottom Packer Depth 4323 Wt. Pipe Run 0 WL 12.8
 Total Depth 4380 Chlorides 4000 ppm System LCM

Blow Description IF: Strong Blow, BOB in 3 1/2 minutes
FSI: NO BLOW BACK

FF: Strong Blow, BOB immediate

FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
1637	GTP				
82	GCM	5			95
186	G WOCM	20	16	14	50

Rec Total 268 BHT 124° Gravity n/c API RW .09 @ 80 ° F Chlorides 76000 ppm

(A) Initial Hydrostatic 2152 Test 1150 T-On Location 13:00
 (B) First Initial Flow 43 Jars 250 T-Started 13:55
 (C) First Final Flow 78 Safety Joint 75 T-Open 16:11
 (D) Initial Shut-In 531 Circ Sub T-Pulled 20:10
 (E) Second Initial Flow 73 Hourly Standby T-Out 22:20
 (F) Second Final Flow 97 Mileage 60 60 Comments
 (G) Final Shut-In 426 Sampler
 (H) Final Hydrostatic 2123 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1535
 Accessibility MP/DST Disc't
 Sub Total 1535

Approved By Austin McClain Our Representative [Signature]

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