KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1078952

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33190
Name: Noble Energy, Inc.
Address 1: 1625 Broadway, Ste 2200
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: Liz LIndow
Phone: (303) 228-4342
CONTRACTOR: License # 34069
Name: Basic Energy Services, LP
Wellsite Geologist: Michael Joseph D'Anna
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] Gas
- [ ] OG
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [ ] WSW
- [ ] D&A
- [x] SWD
- [ ] ENHR
- [ ] GSW
- [ ] Other *(Core, Expl., etc.)*:
- [ ] SIOW
- [ ] SIGW
- [ ] Temp. Abd.

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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [x] SWD Permit #: D-31265
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

8/15/2012	8/19/2012	10/19/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21352-00-00
Spot Description:
SE - SE - SW - SW Sec. 32 Twp. 5 S. R. 39 [ ] East [x] West
184 Feet from [ ] North / [x] South Line of Section
4080 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Cheyenne
Lease Name: Rogers SWD Well #: 1
Field Name:
Producing Formation: Cedar Hills
Elevation: Ground: 3603 Kelly Bushing: 3615
Total Depth: 3350 Plug Back Total Depth: 3289
Amount of Surface Pipe Set and Cemented at: 397 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 17000 ppm Fluid volume: 2000 bbls
Dewatering method used: Evaporated

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

- [ ] **Letter of Confidentiality Received**
  Date:
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [x] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrison **Date:** 12/19/2012

Side Two

[redacted]

1078952

Operator Name: Noble Energy, Inc. Lease Name: Rogers SWD Well #: 1

Sec. 32 Twp. 5 S. R. 39 ☐ East ☑ West County: Cheyenne

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Triple Combo
CBL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Cedar Hills	3161	

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	36	25	50/50 POZ	200	
Production	8.75	7	23	3326	N-GEL 12, BG Lite	525	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☑ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	Perf Cedar Hills interval, 3181-3240	8513 gal total clean volume (24 bbls	3181-3240
	Total hoes: 160	15% HCl, 24 bbls mud gel breaker,	
		water)	

TUBING RECORD: Size: 6.3 Set At: 3126 Packer At: 3118 Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 11/13/2012

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* SWD

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
3181
3240

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

BISON OIL WELL CEMENTING, INC.

1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11000
LOCATION St. Francis
FOREMAN Rocky Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-16-12	Rogers SWD #1	32	5S	39W	Sherman	

CHARGE TO Noble	OWNER Noble
MAILING ADDRESS	OPERATOR
CITY	CONTRACTOR Excell Rig 3
STATE ZIP CODE	DISTANCE TO LOCATION 90 mi
TIME ARRIVED ON LOCATION 11:30 p.m.	TIME LEFT LOCATION 9:00 A.m.

WELL DATA

HOLE SIZE 12¼	TUBING SIZE	PERFORATIONS
TOTAL DEPTH 405	TUBING DEPTH	SHOTS/FT
	TUBING WEIGHT	OPEN HOLE
CASING SIZE 9 5/8"	TUBING CONDITION	
CASING DEPTH 397	Plug 357'	TREATMENT VIA
CASING WEIGHT 36#	PACKER DEPTH	
CASING CONDITION Good		

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE ANNULUS LONG		
STRING		
TUBING		

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

TYPE OF TREATMENT	TREATMENT RATE
[X] SURFACE PIPE	BREAKDOWN BPM
[ ] PRODUCTION CASING	INITIAL BPM
[ ] SQEEZE CEMENT	FINAL BPM
[ ] ACID BREAKDOWN	MINIMUM BPM
[ ] ACID STIMULATION	MAXIMUM BPM
[ ] ACID SPOTTING	AVERAGE BPM
[ ] MISC PUMP	
[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB MIRU SM circ 10 bbl Dye 7bbls fresh MIP 133 #/sk @ 15.2# pers gal water reg 4.2 bbls per sk yield 1.07 cu ft/sk mix 211 sks shut down drop plug Displace 27.5 bbls water shut in rig down mixed 20 bbl for 200 sks

JOB SUMMARY
DESCRIPTION OF JOB EVENTS MIRU SM Circ MIP Drop
4:00 Am 6:00 Am 8:06 Am 8:10 Am 8:18 Am
Displace shut in Rig down
8:23 Am 8:32 Am 8:35 Am

8:25	10	200
8:27	20	300
8:30	27.5	300

8:11

5 bbls cement to pit

AUTHORIZATION TO PROCEED _____ TITLE _____ DATE _____

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.

