



KANSAS CORPORATION COMMISSION 1078952  
OIL & GAS CONSERVATION DIVISION

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:

- New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SLOW  
 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  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #: D-31265  
 ENHR Permit #:  
 GSW Permit #:  
8/15/2012 8/19/2012 10/19/2012  
Spud Date or 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  West  
184 Feet from  North /  South Line of Section  
4080 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  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  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:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 12/19/2012



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cedar Hills	3161
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Datum	
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Triple Combo			
CBL			

CASING RECORD <input checked="" 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
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
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	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: <u>6.3</u>	Set At: <u>3126</u>	Packer At: <u>3118</u>	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR:	Producing Method:			
<u>11/13/2012</u>	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>SWD</u>			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	<u>3181</u> <u>3240</u>
	<input type="checkbox"/> Other (Specify)	

# 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 Randy Newton

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-16-12	Rogers SWD #1	32	55	39W	Stephens	
CHARGE TO <u>Noble</u>			OWNER <u>Noble</u>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <u>Excell 1033</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>80 mi</u>			
TIME ARRIVED ON LOCATION <u>11:30 a.m.</u>			TIME LEFT LOCATION <u>9:00 a.m.</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
<u>12 1/4</u>					
TOTAL DEPTH <u>405</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULLUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>17 1/2"</u>	TUBING CONDITION	TREATMENT VIA	TUBING		
CASING DEPTH <u>397</u>	<u>Log 35'</u>		TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>360</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER	HYD HP = RATE X PRESSURE X 4.0 B	

INSTRUCTIONS PRIOR TO JOB MTRU 5m circ 10 bbl DUE 7 bbls fresh MHP 133-1/2 @ 15.2  
per gal water req 4.2 bbls per sd yield 0.0716 bbl/sk minimum. If Dye is seen shut down  
drop plug Displace 27.5 bbls water shut in 1 1/2 down  
Mixed 20 bbl for 200 sks

JOB SUMMARY	
DESCRIPTION OF JOB EVENTS	
<u>MTRU 5m</u>	<u>Circ MHP Drop</u>
<u>4:00 AM</u>	<u>8:06 AM</u>
<u>5:00 AM</u>	<u>8:10 AM</u>
<u>8:23 AM</u>	<u>8:18 AM</u>
<u>Displace</u>	<u>shut in</u>
<u>8:25 AM</u>	<u>8:32 AM</u>
<u>8:27 20 300</u>	<u>8:35 AM</u>
<u>8:30 27.5 300</u>	

5 bbls cement to pit

AS 11

Tony Th

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: 303-296-8143  
 E-mail: bisonoil1@qwestoffice.net

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

## TREATMENT REPORT

DATE <b>8-20-12</b>	WELL NAME <b>Roger SWD</b>	SECTION <b>32</b>	TWP <b>55</b>	RGE <b>39W</b>	COUNTY <b>cheyenne</b>	FORMATION
CHARGE TO <b>Noble Energy</b>		OWNER <b>Noble</b>		OPERATOR <del>Excell</del>		
MAILING ADDRESS		CONTRACTOR <b>Excell Rig 3</b>		DISTANCE TO LOCATION <b>90 mi.</b>		
CITY		TIME ARRIVED ON LOCATION <b>10:30 AM</b>		TIME LEFT LOCATION <b>3:30 p.m.</b>		
STATE ZIP CODE						

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<b>8 7/8"</b>						
TOTAL DEPTH <b>3350'</b>	TUBING DEPTH	SMOTS/FT	SURFACE PIPE ANNULUS LONG			
	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE <b>7"</b>	TUBING CONDITION	TREATMENT VIA	TUBING			
CASING DEPTH <b>3324'</b>	<b>287' 2 1/2"</b>		TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <b>23#</b>	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE <input checked="" type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MSC PUMP <input type="checkbox"/> OTHER		BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HP = RATE X PRESSURE X 40.8	
CASING CONDITION <b>good</b>						

INSTRUCTIONS PRIOR TO JOB **MTRU sm circ 10 bbl mud plug (rep 128) 10 bbl fresh m+p**  
**2.75 sls of N-Gel-12 @ 12 gal water report 12.04 gal/sk 79 BBLs m+p water vialok**  
**2.2 lb cement then m+p 250 sls B6-1ite @ 13.8 gal water report 6.28 gal/sk 30**  
**BBLs m+p water vialok 1.33 cu ft sk shut down dropping Displace w/ 129.2 BBLs then**  
**land plug bleed off pressure rig down 20% excess**

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS

Time	Pressure (psi)	Flow Rate (gpm)	Notes
10:30 AM			Start
12:50 p.m.			
1:05 p.m.			
1:11 p.m.			land plug
1:46 p.m.			
2:10 p.m.			rig down
2:15 p.m.			Displace
2:18	10	100	
2:20	20	200	
2:22	30	200	
2:25	40	300	
2:27	50	300	
2:29	60	400	
2:32	70	500	
2:35	80	600	
2:38	90	700	w/ 1500 psi
2:41	100	800	
2:44	110	900	
2:47	120	900	
2:57	129	1500	20 BBL cement top +

**T. Th**  
 AUTHORIZATION TO PROCEED

TITLE \_\_\_\_\_ DATE **8-20-12**

Customers hereby acknowledge and specifically agree 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



**WATER ANALYSIS**

COMPANY: NOBLE ENERGY  
\_\_\_\_\_  
\_\_\_\_\_  
FAX: \_\_\_\_\_  
E-MAIL: \_\_\_\_\_

LEASE: ROGER SWD  
\_\_\_\_\_  
\_\_\_\_\_

DATE: 12/13/2012  
\_\_\_\_\_

SAMPLE NUMBER: WS12131201

**DISSOLVED SOLIDS:**  
**CATIONS:**

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

**WELL DATA**

Depth: \_\_\_\_\_ ft  
Formation: \_\_\_\_\_  
Water BPD: \_\_\_\_\_

**ANIONS**

Chlorides, Cl ppm: 17,000  
Sulfates, SO<sub>4</sub>, ppm: 800  
Bicarbonates, HCO<sub>3</sub> ppm: 2,935  
Carbonates, CO<sub>3</sub> ppm: \_\_\_\_\_

**OTHER PROPERTIES**

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

Total Dissolved Solids (Calculated) ppm: 31,695  
Derived from Specific Gravity, ppm: 32,800  
Iron, Fe (Total) ppm: 3  
Sulfide, as H<sub>2</sub>S ppm: 0

**REMARKS AND RECOMMENDATIONS:**

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

Analyst: Matthew Hoffman