Noble Petroleum, Inc.

GEOLOGICAL REPORT
Scale 1" = 50' Depth Scale
Scale 1" = 10' Lithology Scale
Logged Interval 2000' To 3150'
Total Depth 3150' (TVD)

Operator:	Noble Petroleum, Inc.
Contractor:	Murfin Drilling Co., Inc. Rig 12
Surface Location:	1650' FSL & 1980' FEL
	Section 19 - T17S - R14E
	Marion County, Kansas
API #:	15-115-21,464-0000
Elevation:	1491' GL 1499' KB
Spud Date:	2/26/07
Rig Release:	3/2/07
Total Depth:	3150' (TVD)
Logging Type:	Dual Induction, Compensated Density Neutron, Microlog
Casing Record:	8-5/8" @ 321' w/ 175 sks cmt
Status:	Dry & Abandoned
Samples Saved From:	2000' To 3150'
Drilling Time Kept From:	2000' To 3150'
Samples Examined From:	2000' To 3150'
Geological Supervision From:	2000' To 3150'
Drilling Contractor:	Murfin Drilling Co., Inc. Rig 12
Mud Type:	Chemical
Rotary Hours:	2000' To 3150'
Mud Company:	Mud Co.
Bit Record:	1 - 12-1/4" Hole, 321' - 7-7/8" Hole, 321' To 3150'
Drilling Time:	2000' To 3150'
Electric Log Company:	Dual Induction, Compensated Density Neutron, Microlog
Electric Log Time:	2000' To 3150'
Drill Stem Tests:	None
Samples Saved:	Yes
Drill Cuttings:	2000' To 3150'
Samples Examined:	2000' To 3150'
Geological Supervision:	2000' To 3150'
Samples Sent To:	Kansas Geological Survey
Completion Status:	Dry & Abandoned

GEOLOGIST
Name: Jason T. Tate
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ELEVATION
Ground: 1491'
Kelly Bushing: 1499'

Noble Petroleum, Inc.
19 - 17S - 14E
322 FNL & 1 BFE FEL
15-115-21,464-0000
Marion Co., KS

Comments

00:01:00 Moving to Wm Stalling, LLC Rig 12.

00:16:00 MOC at 2231' on 2-26-08. Spudded at 0:45 PM 02/01/08. Drilled 12-1/4" hole to 321'. Ran 8-5/8" of 24#/J55 casing. Set in 22' of 17" conductor pipe. Cemented w/ 175 sks of Class "A" cmt. Plug down at 10:30 AM 02/01/08. Circulated 10 bbls to surface. Cement witnessed by Jim Stalling of Stalling Oil. Plug down at 10:30 AM 02/01/08. Spud at 0:45 - Trip in pipe at 1:00 - Drilling at 2:00 - Surveys 1/2° @ 321'.

00:00 Drilling at 2400' @ 21ft/hr. Under surface @ 8:15 AM 2/16/08. Mud wt. 9.1, vis. 29. Deviation 1/2° @ 1134', 1/2° @ 1230'.

00:00 Drilling at 2548' @ 12ft/hr. Mud wt. 9.1, vis. 32, LCM 1#. Deviation 1/2° @ 1734', 3/4° @ 2231'.

00:00 DST #1: 2627'-2664 (TVD) 37' / 1:00 MW: 3/3 IFP: 21/21 - 35/35 ISIP: 1/1 FFP: 21/21 - 35/35 FSIP: 1/1 Strong blow off of bottom of bucket in 45 seconds. Gas to surface in 5 minutes. Gauged Gas FSI: 2 inch Blow: Bottom Bucket. Recovery: 1 Gas 0 Oil 1 Mud 0 Water. Recovered 250' Gas Cut mud. Chlorides: 22,000 PPM. Temp: 100 Deg. F. Pressures: IH: 1315 IF: 35 IFF: 35 ISI: 1315 FF: 35 FFF: 35 FH: 1315. Gas Flow Rate: Not Measured. Gas Gravity: Not Measured. Gas Composition: Not Measured. Mud Weight: 9.0 lb/gal. Mud Viscosity: 29 sec/qt. Mud Chlorides: 22,000 PPM. Test Interval: 37 ft. Total Depth: 2664 ft. Mud Type: Chemical. Bottom Hole Temp.: 100 F. Deviation: 3/4° @ 2627'.

00:00 DST #2: 3096'-3150' (TVD) 54' / 1:00 MW: 3/3 IFP: 21/21 - 35/35 ISIP: 1/1 FFP: 21/21 - 35/35 FSIP: 1/1 Strong blow off of bottom of bucket in 45 seconds. Gas to surface in 5 minutes. Gauged Gas FSI: 2 inch Blow: Bottom Bucket. Recovery: 1 Gas 0 Oil 1 Mud 0 Water. Recovered 90' Gas Cut mud. Chlorides: 22,000 PPM. Temp: 100 Deg. F. Pressures: IH: 1547 IF: 35 IFF: 35 ISI: 1547 FF: 35 FFF: 35 FH: 1547. Gas Flow Rate: Not Measured. Gas Gravity: Not Measured. Gas Composition: Not Measured. Mud Weight: 9.0 lb/gal. Mud Viscosity: 29 sec/qt. Mud Chlorides: 22,000 PPM. Test Interval: 54 ft. Total Depth: 3150 ft. Mud Type: Chemical. Bottom Hole Temp.: 100 F. Deviation: 3/4° @ 3150'.

