



DRILL STEM TEST REPORT

Prepared For: **Indian Oil Co., Inc.**

2507 S.E. U.S. 160 Hwy.
Medicine Lodge, KS 67104

ATTN: Scott Alberg

Brad SWD #1

6-35s-12w Barber,KS

Start Date: 2014.11.02 @ 18:08:13

End Date: 2014.11.03 @ 04:01:13

Job Ticket #: 59920 DST #: 1

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

Printed: 2014.11.08 @ 12:17:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Co., Inc.
 2507 S.E. U.S. 160 Hwy.
 Medicine Lodge, KS 67104
 ATTN: Scott Alberg

6-35s-12w Barber,KS
Brad SWD #1
 Job Ticket: 59920 **DST#: 1**
 Test Start: 2014.11.02 @ 18:08:13

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:29:43
 Tester: Ryan Reynolds
 Time Test Ended: 04:01:13
 Unit No: 68
Interval: 4792.00 ft (KB) To 4854.00 ft (KB) (TVD)
 Reference Elevations: 1420.00 ft (KB)
 Total Depth: 4854.00 ft (KB) (TVD)
 1409.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

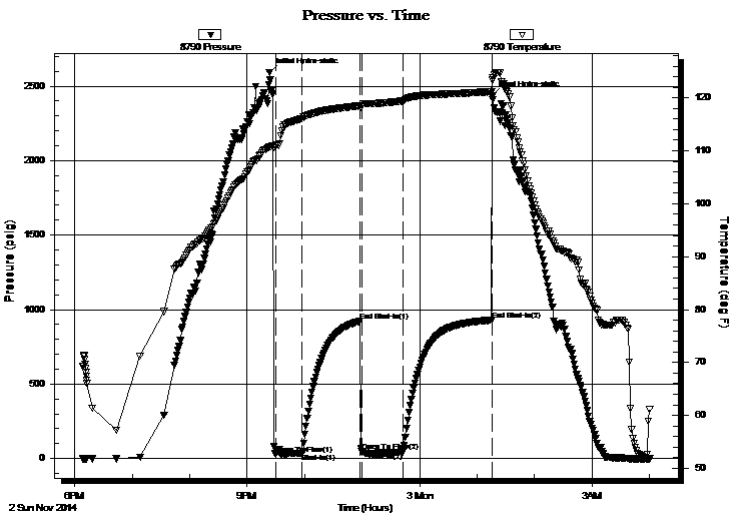
Serial #: 8790

Inside

Press@RunDepth: 41.65 psig @ 4798.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.02 End Date: 2014.11.03 Last Calib.: 2014.11.03
 Start Time: 18:08:18 End Time: 04:01:13 Time On Btm: 2014.11.02 @ 21:23:13
 Time Off Btm: 2014.11.03 @ 01:16:13

TEST COMMENT: IF: Strong blow . BOB @ 2 min.
 IS: No blow .
 FF: Strong blow . BOB immed. GTS @ 43 min. TSTM.
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2592.09	110.79	Initial Hydro-static
7	30.13	110.90	Open To Flow (1)
35	35.43	116.14	Shut-In(1)
95	922.02	118.55	End Shut-In(1)
97	47.65	118.32	Open To Flow (2)
140	41.65	119.43	Shut-In(2)
232	929.70	121.18	End Shut-In(2)
233	2435.84	123.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OGCM 7%o, 9%g, 84%m	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



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Indian Oil Co., Inc.
2507 S.E. U.S. 160 Hwy.
Medicine Lodge, KS 67104

ATTN: Scott Alberg

6-35s-12w Barber, KS
Brad SWD #1
Job Ticket: 59920 **DST#: 1**
Test Start: 2014.11.02 @ 18:08:13

