

DRILL STEM TEST REPORT

Prepared For: **Bickle Energies LLC**

PO. Box 816
Hays, KS 67601

ATTN: Garet Dinkel

Fischer 34 W Unit #1

34-5s-37w Cheyenne,KS

Start Date: 2017.03.27 @ 14:07:00

End Date: 2017.03.27 @ 21:14:30

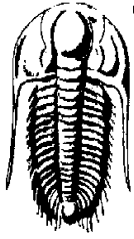
Job Ticket #: 64988 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.04 @ 09:28:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bickle Energies LLC

34-5s-37w Cheyenne,KS

PO. Box 816
Hays, KS 67601

Fischer 34 W Unit #1

Job Ticket: 64988

DST#: 1

ATTN: Garet Dinkel

Test Start: 2017.03.27 @ 14:07:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:30

Time Test Ended: 21:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4533.00 ft (KB) To 4605.00 ft (KB) (TVD)

Reference Elevations: 3327.00 ft (KB)

Total Depth: 4605.00 ft (KB) (TVD)

3319.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 26.80 psig @ 4534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27 End Date: 2017.03.27

Last Calib.: 2017.03.27

Start Time: 14:07:01 End Time: 21:14:30

Time On Btm: 2017.03.27 @ 16:55:30

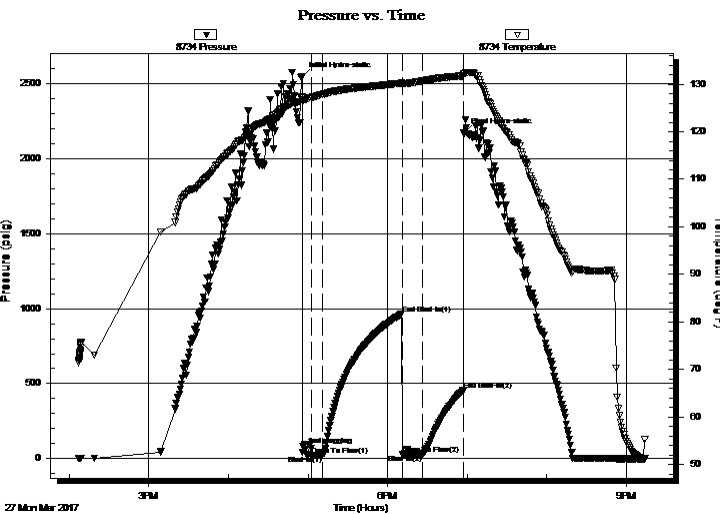
Time Off Btm: 2017.03.27 @ 18:57:30

TEST COMMENT: 15- IF- Surface blow built to 3/4"

60- IS- No blow

15- FF- No blow

30- FSI-No blow



PRESSURE SUMMARY

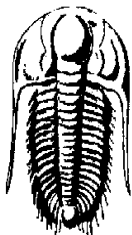
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2550.35	127.28	Initial Hydro-static
1	42.05	126.45	tool plugging
7	23.31	127.18	Open To Flow (1)
16	23.30	127.85	Shut-In(1)
76	966.17	130.23	End Shut-In(1)
76	26.76	130.00	Open To Flow (2)
91	26.80	130.68	Shut-In(2)
122	457.63	131.76	End Shut-In(2)
122	2172.17	132.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WCM 30% W,70% Mud	0.28

Gas Rates

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



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DRILL STEM TEST REPORT

Bickle Energies LLC

34-5s-37w Cheyenne, KS

PO. Box 816
Hays, KS 67601

Fischer 34 W Unit #1

Job Ticket: 64988

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Tester: Martine Salinas

Unit No: 82

Reference Elevations: 3327.00 ft (KB)

3319.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8322 Inside

Press@RunDepth: psig @ 4534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.27

Last Calib.:

1899.12.30

Start Time: 14:07:01

End Time:

21:14:30

Time On Btm:

Time Off Btm:

