



KANSAS CORPORATION COMMISSION 1072226  
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: Cheryl Johnson  
Phone: ( 303 ) 228-4437  
CONTRACTOR: License # 8273  
Name: Excell Services, LLC  
Wellsite Geologist: NA  
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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
8/11/2011    8/12/2011    8/24/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date    Recompletion Date

API No. 15 - 15-023-21316-00-00  
Spot Description: \_\_\_\_\_  
SE NW SW SW Sec. 23 Twp. 5 S. R. 40  East  West  
700 Feet from  North /  South Line of Section  
585 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Cheyenne  
Lease Name: Bandel Well #: 14-23  
Field Name: \_\_\_\_\_  
Producing Formation: Niobrara  
Elevation: Ground: 3645 Kelly Bushing: 3587  
Total Depth: 1607 Plug Back Total Depth: 1543  
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: 0 ppm Fluid volume: 0 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 Garriso Date: 01/26/2012



1072226

Operator Name: Noble Energy, Inc. Lease Name: Bandel Well #: 14-23  
 Sec. 23 Twp. 5 S. R. 40  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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Triple Combo CBL/CCL/GR	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Niobrara</td> <td>1404</td> <td></td> </tr> </table>	Name	Top	Datum	Niobrara	1404	
Name	Top	Datum					
Niobrara	1404						

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	9.8750	7	17	396.7	50/50 POZ	185	3% CaCl 2% gel
Production	6.25	4.5	10.50	1582.7	50/50 POZ	102	12%gel 2% CaCl

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 <i>(Amount and Kind of Material Used)</i>	Depth
3	Perf intervals: 1404-1440	Frac'd w/500 gals 7.5% HCL acid; 114 bbls MAV-100 gelled water	
	(36' 108 holes) .410 EH 120 deg	pad; 218 bbls MAV-100 gelled waterw/50,020 16/30 Daniel Sand;	
		& 13,020# 12/20 Daniel Sand; 8.30 bbls MAV-100 gelled water	
		flush	

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Waiting on hookup</u>
---	--	--

# BISON OIL WELL CEMENTING, INC.



1738 W. Wacker, St. Ste 100  
 Denver, Colorado 80202  
 Phone: 303-296-3710  
 Fax: 303-296-8142  
 E-mail: bisonoil@westoffice.net

REF. INVOICE # 10090

LOCATION: St. Francis

FOREMAN: Travis R. Klay

## TREATMENT REPORT

DATE <b>3-11-11</b>	WELL NAME <b>Bandel 14-23</b>	SECTION <b>23</b>	TWP <b>55</b>	R1E <b>40W</b>	COUNTY <b>Cherokee</b>	FOREMASTER
CHANGE TO <b>Excell</b>	OWNER <b>Nobel</b>		OPERATION			
MAJOR ADDRESS	CITY		CONTRACTOR <b>Excell rig #2</b>			
STATE # & ZONE	TIME ARRIVED ON LOCATION <b>7pm</b>		REGU <b>11pm</b>		DISTANCE TO LOCATION <b>87miles</b>	
WELL DATA			TIME LEFT LOCATION <b>1am</b>			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	SURFACE PIPE AVAILABLE LONG		THEORETICAL	INSTRUCTED
<b>9 7/8</b>						
TRELL DEPTH <b>402'</b>	TUBING DEPTH	SHOTS-FT	FIRING			
<b>PBTD 357</b>	TUBING WEIGHT	OPEN HOLE	TUBING			
CASING SIZE <b>7"</b>	TUBING CONDITION	TREATMENT WA	TYPE OF TREATMENT			
CASING DEPTH <b>396</b>			1 SURFACE PIPE		TREATMENT RATE	
CASING WEIGHT <b>17 lbs</b>	PACKER DEPTH		1 PRODUCTION CASING		TREATMENT OVER BPM	
CASING CONDITION <b>good</b>			1 SQUEEZE CEMENT		DUSTY BPM	
PRESSURE SUMMARY			1 ACID BREAKDOWN		FOUL BPM	
BREAKDOWN OR CRUMBLING PSI	AVERAGE PSI		1 ACID STIMULATION		MAXIMUM BPM	
FINAL DISPLACEMENT IN	ISIP	PSI	1 ACID SPOFFING		AVERAGE BPM	
APPROX PSI	5 MIN SEP	PSI	1 MISC FLUID		N/A	
MAXIMUM PSI	15 MIN SEP	PSI	1 OTHER		N/A	
MINIMUM PSI			N/A BPM = RATE X PRESSURE X 40.6			

