



KANSAS CORPORATION COMMISSION 1070884
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 #:

8/19/2011	8/20/2011	8/31/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21331-00-00
Spot Description:
W2 SE SE SE Sec. 16 Twp. 3 S. R. 42 East West
330 Feet from North / South Line of Section
410 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Cheyenne
Lease Name: Rueb Farm Well #: 44-16B
Field Name: Cherry Creek Niobrara Gas Area
Producing Formation: Niobrara
Elevation: Ground: 3704 Kelly Bushing: 3710
Total Depth: 1727 Plug Back Total Depth: 1661
Amount of Surface Pipe Set and Cemented at: 306 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 cm.

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 Garrison Date: 02/02/2012



1070884

Operator Name: Noble Energy, Inc. Lease Name: Rueb Farm Well #: 44-16B
 Sec. 16 Twp. 3 S. R. 42 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: <small>compensated neutron cbl/ccl/gr triple combo</small>	<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>1516</td> <td></td> </tr> </table>	Name	Top	Datum	Niobrara	1516	
Name	Top	Datum					
Niobrara	1516						

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	9.875	7	17	306	50/50 Poz	150	3% CaCl, 2% Gel, .25% Flo-Ce
Production	6.25	4.5	10.5	1702	50/50 Poz	110	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 (Amount and Kind of Material Used)	Depth
3	Perf intervals: 1516-1554	Frac'd w/500 gal 7.5% HCl acid; 114 Mav-100 gelled water pad;	
	(38' 114 holes) .410 EH 120 deg	256 bbls Mav-100 gelled water w/50,000# 16/30 Texas Gold Sand &	
		50,000# 12/20 Texas Gold Sand; 9.6 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. 9/13/2011		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. 0	Gas Mcf 50	Water Bbls. 0
Gas-Oil Ratio		Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 1516-1554
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BISON

Invoice

*PC
Brown*

Bison Oil Well Cementing Inc.
1738 Wynkoop St.
Suite 102
Denver, CO 80202
303-296-3010

Date	Invoice #
8/19/2011	10107

Bill To
Excell Services, LLC 36629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne KS	Rueb Farm 44-16B	Surface	Net 30		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1		1,400.00	1,400.00
MILEAGE	Truck Mileage charge	132		4.00	528.00
MILEAGE	Crew Mileage charge	66		1.50	99.00
	Subtotal of Services				2,027.00
BI-Lite Sumner	50/50 Poz (3%)	150	Sack	16.50	2,475.00
Discount 10%	Discount 10%			-10.00%	-247.50
	Subtotal of Materials				2,227.50
					4,254.50
Please Remit Invoices To:				Subtotal	\$4,254.50
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229				Sales Tax (8.3%)	\$384.89
				Total	\$4,439.39
				Balance Due	\$4,439.39

X 110%
\$4883.33

RECEIVED
AUG 24 2011

BISON OIL WELL CEMENTING, INC.



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

REF INVOICE # 10107
 LOCATION St Francis
 FOREMAN Louis Ritchey

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-19-11	Rueb Farm	16	35	42W		
GRABBE TO	EXCELL		OWNER Nobel			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR EXCELL N.G. #2			
STATE ZIP CODE			DISTANCE TO LOCATION 66			
TIME ARRIVED ON LOCATION	10:45 am		req. 11:30		TIME LEFT LOCATION 1 pm	

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
9 7/8						
TOTAL DEPTH 311	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG			
PRTD 267	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE 7"	TUBING CONDITION		TUBING			
CASING DEPTH 306		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT 17 lbs	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
PRESSURE SUMMARY			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
FINAL DISPLACEMENT psi	150' psi		<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
ANNULUS psi	5 MIN SP psi		<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
MAXIMUM psi	15 MIN SP psi		<input type="checkbox"/> MISC PUMP			
MINIMUM psi			<input type="checkbox"/> OTHER		HYD FRP = RATE X PRESSURE X 4.88	

INSTRUCTIONS PRIOR TO JOB: MTRD Safety Cit M4P - 150 sks of B3-1/4 15.2 lbs, 1.07 x 10⁴ 4.7 gal/sks 15 bbls of mix drop plug displace 11 bbls shut well in, clean up move off location.