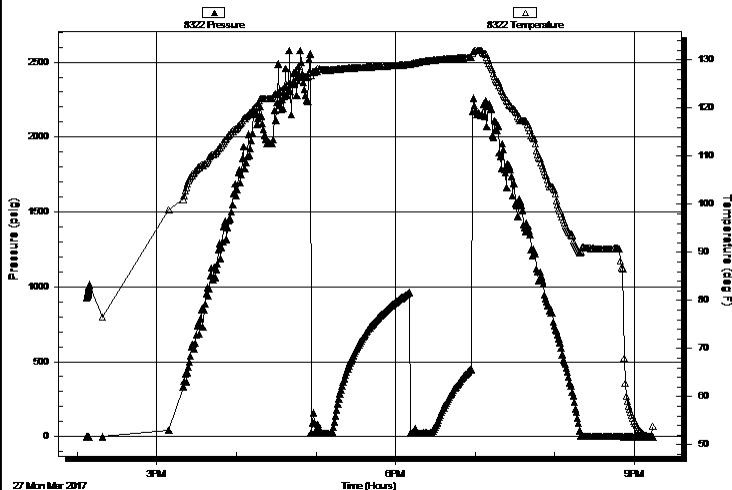
TEST COMMENT: 15- IF- Surface blow built to 3/4"

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Pressure vs. Time



PRESSURE SUMMARY

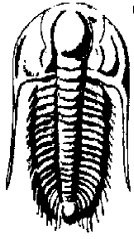
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WCM 30% W, 70% Mud	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energies LLC

34-5s-37w Cheyenne, KS

PO. Box 816
Hays, KS 67601

Fischer 34 W Unit #1

Job Ticket: 64988

DST#: 1

ATTN: Garet Dinkel

Test Start: 2017.03.27 @ 14:07:00

Tool Information

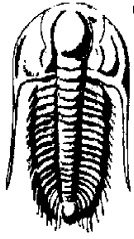
Drill Pipe:	Length: 4525.00 ft	Diameter: 3.80 inches	Volume: 63.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 63.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4533.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	100.00 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			4510.00	
Hydraulic tool	5.00			4515.00	
Jars	5.00			4520.00	
Safety Joint	3.00			4523.00	
Packer	5.00			4528.00	28.00 Bottom Of Top Packer
Packer	5.00			4533.00	
Stubb	1.00			4534.00	
Recorder	0.00	8322	Inside	4534.00	
Recorder	0.00	8734	Outside	4534.00	
Perforations	32.00			4566.00	
Change Over Sub	1.00			4567.00	
Drill Pipe	32.00			4599.00	
Change Over Sub	1.00			4600.00	
Bullnose	5.00			4605.00	72.00 Bottom Packers & Anchor

Total Tool Length: 100.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies LLC

34-5s-37w Cheyenne,KS

PO. Box 816
Hays, KS 67601

Fischer 34 W Unit #1

Job Ticket: 64988

DST#: 1

ATTN: Garet Dinkel

Test Start: 2017.03.27 @ 14:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.54 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WCM 30% W,70% Mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

