

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Noble Petroleum, Inc.
Well Name	SCULLY 1-19
Doc ID	1294793

All Electric Logs Run

Compensated Neutron-Density
Dual Induction
Microresistivity
Compensated Sonic

Summary of Changes

Lease Name and Number: SCULLY 1-19

API/Permit #: 15-115-21503-00-00

Doc ID: 1294793

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	03/01/2016	03/03/2016
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1290037	../kcc/detail/operatorEditDetail.cfm?docID=1294793

Summary of Attachments

Lease Name and Number: SCULLY 1-19

API: 15-115-21503-00-00

Doc ID: 1294793

Correction Number: 1

Attachment Name

Geological Report



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1290037
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

CONFIDENTIAL WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

COMPANY: Noble Petroleum, Inc.
LEASE: Scully #1-19
FIELD: Wildcat
LOCATION: 352' FNL & 1,484' FEL
SEC: 19 TWP 18S R6E 2E
COUNTY: Marion STATE Kansas
CONTRACTOR: WW Drilling, LLC, Rig 12
SPUD: 2-17-16 **COMP:** 2-23-16
SAMPLES SAVED FROM: 2500' TO RTD

FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG

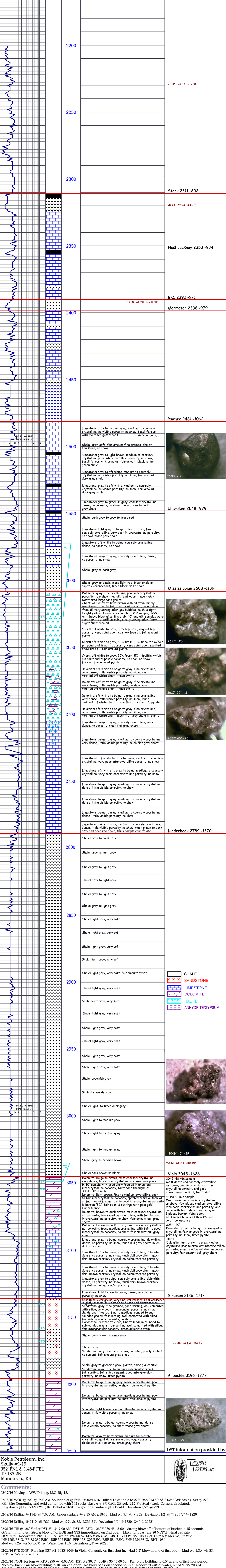
DEPTH MEASURED FROM: KB
LOG: Depth Core
SPUD: 8:58 @ 222' w/ 145xx
PRODUCTION: NONE
EMULSION: NONE
DRILLING: NONE
DRILLING: NONE
DRILLING: NONE

FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG

FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG

FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG

FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG
FORMATION: SAMPLE # FLOG



ELEVATION: K/B: 1419
G.L.: 1411
STARK 2311-892: vis 38 wt 9.1 lcm 1#
HUSHPUCKNEY 2353-934:
BKC 2390-971: vis 38 wt 9.0 lcm 0.5#
MARMATON 2398-979:
PAWNEE 2481-1062:
CHEROKEE 2548-979:
MISSISSIPPI 2608-1189:
KINDERHOOK 2789-1370:
SIMPSON 3136-1717:
ARBUCKLE 3196-1777:

DST information provided by: **TRILOBITE TESTING, INC.**

Noble Petroleum, Inc.
Scully #1-19
352' FNL & 1,484' FEL
19-18S-2E
Marion Co., KS