BISON OIL WELL CEMENTING, INC.

1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11001
LOCATION St. Francis
FOREMAN Randy Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-20-12	Roger SWD	32	5S	39W	cheyenne	

CHARGE TO Noble Energy	OWNER Noble
MAILING ADDRESS	OPERATOR ~~Ex~~
CITY	CONTRACTOR Excell Rig 3
STATE ZIP CODE	DISTANCE TO LOCATION 90 m.
TIME ARRIVED ON LOCATION 10:30 Am.	TIME LEFT LOCATION 3:30 p.m.

WELL DATA

HOLE SIZE 8 3/4"	TUBING SIZE	PERFORATIONS
TOTAL DEPTH 3350'	TUBING DEPTH	SHOTS/FT
	TUBING WEIGHT	OPEN HOLE
CASING SIZE 7"	TUBING CONDITION	
CASING DEPTH 3326' RTD 3289'		TREATMENT VIA
CASING WEIGHT 23#	PACKER DEPTH	
CASING CONDITION good		

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE ANNULUS LONG		
STRING		
TUBING		

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

TYPE OF TREATMENT	TREATMENT RATE
[ ] SURFACE PIPE	BREAKDOWN BPM
[X] PRODUCTION CASING	INITIAL BPM
[ ] SQEEZE CEMENT	FINAL BPM
[ ] ACID BREAKDOWN	MINIMUM BPM
[ ] ACID STIMULATION	MAXIMUM BPM
[ ] ACID SPOTTING	AVERAGE BPM
[ ] MISC PUMP	
[ ] OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB MIRU SM circ 10bbl mud flush (sep 128) 10bbls fresh H2O mix & 275 sks of N-Gel-12 @ 12.1#/gal water req of 12.04 gal/sk 79 BBLS mix water yield of 2.2 cuft/sk then mix 250 sks BG-14c @ 13.8#/gal water req of 6.28 gal/sk 38 BBLS mix water Yield of 1.33 cuft/sk shut down Drop plug Displace w/ 129.2 BBLS H2O land plug bleed off pressure Rig down 20% excess

JOB SUMMARY
DESCRIPTION OF JOB EVENTS MIRU SM circ mix mix Drop plug
10:30Am 12:50p.m. 1:05p.m. 1:11 pm. 1:46p.m. 2:10p.m.
Displace 2:15 p.m. land plug 2:52p.m. Rig down 3:00p.m.
w/ 1500psi

2:18	10	100	2:38	90	750
2:20	20	200	2:41	100	800
2:22	30	200	2:44	110	900
2:25	40	300	2:47	120	900
2:27	50	300	2:52	129	1500
2:29	60	400			
2:32	70	500			
2:35	80	600			

20 BBL Cement to P.T

1650

Tim Tk
AUTHORIZATION TO PROCEED

TITLE

8-20-12
DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.

BASIC ENERGY SERVICES

WATER ANALYSIS

COMPANY:	NOBLE ENERGY	LEASE:	ROGER SWD
FAX:		DATE:	12/13/2012
E-MAIL:		SAMPLE NUMBER:	**WS12131201**

DISSOLVED SOLIDS:

CATIONS:

Sodium, Na (Calc) ppm:	5,801
Calcium, Ca, ppm:	4,085
Magnesium, Mg, ppm:	1,071

ANIONS

Chlorides, Cl ppm:	17,000
Sulfates, SO4, ppm:	800
Bicarbonates, HCO3 ppm:	2,935
Carbonates, CO3 ppm:	

Total Dissolved Solids (Calculated) ppm:	31,695
Derived from Specific Gravity, ppm:	32,800
Iron, Fe (Total) ppm:	3
Sulfide, as H2S ppm:	0

WELL DATA

Depth:	ft
Formation:	
Water BPD:	

OTHER PROPERTIES

pH:	7.2	
Specific Gravity:	1.022	70 °F
Resisivity (Meter) ohm*M:	0.22	70 °F
Total Hardness, ppm:	5156	

REMARKS AND RECOMMENDATIONS:

This water sample has a viscosity of 3 cP where fresh water is 1 cP.

Analyst: Matthew Hoffman