JOB SUMMARY

DESCRIPTION OF JOB EVENTS

MTRD Safety Cit M4P drop plug displace shut in
 11:00 am 11:25 am 11:45 am 11:46 am 11:59 am 12:00 pm 12:04 @ 100 psi
 12:04 pm 11:00 psi

100% excess

6 bbls to the put

[Signature]
 AUTHORIZATION TO PROCEED

[Signature]
 TITLE

8/19/11
 DATE

Customer hereby authorizes and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which describe the risks and liability.



BISON

Invoice

PC
Blm

Bison Oil Well Cementing Inc.
 1738 Wynkoop St.
 Suite 102
 Denver, CO 80202
 303-296-3010

Date	Invoice #
8/20/2011	10108

Bill To
Excel Services, LLC 36629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne KS	Ruch Farm 44-16B	Production	Net 30		
Item	Description	Qty	U/M	Rate	Amount
Pump Charge - ...	Pump Charge - Production Pipe	1		2,000.00	2,000.00
MILEAGE	Truck Mileage charge	130		4.00	520.00
MILEAGE	Crew Mileage charge	65		1.50	97.50
Data Acquisition...	Data Acquisition Charge	1		225.00	225.00
	Subtotal of Services				2,842.50
KCL	KCL Displacement	3		25.00	75.00T
N-Gel-12	Lead 12lb	64	Sack	16.50	1,056.00T
Discount 10%	Discount 10%			-10.00%	-105.60
B3-Lite Summ...	50/50 Poz (3%)	46	Sack	16.50	759.00T
Discount 10%	Discount 10%			-10.00%	-75.90
	Subtotal of Materials				1,708.50
					4,551.00

Please Remit Invoices To:

Bison Oil Well Cementing, Inc.
 P.O. Box 29671
 Thornton, CO 80229

Subtotal	\$4,551.00
Sales Tax (8.3%)	\$374.81
Total	\$4,925.81
Balance Due	\$4,925.81

x 116%
 \$5,712.09

RECEIVED
 AUG 24 2011

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-298-3010
 Fax: 303-298-6143
 E-mail: bisonoil@qwestoffice.net

REF. INVOICE # 10108
 LOCATION St. Francis
 FOREMAN Rachel Newby

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-20-11	Rueb Farm 44-16B	16	3S	42W	Cherokee	
CHARGE TO <u>Excell</u>			OWNER <u>Noble</u>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <u>Excell Log 2</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>6.5 mi</u>			
TIME ARRIVED ON LOCATION <u>7:30 AM</u>			TIME LEFT LOCATION <u>11:30 AM</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>6 7/8</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1727</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>4 1/2</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1701'</u>	PORT <u>16 1/4"</u>	TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>10.5 lb</u>	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>good</u>			<input checked="" 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 HRP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB MTRU 5m Circ mfg 64 sk g=N-60-D-12/16/52
water req 12.09 gal/sk / 8 bbl mix water yield 2.21 cu/sk mfg 4 bbl/sk
of 13.6 cu/sk @ 13.8 lb/gal water req 6.28 gal/sk 7 bbl mix water yield
1.33 cu/sk Drop plug displace w @ 2.4 bbls 2 1/2 cu/sk water level plug
dis down Annulus 10:26 cap 10:54 25% excess

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS MTRU 5m Circ mfg mfg Drop plug
7:30 AM 10:20 AM 10:26 AM 10:38 AM 10:35 10:40 AM
Displace 10:41 10:50 w/1200 psi 10:53 AM
10:43 10 100 PSI
10:46 20 400 PSI
10:50 264 1200 PSI

3 BBLs Cement to pipe

[Handwritten Signature]

8-20-11

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 hereof which include the release and indemnity.

