

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 2000
 City/State/Zip: Denver, CO 80202
 Purchaser: Bittercreek Pipeline
 Operator Contact Person: Joe Mazotti
 Phone: (303) 228-4223
 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. _____

<u>4/1/2007</u>	<u>4/2/2007</u>	<u>9/20/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

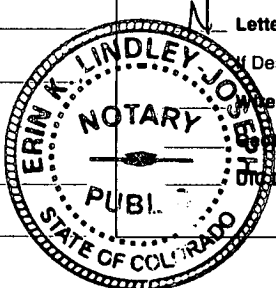
API No. 15 - 023 - 20779 - 00 00
 County: Cheyenne
 NE NW Sec. 32 Twp. 3 S. R. 41 East West
660' feet from S / (N) (circle one) Line of Section
1980 feet from E / (W) (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Zweygardt Well #: 21-32
 Field Name: Cherry Creek
 Producing Formation: Niobrara
 Elevation: Ground: 3611' Kelly Bushing: 3617'
 Total Depth: 1625' Plug Back Total Depth: 1528'
 Amount of Surface Pipe Set and Cemented at 293' cmt w/ 111 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
 (Data must be collected from the Reserve Pit) ALT I w/ Hm
12/13-07
 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: [Signature]
 Title: Regulatory Analyst Date: 11/12/2007
 Subscribed and sworn to before me this 13th day of November
07
 Notary Public: [Signature]
 Date Commission Expires: My Commission Expires Aug. 20, 2008



KCC Office Use ONLY

Letter of Confidentiality Received Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 Distribution
RECEIVED
 KANSAS CORPORATION COMMISSION
NOV 16 2007
 CONSERVATION DIVISION
 WICHITA, KS

Operator Name: Noble Energy, Inc. Lease Name: Zweygart Well #: 21-32
 Sec. 32 Twp. 3 S. R. 41 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 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:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name <u>Niobrara</u> Top <u>1394'</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.	293'	50/50 POZ	111	3% CaCl ₂ , .25% Flo-cele
Production	6 1/4"	4 1/2"	9.5 Lbs./Ft.	1588'	Lead, Type III	45	12% gel, 2%CaCl ₂ , .25% flo-cele
					Tail, 50/50 POZ	75	3%CaCl ₂ , .25 flo-cele

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 1394' to 1458' (64', 3spf, 192 holes). .41"EHD.	Niobrara frac'd with 500 gals 7.5% HCL acid, 12,000 gals of 25% CO2 foamed gel pad; 30,976 gals 25% CO2 foamed gel carrying 99,740 lbs 16/30 sand. AIP-700psi; AIR-22 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. 11/3/2007		Producing Method <input type="checkbox"/> Flowing <input checked="" 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
	0	105	0	0	

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval

BISON OIL WELL CEMENTING, INC.

P.O. Box 2223 • Gillette, WY 82717-2223
 Phone: 307-682-9044
 Fax: 307-682-9056
 E-mail: bisonoil@vcn.com



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NOV 16 2007

5855

CONSERVATION DIVISION
 WICHITA, KS
TREATMENT REPORT

LOCATION 1404 36
 FOREMAN PAT
Damon
Tom N

DATE 4-2-07	CUSTOMER ACCT # 21-37	WELL NAME ZWEYGARDT	QTR/QTR	SECTION	TWP	RGE	COUNTY Clyburne	FORMATION
CHARGE TO <u>EXCEL SERVICES</u>				OWNER <u>NOBLE</u>				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR <u>EXCEL RGR</u>				
STATE				DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>2:30</u>				TIME LEFT LOCATION <u>9:00</u>				

WELL DATA	
HOLE SIZE	<u>6 1/2</u>
TOTAL DEPTH	<u>1625</u>
CASING SIZE	<u>4 1/2</u>
CASING DEPTH	<u>1581</u>
CASING WEIGHT	<u>1015</u>
CASING CONDITION	<u>GOOD</u>
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB mill 5:45 SAT 7:00, mill 20 BBLS mud pump 11:45, 11:45 45 SHS LUT 12:00, 12:00 17.5 DENSITY 2.35 T/CUT, mill 75 SHS T/CUT 15.2 DENSITY 1.13 T/CUT
PROP PLUG, DISPLACE 24.7 BBLS H2O, BUMP PLUG 1200 TO 1500 PSI
RECEIVE PRESSURE, WASH LUT 1200 TO 1500 PSI
 JOB SUMMARY

DESCRIPTION OF JOB EVENTS MILL 5:45 SAT 7:00 mill 7:23 CUT 7:31
17.5 T/CUT 10:45 804 PSI 200 20:45 808 PSI 800
24.7 T/CUT 8:12 PSI 1500 13:15 T/CUT 6

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

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE X PRESSURE X 40.8	

AUTHORIZATION TO PROCEED

TITLE

DATE
4-2-07

BISON OIL WELL CEMENTING, INC.

P.O. Box 2223 • Gillette, WY 82717-2223
 Phone: 307-682-9044
 Fax: 307-682-9056
 E-mail: bisonoil@vcn.com



5854

LOCATION Hwy 36
 FOREMAN Pat
 Jansik
 Jos.

TREATMENT REPORT

ZWEYGARDT

DATE 4-1-07	CUSTOMER ACCT #	WELL NAME 21-32	QTR/QTR	SECTION	TWP	RGE	COUNTY Cheyenne	FORMATION
CHARGE TO <u> EUGEN SCARLES </u>				OWNER <u> NOBLE </u>				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR <u> EXCEL P&S </u>				
STATE		ZIP CODE		DISTANCE TO LOCATION <u> 6.5 miles </u>				
TIME ARRIVED ON LOCATION <u> 453 </u>				TIME LEFT LOCATION <u> 6:00 </u>				

WELL DATA	
HOLE SIZE <u> 9 5/8 </u>	TOTAL DEPTH <u> 298 </u>
CASING SIZE <u> 7" </u>	CASING DEPTH <u> 267 </u>
CASING WEIGHT <u> 20.5 </u>	CASING CONDITION <u> GOOD </u>
TUBING SIZE	TUBING DEPTH
TUBING WEIGHT	TUBING CONDITION
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input checked="" type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB MFRU, GAFF meeting, ESICALC, max 115 KTS cement 15.2 Density
 1.13 yd/d DISPLACE 11000 H2O shot in well, wash up to pit R&D down

JOB SUMMARY

DESCRIPTION OF JOB EVENTS MFRU 453 GAFF 5:00 RCM 5:05 DIS 5:25
 shot in well 5:35 1375 MPIT 11

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CONSERVATION DIVISION
 WICHITA, KS

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

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE X PRESSURE X 40.8	

AUTHORIZATION TO PROCEED

TITLE

DATE
 4-1-07