



KANSAS CORPORATION COMMISSION 1070882
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 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 #: _____

ENHR Permit #: _____

GSW Permit #: _____

<u>8/16/2011</u>	<u>8/17/2011</u>	<u>8/29/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21330-00-00

Spot Description: _____
SE SW NW NE Sec. 16 Twp. 3 S. R. 42 East West

1270 Feet from North / South Line of Section

2240 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 #: 31-16B

Field Name: _____

Producing Formation: Niobrara

Elevation: Ground: 3730 Kelly Bushing: 3736

Total Depth: 1757 Plug Back Total Depth: 1700

Amount of Surface Pipe Set and Cemented at: 318 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 Garcia Date: 02/02/2012



1070882

Operator Name: Noble Energy, Inc. Lease Name: Rueb Farm Well #: 31-16B
 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 (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" 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	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Niobrara	1533	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				
Induction Triple Combo CBUCCUGR				

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	317.8	50/50 POZ	150	3% CaCl 2% gel
Production	6.25	4.5	10.5	1740.4	50/50 POZ	112	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 1533 - 1587	Frac'd w/500 gals 7.5% HCl acid; 161 bbls Mav-100 gelled water pad;	
	(54' 162 holes) .410 EH 120 deg	362.5bbls Mav-100 gelled water w/99,020# 16/30 Daniels Sand &	
		51,260# 12/20 Daniels Sand; 9.7 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 85	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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4)	PRODUCTION INTERVAL: 1533-1587
<input type="checkbox"/> Other (Specify) _____		



BISON

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

Invoice

Date	Invoice #
8/16/2011	10102

Bill To
Excell Services, LLC 36624 US HIGHWAY 385 Wyo, CO 80738

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne KS	Ruch Farm 31-16B	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	130		4.00	520.00
MILEAGE	Crew Mileage charge	65		1.50	97.50
Data Acquisitio..	Data Acquisition Charge			225.00	225.00
	Subtotal of Services				2,242.50
B3-Late Summer... Discount 10%	50/50 Poz (3%) Discount 10%	150	Sack	16.50 -10.00%	2,475.00 -247.50
	Subtotal of Materials				2,227.50
					4,470.00

Please Remit Invoices To:

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

Subtotal	\$4,470.00
Sales Tax (8.3%)	\$371.89
Total	\$4,841.89
Balance Due	\$4,654.89

x 11090
 \$ 5,120.38

RECEIVED
 AUG 24 2011

BISON OIL WELL CEMENTING, INC.



1755 W. 100th St., Ste. 101
 Denver, Colorado 80232
 Phone 303-298-5011
 Fax 303-298-5142
 E-mail: bison@bisonoilwell.com

REF. INVOICE = 10102
 LOCATION St. Francis
 FOREMAN T. Lewis Ritchey

TREATMENT REPORT

DATE	WELL NAME	SECTION	WELL ID	WELL TYPE	FRAC'T	FRAC'T. TYPE
8-16-11	Rueb Farm 31-16B	16	38S	42W	cheyenne	
ORDER TO	EXCELL		INNER <u>Nobel</u>			
OPERATION			OPERATION			
CITY			CONTACTOR <u>EXCELL R. 9 #2</u>			
STATE			DISTANCE TO LOCATION: <u>65</u>			
TIME ARRIVED ON LOCATION	<u>11:45am</u>		<u>req 12pm</u>		TIME LEFT LOCATION: <u>1:30pm</u>	

WELL DATA			PRESSURE LIMITATIONS		
PIPE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
<u>9 7/8</u>					
TOTAL DEPTH: <u>373</u>	TUBING DEPTH	SHOTS/FI	SURFACE HPC ANNUBUS LOGS		
<u>P5TD 279</u>	TUBING WEIGHT	OPEN HOLE	STING		
CASING SIZE <u>7"</u>	TUBING CONNECTION		TUBING		
CASING DEPTH <u>317</u>		TREATMENT VOLUME	TYPE OF TREATMENT		
CASING WEIGHT <u>17165</u>	INNER DEPTH		<input checked="" type="checkbox"/> SURFACE HPC	TREATMENT RATE	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	OPERATION DPH	
			<input type="checkbox"/> SOLUBLE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MAXIMUM DPH	
			<input type="checkbox"/> ACID STIMULATION	AVERAGE BPM	
			<input type="checkbox"/> ACID SPOTTING	FINAL BPM	
			<input type="checkbox"/> MISC. PUMP	MAXIMUM DPH	
			<input type="checkbox"/> OTHER	AVERAGE BPM	
				INITIAL BPM = RATE X PRESSURE X 40 L	

