

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Indian Oil Co Inc**

PO Box 209
2507 SE US 160 Hwy
Medicine Lodge, KS 67104

ATTN: Anthony Farrar/ Scott

16-32s-12w Barber,KS

Captain #1

Start Date: 2011.07.16 @ 16:34:31

End Date: 2011.07.17 @ 02:44:01

Job Ticket #: 42532 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Indian Oil Co Inc

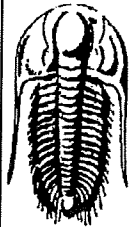
Captain #1

16-32s-12w Barber,KS

DST # 1

Mississippi

2011.07.16



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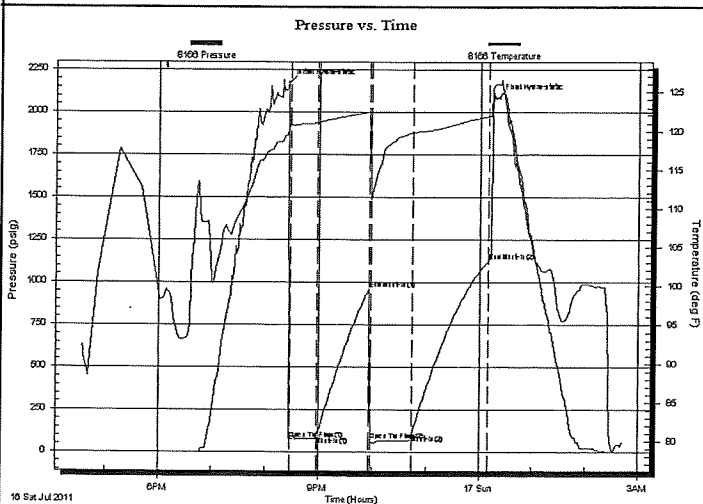
Captain #1
16-32s-12w Barber,KS
Job Ticket: 42532 **DST#: 1**
Test Start: 2011.07.16 @ 16:34:31

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole
Time Tool Opened: 20:27:16
Tester: Chris Staats
Time Test Ended: 02:44:01
Unit No: 34
Interval: **4337.00 ft (KB) To 4390.00 ft (KB) (TVD)**
Reference Elevations: 1586.00 ft (KB)
Total Depth: 4390.00 ft (KB) (TVD) 1575.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8166 Outside
Press@RunDepth: 103.57 psig @ 4338.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.16 End Date: 2011.07.17 Last Calib.: 2011.07.17
Start Time: 16:34:36 End Time: 02:44:01 Time On Btrn: 2011.07.16 @ 20:25:31
Time Off Btrn: 2011.07.17 @ 00:19:16

TEST COMMENT: IF: Strong blow BOB 6 min
IS: No blow back
FF: Strong blow BOB 2 sec GTS 1 min
FS: No blow back



PRESSURE SUMMARY

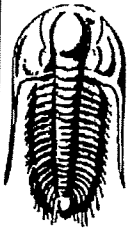
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.26	120.19	Initial Hydro-static
2	76.34	120.83	Open To Flow (1)
33	90.97	121.08	Shut-In(1)
91	961.03	122.45	End Shut-In(1)
93	66.99	111.20	Open To Flow (2)
139	103.57	119.81	Shut-In(2)
225	1128.78	121.94	End Shut-In(2)
234	2084.45	126.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4315 GIP	0.00
90.00	G,M 5% gas 95% mud	1.26

Gas Rates

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



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TOOL DIAGRAM

Indian Oil Co Inc

Captain #1

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ATTN: Anthony Farrar/ ScottS 160 Hwy

16-32s-12w Barber,KS

Job Ticket: 42532

DST#: 1

Test Start: 2011.07.16 @ 16:34:31

Tool Information

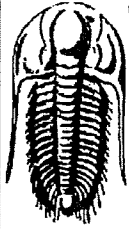
Drill Pipe:	Length: 4315.00 ft	Diameter: 3.80 inches	Volume: 60.53 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.53 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4337.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4309.00	
Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Jars	5.00			4324.00	
Safety Joint	3.00			4327.00	
Packer	5.00			4332.00	29.00 Bottom Of Top Packer
Packer	5.00			4337.00	
Stubb	1.00			4338.00	
Recorder	0.00	6773	Outside	4338.00	
Recorder	0.00	8166	Outside	4338.00	
Drill Pipe	31.00			4369.00	
Perforations	18.00			4387.00	
Bullnose	3.00			4390.00	53.00 Bottom Packers & Anchor

Total Tool Length: 82.00



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FLUID SUMMARY

Indian Oil Co Inc
 PO Box 209
 2507 SE US 160 Hwy
 Medicine Lodge, KS 67104
 ATTN: Anthony Farrar/ ScottS 160 Hwy

Captain #1
16-32s-12w Barber,KS
 Job Ticket: 42532 **DST#: 1**
 Test Start: 2011.07.16 @ 16:34:31

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:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohmm	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4315 GIP	0.000
90.00	G,M 5% gas 95% mud	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: Indian oil
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:

Serial #: 8166

Outside Indian Oil Co Inc

16-32s-12w Barber,KS

DST Test Number: 1

Pressure vs. Time