00:00 RTD 3150'. Running DST #2. MOC 3000' in 1 hour. Circulate on first chance. Hard 1/2 hour w/ end of first open. Mud wt. 9.2#, vis. 33, LCM 1#. Water loss n/c.

00:00 Circulating to run logs. 0 RTD 3150' @ 6:00 AM. DST #2 3000 - 3090' / 90 45-45-45. Fair blow building to a 5" in end of first flow period. No blow back. Gas blow building to 10" on final flow. No blow back on second shut in period. Recovered: 90' of MCW 3% oil. IFP: 24/24 FFP: 24/24 ISIP: 1047 FSIP: 1047 Temp: 100 F. Chlorides: 22,000 PPM. Mud Wt.: 9.2 Vis.: 33 Test Interval: 90 ft. Total Depth: 3150 ft. Mud Type: Chemical. Bottom Hole Temp.: 100 F. Deviation: 3/4 @ 3150'.

00:00 RTD 3150'. Running Geologic Services Microlog. Geologic Services Microlog Measured Formation Resistivity Properties. Schlumberger Wireline Logging will be on hand. Tentative ETA on rig is 07:00. Off on drilling @ 2231. 22 in plug in 30' to surface - Plugged out hole with 175 sks of Class "A" cmt. Plug down at 10:30 AM 02/01/08. Spud Date: 02/01/08 - Rig Release: 02/02/08 - Total Depth: 3150' - Surface Casing: 8-5/8" @ 321' w/ 175 sks cmt. Drilling Contractor: Murfin Drilling Co., Inc. Rig 12.

GENERAL INFORMATION

Formation:	Mississippi		
Deviation:	3/4° @ 3150'	R (KB):	
Time Spud (Operator):	00:45:00		
Time Total Depth:	00:02:00		
Drilling Time Kept:	2000' To 3150'		
Samples Examined:	2000' To 3150'		
Geological Supervision:	2000' To 3150'		
Drilling Contractor:	Murfin Drilling Co., Inc. Rig 12		
Mud Type:	Chemical		
Mud Company:	Mud Co.		
Bit Record:	1 - 12-1/4" Hole, 321' - 7-7/8" Hole, 321' To 3150'		
Electric Log Company:	Dual Induction, Compensated Density Neutron, Microlog		
Electric Log Time:	2000' To 3150'		
Drill Stem Tests:	None		
Samples Saved:	Yes		
Drill Cuttings:	2000' To 3150'		
Samples Examined:	2000' To 3150'		
Geological Supervision:	2000' To 3150'		
Samples Sent To:	Kansas Geological Survey		
Completion Status:	Dry & Abandoned		

Test Type:	Conventional Bottom Hole (Initial)		
Tester:	Lost Creek		
Unit No:	74		
Reference Elevations:	1491ft (KB)	1479 ft (GL)	
		1491 ft (KB)	
KB to GROUND:	7 ft		

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (Deg. F)	
0	1315.92	98.27	Open To Flow (1)
3	34.96	98.27	Shut-In(1)
34	238.52	101.06	Shut-In(1)
35	238.52	101.06	Open To Flow (2)
67	90.02	101.06	Shut-In(2)
125	344.60	103.06	Shut-In(2)
126	1315.92	103.06	Final Hydro-static

Gas Rates

Flow Rate	Gas Rate
First Open Min.	0.00
Last Open Min.	0.00
Max. Gas Rate	0.00

Gauged Gas FSI: 2 inch Blow: Bottom Bucket

Scale 1:0 Job Number: 2

GENERAL INFORMATION

Formation:	Viola		
Deviation:	No	Ultimeter:	R (KB)
Time Spud (Operator):	08:00:00		
Time Total Dented:	11:00:00		
Drilling Time Kept:	2000' To 3150'		
Samples Examined:	2000' To 3150'		
Geological Supervision:	2000' To 3150'		
Drilling Contractor:	Murfin Drilling Co., Inc. Rig 12		
Mud Type:	Chemical		
Mud Company:	Mud Co.		
Bit Record:	1 - 12-1/4" Hole, 321' - 7-7/8" Hole, 321' To 3150'		
Electric Log Company:	Dual Induction, Compensated Density Neutron, Microlog		
Electric Log Time:	2000' To 3150'		
Drill Stem Tests:	None		
Samples Saved:	Yes		
Drill Cuttings:	2000' To 3150'		
Samples Examined:	2000' To 3150'		
Geological Supervision:	2000' To 3150'		
Samples Sent To:	Kansas Geological Survey		
Completion Status:	Dry & Abandoned		

Test Type:	Conventional Bottom Hole (Reset)		
Tester:	Lost Creek		
Unit No:	74		
Reference Elevations:	1491ft (KB)	1479 ft (GL)	
		1491 ft (KB)	
KB to GROUND:	7 ft		

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (Deg. F)	
0	1559.92	98.27	Initial Hydro-static
3	34.96	97.27	Open To Flow (1)
34	174.67	100.24	Shut-In(1)
35	174.67	100.24	Open To Flow (2)
67	85.20	100.37	Open To Flow (2)
137	148.38	114.31	Shut-In(2)
198	1174.20	112.82	Shut-In(2)
199	1547.41	110.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	2.37
50.00	MCW 20%W 80%M	0.70

Total Recovered: 3.07

Scale 1:0 Job Number: 2

All interpretations provided by
Tate Geological Testing, Inc.