Comments:
 02/17/16 Moving in WW Drilling, LLC Rig 12.
 02/18/16 WOC @ 223' @ 7:00 AM. Spudded at @ 6:45 PM 02/17/16. Drilled 12.25' hole to 223'. Ran 213.52' of 8.625" 23# casing. Set @ 222' KB. Elite Cementing and Acid cemented with 145 sacks class A + 3% CaCl₂, 2% gel, 25# Flo-Seal' sack. Cement circulated. Plug down @ 12:15 AM 02/18/16. Ticket # 2681. To go under surface @ 8:15 AM. Deviation 1/2" @ 223'.
 02/19/16 Drilling @ 1545' @ 7:00 AM. Under surface @ 8:15 AM 2/18/16. Mud wt. 9.1 #. vis 29. Deviation 1/2" @ 718', 1/2" @ 1220'.
 02/20/16 Drilling @ 2410' @ 7:22. Mud wt. 9#., vis 38, LCM .5#. Deviation 1/2" @ 1720, 3/4" @ 2222'.
 02/21/16 TH @ 2627 after DST #1 @ 7:00 AM. DST #1 2572' - 2627' / 30-45-60-60. No blow back off bottom of bucket in 45 seconds. GTS in 14 minutes. Strong blow off of BOB and GTS immediately on 2nd open. Maximum gas rate 86 MCF/d. Final gas rate 58 MCF/d. Recovered 1926 GIP, 186' water, 124' MCW 14% M 86% W, 248' GSY SOMCW 10% G 2% O 32% M 56% W, 82' Mud. IHP 1293 PSIG, IFF 88-239 PSIG, ISIP 592 PSIG, FFP 158-305 PSIG, FSP 584 PSIG, FHP 1284 PSIG. BHT 103'. Mud wt. 9.2#, vis 50, LCM 1.5# Water Loss 9.6. Deviation 3/4" @ 2627'.
 02/22/16 PTD 3049'. Running DST #2 3035'-3049' in Viola. Currently on first shut-in. Had 6.5' blow at end of first open. Mud wt. 9.3#, vis 53, LCM 1.8#. Water loss 11.2.
 02/23/16 TOOH for logs @ RTD 3250' @ 6:00 AM. DST #2 3035' - 3049' / 30-45-60-60. Fair blow building to 6.5' at end of first flow period. No blow back. Fair blow building to 10" on 2nd open. No blow back on second shut-in. Recovered 248' of water, 50' of MCW 20% M 80% W. IHP 1569 PSIG, IFF 15-83 PSIG, ISIP 1175 PSIG, FFP 83-148 PSIG, FSP 1174 PSIG, FHP 1547 PSIG. BHT 114'. Mud wt. 9.4#, vis 47, LCM 1.5# Water Loss 9.6. Deviation 3/4" @ 3250'.
 02/24/16 RTD 3250'. Drilling Services Wireline ran Compensated Neutron-Density, Sonic, Micro, and Dual Induction logs. LTD 3249'. Elite Cementing and Acid Co. Spotted 35 sx plug @ 3196', 35 sx plug @ 273', 25 sx plug @ 60' to surface. Plugged rat hole with 30 sx. All cement is 60-40 Poz + 4% gel. Plugging completed @ 6:15 PM 02/23/16. Ticket # 2728. Release rig @ 10:15 PM 02/23/16 KCC plugging orders from Dan Fox.

GENERAL INFORMATION:
Formation: Mississippi
Deviated: No Whipstock
Time Tool Opened: 23:49:56
Time Test Ended: 05:52:11
Interval: 2627.00 ft (KB) To 2627.00 ft (KB) (TVD)
Total Depth: 2627.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches-Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1418.00 ft (KB)
 1411.00 ft (CF)
KB to GR/CF: 7.00 ft

PRESSURE SUMMARY

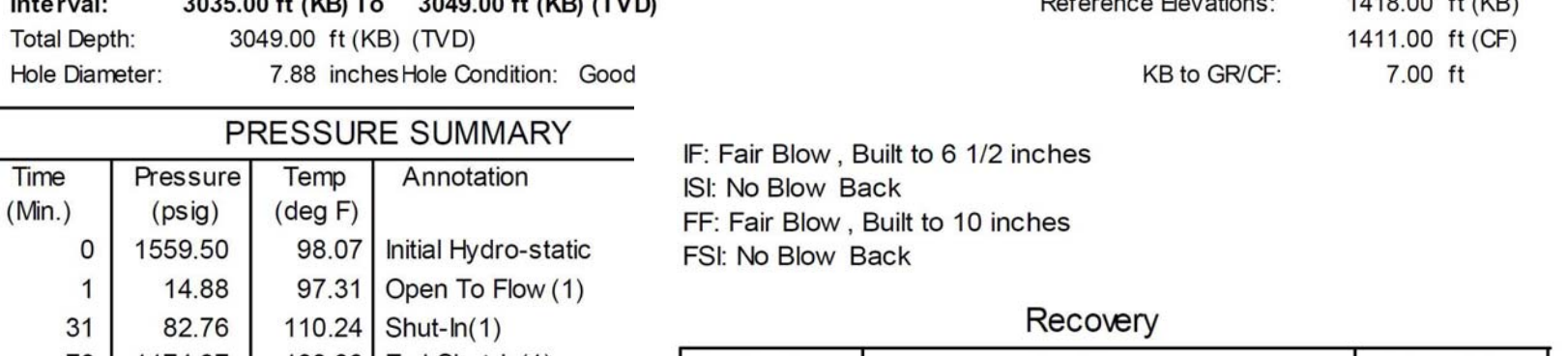
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1292.99	96.37	Open To Flow (1)
4	88.26	96.05	Open To Flow (2)
34	238.52	101.69	Shut-In (1)
79	591.73	102.84	End Shut-In(1)
80	157.92	90.02	Open To Flow (3)
125	304.85	103.09	Shut-In(2)
188	583.70	114.01	End Shut-In(2)
190	1283.71	102.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Water	0.00
188.00	1926 GIP	1.50
124.00	MCW 14%M 86%W	3.48
248.00	GSY SOMCW 10%G 2%O 32%M 56%W	3.74
82.00	Mud	1.15

