



KANSAS CORPORATION COMMISSION 1056503
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 # 33532
Name: Advanced Drilling Technologies LLC
Wellsite Geologist: None
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 #: _____
1/29/2011 1/30/2011 5/10/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-181-20575-00-00
Spot Description: _____
NW SW NW NE Sec. 6 Twp. 6 S. R. 39 East West
825 Feet from North / South Line of Section
2410 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Sherman
Lease Name: Bucholtz Well #: 31-6
Field Name: _____
Producing Formation: Niobrara
Elevation: Ground: 3602 Kelly Bushing: 3608
Total Depth: 1536 Plug Back Total Depth: 1484
Amount of Surface Pipe Set and Cemented at: 410 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 Gantso Date: 06/07/2011



1056503

Operator Name: Noble Energy, Inc. Lease Name: Bucholtz Well #: 31-6
 Sec. 6 Twp. 6 S. R. 39 East West County: Sherman

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	<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>1342</td> <td></td> </tr> </table>	Name	Top	Datum	Niobrara	1342	
Name	Top	Datum					
Niobrara	1342						

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	17.00	410.5	50/50 POZ	173	3% calcium
Production	6.25	4.5	11.60	1532.9	50/50 POZ	95	12% gel 2% CaCl

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 Niobrara interval 1342-1380	Niobrara frac'd w/1200 gals 7.5%	
	(38', 114 holes) .410 EHD	HCL acid, Pad - 167 bbls MAV 100	
	120 degree phase.	gelled fluid	

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

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

Invoice

177

Date	Invoice #
1/29/2011	9447

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

Location	Well Name & No.	Terms	Rig
Sherman, KS	Bucholtz 31-6	Net 30	

Item	Description	Qty	U/M	Rate	Amount
Pump surface	PUMI Charge-surface pipe	1		1,400.00	1,400.00
MILEAGE	Mileage charge	174		3.00	522.00
	Subtotal of Services				1,922.00
Centralizer 7"	Centralizer 7"	1		77.50	77.50
B3-Lite	50/50 Poz (3%)	173	Sack	16.00	2,768.00
Discount	Discount			-276.80	-276.80
	Subtotal of Materials				2,368.70

Please Remit Invoices To:

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

Subtotal	\$4,490.70
Sales Tax (7.55%)	\$339.05
Total	\$4,829.75
Balance Due	\$4,829.75

x 110%

\$5,312.73



BISON

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

Invoice

Bm
 177

Date	Invoice #
1/30/2011	8448

Bill To
Excell Services, Inc 30629 US HIGHWAY 385 Wray, CO 80758

Location	Well Name & No.	Terms	Rig
Sherman, KS	Bocholtz 31-6	Net 30	

Item	Description	Qty	U/M	Rate	Amount
Pump-long string	PUMP charge-long string	1		2,000.00	2,000.00T
MILEAGE	Mileage charge	176		3.00	528.00T
	Subtotal of Services				2,528.00
LD Plug 4 1/2'	LD Plug & Baffle 4 1/2'	1		285.00	285.00T
Flout Shoe 4 1/2'	Flout Shoe 4 1/2'	1		285.00	285.00T
Centrilizer 4 1/2'	4 1/2' Centrilizer	8		42.00	336.00T
N-Gel-12	Lead 12lb	39	Sack	16.00	624.00T
BG-Lite	Tail 13-8 1/2 gal 50/50 Poz	56	Sack	16.00	896.00T
Discount	Discount			-89.60	-89.60
	Subtotal of Materials				2,536.40

Please Remit Invoices To:

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

Subtotal	\$4,864.40
Sales Tax (7.55%)	\$367.26
Total	\$5,231.66
Balance Due	\$5,231.66

X 11090
 \$ 5,154.83

BISON OIL WELL CEMENT, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-298-8143
 E-mail: bisonoil1@qwestoffice.net

INVOICE # 9447
 LOCATION Goodland 177
 FOREMAN Randy Newton

TREATMENT REPORT

DATE <u>1-29-11</u>	WELL NAME <u>Bacholtz 31-6</u>	SECTION <u>6</u>	TWP <u>6S</u>	RGE <u>39W</u>	COUNTY <u>Sheridan</u>	FORMATION
CHARGE TO <u>Excell</u>			OWNER <u>Noble</u>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <u>Excell rig 2</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>87mi</u>			
TIME ARRIVED ON LOCATION <u>5:00pm</u>			TIME LEFT LOCATION <u>7:00pm</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
<u>9 7/8</u>					
TOTAL DEPTH <u>415</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>7"</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>410"</u>	<u>2 1/2</u> 370	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>17#</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<input 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 HHP = RATE X PRESSURE X 40.8

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

INSTRUCTIONS PRIOR TO JOB MIRU 5m circ mtp 173sls B3-14 @ 15.2# per gal
4.78 gal per sk 20 bbls max yield of 1.13 cu ft / sk Displace w/ 15 bbl H₂O shut
in rig down Annulus 126.47 cap. 0.415
80% excess as per mark zion Tool pusher

JOB SUMMARY						
DESCRIPTION OF JOB EVENTS	MIRU	5m	circ	mtp	Displace	shut in
<u>Rig down</u>	<u>5:00pm</u>	<u>5:45pm</u>	<u>5:50pm</u>	<u>5:55</u>	<u>6:10</u>	<u>6:20</u>
<u>6:25</u>					<u>6:13 10 100</u>	
					<u>6:17 15 200</u>	

6 bbls top it

[Signature] AUTHORIZATION TO PROCEED [Signature] TITLE 1/29/11 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.

BISON OIL WELL CEMENTING, INC.



