



KANSAS CORPORATION COMMISSION 1072767
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 #: _____

9/20/2011	9/21/2011	10/3/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-023-21319-00-00

Spot Description: _____
SE NW NE Sec. 22 Twp. 3 S. R. 38 East West
990 Feet from North / South Line of Section
1650 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Cheyenne

Lease Name: Erickson Well #: 31-22

Field Name: _____

Producing Formation: Niobrara

Elevation: Ground: 3494 Kelly Bushing: 3500

Total Depth: 1512 Plug Back Total Depth: 1433

Amount of Surface Pipe Set and Cemented at: 388 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 cmf.

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: 01/26/2012



1072767

Operator Name: Noble Energy, Inc. Lease Name: Erickson Well #: 31-22
 Sec. 22 Twp. 3 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 <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>1329</td> <td></td> </tr> </table>	Name	Top	Datum	Niobrara	1329	
Name	Top	Datum					
Niobrara	1329						

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	388.2	50/50 POZ	182	3% CaCl 2% gel
Production	6.25	4.5	10.5	1472.2	50/50 POZ	129	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 1332-1364	Frac'd w/500 gals 7.5% HCl Acid; 114 bbls Foamgel, water pad;	
	(32' 96 holes) .410 EH 120 deg	256 bbls Foamgel water w/50,040# 16/30 Texas Gold & 50,040#	
		12/20 Texas Gold; Flush 2/ 8.5 bbls Foam gel	

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>waiting on hookup</u>
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BISON

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

Invoice

Date	Invoice #
9/20/2011	10470

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

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne, KS	Erikson 31-22	Surface	Net 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
BS-Lite Summer...	50/50 Poz (3%)	182	Sack	16.50	3,003.00
Discount 10%	Discount 10%			-10.00%	-300.30
	Subtotal of Materials				2,702.70
					4,948.20
Please Remit Invoices To:				Subtotal	\$4,948.20
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229				Sales Tax (8.3%)	\$224.32
				Total	\$5,172.52
				Balance Due	\$5,172.52

X 110^{ths}
 \$ 5,689.17

RECEIVED

SEP 30 2011

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-296-6143
 E-mail: bisonoil@gwwestoffice.net

REF. INVOICE # 10470
 LOCATION Bird City
 FOREMAN Trenis

TREATMENT REPORT

DATE <u>9-20-11</u>	WELL NAME <u>Erikson 31-22</u>	SECTION <u>#22</u>	TWP <u>SS35</u>	RGE <u>39W</u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>Excell</u>		OWNER <u>Noble</u>				
MAILING ADDRESS		OPERATION				
CITY		CONTRACTOR <u>Excell rig #2</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1pm</u>		REQ <u>1:30pm</u>			TIME LEFT LOCATION <u>3pm</u>	

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
<u>9 7/8</u>				
TOTAL DEPTH <u>393</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULLUS LONG	
<u>PBTD 349</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>7"</u>	TUBING CONDITION		TUBING	
CASING DEPTH <u>388</u>		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT <u>20</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	NATURAL 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 HHP = RATE X PRESSURE X 40K

PRESSURE SUMMARY			
BREAKDOWN OR CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB MTRU Safety Cir. MTP 132 sks of B3-1.1e 15.2 lbs. 1.07 yd
4.2 gal/sk 13.2 bbls of mix water shut down drop plug displace 14 bbls of
water shut well in, clean of mouse or brackm
90% excess

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS
MTRU Safety Cir. MTP dropping displace shot in
1:15pm 1:45pm 1:50pm 1:53pm 2:06pm 2:07pm 2:14pm
150psi 10 2:11pm
150psi 14 2:13pm
10 bbls to the pit

[Signature] DRELLER TITLE DATE
 AUTHORIZATION TO PROCEED
 Customers hereby acknowledge and specifically agree 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.



BISON

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

Invoice

Date	Invoice #
9/21/2011	10476

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

Location	Well Name & No.	Job Type	Terms	Rig	
Cheyenne, KS	Erikson 31-22	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
N-Gal-72 Discount 10%	Lead 12lb Discount 10%	72	Sack	16.50 -10.00%	1,188.00T -118.80
BG-Lite Discount 10%	Tail 43.8 lb/gal 50/50 Poz Discount 10%	56	Sack	16.50 -10.00%	924.00T -92.40
KCL Mud Flush	(BHS 117)	2		125.00	250.00T
KCL	KCL Displacement	4		25.00	100.00T
	Subtotal of Materials				2,250.80
					5,096.30
Please Remit Invoices To:				Subtotal	\$5,096.30
Bison Oil Well Cementing, Inc. P.O. Box 29671 Thornton, CO 80229				Sales Tax (8.3%)	\$186.81
				Total	\$5,283.11
				Balance Due	\$5,283.11

X 11070
 \$ 5,811.42

RECEIVED
 SEP 30 2011

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-296-6143
 E-mail: bisonoil@ewesoffice.net

REF. INVOICE # 10476
 LOCATION Bird C. Ly
 FOREMAN Trajk

TREATMENT REPORT

DATE 9-21-11	WELL NAME Erkison 31-22	SECTION 22	TWP 35	RGE 38U	COUNTY Cherokee	FORMATION
CHARGE TO Excel			OWNER Noble			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR Excel rig 2			
STATE ZIP CODE			DISTANCE TO LOCATION 99			
TIME ARRIVED ON LOCATION 7am			regu. 9:30am		TIME LEFT LOCATION 12pm	