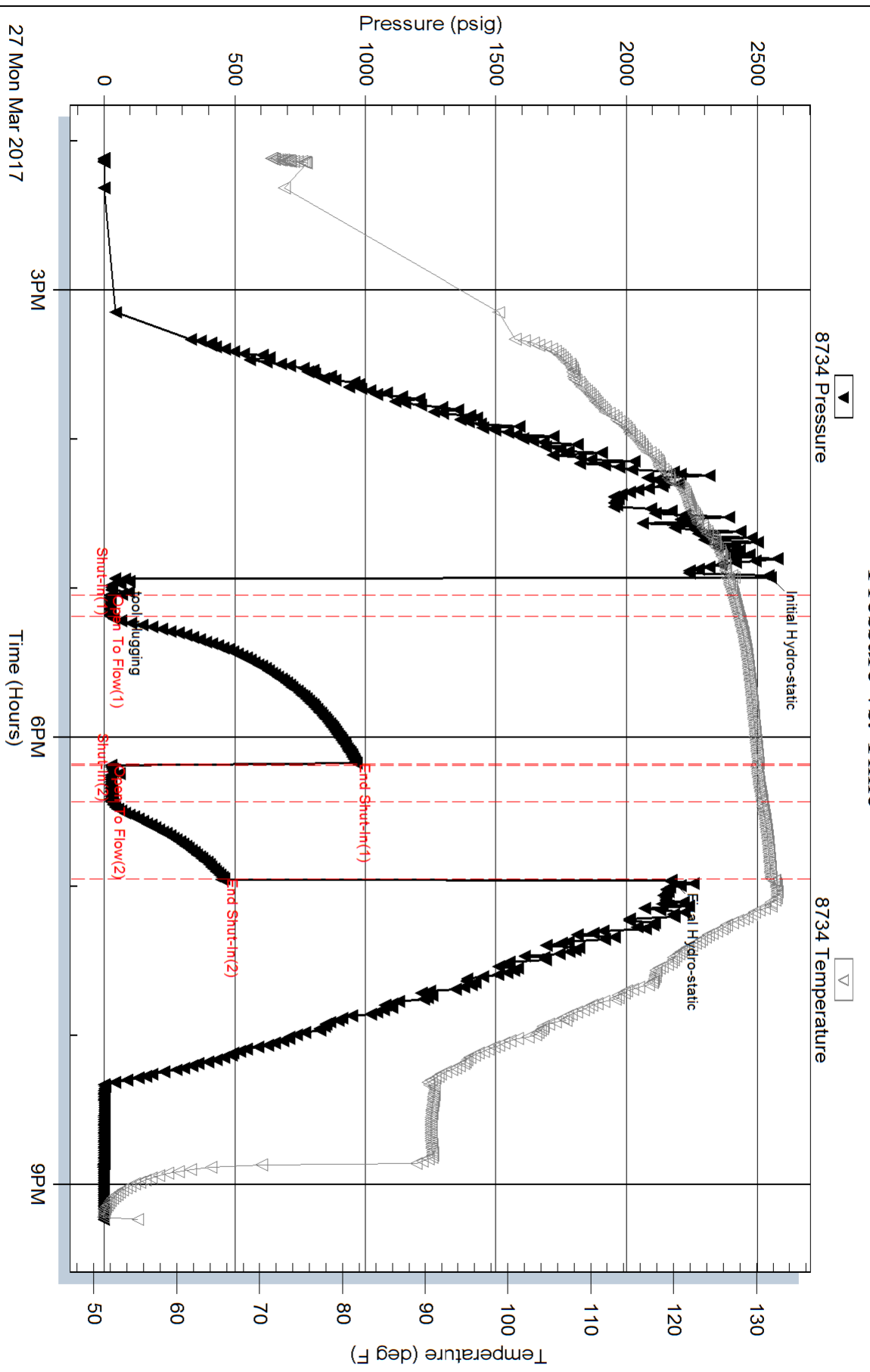
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