INSTRUCTIONS PRIOR TO JOB **MIRV Safety Circ m+p 185 SKs of B3-1.1c 15.2 lb/gal**  
**1.07 yld, 4.7 gal/SK mix 19.5 bbl drop plug displace 14.8 bbl shut**  
**well in, clean up move off location, 190% excess**  
**Ans 764%**  
**Cap 104150**

### OB SUMMARY

#### DESCRIPTION OF JOB EVENTS

**MIRV Safety Circ. m+p drop plug displace shut in**  
**11:50am 11:50pm 11:52pm 11:53pm 12:11am 12:17am 12:18am**  
**10pm 12:15 to 4ops 12:17am 14.8 12ops**

**8 bbls to the pit**

*[Signature]*

*[Signature]*

**8/11/11**

AUTHORIZATION TO PROCEED

TITLE

DATE

I, the undersigned 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

**BISON OIL WELL CEMENTING, INC.**



1738 W. Hampden St. Ste. 100  
 Denver, Colorado 80202  
 Phone: 303-295-2747  
 Fax: 303-295-6143  
 E-mail: bisonoil@bisonoil.com

REF. INVOICE # 10100  
 LOCATION: St. Francis  
 FOREMAN: Timothy R. Kelley

**TREATMENT REPORT**

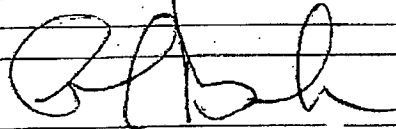
DATE	WELL NAME	SECTION	FWD	HE	DEPTH	FORMER
8-13-11	Bandel 14 23	23	55	40 W	ckeyme	
COMPANY TO: <u>Excell</u>			OWNER: <u>Nobel</u>			
MANUFACTURER:			OPERATOR:			
CONTRACTOR: <u>Excell Pig #2</u>						
DISTANCE TO LOCATION: <u>87 miles</u>						
TIME ARRIVED ON LOCATION: <u>10pm</u>			TIME LEFT LOCATION: <u>5:30 am</u>			
REQD: <u>380 am</u>						

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE: <u>6 7/8</u>	TUBING SIZE:	PERFORATIONS:		THEORETICAL	RESTRICTED
TOTAL DEPTH:	TUBING DEPTH:	SHOTS/FT:	SURFACE PIPE ANNULUS LONG		
PBTD # <u>1542</u>	TUBING WEIGHT:	OPEN HOLE:	SHOCK		
CASING SIZE: <u>4 1/2</u>	TUBING CONNECTION:	TREATMENT W/L:	TUBING		
CASING DEPTH: <u>1576</u>			TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT: <u>105</u>	PACKER DEPTH:		<input type="checkbox"/> SURFACE PIPE	BREAKDOWN OF:	
CASING CONNECTION: <u>good</u>			<input checked="" type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
PRESSURE SUMMARY			<input type="checkbox"/> COFFEY CEMENT	FINAL BPM	
BREAKDOWN OF CIRCULATING: <u>00</u>	AVERAGE: <u>00</u>		<input type="checkbox"/> LACID BREAKDOWN	INITIAL BPM	
FINAL DISPLACEMENT: <u>00</u>	ISP: <u>00</u>		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
APPLIC: <u>00</u>	5 MIN SP: <u>00</u>		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MAXIMUM: <u>00</u>	15 MIN SP: <u>00</u>		<input type="checkbox"/> MISC. OTHER	HYD HEAD = RATE X PRESSURE X 4.015	
MINIMUM: <u>00</u>					

INSTRUCTIONS PRIOR TO JOB: MTRU Safety, Circ m+p 54 sks of Npel-12 12.0 lb/gal  
2.21 yd 12.0 gal/sk m+p 46 sks of Bg-lite 13.8 lb/gal 1.33 yd 6.28  
gal/sk drop ply disphce 245 bbls Shut well in, clean up, move off  
location 1st mix water 15.4 2nd mix water 6.8 bbl  
Ann. 1026 Cap. 0159