Gas Rates

Chase (inches)	Pressure (psig)	Gas Rate (Mc/d)
First Gas Rate	0.25	26.00
Last Gas Rate	0.25	22.00
Max. Gas Rate	0.25	40.00
		86.30



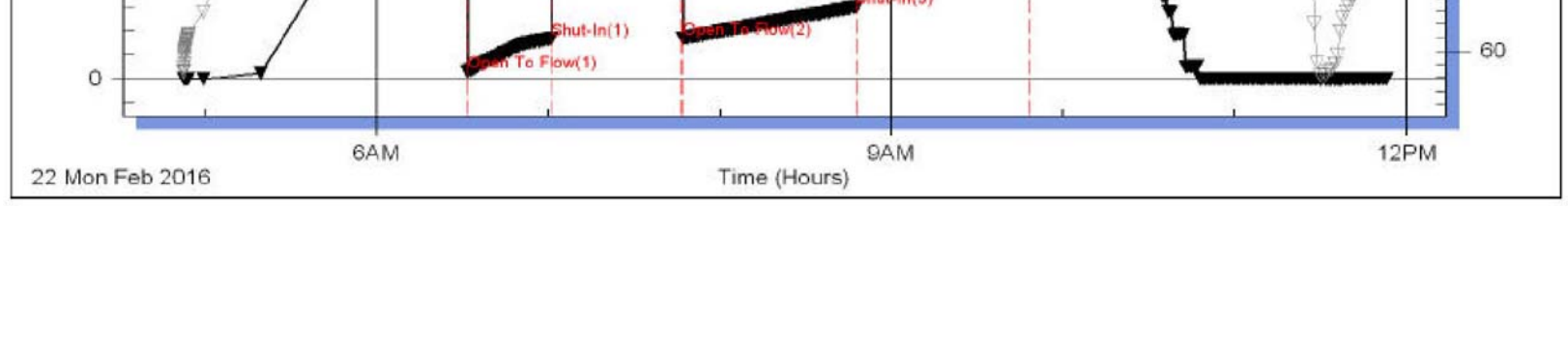
GENERAL INFORMATION:
Formation: Viola
Deviated: No Whipstock
Time Tool Opened: 06:31:50
Time Test Ended: 11:53:20
Interval: 3035.00 ft (KB) To 3049.00 ft (KB) (TVD)
Total Depth: 3049.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches-Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1418.00 ft (KB)
 1411.00 ft (CF)
KB to GR/CF: 7.00 ft

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.50	98.07	Initial Hydro-static
1	14.88	97.31	Open To Flow (1)
31	82.76	110.24	Shut-In(1)
76	1174.87	108.86	End Shut-In(1)
77	83.25	108.37	Open To Flow (2)
137	148.06	114.01	Shut-In(2)
198	1174.20	112.80	End Shut-In(2)
199	1547.41	110.30	Final Hydro-static

Recovery

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



810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



API # 15-115-21503

Cement or Acid Field Report
 Ticket No. 2681
 Foreman Kevin McCoy
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
2-18-16	1027	Scully 1-19	19	18S	2E	MARION	KS
Customer Noble Petroleum, Inc.			Safety Meeting KM DG SM	Unit # 105	Driver DAVE G	Unit #	Driver
Mailing Address 8918 W. 21 ST ST. N. Ste 200 #304				113	Steve M.		
City Wichita		State KS	Zip Code 67205	WWDaily Co.			

