

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

*Handwritten signature/initials*

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     SIOW     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. \_\_\_\_\_

<u>9/20/2008</u>	<u>9/22/2008</u>	<u>12/1/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

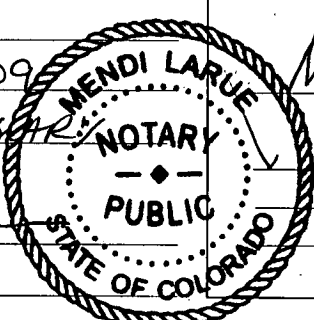
API No. 15 - 023-21065-00-00  
 County: Cheyenne  
SW NW SW Sec. 17 Twp. 2 S. R. 38  East  West  
1,650' feet from (S) N (circle one) Line of Section  
330' feet from E (W) (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW (SW)  
 Lease Name: Keller Farms Well #: 13-17  
 Field Name: Cherry Creek Niobrara Gas Area  
 Producing Formation: Niobrara  
 Elevation: Ground: 3374' Kelly Bushing: 3380'  
 Total Depth: 1496' Plug Back Total Depth: 1445'  
 Amount of Surface Pipe Set and Cemented at 248', cmt w/ 132 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** Ait I ncr 3-31-09  
 (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: 1/15/09  
 Subscribed and sworn to before me this 15<sup>th</sup> day of JANUARY  
20 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 \_\_\_\_\_

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**KANSAS CORPORATION COMMISSION**  
**JAN 16 2009**  
 CONSERVATION DIVISION  
 WICHITA, KS

My Commission Expires 09/11/2010

Operator Name: Noble Energy, Inc. Lease Name: Keller Farms Well #: 13-17  
 Sec. 17 Twp. 2 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 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 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 (Submit Copy)  List All E. Logs Run: <i>rec'd 4 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>1290'</u> Datum _____
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*KCA  
M  
1/24/09*

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.	248'	50/50 POZ	132 sx	3% CaCl, .25% Flo-cete
Production	6-1/4"	4-1/2"	10.5 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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3 SPF	Perf Niobrara interval from 1294'-1320'	Niobrara frac'd with 500 gals 7.5% HCL acid, 12,000 gals of	
	(26', 3spf, 78 holes) .41" EHD, 120 degree phase	25% CO2 foamed gel pad; 31,850 gals 25% CO2 foamed gel carrying 100,040 lbs 16/30 sand. ATP-533 psi; ATR-13.2 bpm.	

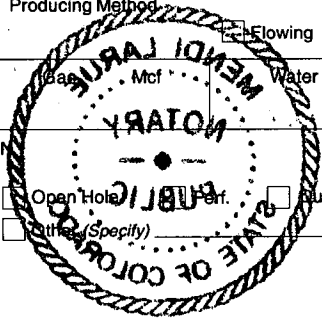
TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr. <b>Waiting on hookup</b>	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. 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  Fully Comp.  Commingled

Production Interval \_\_\_\_\_



**BISON OIL WELL CEMENTING INC.**



1739 Wankinn St. Ste 102  
 Denver, Colorado 80202  
 Phone: 303-296-3010  
 Fax: 303-298-8143  
 E-mail: bisonoil@qwest.net

145 X

LOCATION W-20  
 FOREMAN Pat JUSTIL MATT

**TREATMENT REPORT**

DATE <b>9-20-08</b>	WELL NAME <b>Keller Farms 13-17</b>	SECTION <b>17</b>	TWP <b>35</b>	RSE <b>38W</b>	COUNTY <b>Cherokee</b>	FORMATION
CHARGE TO <b>EXCEL SERVICES</b>			OWNER <b>NOBLE</b>			
MAILING ADDRESS			OPERATOR			
CITY			CONTRACTOR <b>EXCEL 2</b>			
STATE ZIP CODE			DISTANCE TO LOCATION <b>70</b>			
TIME ARRIVED ON LOCATION <b>8:15 pm</b>			TIME LEFT LOCATION <b>10:45 pm</b>			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<b>9 7/8</b>						
TOTAL DEPTH <b>250</b>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG			
	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE <b>7"</b>	TUBING CONDITION		TUBING			
CASING DEPTH <b>341</b>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <b>17</b>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION <b>WAS</b>			<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			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	15 MIN SIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB **MIRU SAFETY MEETING ESTERL**  
**mcp 1325KTS CWT 15.07 Density 1.13/140 13m x Displace 9**  
**Shut in well was up left R's Down**

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS **MIRU 9:15 SAFETY MEETING 9:41 CWT 9:35**  
**DIS 9:45 SHUT IN WELL 9:50 13 BLS TO PIT 5**

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JAN 16 2009

CONSERVATION DIVISION  
 WICHITA, KS

*Amant*  
 AUTHORIZATION TO PROCEED

*Pat*  
 TITLE

*9/20/08*  
 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: bisonoil1@qwest.net

INVOICE # 7970  
 LOCATION C.R. 2494 Ks  
 FOREMAN Eric Terry, math

## TREATMENT REPORT

DATE <u>9-22-08</u>	WELL NAME <u>Keller Farms 13-17</u>	SECTION <u>17</u>	TWP <u>2<sup>s</sup></u>	RSE <u>38<sup>w</sup></u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>Excell Services</u>	OWNER		OPERATOR <u>Joe</u>			
MAILING ADDRESS	CONTRACTOR <u>Ry2</u>		DISTANCE TO LOCATION <u>6.0 miles</u>			
CITY	TIME ARRIVED ON LOCATION <u>6:00</u>		TIME LEFT LOCATION			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>6 1/4</u>						
TOTAL DEPTH <u>1497</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG			
<u>PB @ 1445</u>	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE <u>4.5</u>	TUBING CONDITION		TUBING			
CASING DEPTH <u>1482</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>10.5</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		HYD MHP = RATE X PRESSURE X 40.8	
			<input type="checkbox"/> OTHER			

INSTRUCTIONS PRIOR TO JOB mz P, safety meeting, 30 min F push, m2 P-21 skt cement yield 2.64 Heavy  
13. m2 P-26 skt cement yield 1.53 density 13.8. Drop Plug, Displace 23.4 Bbls H<sub>2</sub>O, Set  
Plug @ 1400-1500 ps.

JOB SUMMARY  
 DESCRIPTION OF JOB EVENTS mz P (6:00) safety meeting (7:30) 30 min F push (7:56) m2 P-21 skt  
cm (8:03) m2 P-26 skt cement (8:07) Drop Plug (8:17) Displace 23.4 Bbls H<sub>2</sub>O (8:18)  
Set Plug @ 1400-1500 ps (8:29)

Time	Away	Psi
<u>8:20</u>	<u>10</u>	<u>400</u>
<u>8:26</u>	<u>20</u>	<u>700</u>
<u>8:28</u>	<u>23.4</u>	<u>1500</u>

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 WICHITA, KS

Joe Keller AUTHORIZATION TO PROCEED TITLE DATE 9-22-08

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.