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS  
MTRU Safety Circ m+p lead m+p lead Drop ply  
2:45 am 3:46 am 3:49 am 3:56 am 4:01 am 4:16 am

Displace Shut in 4:29 am @ 1810 psi  
4:17 am  
10 psi 10 4:21 am 1 BBL to pit  
290 psi 20 4:25 am  
1810 psi 24.5 4:29 am lead 20% EXCESS



AUTHORIZATION TO PROCEED TITLE DATE

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

KB: 6 Ft

Casing: .7 inch

Well Name: Bandel 14-23      Location: Sec 23, 5S, 40W, Cheyenne Co.

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	W/ Grade	Description
	0.00	0.00			17	
1	39.07	39.07	-396.68	-357.61		Centralizer & Baffle Plate
2	38.98	78.05	-357.61	-318.63		
3	39.10	117.15	-318.63	-279.53		
4	39.03	156.18	-279.53	-240.50		
5	39.11	195.29	-240.50	-201.39		
6	39.09	234.38	-201.39	-162.30		
7	38.97	273.35	-162.30	-123.33		
8	39.10	312.45	-123.33	-84.23		
9	39.09	351.54	-84.23	-45.14		
10	39.14	390.68	-45.14	-6.00		
11						
12						
13						
14					# Jts Ran 10	
15					Meas. 390.68	
16					Set @ 396.68	
17					Aprox TD @ 402	
18					PBTD @ 357.61	
19					Threads On 392.66	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL	390.68					

KB-GL: 6 Ft

Casing: 4.5 10.5 # J-55

Well Name: Bandel 14-23 Location: Sec 23, 5S, 40W, Cheyenne Co. KS

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	WV Grade	Description
	1.32	1.32	-1582.71	-1581.39		AFU SHOE
1	38.79	40.11	-1581.39	-1542.60	10.5#J-55	Centralizer & Latch
2	38.82	78.93	-1542.60	-1503.78		Centralizer
3	38.78	117.71	-1503.78	-1465.00		Centralizer
4	42.02	159.73	-1465.00	-1422.98		Centralizer
5	40.57	200.30	-1422.98	-1382.41		Centralizer
6	42.07	242.37	-1382.41	-1340.34		Centralizer
7	21.29	263.66	-1340.34	-1319.05		Centralizer
8	42.10	305.76	-1319.05	-1276.95		Centralizer
9	42.12	347.88	-1276.95	-1234.83		
10	42.10	389.98	-1234.83	-1192.73		
11	42.08	432.06	-1192.73	-1150.65		
12	42.15	474.21	-1150.65	-1108.50		
13	39.33	513.54	-1108.50	-1069.17		
14	38.35	551.89	-1069.17	-1030.82		
15	39.31	591.20	-1030.82	-991.51		
16	39.37	630.57	-991.51	-952.14		
17	38.98	669.55	-952.14	-913.16		
18	42.11	711.66	-913.16	-871.05		
19	41.95	753.61	-871.05	-829.10		
20	43.84	797.45	-829.10	-785.26		
21	40.41	837.86	-785.26	-744.85		
22	42.16	880.02	-744.85	-702.69		
23	42.08	922.10	-702.69	-660.61		
24	38.83	960.93	-660.61	-621.78		
25	38.70	999.63	-621.78	-583.08		
26	42.94	1042.57	-583.08	-540.14		
27	42.13	1084.70	-540.14	-498.01		
28	39.55	1124.25	-498.01	-456.46		
29	42.05	1166.30	-456.46	-416.41		
30	42.00	1208.30	-416.41	-374.41		
31	42.14	1250.44	-374.41	-332.27		
32	40.69	1291.13	-332.27	-291.58		
33	42.08	1333.21	-291.58	-249.50		
34	38.78	1371.99	-249.50	-210.72		
35	42.17	1414.16	-210.72	-168.55		
36	42.08	1456.24	-168.55	-126.47		
37	39.63	1495.87	-126.47	-86.84		
38	42.08	1537.95	-86.84	-44.76		
39	38.76	1576.71	-44.76	-6.00		
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
TOTAL		1576.71				

JTs Ran 39  
 Meas w/shoe 1576.71  
 Set @ 1582.71  
 PSTD @ 1542.60