Job Type SURFACE Hole Depth 223' KB Slurry Vol. 35 BBL Tubing _____
 Casing Depth 223' K.B. Hole Size 12 1/4" Slurry Wt. 15" Drill Pipe _____
 Casing Size & Wt. 8 5/8" Cement Left in Casing 15' Water Gal/SK 6.5 Other _____
 Displacement 13.2 BBL Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 8 5/8" casing. BREAK CIRCULATION w/ 5 BBL FRESH WATER. MIXED 145 SKS CLASS "A" CEMENT w/ 3% CaCl2, 2% GEL, 1/4" FLO-SEAL/SK @ 15"/GAL = 35 BBL SLURRY. DISPLACE w/ 13.2 BBL FRESH WATER. SHUT CASING IN. GOOD CEMENT RETURNS TO SURFACE = 12 BBL SLURRY TO PIT. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	840.00	840.00
C 107	60	Mileage	3.95	237.00
C 200	145 SKS	CLASS "A" Cement	15.00	2175.00
C 205	410 #	CaCl2 3%	.60 *	246.00
C 206	270 #	Gel 2%	.20 *	54.00
C 209	36 #	FLO-SEAL 1/4"/SK	2.25	81.00
C/108 B	6.82 TONS	TON Mileage 60 miles	1.35	552.42
				4185.42
				Less 5%
				219.50
				8.0% Sales Tax
				204.48
Authorization <u>Cole Jamieson</u> Title _____				Total
				4170.40

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. 2728
 Foreman Steve Mead
 Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
2-23-16	1037	Scully # 1-19	19	18S	2E	Marion	KS
Customer <u>Noble Petroleum, Inc</u>			Safety Meeting	Unit #	Driver	Unit #	Driver
Mailing Address <u>8918 W. 21ST N. Ste. 200 #304</u>				<u>105</u>	<u>Dave G.</u>		
City <u>Wichita</u>				<u>112</u>	<u>Kevin M.</u>		
State <u>KS</u>		Zip Code <u>67205</u>					

Job Type PTA Hole Depth 3250' Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size 7 7/8 Slurry Wt. _____ Drill Pipe 4 1/2
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK _____ Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meetings: Plug Well AS Follow:
35 SKS AT 3196'
35 SKS AT 273'
25 SKS AT 60' TO SURFACE
30 SKS IN RAHOLE
125 SKS 60/40 POZ MIX CEMENT 4% GEL
Job Complete Rig down.
Thank you

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1050.00	1050.00
C107	60	Mileage	3.95	237.00
C203	125 SKS	60/40 Pozmix Cement	12.75	1593.75
C206	425 ⁰	4% Gel	.20	85.00
C1088	5.33	Tan Mileage Bulk Truck	1.35	435.78
			Sub Total	3401.53
			less 5%	-170.19
			Sales Tax	134.30
			8.0%	

Authorization [Signature] Title _____ Total 3359.04

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

DRILLING TIME & SAMPLE LOG
REPORT PREPARED BY FRANKLIN METEOROLOGIST



COMPANY: Noble Petroleum, Inc.
LEASE: Scully #1-19
FIELD: Wildcat
LOCATION: 352' FNL & 1,484' FEL
SEC: 19 TWP. 18S R.0E. 2E
COUNTY: Marion STATE: Kansas
CONTRACTOR: WWW Drilling, LLC Rig 12
SPUD: 2-17-16 COMP: 2-29-16
SAMPLES SAVED FROM: 2500' TO RTD

FORMATION	SAMPLE	ELOG	DIVISION
Lanark	2094	2093	-414
Stark	2311	2308	-489
LKCanton	2280	2286	-458
Campden	2258	2542	-1123
Mississippi	2898	2805	-1861
Lincoln	2714	2888	-1879
Harlem	2729	2761	-1861
Yukon	3015	3042	-1823
Sanderson	3196	3184	-1713
Arden	3196	3196	-1777
RTD/LTD	3250	3249	-1800

FORMATION	SAMPLE	ELOG	DIVISION
Lanark	2094	2093	-414
Stark	2311	2308	-489
LKCanton	2280	2286	-458
Campden	2258	2542	-1123
Mississippi	2898	2805	-1861
Lincoln	2714	2888	-1879
Harlem	2729	2761	-1861
Yukon	3015	3042	-1823
Sanderson	3196	3184	-1713
Arden	3196	3196	-1777
RTD/LTD	3250	3249	-1800

