



DRILL STEM TEST REPORT

Prepared For: **Noble Petroleum Inc**

3101 N Rock RD ste 125 Wichita KS
67226+1300

ATTN: Frank Mize

Artz #1

20-24s-4e Butler

Start Date: 2012.06.26 @ 11:10:00

End Date: 2012.06.26 @ 16:47:30

Job Ticket #: 17354 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.06.26 @ 16:56:27



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Artz #1

Job Ticket: 17354

DST#: 1

ATTN: Frank Mize

Test Start: 2012.06.26 @ 11:10:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:47:30

Time Test Ended: 16:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-240

Interval: 2448.00 ft (KB) To 2497.00 ft (KB) (TVD)

Reference Elevations: 1339.00 ft (KB)

Total Depth: 2497.00 ft (KB) (TVD)

1333.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6731

Press @ RunDepth: 59.51 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.26

End Date: 2012.06.26

Last Calib.: 2012.06.26

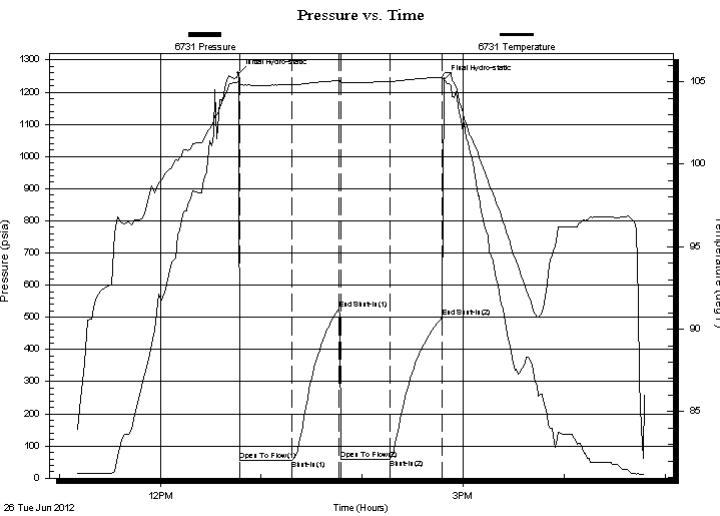
Start Time: 11:10:00

End Time: 16:47:30

Time On Btm: 2012.06.26 @ 12:46:30

Time Off Btm: 2012.06.26 @ 14:48:30

TEST COMMENT: 1st Opening 30 Minutes-Very weak blow built 1/4 inch into water in 30 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1259.28	105.02	Initial Hydro-static
1	54.24	104.81	Open To Flow (1)
32	56.24	104.82	Shut-In(1)
60	526.51	105.07	End Shut-In(1)
61	57.44	104.95	Open To Flow (2)
90	59.51	105.02	Shut-In(2)
121	500.99	105.29	End Shut-In(2)
122	1240.47	105.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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



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Total Depth: 2497.00 ft (KB) (TVD)

1333.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8159

Press @ RunDepth: 500.27 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.26

End Date: 2012.06.26

Last Calib.: 2012.06.26

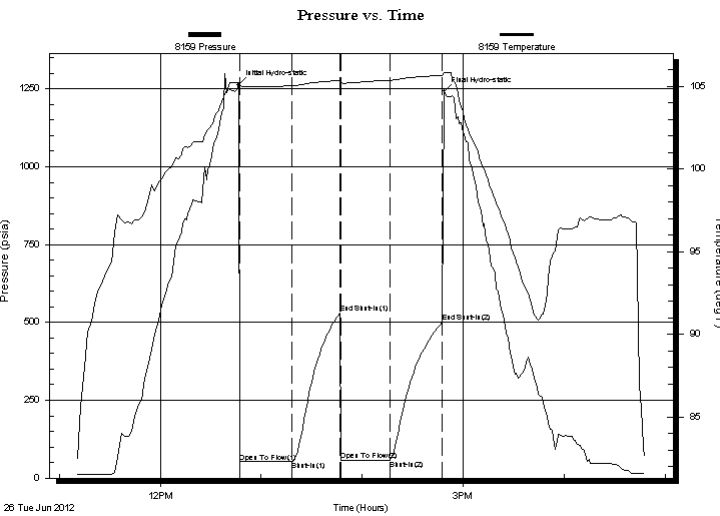
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 2nd Opening 30 Minutes-Very weak surge did not build
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PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1262.97	105.25	Initial Hydro-static
1	52.09	105.06	Open To Flow (1)
32	54.34	105.05	Shut-In(1)
60	529.35	105.37	End Shut-In(1)
61	56.11	105.21	Open To Flow (2)
90	58.31	105.38	Shut-In(2)
121	500.27	105.67	End Shut-In(2)
122	1241.89	105.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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



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TOOL DIAGRAM

Noble Petroleum Inc

20-24s-4e Butler

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DST#: 1

ATTN: Frank Mize

Test Start: 2012.06.26 @ 11:10:00

Tool Information

Drill Pipe:	Length: 2082.00 ft	Diameter: 3.80 inches	Volume: 29.20 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 30.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	2448.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	2425.00	
Hydraulic Tool	5.00			2430.00	
Jars	6.00			2436.00	
Safety Joint	2.00			2438.00	
Packer	5.00			2443.00	28.00 Bottom Of Top Packer
Packer	5.00			2448.00	
Anchor	44.00			2492.00	
Recorder	1.00		Inside	2493.00	
Recorder	1.00		Outside	2494.00	
Bullnose	3.00			2497.00	49.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



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FLUID SUMMARY

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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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

