

JAN 14 2004

CONSERVATION DIVISION
WICHITA, KS

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

ORIGINAL

Operator: License # 32119
Name: Northern Natural Gas Company
Address: P.O. Box 17, Route 1
City/State/Zip: Hugoton, KS 67951
Purchaser: _____
Operator Contact Person: Tom Calkins
Phone: (620) 277-4146
Contractor: Name: C.P. Drilling Co.
License: 32525
Wellsite Geologist: _____
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: _____
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. _____
10/07/2003 10/08/2003 10/10/2003
Spud Date or Date Reached TD Completion Date or
Recompletion Date

API No. 15 - 165-21751-0000 Alt-3
County: Rush
NW SW NW Sec. 27 Twp. 19 S. R. 16 ☐ East ☒ West
998 36 30 feet from S N (circle one) Line of Section
45 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Rectifier Well #: 20-2
Field Name: Line KM20501
Producing Formation: _____
Elevation: Ground: 2056' EST Kelly Bushing: _____
Total Depth: 160' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 40 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) All III UN 2-16-04
Chloride content _____ ppm Fluid volume 40 bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name: Lee Morss - Property Owner
Lease Name: HC 2, Box 5
Burdett, KS 67523 License No.: _____
Quarter NE Sec. 21 Twp. 21 S. R. 20 ☐ East ☒ West
County: Pawnee 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: Douglas Haught
Title: Administrative Assistant Date: 01/13/2004
Subscribed and sworn to before me this 13 day of Jan,
2004
Notary Public: Douglas Haught
DOUG HAUGHT
Date Commission Expires: _____

NOTARY PUBLIC - STATE OF OKLAHOMA
CREEK COUNTY
COMMISSION NUMBER 01012970

KCC Office Use ONLY

☒ Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
☒ Geologist Report Received
☐ UIC Distribution

Operator Name: Northern Natural Gas Company Lease Name: Rectifier Well #: 20-2
 Sec. 27 Twp. 19 S. R. 16 ☐ East ☒ West County: Rush

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 ☐ Yes ☒ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☐ Yes ☒ No
 (Submit Copy)

List All E. Logs Run:

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

Attached

CASING RECORD ☒ New ☐ 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	# Sacs Used	Type and Percent Additives
Cathodic	14.75"	8" PVC Sched 40	15.1	40'	Portland	27	(Receipt copy Attached)

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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

TUBING RECORD		Size	Set At	Packer At	Liner Run ☐ Yes ☐ No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☒ Vented ☐ Sold ☐ Used on Lease
 (If vented, Sumit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify)

ORIGINAL

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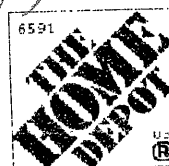
JAN 14 2004

CONSERVATION DIVISION
WICHITA, KS

THE HOME DEPOT 3913
4041 S SHERIDAN TULSA, OK 74145
918-632-0069

SALE 3913 00002 03190 10/03/03
11 MRB581 12:50 PM

03-103



038753307572 PURP PRIMER	7.96
2 @ 3.98	
012871628344 FITTING	1.50
3 @ 0.50	
012871623370 FITTING	1.38
2 @ 0.69	
038753310152 PVCCEMNT320Z	5.46
400020002303 94LB PORTLAN	
35 @ 5.48	191.80
999835 PALLET FEE	20.00
SUBTOTAL	228.10
SALES TAX	18.05
TOTAL	\$246.15
XXXXXXXXXXXX1003 AMEX	246.15
AUTH CODE 532743/1020105	TA



3913 02 03190 10/03/2003 6591

YOUR OPINION COUNTS! COMPLETE A SURVEY
AT WWW.HOMEDEPOTOPTION.COM AND ENTER

ORIGINAL

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JAN 14 2004

CONSERVATION DIVISION
WICHITA, KS

HOME LUMBER & SUPPLY CO
3723 WEST 10TH STREET

CASH SA
1226039

GREAT BEND, KANSAS 67530
(620) 792-2146 (PHONE)

10/06/03
13:36

P- 71 W- 8 P- 2

2

PORTLAND CEMENT TYPE 1 94#	M
PC1 20.00 7.49 EA	149.80

SUBTOTAL	149.80
GRT BEND SLS TX	10.56
TOTAL	160.36

PAID BY: CASH	180.00
CHANGE	19.64

THANK YOU FOR YOUR BUSINESS !!!

QF 4.10.10 DEEP ANODE DRILLING LOG

ORIGINAL
REV 0



North Well

Company Northern Natural Gas Company

Sec 27 Township 19

N Range 16 E
S W

County Rush State KS

Job Number 03-103

Voltage Used 12.90

Depth	Amps	Geological Log	Depth	Amps	Geological Log	No.	Depth	No	Coke	With	Coke
5		0-4 Topsoil	205			1	150	2.2		4.2	
10		4-19 Sandy Clay	210			2	140	1.9		4.6	
15			215			3	130	3.1		6.9	
20		19-40 Gray Shale	220			4	120	3.2		7.2	
25			225			5	110	3.2		6.8	
30			230			6	100	2.9		6.2	
35			235			7	90	2.2		5.3	
40		40-160 Gray Shale	240			8	80	2.7		5.9	
45			245			9	70	3.5		7.5	
50	3.1		250			10	60	3.4		7.4	
55			255			11					
60	3.5		260			12					
65			265			13					
70	3.0		270			14					
75			275			15					
80	2.3		280			16					
85			285			17					
90	2.8		290			18					
95			295			19					
100	3.1		300			20					
105			305			21					
110	3.1		310		RECEIVED KANSAS CORPORATION COMMISSION	22					
115			315		JAN 14 2004	23					
120	3.0		320			24					
125			325		CONSERVATION DIVISION WICHITA, KS	25					
130	1.8		330			26					
135			335			27					
140	1.9		340			28					
145			345			29					
150	2.4		350			30					
155		Total Depth 155'	355			Volts					
160			360			Amps					
165			365			Ohms					
170			370			Rectifier Information					
175			375			Model		ACP			
180			380			Serial		710520			
185			385			DCV	35	DCA	100		
190			390			C	1 of 3	F	1 of 6		
195			395			ACV	230	ACA			
200			400			Shunt 50 mv 150 a					

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CONSERVATION DIVISION
WICHITA, KS

Interior Plug 10 ' Holeplug - 8 Bags				Vent 120'		Length 40'	
Hole Dia. 8"		Total Depth 155'		Remarks Top of Coke 43' sch 40			
No. Anodes 10		Size and Type 4x80s					
Lbs. Coke 2500#		Coke Type SC-3					
Ft. Casing 40'		Casing Diameter 8"		Signature Brad Brewer		Date 10/09/03	