



KANSAS CORPORATION COMMISSION 1072780
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 #: _____

<u>9/21/2011</u>	<u>9/22/2011</u>	<u>10/3/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21322-00-00

Spot Description: _____
N2 SE SE SE Sec. 21 Twp. 4 S. R. 38 East West
575 Feet from North / South Line of Section
330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Cheyenne

Lease Name: Partch Well #: 44-21

Field Name: _____

Producing Formation: Niobrara

Elevation: Ground: 3502 Kelly Bushing: 3508

Total Depth: 1448 Plug Back Total Depth: 1395

Amount of Surface Pipe Set and Cemented at: 383 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 Garrisor Date: 01/26/2012



1072780

Operator Name: Noble Energy, Inc. Lease Name: Partch Well #: 44-21
 Sec. 21 Twp. 4 S. R. 38 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 type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Niobrara 1267
--	--

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	20	382.7	50/50 POZ	180	3% CaCl 2% Gel
Production	6.25	4.5	10.5	1434.7	50/50 POZ	124	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 1267-1302	Frac'd w/500 gals 7.5% HCl acid; 114 bbls Foam gel water pad; 256 bbls	
	(35' 105 holes) .410 EH deg	Foam gel water w/50,050# 16/30 Texas Gold & 50,160# 12/20 Texas Gold	
		flush w/8.10 bbls Foam gel water.	

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 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

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

Invoice

Date	Invoice #
9/21/2011	10475

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

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne, KS	Paridi-44-21	Surface	Nel 30		
Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMP Charge-surface pipe	1		1,400.00	1,400.00
MILEAGE	Mileage charge	178		4.00	712.00
MILEAGE	Mileage charge	89		1.50	133.50
	Subtotal of Services				2,245.50
B3-Lite Summer... Discount 10%	5050 Poz (3%) Discount 10% Subtotal of Materials	180	Sack	16.50 -10.00%	2,970.00 -297.00 2,673.00
				Subtotal	\$4,918.50
Please Remit Invoices To:				Sales Tax (8.3%)	\$221.86
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229				Total	\$5,140.36
				Balance Due	\$5,140.36

x 110%
 \$5,654.40

RECEIVED
 SEP 30 2011

BISON OIL WELL CEMENTING, INC.



1736 Wynkoop St., Ste 102
 Denver, Colorado 80202
 Phone: 303-298-3010
 Fax: 303-298-5143
 E-mail: bisonoil@cowestoffice.net

REF. INVOICE # 10475
 LOCATION Bird City
 FOREMAN Randy Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-21-11	Patch 44-21	21	45	38W	Cheyenne	
CHANGE TO	INWELL Noble					
MAILING ADDRESS	OPERATOR					
CITY	CONTRACTOR: Excell Rig &					
STATE ZIP CODE	DISTANCE TO LOCATION 89 mi					
TIME ARRIVED ON LOCATION 5:00 pm	TIME LEFT LOCATION 7:30 pm					

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
9 7/8"				
TOTAL DEPTH 388'	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 7"	TUBING CONDITION		TUBING	
CASING DEPTH 382'	Plus 343'	TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT 20#	JACKER DEPTH		1 1/4 SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION good			1 1/2 PRODUCTION CASING	INITIAL BPM
			1 1/2 SQUEEZE CEMENT	FINAL BPM
			1 1/2 ACID BREAKDOWN	MINIMUM BPM
			1 1/2 ACID STRAULATION	MAXIMUM BPM
			1 1/2 ACID SPOTTING	AVERAGE BPM
			1 1/2 ASSCUMIP	
			1 1/2 OTHER	

PRESSURE SUMMARY			TREATMENT RATE	
BREAKDOWN OF CIRCULATING	AVERAGE	psi	INITIAL BPM	FINAL BPM
FINAL DISPLACEMENT	ISIP	psi	MINIMUM BPM	MAXIMUM BPM
ANNULUS	5 MIN SIP	psi	AVERAGE BPM	
MAXIMUM	15 MIN SIP	psi		
MINIMUM		psi		

