

\* Final ACO-1

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

AMENDED

Operator: License # 33190  
Name: Noble Energy, Inc.  
Address: 1625 Broadway, Suite 2200  
City/State/Zip: Denver, CO 80202  
Purchaser: Southern Star  
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 AH I NR 3-5-09  
(Data must be collected from the Reserve Pit)

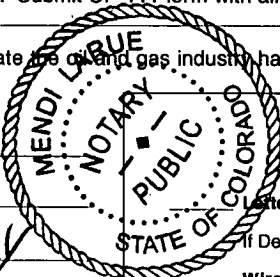
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_

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: 1/22/09  
Subscribed and sworn to before me this 22 day of JANUARY  
09  
Notary Public: Mendi Labre  
Date Commission Expires: \_\_\_\_\_  
My Commission Expires 09/11/2010



**KCC Office Use ONLY**

Letter of Confidentiality Received  Date: \_\_\_\_\_  
If Denied, Yes  No  Date: \_\_\_\_\_

Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
**JAN 26 2009**  
CONSERVATION DIVISION  
WICHITA, KS

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 <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 <i>(Submit Copy)</i>  List All E. Logs Run:  <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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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-celc
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
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Date of First, Resumerd Production, SWD or Enhr. <b>1/19/2009</b>	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	0	78	0	0	

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_

Production Interval  Other (Specify) \_\_\_\_\_

**BISSON (HT) WELL CEMENTING INC.**



1728 W. Wadsworth St. Ste. 102  
 Denver, Colorado 80202  
 Phone: 303-298-3010  
 Fax: 303-298-8143  
 E-mail: bisonoil1@qwest.net

LOCATION W-1  
 FOREMAN Pat JUSTIN MATT

**TREATMENT REPORT**

DATE <u>9-20-08</u>	WELL NAME <u>Keller Farms 13-17</u>	SECTION <u>11</u>	TWP <u>35</u>	RGE <u>38W</u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>EXECUTIVE SERVICES</u>		OWNER <u>NOBLE</u>				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR <u>EXECUTIVE</u>				
STATE ZIP CODE		DISTANCE TO LOCATION <u>20</u>				
TIME ARRIVED ON LOCATION <u>8:15 pm</u>		TIME LEFT LOCATION <u>10:45 pm</u>				

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>9 7/8</u>						
TOTAL DEPTH <u>290</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>341</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>17</u>	PACER 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	

INSTRUCTIONS PRIOR TO JOB: MIRU SAFETY MEETING ESTERL  
MCP 1325KTS CWT 15.07 DENSITY 1.13YIELD 13WWT DISPLACE 9  
SHUT IN WELL WAS UP TO PT RIG DOWN

JOB SUMMARY:  
 DESCRIPTION OF JOB EVENTS: MIRU 8:15 SAFETY MEETING ESTERL  
DIS 9:45 SHUT IN WELL 9:50 TREATMENT 9:55

RECEIVED  
 KANSAS CORPORATION COMPANY

JAN 25 2003

CONSERVATION DIVISION  
 WICHITA, KS

Amey

Pugh

9/20/08

AUTHORIZATION TO PROCEED

TITLE

DATE

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.

# 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. 29<sup>th</sup> Ks

FOREMAN Eric Taylor, Matt

## 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>	RGE <u>38<sup>w</sup></u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>Excell Services</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Joe</u>			
CITY			CONTRACTOR <u>Rip 2</u>			
STATE ZIP CODE			DISTANCE TO LOCATION <u>6.0 miles</u>			
TIME ARRIVED ON LOCATION <u>6:00</u>			TIME LEFT LOCATION			

WELL DATA			PRESSURE LIMITATIONS			
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED	
<u>6 3/4</u>						
TOTAL DEPTH <u>1497</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG			
<u>PBD 1445</u>	TUBING WEIGHT	OPEN HOLE	STRING			
CASING SIZE <u>4.5</u>	TUBING CONDITION		TUBING			
CASING DEPTH <u>1452</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			
			<input type="checkbox"/> OTHER		HYD NHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB mz & P safety meeting, 30 min flush, m<sup>2</sup> P 21 skt cement yield 2.64 Density 1.83, m<sup>2</sup> P 26 skt cement yield 1.83 Density 1.88, 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 (7:50) - 30 min flush (7:56) - m<sup>2</sup> P 21 skt cement (8:03) - m<sup>2</sup> 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 psi (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>

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 26 2009  
 CONSERVATION DIVISION  
 WICHITA, KS

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

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.