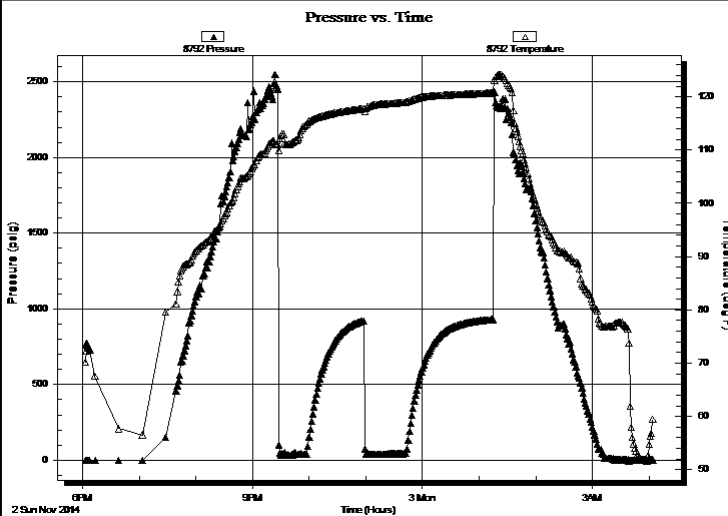
GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 21:29:43 Tester: Ryan Reynolds
Time Test Ended: 04:01:13 Unit No: 68
Interval: 4792.00 ft (KB) To 4854.00 ft (KB) (TVD) Reference Elevations: 1420.00 ft (KB)
Total Depth: 4854.00 ft (KB) (TVD) 1409.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 4798.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.02 End Date: 2014.11.03 Last Calib.: 2014.11.03
Start Time: 18:03:09 End Time: 04:04:19 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB @ 2 min.
IS: No blow .
FF: Strong blow . BOB immed. GTS @ 43 min. TSTM.
FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OGCM 7%o, 9%g, 84%m	0.91

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m³/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Indian Oil Co., Inc.
2507 S.E. U.S. 160 Hwy.
Medicine Lodge, KS 67104
ATTN: Scott Alberg

6-35s-12w Barber,KS
Brad SWD #1
Job Ticket: 59920 **DST#: 1**
Test Start: 2014.11.02 @ 18:08:13

Tool Information

Drill Pipe:	Length: 4794.00 ft	Diameter: 3.80 inches	Volume: 67.25 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4792.00 ft			Final 63500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4766.00	
Shut In Tool	5.00			4771.00	
Hydraulic tool	5.00			4776.00	
Jars	5.00			4781.00	
Safety Joint	2.00			4783.00	
Packer	5.00			4788.00	27.00 Bottom Of Top Packer
Packer	4.00			4792.00	
Stubb	1.00			4793.00	
Perforations	4.00			4797.00	
Change Over Sub	1.00			4798.00	
Recorder	0.00	8790	Inside	4798.00	
Recorder	0.00	8792	Outside	4798.00	
Drill Pipe	32.00			4830.00	
Change Over Sub	1.00			4831.00	
Perforations	20.00			4851.00	
Bullnose	3.00			4854.00	62.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co., Inc.

6-35s-12w Barber,KS

2507 S.E. U.S. 160 Hwy.
Medicine Lodge, KS 67104

Brad SWD #1

Job Ticket: 59920

DST#: 1

ATTN: Scott Alberg

Test Start: 2014.11.02 @ 18:08:13

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:

4000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OGCM 7%o, 9%g, 84%m	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