KB: 6 Ft

Casing: 7 inch

Well Name: Rueb Farm 44-16B

Location: Sec 16, 3S, 42W, Cheyenne Co.

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	Wt/Grade	Description
1	38.76	38.76	-306.09	-267.33	17	Centralizer & Baffle Plate
2	36.81	75.57	-267.33	-230.52		
3	39.94	115.51	-230.52	-190.58		
4	33.42	148.93	-190.58	-157.16		
5	39.13	188.06	-157.16	-118.03		
6	38.68	226.74	-118.03	-79.35		
7	34.78	261.52	-79.35	-44.57		
8	38.57	300.09	-44.57	-6.00		
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31						
TOTAL	300.09					

Jts Ran 8
Meas: 300.09
Set @ 306.09
Aprox TD @ 311
PBD @ 267.33
Threads On 301.67

KB-GL: 8 Ft

Casing: 4.5 10.5 # J-55

Well Name: Rueb Farm 44-16B Location: Sec 16, 3S, 42W, Cheyenne Co, KS

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of J)	Depth KB, Ft (top of J)	WV Grade	Description
	1.32	1.32	-1701.60	-1700.28		AFU SHOE
1	39.05	40.37	-1700.28	-1661.23	10.5#J-55	Centralizer & Latch
2	39.30	79.67	-1661.23	-1621.93		Centralizer
3	39.14	118.81	-1621.93	-1582.79		Centralizer
4	39.40	158.21	-1582.79	-1543.39		Centralizer
5	38.70	196.91	-1543.39	-1504.69		Centralizer
6	39.22	236.13	-1504.69	-1465.47		Centralizer
7	21.28	257.41	-1465.47	-1444.19		Centralizer
8	39.34	296.75	-1444.19	-1404.85		Centralizer
9	38.72	335.47	-1404.85	-1366.13		
10	39.38	374.85	-1366.13	-1326.75		
11	39.33	414.18	-1326.75	-1287.42		
12	38.89	453.07	-1287.42	-1248.53		
13	39.40	492.47	-1248.53	-1209.13		
14	39.18	531.65	-1209.13	-1169.95		
15	39.28	570.91	-1169.95	-1130.69		
16	39.20	610.11	-1130.69	-1091.49		
17	38.28	648.39	-1091.49	-1053.21		
18	38.85	687.04	-1053.21	-1014.56		
19	38.35	725.39	-1014.56	-976.21		
20	38.86	764.25	-976.21	-937.35		
21	39.16	803.41	-937.35	-898.19		
22	37.79	841.20	-898.19	-860.40		
23	38.18	879.38	-860.40	-822.22		
24	38.99	918.37	-822.22	-783.23		
25	38.74	957.11	-783.23	-744.49		
26	39.30	996.41	-744.49	-705.19		
27	39.32	1035.73	-705.19	-665.87		
28	38.31	1075.04	-665.87	-626.56		
29	38.73	1113.77	-626.56	-587.83		
30	38.47	1152.24	-587.83	-549.38		
31	38.59	1190.83	-549.38	-510.77		
32	38.55	1229.38	-510.77	-472.22		
33	38.18	1267.56	-472.22	-434.04		
34	38.64	1306.20	-434.04	-395.40		
35	38.54	1344.74	-395.40	-356.86		
36	38.13	1382.87	-356.86	-318.73		
37	37.94	1420.81	-318.73	-280.79		
38	39.20	1460.01	-280.79	-241.59		
39	39.29	1499.30	-241.59	-202.30		
40	39.27	1538.57	-202.30	-163.03		
41	39.23	1577.80	-163.03	-123.80		
42	38.30	1617.10	-123.80	-84.50		
43	39.34	1656.44	-84.50	-45.16		
44	39.16	1695.60	-45.16	-6.00		
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85						
TOTAL		1695.60				

JTs Ran 44
 Meas w/shoe 1695.60
 Set @ 1701.60
 PBTD @ 1661.23

Threads On 1703.81