FORMATION	SAMPLE	ELOG	DIVISION
Lanark	2094	2093	-414
Stark	2311	2308	-489
LKCanton	2280	2286	-458
Campden	2258	2542	-1123
Mississippi	2898	2805	-1861
Lincoln	2714	2888	-1879
Harlem	2729	2761	-1861
Yukon	3015	3042	-1823
Sanderson	3196	3184	-1713
Arden	3196	3196	-1777
RTD/LTD	3250	3249	-1800

vis 36 wt 9.1 lcm lbf

Stark 2311 -892

vis 38 wt 9.1 lcm lbf

Hushpuckney 2353 -934

vis 38 wt 9.0 lcm 0.5#

BKC 2390 -971

Marmaton 2398 -979

vis 38 wt 9.0 lcm 0.5#

Pownee 2481 -1062

Cherokee 2548 -979

Mississippi 2608 -1189

2627' x25

2627' 20' x11

2627' 40' x26

Kinderhook 2789 -1370

2800

2850

2900

2950

3000

Viola 3045 -1626

3049: 40 min sample
Most dense and coarsely crystalline as above, one piece with fair inter crystalline porosity and good show heavy black oil, faint odor

3049: 60 min sample
Most dense and coarsely crystalline as above, few pieces medium crystalline with poor intercrystalline porosity, one piece with light show free heavy oil, 2 pieces barren, faint odor. All samples have less than 1% pale solid fluorescence

3054: 40'
Dolomite: off white to light brown, medium crystalline, fair to good intercrystalline porosity, no show, trace pyrite

3070'
Dolomite: light brown to gray, medium crystalline, poor to excellent intercrystalline porosity, some residual oil stain in poorer porosity, fair amount dull gray chert

Simpson 3136 -1717

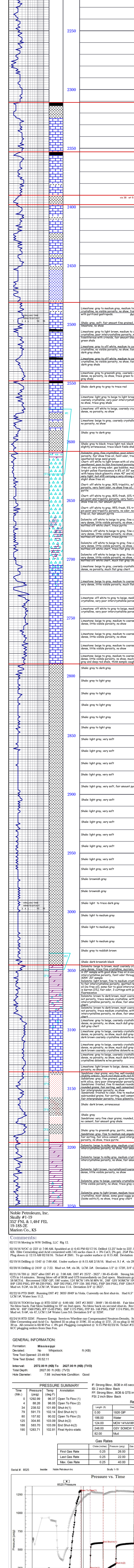
3150

Arbuckle 3196 -1777

3240' x9

DST information provided by:

TALLOBITE TESTING, INC.



GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock
Time Tool Opened: 23:49:56
Time Test Ended: 05:52:11

Interval: **2627.00 ft (KB) To 2627.00 ft (KB) (TVI)**
Total Depth: **2627.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Reference Elevations: 1418.00 ft (KB)
1411.00 ft (CF)
7.00 ft