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
6 7/8				
TOTAL LENGTH 1512	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD 1432	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 4 1/2	TUBING CONDITION	TREATMENT VIA	TUBING	
CASING DEPTH 1472				
CASING WEIGHT 10.5	PACKER DEPTH			
CASING CONDITION good				

PRESSURE SUMMARY		TREATMENT RATE	
BREAKDOWN or CIRCULATING (psi)	AVERAGE (psi)	<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
FINAL DISPLACEMENT (psi)	ISIP (psi)	<input checked="" type="checkbox"/> PRODUCTION CASING	INITIAL BPM
ANNULUS (psi)	5-MIN SIP (psi)	<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
MAXIMUM (psi)	15-MIN SIP (psi)	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
MINIMUM (psi)		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
		<input type="checkbox"/> MISC PUMP	
		<input type="checkbox"/> OTHER	

HYD FRP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB **MTRV, Safety Circ, 10bbls fresh with dye, 20 bbl mud flush w/ 2% KCL m+p. 73.5K of Npel 12, 12.0 lb/gal, 2.21 yd, 12.04 gal/sk, 21 bbls of mix water m+p 56.5K of Bq lite 13.9 lb/gal, 1.33 yd, 6.28 gal/sk 5 bbls set mix w/ dye, drop plug displace 22.8 bbls with 2% KCL set plug, clean up move off location**

JOB SUMMARY		DESCRIPTION OF JOB EVENTS	
7:30am	10:15am	10:22am	10:33am
		10:52am	10:53am
		11:05am	11am
		11:07am	

100% excess

10 bbls to the pit

set plug at 1590 psi @ 11:02am

[Signature]
 AUTHORIZATION TO PROCEED

9/24/11
 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-L: 6 Ft

Casing: 7 inch

Well Name: Erickson 31-22 | Location: Sec 22, 3S, 38W, 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
	0.00	0.00			17	
1	39.16	39.16	-388.16	-349.00		Centrallizer & Baffle Plate
2	39.14	78.30	-349.00	-309.86		
3	36.54	114.84	-309.86	-273.32		
4	37.00	151.84	-273.32	-236.32		
5	34.74	186.58	-236.32	-201.58		
6	39.11	225.69	-201.58	-162.47		
7	39.08	264.77	-162.47	-123.39		
8	39.15	303.92	-123.39	-84.24		
9	39.10	343.02	-84.24	-45.14		
10	39.14	382.16	-45.14	-6.00		
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30						
31						
TOTAL	382.16					

Jts Ran 9
Meas. 382.16
Set @ 388.16
Aprox TD @ 393
PBD @ 349.00
Threads On 383.94

KB-GL: 8 Ft

Casing: 4.5 10.5 # J-55

Well Name: Erickson 31-22 Location: Sec 22, 3S, 36W, Cheyenne Co. KS

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of ft)	Depth KB, Ft (top of ft)	WV Grade	Description
1	1.32	1.32	-1472.24	-1470.92		AFU SHOE
2	38.22	39.54	-1470.92	-1432.70	10.5#J-55	Centralizer & Latch
3	38.71	78.25	-1432.70	-1393.99		Centralizer
4	38.28	117.53	-1393.99	-1354.71		Centralizer
5	39.34	156.87	-1354.71	-1315.37		Centralizer
6	39.27	196.14	-1315.37	-1276.10		Centralizer
7	21.25	217.39	-1276.10	-1254.85		Centralizer
8	39.42	256.81	-1254.85	-1215.43		Centralizer
9	39.32	296.13	-1215.43	-1176.11		Centralizer
10	39.20	335.33	-1176.11	-1136.91		
11	39.26	374.59	-1136.91	-1097.65		
12	39.24	413.83	-1097.65	-1058.41		
13	39.27	453.10	-1058.41	-1019.14		
14	38.68	491.78	-1019.14	-980.46		
15	39.22	531.00	-980.46	-941.24		
16	39.21	570.21	-941.24	-902.03		
17	39.17	609.38	-902.03	-862.86		
18	39.16	648.54	-862.86	-823.70		
19	39.33	687.87	-823.70	-784.37		
20	39.06	726.93	-784.37	-745.31		
21	38.65	765.58	-745.31	-706.66		
22	39.34	804.92	-706.66	-667.32		
23	38.50	843.42	-667.32	-628.82		
24	38.64	882.06	-628.82	-590.18		
25	38.36	920.42	-590.18	-551.82		
26	38.95	959.37	-551.82	-512.87		
27	38.39	997.76	-512.87	-474.48		
28	39.21	1036.97	-474.48	-435.27		
29	39.22	1076.19	-435.27	-396.05		
30	39.34	1115.53	-396.05	-356.71		
31	39.32	1154.85	-356.71	-317.39		
32	39.23	1194.08	-317.39	-278.16		
33	39.36	1233.44	-278.16	-238.80		
34	38.09	1271.53	-238.80	-200.71		
35	39.31	1310.84	-200.71	-161.40		
36	39.29	1350.13	-161.40	-122.11		
37	38.69	1388.72	-122.11	-83.52		
38	38.36	1427.08	-83.52	-45.16		
39	39.16	1466.24	-45.16	-6.00		
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85						
TOTAL		1466.24				

JTs Ran 38
 Meas w/shoe 1466.24
 Set @ 1472.24
 PBD @ 1432.70
 Threads On 1473.23