INSTRUCTIONS PRIOR TO JOB: MTRU 5m circ mtg 180 sks of B3-1.4 @ 15.2 lb/gal
 Water req. at 4.2 gal/sk 18 bbls max water yield @ 1.07 cu ft/sk Drip Plug
 Displace w 13.9 bbls H₂O shut in rig down

90% excess as per mark zone toolpusher

DESCRIPTION OF JOB EVENTS	MTRU	5m	circ	mtg	Drip Plug	Displace
	5:30 pm	6:50 pm	6:55 pm	6:57	7:03 pm	7:06 pm
Shut in						7:09 10 100
7:12 pm						7:11 139 200

7 bbls cement to DIT

Matt Reynolds Driller DATE 9/21/11
 AUTHORIZATION TO PROCEED TITLE

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.



BISON

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

Invoice

Date	Invoice #
9/22/2011	10481

Bill To
Excell Services, LLC 16629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne, KS	Patch 44-21	Production	Net 30		
Item	Description	Qty	U/M	Rate	Amount
Pump Charge -	Pump Charge - Production Pipe	1		2,000.00	2,000.00
MILEAGE	Mileage charge	178		4.00	712.00
MILEAGE	Mileage charge	89		1.50	133.50
	Subtotal of Services				2,845.50
BG-Lite	5# 13.8 lb/gal 50/50 Poz	56	Sack	16.50	924.00T
Discount 10%	Discount 10%			-10.00%	-92.40
N-Gel-12	Lead 12lb	68	Sack	16.50	1,122.00T
Discount 10%	Discount 10%			-10.00%	-112.20
KCL	KCL Displacement	4		25.00	100.00T
KCL Mud Flush	(BHS 117) Subtotal of Materials	2	qt	125.00	250.00T
					2,191.40
					5,036.90
Please Remit Invoices To:				Subtotal	\$5,036.90
Bison Oil Well Cementing, Inc. P.O. Box 2967J Thornton, CO 80229				Sales Tax (8.3%)	\$418.88
				Total	\$5,218.78
				Balance Due	\$5,218.78

X 110%
 \$ 5,740.66

RECEIVED
 SEP 30 2011

BISON OIL WELL CEMENTING, INC.



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

REF. INVOICE # 10481
 LOCATION Zord City
 FOREMAN Early Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-22-11	Partch 44-21	21	45	38W	Cheyenne	
CHANGE TO	OWNER					
EXCELL	Noble					
MAILING ADDRESS	OPERATOR					
CITY	CONTRACTOR					
STATE ZIP CODE	EXCELL 192					
TIME ARRIVED ON LOCATION	DISTANCE TO LOCATION					
3:00 pm	59 mi					
(2) 4:30 pm	TIME LEFT LOCATION					
	9:15 pm					

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
6 1/4"				
TOTAL DEPTH: 1448'	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE: 4 1/2"	TUBING CONDITION	TREATMENT WA	TUBING	

PRESSURE SUMMARY		TREATMENT RATE	
BREAKDOWN or CIRCULATING	AVERAGE	TYPE OF TREATMENT	BREAKDOWN BPM
PSI	PSI	[] SURFACE PIPE	INITIAL BPM
FINAL DISPLACEMENT	15 MIN SIP	[] PRODUCTION CASING	FINAL BPM
ANNULUS	PSI	[] SOLEZZE CEMENT	ANNULUS BPM
MAXIMUM	PSI	[] ACID BREAKDOWN	MAXIMUM BPM
MINIMUM	PSI	[] ACID STIMULATION	AVERAGE BPM
		[] ACID SPOTTING	
		[] MISC PUMP	
		[] OTHER	

INSTRUCTIONS PRIOR TO JOB: MTRU sm mud flush 20 bbls 2% kcl and supp mix @ 12.16/gal water req 12.04 gal/stk 20 bbls mix water 4.16 gal/stk 20 bbls MTRU @ 13.816/gal water req 13.28 gal/stk 8 bbls mix water yield of 1.33 gal/stk Drop plug Displace w/ 22.5 bbls 2% kcl H₂O land plug sig down

DESCRIPTION OF JOB EVENTS	MTRU	SM	M.F.	MTRU	MTRU	Drop Plug
Displace	3:00 pm	8:00	8:10	8:16	8:27	8:34
	8:36					
	8:39 10 100 PSI	land plug		sig down		
	8:43 20 400 PSI	8:45 pm		sig down		
	8:48 22 1250 PSI					

100% kcl
 11 Bbls Cement to pit

Francis Holt
 AUTHORIZATION TO PROCEED

9/22/11
 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.