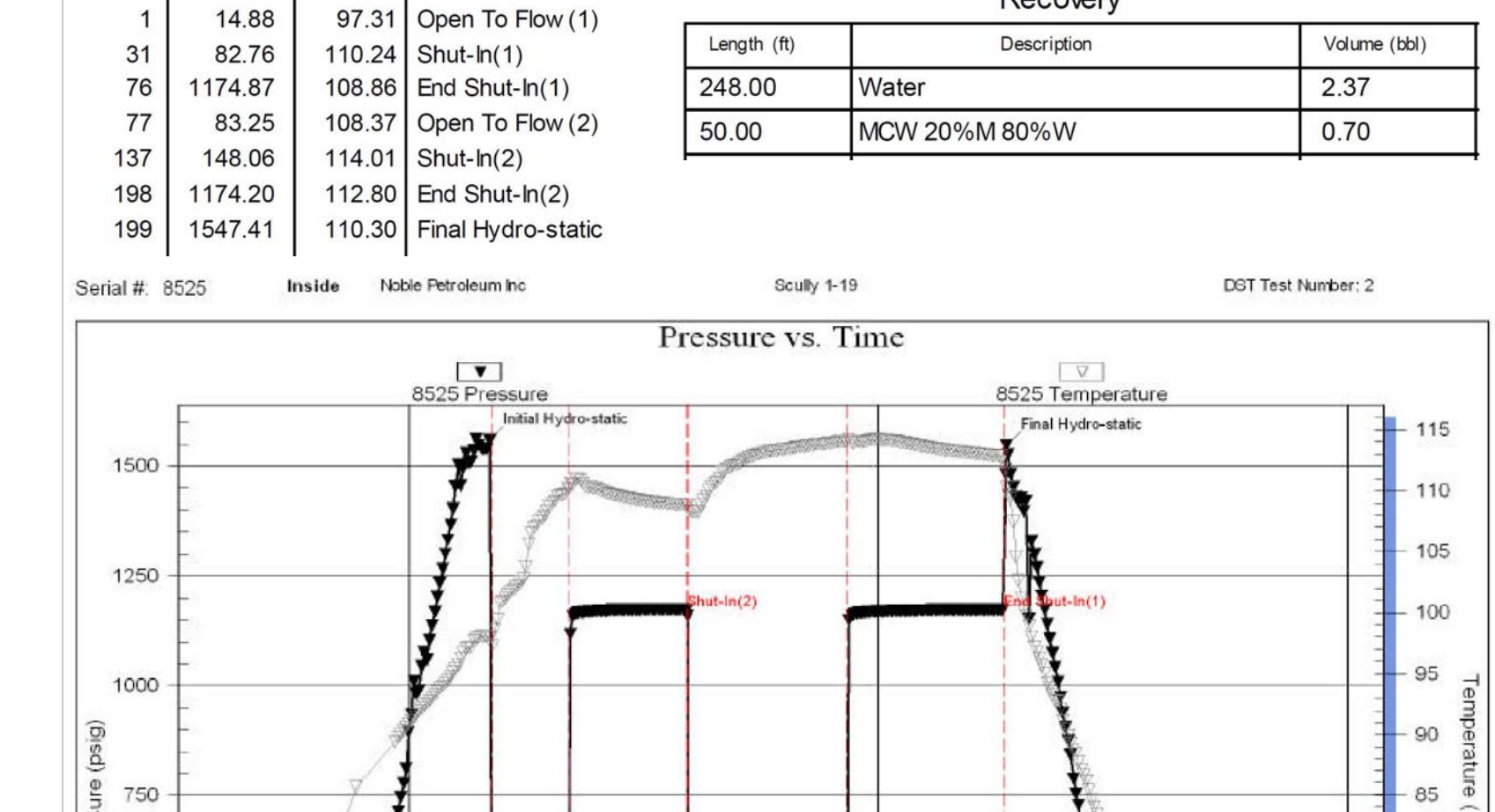
Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.99	96.37	Open To Flow (1)
4	88.26	96.05	Open To Flow (2)
34	238.52	101.69	Shut-In(1)
79	591.73	102.84	End Shut-In(1)
80	157.92	90.02	Open To Flow (3)
125	304.85	103.09	Shut-In(2)
188	583.70	112.80	End Shut-In(2)
196	1547.41	110.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1928 GIP	0.00
188.00	Water	1.50
124.00	MCW 14%M 86%W	1.48
248.00	GSY SOMCW 10% C 2% O 32% M 56% W	3.74
82.00	Mud	1.15

Chase (inches)	Pressure (psig)	Gas Rate (Mcfd)
First Gas Rate	0.25	26.00
Last Gas Rate	0.25	22.00
Max. Gas Rate	0.25	40.00

Serial # 8525 Inside Noble Petroleum Inc Scully 1-19 DST Test Number: 1



GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock
Time Tool Opened: 06:31:50
Time Test Ended: 11:53:20

Interval: **3035.00 ft (KB) To 3049.00 ft (KB) (TVI)**
Total Depth: **3049.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Reference Elevations: 1418.00 ft (KB)
1411.00 ft (CF)
7.00 ft

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.50	97.31	Initial Hydro-static
1	14.88	98.37	Open To Flow (1)
31	82.76	110.24	Shut-In(1)
76	1174.87	108.88	End Shut-In(1)
77	83.25	108.37	Open To Flow (2)
137	148.06	114.01	Shut-In(2)
198	1174.20	112.80	End Shut-In(2)
199	1547.41	110.30	Final Hydro-static

Recovery

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

Serial # 8525 Inside Noble Petroleum Inc Scully 1-19 DST Test Number: 2