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

INVOICE # 8448
 LOCATION Voltaire BS 177
 FOREMAN Justin Crinklaw

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-30-11	Bucholtz 31-6	6	65	39W	Sherman	

CHARGE TO <u>Excell</u>	OWNER
MAILING ADDRESS	OPERATOR
CITY	CONTRACTOR
STATE ZIP CODE	DISTANCE TO LOCATION <u>88</u>
TIME ARRIVED ON LOCATION <u>9:45pm</u>	TIME LEFT LOCATION <u>12:45 Am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
<u>6 1/4</u>					
TOTAL DEPTH <u>1536</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>PB</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>11.6</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 HHP = RATE X PRESSURE X 40.8

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING	psi	AVERAGE
FINAL DISPLACEMENT	psi	ISIP
ANNULUS	psi	5 MIN SIP
MAXIMUM	psi	15 MIN SIP
MINIMUM	psi	

INSTRUCTIONS PRIOR TO JOB MIRU Safety Circ @M+P 39 sks of N-gel-12 yield of 2.64 Mix 14.5 bbls of H₂O/H₂O reg 15.6 gal/sks @ 12.0 lbs @M+P 56 sks of B6-Lite yield of 1.35 Mix 13 bbls of H₂O/H₂O reg 9.7 gal/sks @ 13.8 lbs Drop Plug Displace 23 bbls of H₂O 2% KCl set plug rig down

Annulus 1026 Capacity 0155

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS MIRU Safety Circ @M+P @M+P Drop Plug Displace
9:45pm 11:45pm 11:22am 11:25pm 11:39pm 11:49am 11:56pm

<u>Set Plug @</u>	<u>Held @</u>	<u>Displace</u>
<u>12:06 Am</u>	<u>12:00</u>	
		<u>11:59pm 10 200</u>
		<u>12:02am 20 200</u>
		<u>12:06am 23 1200</u>

0 BBLS TO PIT

Sam Chast
 AUTHORIZATION TO PROCEED

Field Rep
 TITLE

1-30-11
 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.



KE: 6 Ft

Casing: 7 inch

Well Name: Bucholtz 31-6	Location: Sec 6, 6S, 39W, Sherman Co. K
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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	38.88	38.88	-410.48	-371.60		Centralizer
2	41.69	80.57	-371.60	-329.91		
3	42.50	123.07	-329.91	-287.41		
4	41.64	164.71	-287.41	-245.77		
5	42.49	207.20	-245.77	-203.28		
6	35.25	242.45	-203.28	-168.03		
7	42.55	285.00	-168.03	-125.48		
8	39.82	324.82	-125.48	-85.66		
9	35.61	360.43	-85.66	-50.05		
10	44.05	404.48	-50.05	-6.00		
11						
12						
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30						
31						
TOTAL	404.48					

Jts Ran 10
 Meas. 404.48
 Set @ 410.48
 Aprox TD @ 415
 Threads On 406.46



KB-GL: 6' Fl

Casing: 4.5 11.6 # J-55

Well Name: Bucholtz 31-6

Location: Sec 6, 6S, 39W, Sherman Co. K

Joint No.	Joint Length, Ft	Total Footage, Ft	Depth KB, Ft (base of jt)	Depth KB, Ft (top of jt)	WU Grade	Description
	0.92	0.92	-1532.89	-1532.01		AFU SHOE
1	41.07	41.99	-1532.01	-1490.94	11.6# J-55	Centralizer & Latch
2	39.15	81.14	-1490.94	-1451.79		Centralizer
3	42.18	123.32	-1451.79	-1409.61		Centralizer
4	43.44	166.76	-1409.61	-1366.17		Centralizer
5	43.57	210.33	-1366.17	-1322.60		Centralizer
6	14.17	224.50	-1322.60	-1306.43		Centralizer
7	46.87	271.37	-1306.43	-1261.56		Centralizer
8	39.05	310.42	-1261.56	-1222.51		Centralizer
9	45.65	355.97	-1222.51	-1176.98		
10	45.60	401.57	-1176.98	-1131.38		
11	45.50	447.07	-1131.38	-1085.86		
12	45.48	492.55	-1085.86	-1040.38		
13	45.50	538.05	-1040.38	-994.88		
14	45.54	583.59	-994.88	-949.34		
15	45.50	629.09	-949.34	-903.84		
16	38.06	667.15	-903.84	-865.78		
17	35.41	702.56	-865.78	-830.37		
18	38.88	739.24	-830.37	-793.69		
19	34.36	773.60	-793.69	-759.33		
20	39.19	812.79	-759.33	-720.14		
21	40.73	853.52	-720.14	-679.41		
22	42.48	896.00	-679.41	-636.93		
23	46.87	942.87	-636.93	-590.06		
24	43.41	986.28	-590.06	-546.65		
25	43.14	1029.42	-546.65	-503.51		
26	43.12	1072.54	-503.51	-460.39		
27	45.54	1118.08	-460.39	-414.85		
28	45.60	1163.68	-414.85	-369.25		
29	45.55	1209.23	-369.25	-323.70		
30	45.41	1254.64	-323.70	-278.29		
31	45.54	1300.18	-278.29	-232.75		
32	45.53	1345.71	-232.75	-187.22		
33	44.49	1390.20	-187.22	-142.73		
34	45.42	1435.62	-142.73	-97.31		
35	45.74	1481.36	-97.31	-51.57		
36	45.57	1526.93	-51.57	-8.00		
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84						
85						
TOTAL		1526.93				

JTs Ran 36
 Meas w/shoe 1526.93
 Set @ 1532.93
 PBT @ 1490.94
 Threads On 1533.89