KB : 6 Ft

Casing: 7 Inch

Well Name: Partch 44-21 | Location: Sec 21, 4S, 38W, Cheyenne Co.

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	WV Grade	Description
	0.00	0.00			20	
1	36.70	36.70	-382.65	-345.95		Centralizer & Baffle Plate
2	39.21	75.91	-345.95	-306.74		
3	39.23	115.14	-306.74	-267.51		
4	39.15	154.29	-267.51	-228.36		
5	39.12	193.41	-228.36	-189.24		
6	33.63	227.04	-189.24	-155.61		
7	39.08	266.12	-155.61	-116.53		
8	35.71	301.83	-116.53	-80.82		
9	36.34	338.17	-80.82	-44.48		
10	38.48	376.65	-44.48	-6.00		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL	376.65					

Jts Ran 10
Meas. 376.65
Set @ 382.65
Aprox TD @ 388
PBD @ 345.95
Threads On 378.63

KB-GL: 6 Ft

Casing: 4.5:10.5 #J-55

Well Name: Patch 44-21

Location: Sec 21, 4S, 38W, Cheyenne Co. KS

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	W/ Grade	Description
1	1.32	1.32	-1434.68	-1433.36		AFU SHOE
2	38.90	40.22	-1433.96	-1394.46	10.5#J-55	Centralizer & Latch
3	39.08	79.30	-1394.46	-1355.38		Centralizer
4	38.78	118.08	-1355.38	-1316.60		Centralizer
5	39.08	157.16	-1316.60	-1277.52		Centralizer
6	39.18	196.35	-1277.52	-1238.33		Centralizer
7	38.92	235.27	-1238.33	-1199.41		Centralizer
8	21.31	256.58	-1199.41	-1178.10		Centralizer
9	39.14	295.72	-1178.10	-1138.96		Centralizer
10	39.42	335.14	-1138.96	-1099.54		
11	39.28	374.42	-1099.54	-1060.26		
12	38.85	413.27	-1060.26	-1021.41		
13	39.01	452.28	-1021.41	-982.40		
14	38.84	491.12	-982.40	-943.56		
15	38.98	530.10	-943.56	-904.58		
16	38.88	568.98	-904.58	-865.70		
17	38.93	607.91	-865.70	-826.77		
18	39.09	647.00	-826.77	-787.68		
19	38.94	685.94	-787.68	-748.74		
20	39.13	725.07	-748.74	-709.61		
21	38.94	764.01	-709.61	-670.67		
22	38.95	802.96	-670.67	-631.72		
23	39.16	842.12	-631.72	-592.56		
24	39.33	881.45	-592.56	-553.23		
25	39.25	920.70	-553.23	-513.98		
26	39.24	959.94	-513.98	-474.74		
27	38.93	998.87	-474.74	-435.81		
28	39.26	1038.13	-435.81	-396.55		
29	38.70	1076.83	-396.55	-357.85		
30	38.29	1115.12	-357.85	-319.56		
31	39.28	1154.40	-319.56	-280.28		
32	39.36	1193.76	-280.28	-240.92		
33	38.86	1232.64	-240.92	-202.04		
34	38.28	1271.92	-202.04	-162.76		
35	39.45	1311.37	-162.76	-123.31		
36	38.74	1350.11	-123.31	-84.57		
37	39.34	1389.45	-84.57	-45.23		
38	39.23	1428.68	-45.23	-6.00		
39						
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		1428.68				

JTs Ran 37
 Meas w/shoe 1428.68
 Set @ 1434.68
 PBTD @ 1394.46
 Threads On 1435.45