PRESSURE SUMMARY			TREATMENT RATE		
BREAKDOWN OF CALCULATING	AVERAGE	PSI			
FINAL DISPLACEMENT	ISIP	PSI			
ANNUBUS	5 MIN ISIP	PSI			
MAXIMUM	15 MIN ISIP	PSI			
MINIMUM					

INSTRUCTIONS PRIOR TO JOB: MIRU Safety, C.R.C. m+p 1500gk of B3-lite 15.2 lb/gal 1.07 yld
4.2 gal/sk ~~displace~~ 15 bbls of mix water, drop plug displace
11.5 bbls of water shut in, clean up, move off location
90% excess 6 BBL to the pit

JOB SUMMARY						
DESCRIPTION OF JOB EVENTS						
<u>11:45am</u>	<u>12:01pm</u>	<u>12:13pm</u>	<u>12:16pm</u>	<u>12:29pm</u>	<u>12:30pm</u>	<u>12:36</u>
				<u>12:35pm 20 100psi</u>		
				<u>12:36pm 11.5 125psi</u>		

[Signature] AUTHORIZATION TO PROCEED
[Signature] TITLE
8/16/11 DATE

Customers hereby acknowledge and specifically agree to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side (which shall include but not be limited to) release and indemnity.



BISON

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

Invoice

pc
Done

Date	Invoice #
8/17/2011	1009

Bill To
Excell Services, LLC 76629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne KS	Ruch Farm 31-160	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 Acquisitio..	Data Acquisition Charge	1		225.00	225.00
	Subtotal of Services				2,842.50
KCL	KCL Displacement	2		25.00	50.00
N-Gel-12	Lead 12lb	66	Sack	16.50	1,089.00
Discount 10%	Discount 10%			-10.00%	-108.90
B3-Lite Sumner..	50:50 Poz (3%)	46	Sack	16.50	759.00
Discount 10%	Discount 10%			-10.00%	-75.90
	Subtotal of Materials				1,713.20
				Subtotal	\$4,555.70
Please Remit Invoices To:				Sales Tax (8.3%)	\$142.20
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229				Total	\$4,697.90
				Balance Due	\$4,697.90

X 110%
 \$5,167.69

RECEIVED
 AUG 24 2011

BISON OIL WELL CEMENTING, INC.



1736 Wynkoop St. Ste. 100
 Denver, Colorado 80202
 Phone 303 296-3010
 Fax 303 296-6143
 E-mail bisonoil@qwestoffice.net

REF. INVOICE # 10097
 LOCATION St. Francis
 FOREMAN Randy Newmyer

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RANGE	COUNTY	STATE
8-17-11	Rueb Farm 31-16B	16	3S	42W	Cherokee	OK
OWNER TO	OPERATOR		WELL #			
EXCELL	Noble					
ADDRESS	CONTRACTOR		DISTANCE TO LOCATOR			
	EXCELL rig 2		6.5 mi			
CITY	TIME LEFT LOCATOR					
	12:45					
STATE OF OKLA	TIME ARRIVED ON LOCATION					
	9:45 AM					
	10:30 AM					

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORMANCE	THEORETICAL		INSTRUCTED
6 7/8"					
TOTAL DEPTH 1757'	TUBING DEPTH	SHOTS/FIT	SURFACE TYPE AND LOSS CONC.		
			STRIKING		
CASING SIZE 4 1/2"	TUBING WEIGHT	OPEN HOLE	TUBING		
CASING DEPTH 1740'	TUBING CONDITION	TREATMENT WA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 110.5	ROD-UP DEPTH		1 SURFACE PUMP	BREAKDOWN BPM	
CASING CONDITION good			1 PERFORATION CASING	INITIAL BPM	
			1 SQUEEZE CEMENT	FINAL BPM	
			1 ACID BREAKDOWN	MAXIMUM BPM	
			1 ACID STIMULATION	MAXIMUM BPM	
			1 ACID SPOTTING	AVERAGE BPM	
			1 MISC PUMP		
			1 OTHER		
PRESSURE SUMMARY			NOTE: BPM = RATE X PRESSURE X 2.0 X		
BREAKDOWN OF CIRCULATING	PSI	AVERAGE	BL		
FINAL DISPLACEMENT	DIS	ISIP	PSI		
ANNULUS	DIS	5 MIN ISIP	PSI		
MAXIMUM	PSI	15 MIN ISIP	PSI		
MINIMUM	PSI				

INSTRUCTIONS PRIOR TO JOB: MTRU 5m circ m+p 66 sk of Nafel-12 @ 12.16 gal water report 12.04 gal/sk 19 bbl mix water yield of 2.2 lbm/sk m+p 46 sks of 136-112 @ 13.5 lb/gal water report 6.28 gal/sk 7 bbl mix water yield of 1.33 lbm/sk Drop Plug Displace w/ 27 bbl 2 1/2 KCl water 25% excess as for Mark 2 ion tool pusher