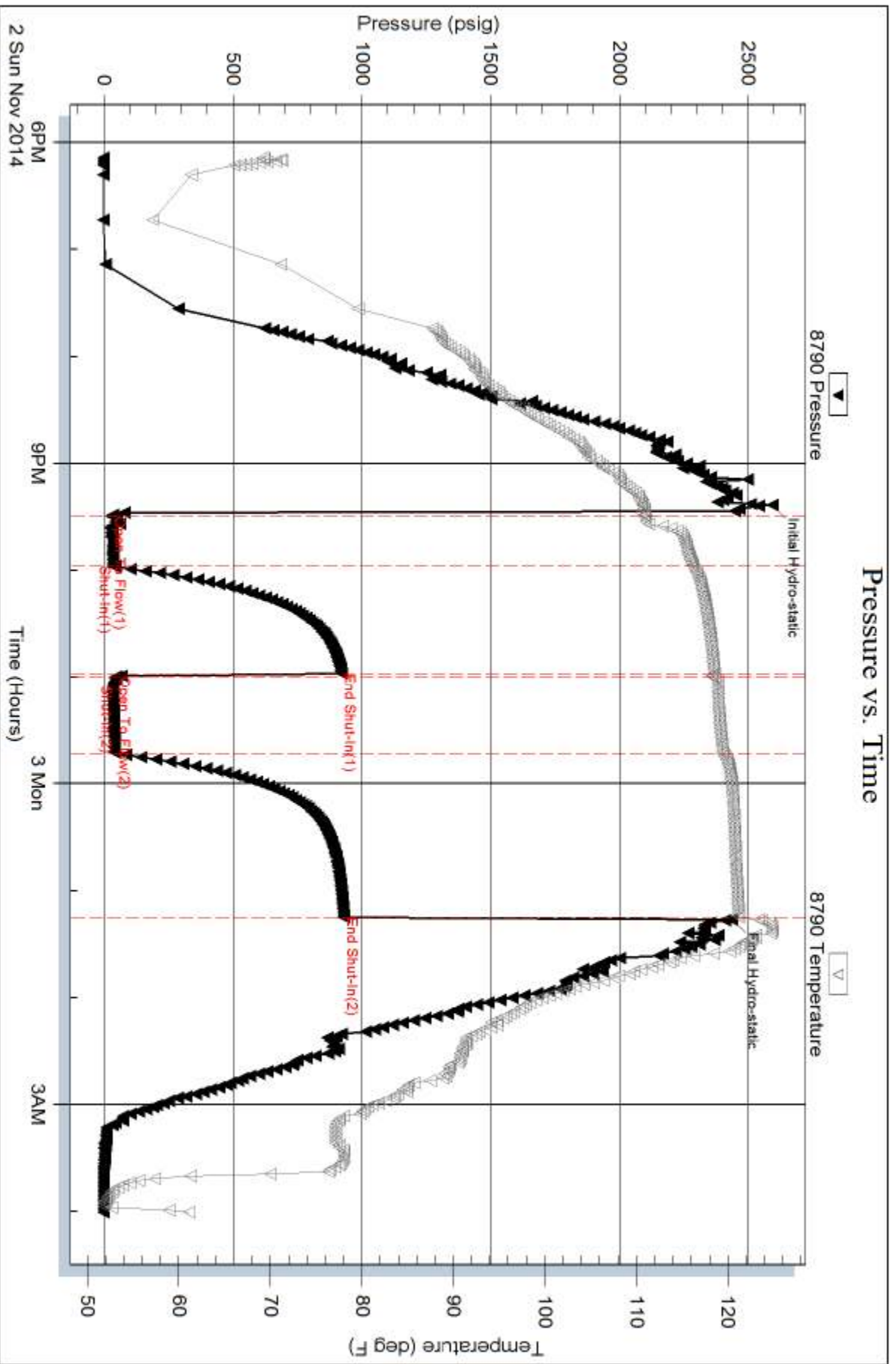
Inside

Indian Oil Co., Inc.