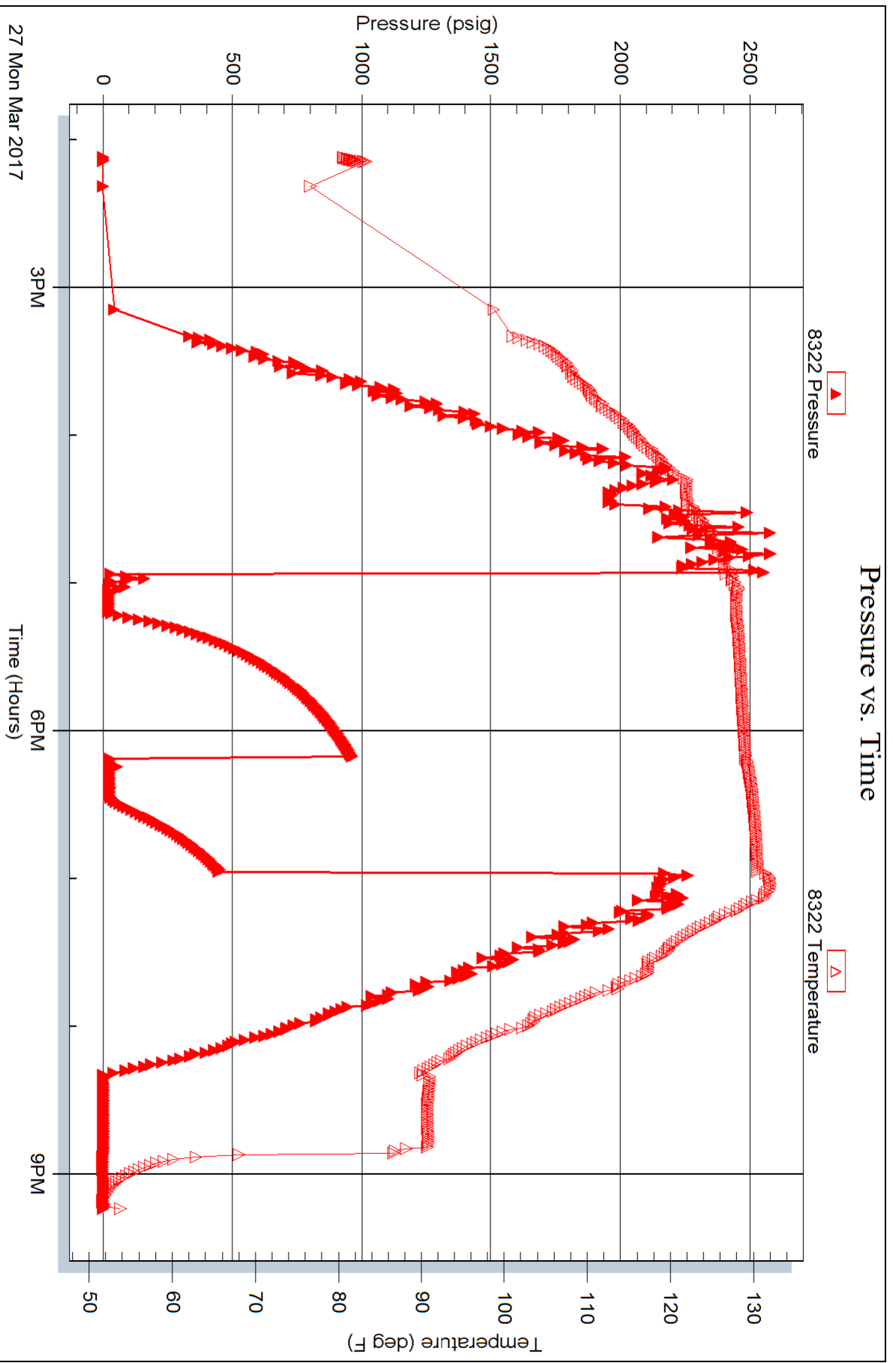
Serial #: 8322

Inside

Bickle Energies LLC

Fischer 34 W Unit #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64988**

Well Name & No. ~~La-D-Fisher~~ **Fisher - Unit 34-1** Test No. **1** Date **3-27-17**
 Company **Bickle Energies LLC.** Elevation **3327** KB **3319** GL
 Address **P.O. Box 816 Hays, KS 67601**
 Co. Rep / Geo. **Garet Dinkel** Rig **L.O. Rig #1**
 Location: Sec. **34** Twp. **5S** Rge. **37W.** Co. **Cheyenne** State **KS**

Interval Tested **4533-4605** Zone Tested **Pawnee**
 Anchor Length **72'** Drill Pipe Run **4525** Mud Wt. **9.5**
 Top Packer Depth **4528** Drill Collars Run **—** Vis **58**
 Bottom Packer Depth **4533** Wt. Pipe Run **—** WL **9.6**
 Total Depth **4605** Chlorides **3000** ppm System LCM **2#**
 Blow Description **IF: S.B. built to 3/4"**
ISI: No blow
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
20'	WCM		30	70	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total **20** BHT **132** Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic **2550** Test **1150** T-On Location **12:27**
 (B) First Initial Flow **56** Jars **250** T-Started **14:07**
 (C) First Final Flow **23** Safety Joint **75** T-Open **16:56**
 (D) Initial Shut-In **966** Circ Sub _____ T-Pulled **18:56**
 (E) Second Initial Flow **49** Hourly Standby _____ T-Out **21:15**
 (F) Second Final Flow **27** Mileage **133 RT x 2** 199.50 Comments _____
 (G) Final Shut-In **458** Sampler _____ **loaded tools 4/3 19:30**
 (H) Final Hydrostatic **2172** Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total **4800**
 Day Standby **6.5d 8.25h** Total **1674.50**
 Accessibility _____ MP/DST Disc't _____
 Sub Total **1674.50**

Approved By _____ Our Representative **[Signature]**

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785-639-2040