JOB SUMMARY						
DESCRIPTION OF JOB EVENTS	MTRU	5m	circ	m+p	m+p	Drop Plug
	10:00 AM	11:00 AM	11:56 AM	11:58 AM	12:04 PM	12:09
Displace		14 min plug	14 min	14 min	14 min	14 min
	12:16 P.M.	12:23 PM	12:30 PM			
	12:19 10 150					
	12:22 20 200					
	12:25 27 1500					

5 Bbl/s Topit

[Signature] [Signature] TITLE DATE 8/17/11

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.

K. : 6 Ft

Casing: 7 inch

Well Name: Rueb Farm 31-16B

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)	WU Grade	Description
	0.00	0.00			17	
1	38.66	38.66	-317.83	-279.17		Centralizer & Baffle Plate
2	39.09	77.75	-279.17	-240.08		
3	39.11	116.86	-240.08	-200.97		
4	39.15	156.01	-200.97	-161.82		
5	39.10	195.11	-161.82	-122.72		
6	39.29	234.40	-122.72	-83.43		
7	38.71	273.11	-83.43	-44.72		
8	38.72	311.83	-44.72	-6.00		
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26						
27						
28						
29						
30						
31						
TOTAL	311.83					

Jts Ran 8
Meas. 311.83
Set @ 317.83
Aprox TD @ 323
PBD @ 279.17
Threads On 313.41

KB-G1: 6 Ft

Casing: 4.5 10.5 # J-65

Well Name: Rueb Farm 31-16B 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)	W/ Grade	Description
1	1.32	1.32	-1740.36	-1739.04		AFU SHOE
2	38.30	40.48	-1739.04	-1699.88	10.5#J-65	Centralizer & Latch
3	38.40	78.78	-1699.88	-1661.58		Centralizer
4	38.22	117.18	-1661.58	-1623.18		Centralizer
5	38.50	155.40	-1623.18	-1584.98		Centralizer
6	38.50	193.90	-1584.98	-1546.48		Centralizer
7	38.37	233.27	-1546.48	-1507.09		Centralizer
8	18.85	252.12	-1507.09	-1468.24		Centralizer
9	38.09	290.21	-1468.24	-1429.15		Centralizer
10	38.98	329.19	-1429.15	-1390.17		
11	38.97	368.18	-1390.17	-1351.20		
12	38.20	406.38	-1351.20	-1312.20		
13	38.61	444.97	-1312.20	-1273.20		
14	38.50	483.47	-1273.20	-1234.20		
15	38.96	522.43	-1234.20	-1195.20		
16	38.88	561.31	-1195.20	-1156.20		
17	38.57	599.88	-1156.20	-1117.20		
18	38.28	638.14	-1117.20	-1078.20		
19	38.70	676.84	-1078.20	-1039.20		
20	38.58	715.42	-1039.20	-1000.20		
21	37.73	753.15	-1000.20	-961.21		
22	38.98	792.11	-961.21	-922.21		
23	38.63	830.74	-922.21	-883.21		
24	38.87	869.61	-883.21	-844.21		
25	38.24	907.85	-844.21	-805.21		
26	38.42	946.27	-805.21	-766.21		
27	38.55	984.82	-766.21	-727.21		
28	39.05	1023.87	-727.21	-688.21		
29	38.50	1062.37	-688.21	-649.21		
30	38.61	1100.98	-649.21	-610.21		
31	38.51	1139.49	-610.21	-571.21		
32	38.91	1178.40	-571.21	-532.21		
33	38.60	1217.00	-532.21	-493.21		
34	38.50	1255.50	-493.21	-454.21		
35	38.65	1294.05	-454.21	-415.21		
36	38.67	1332.72	-415.21	-376.21		
37	38.67	1371.29	-376.21	-337.21		
38	38.79	1410.08	-337.21	-298.21		
39	38.35	1448.43	-298.21	-259.21		
40	39.33	1487.76	-259.21	-220.21		
41	38.82	1526.58	-220.21	-181.21		
42	42.02	1568.60	-181.21	-142.21		
43	40.76	1609.36	-142.21	-103.21		
44	42.09	1651.45	-103.21	-64.21		
45	40.78	1692.21	-64.21	-25.21		
46	42.15	1734.36	-25.21	-8.00		
47						
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83						
84						
85						
TOTAL		1734.36				

JTs Ran 45
 Meas w/shoe 1734.36
 Set @ 1740.36
 PBTD @ 1699.88
 Threads On 1742.88