Brad SWD #1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59920

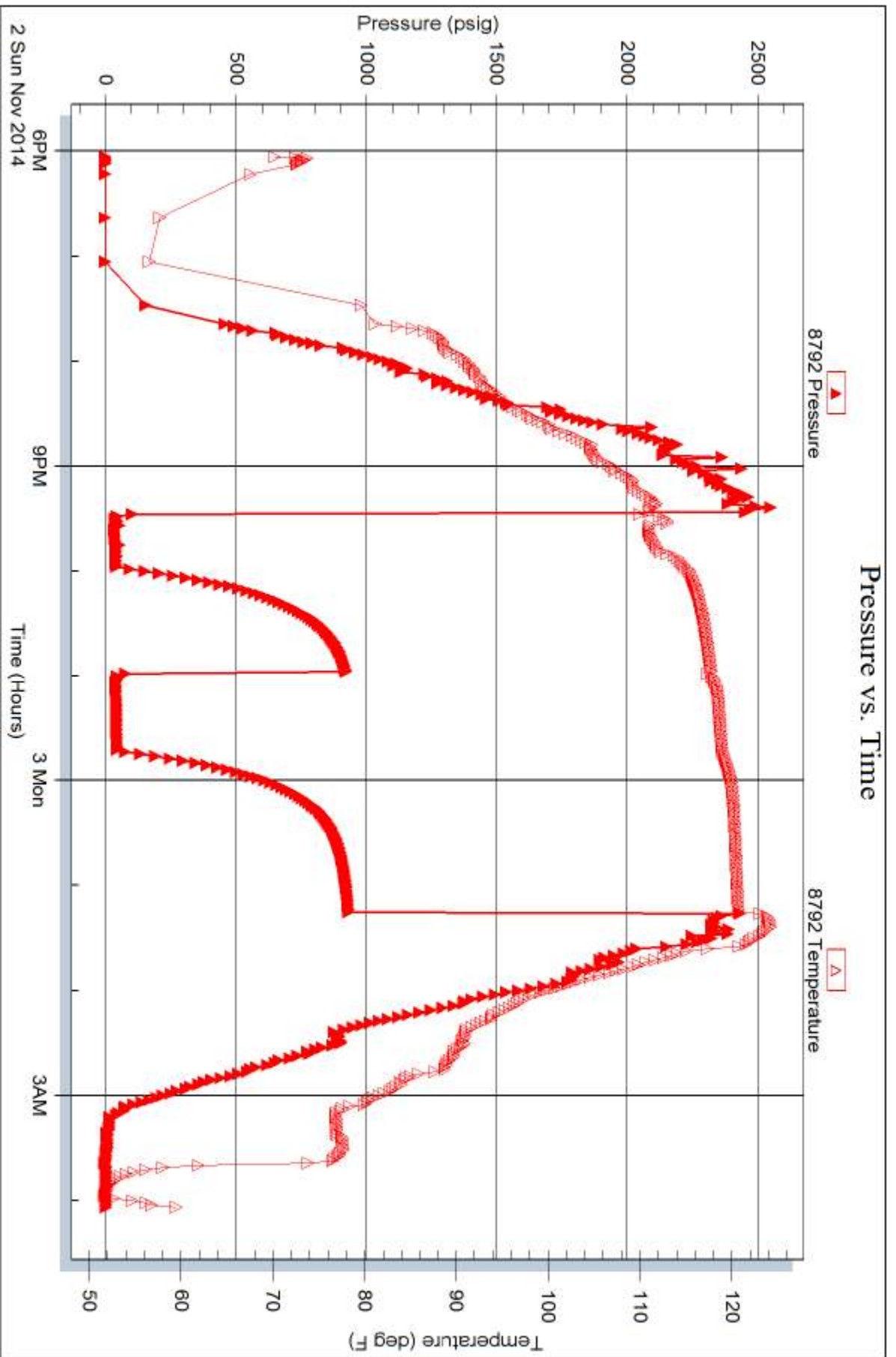
Printed: 2014.11.08 @ 12:17:28

Serial #: 8792

Outside Indian Oil Co., Inc.

Brad SMD #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59920

Printed: 2014.11.08 @ 12:17:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59920

4/10

Well Name & No. Brad SWD #1 Test No. 1 Date 11-2-14
 Company Indian Oil Co., Inc. Elevation 1420 KB 1409 GL
 Address 2507 S.E. U.S. 160 Hwy. Medicine Lodge, KS 67104
 Co. Rep / Geo. Scott Alberg Rig Val #5
 Location: Sec. 6 Twp. 35s Rge. 12w Co. Barber State KS

Interval Tested 4792-4854 Zone Tested Miss.
 Anchor Length 62' Drill Pipe Run 4794 Mud Wt. 9.42
 Top Packer Depth 4787 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 4792 Wt. Pipe Run 0 WL 9.6
 Total Depth 4854 Chlorides 4000 ppm System LCM 6#
 Blow Description IF: Strong blow. BOB @ 2min. ISI: No blow
FF: Strong blow. BOB immed. GTS @ 43min. TSTM
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>DGLM</u>	<u>9</u>	<u>7</u>	<u>-</u>	<u>84</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 121 Gravity N/P API RW N/P @ N/P °F Chlorides 4000 ppm
 Test 1250 T-On Location 1630
 Jars 250 T-Started 1808
 Safety Joint 75 T-Open 2130
 Circ Sub T-Pulled 0118
 Hourly Standby T-Out 0401
 Mileage 124 192.20 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1767.20 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90
 Approved By [Signature] Our Representative Ryan Reynolds
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