

ORIGINAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33190  
Name: Noble Energy, Inc.  
Address: 1625 Broadway, Suite 2200  
City/State/Zip: Denver, CO 80202  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Jennifer Barnett  
Phone: (303) 228-4235  
Contractor: Name: Excell Services Inc., Wray, CO  
License: 8273  
Wellsite Geologist: none

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SLOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: n/a

Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

9/6/2008    9/9/2008    10/8/2008  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 023-21125-00-00  
County: Cheyenne  
S2 N2 NE SW Sec. 12 Twp. 2 S. R. 39  East  West  
1,990' feet from (S) / N (circle one) Line of Section  
1,980' feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW (SW)  
Lease Name: Keller Farms Well #: 23-12  
Field Name: Cherry Creek Niobrara Gas Area

Producing Formation: Niobrara  
Elevation: Ground: 3326' Kelly Bushing: 3335'  
Total Depth: 1491' Plug Back Total Depth: 1455'  
Amount of Surface Pipe Set and Cemented at 198' cmt w/ 68 sx Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from n/a  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan Air I NCR 2-25-09  
(Data must be collected from the Reserve Pit)

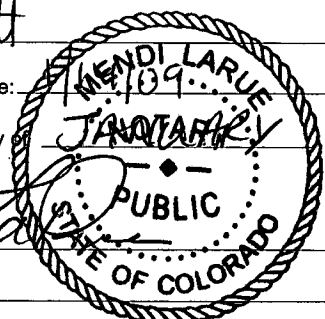
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Jennifer Barnett  
Title: Regulatory Analyst Date: \_\_\_\_\_  
Subscribed and sworn to before me this 14<sup>th</sup> day of \_\_\_\_\_  
09  
Notary Public: Mendi Larue  
Date Commission Expires: 9/11/10



**KCC Office Use ONLY**

Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**JAN 16 2009**

My Commission Expires 09/11/2010

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Noble Energy, Inc. Lease Name: Keller Farms Well #: 23-12  
 Sec. 12 Twp. 2 S. R. 39  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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input 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 (Submit Copy)  List All E. Logs Run: <i>rec'd 3 logs tot.</i>  <b>Triple Combo (DEN/NEU/IND), (CBL/CCL/GR)</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name <u>Niobrara</u> Top <u>1248'</u> Datum _____
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*1000  
M 2/21/09*

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 7/8"	7"	17 Lbs/Ft.	198'	50/50 POZ	68 sx	3% CaCl, .25% Flo-cele
Production	6-1/4"	4-1/2"	9.5 Lbs/Ft.	1489'	Lead Type III	31 sx	12% gel, 2% CaCl, .25% Polyflake
					Tail Type III	56 sx	2% gel, 1% CFL-80

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	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	
3 SPF	Perf Niobrara interval from 1248'-1280'	Niobrara frac'd with 500 gals 7.5% HCL acid, 12,000 gals of	
	(32', 3spf, 96 holes) .42" EHD, 120 degree phase	25% CO2 foamed gel pad; 31,879 gals 25% CO2 foamed	
		gel carrying 100,280 lbs 16/30 sand. ATP-516 psi; ATR-13.7 bpm.	

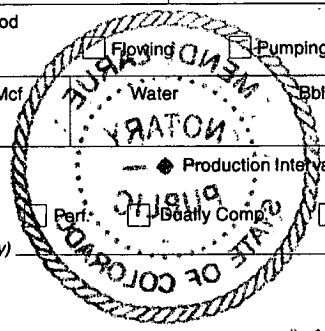
TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>1311'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. <b>Waiting on hookup</b>	Producing Method
Estimated Production Per 24 Hours	<input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) Gas Mcf _____ Water Bbls. _____ Gas-Oil Ratio _____ Gravity _____

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Other (Specify) \_\_\_\_\_

Production Interval  Daily Comp  Commingled \_\_\_\_\_



# BISON OIL WELL CEMENTING, INC.



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

INVOICE # 79241  
 LOCATION CRW  
 FOREMAN PCT  
John

## TREATMENT REPORT

DATE <u>9-6-08</u>	WELL NAME <u>Kerritshaw 23-12</u>	SECTION <u>17</u>	TWP <u>2-5</u>	RBE <u>39W</u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>EXCEL SERVICES</u>			OWNER <u>NOBLE</u>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <u>McPherson</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>60</u>			
TIME ARRIVED ON LOCATION <u>1:00</u>			TIME LEFT LOCATION			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>9 3/8</u>						
TOTAL DEPTH <u>194</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS-LOGS			
	TUBING WEIGHT	OPEN HOLE	STIRRO			
CASING SIZE <u>7"</u>	TUBING CONDITION	TREATMENT WA	TUBING			
CASING DEPTH <u>188</u>			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		
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	ISIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM		
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM		
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> MISC PUMP			
MINIMUM psi			<input type="checkbox"/> OTHER	HYD. HP = RATE X PRESSURE X 40.9		

INSTRUCTIONS PRIOR TO JOB MTRC safety meeting, EST CRW  
and 68555 cont 152 dens 1.133 (1.133) 8 BBS with 1000  
DISPLACE 7 BBS 1425 564 12000 wash water  
R 8 Dec 1

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS MTRC 1:00 safety 1:15 cont 1:33  
DIS 1:38 564 12000 1:41 8 BBS 1:45

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 KANSAS CORPORATION COMMISSION  
 JAN 15 2009  
 CONSERVATION DIVISION  
 WICHITA, KS

[Signature] AUTHORIZATION TO PROCEED TITLE owner DATE 9-6-08

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereat which include the release and indemnity.

# BISON OIL WELL CEMENTING, INC.



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

INVOICE # 7898  
 LOCATION C.R. 22 + W KS  
 FOREMAN Eric, Tony, Matt

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-9-08	Keller Farms 23-12	12	25	39	Cheyenne	
CHARGE TO <u>Excel Services</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Greg</u>			
CITY			CONTRACTOR <u>29 17</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>60 miles</u>			
TIME ARRIVED ON LOCATION <u>9:15</u>			TIME LEFT LOCATION			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>6 1/4</u>						
TOTAL DEPTH <u>1493</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG			
<u>PBD 1454</u>	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE <u>4.5</u>	TUBING CONDITION		TUBING			
CASING DEPTH <u>1480</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT	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	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB mTRP, safety meeting, 30 bbl mud flush, m<sup>2</sup>P 31 sks<sup>2</sup> cement yield 2.64  
Density 12, m<sup>2</sup>P 56 sks<sup>2</sup> cement yield 1.83 Density 13.8, Drop Plug, Displace 23.6  
bbls H<sub>2</sub>O, set Plug @ 1400-1500

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS mTRP (9:45) - safety meeting (10:05) - 30 bbl mud flush (10:09) m<sup>2</sup>P 31  
sks<sup>2</sup> cement (10:10) m<sup>2</sup>P 56 sks<sup>2</sup> cement (10:13) Drop Plug (10:22) Displace 23.6 bbls H<sub>2</sub>O (10:23)  
set Plug @ 1400-1500 psi (10:31)

Time Away	psi
10:26 10	350
10:28 20	500
10:30 23.6	1500

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JAN 16 2009

CONSERVATION DIVISION  
 WICHITA, KS

9 bbls to pit

9-9-08

	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 hereof which include the release and indemnity.