

15.145.21482.0000

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

RECEIVED
12-9-82
DEC 09 2002

Form ACO-1
September 1999
Farm Must Be Typed

KCC WICHITA

ORIGINAL

Operator: License # 32119
Name: Northern Natural Gas
Address: 9480 W. Highway 50
City/State/Zip: Holcomb, KS 67851
Purchaser: _____
Operator Contact Person: Jon Hannagan
Phone: (620) 277-4127
Contractor: Name: H.L. McLean Drilling
License: 32775

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. _____

10/23/2002 10/26/2002 11/7/2002
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21482-000C
County: Pawnee
NW-NW-NE- Sec. 30 Twp. 20 S. R. 19 East West
333 feet from S / N (circle one) Line of Section
3202 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Pawnee Well #: #1
Field Name: Region 5

Producing Formation: _____
Elevation: Ground: 2210' EST Kelly Bushing: _____
Total Depth: 350' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 80 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 lll ll 12-17-02
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume 50 bbls
Dewatering method used _____

Location of fluid disposal if hauled offsite:
Operator Name: Key Gas Corp.
Lease Name: Steffan SWD License No.: _____
Quarter _____ Sec. 8 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: Mark McNeil
Title: Operations Manager Date: 12-2-02
Subscribed and sworn to before me this 2 day of December
2002
Notary Public: Doug Haught
Date Commission Expires: 8/23/2005
Creek County, Ok

KCC Office Use ONLY
NO Letter of Confidentiality Attached
If Denied, Yes Date: _____
NO Wireline Log Received
NO Geologist Report Received
____ UIC Distribution

Operator Name: Northern Natural Gas Lease Name: Pawnee Well #: 1

Sec. 30 Twp. 20 S. R. 19 East West County: Pawnee

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 <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	# Sacs Used	Type and Percent Additives
Cathodic	14.75"	8" PVC Sched 40	15.6	80'	Portland	37	(order ticket attached)

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)		

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

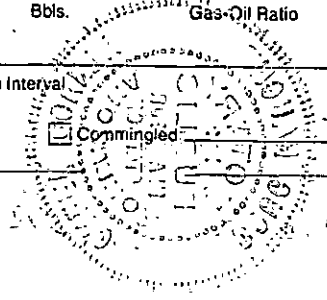
Date of First, Resumed Production, SWD or Enhr.	Producing Method			
	<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)

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, Sumit ACO-18.)

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

Production Interval Commingled



Company Northern Natural Gas Sec 30 Township 20 $\begin{matrix} N \\ \text{S} \end{matrix}$ Range 19 $\begin{matrix} E \\ W \end{matrix}$
 Location Pawnee County Job Number 02-089-1 Voltage Used 14.5

Depth	Amps	Geological Log	Depth	Amps	Geological Log	Number	Depth	No Coke	With Coke
5		0-1 Topsoil	205			1	340	1.6	3.3
10		1-6 Shale	210	2.2		2	330	1.7	4.5
15		6-7 Hard Rock	215			3	320	2.3	8.4
20		7-50 Grey Shale	220	2.0		4	310	2.5	9.1
25			225		RECEIVED	5	300	3.1	10.2
30			230	1.8	DEC 0 9 2002	6	290	3.0	10.6
35			235		KCC WICHITA	7	280	2.9	10.7
40			240	3.0		8	270	3.4	10.7
45			245			9	260	3.3	10.5
50		50-60 Bed Rock	250	3.1		10	250	2.0	9.8
55			255			11	240	2.0	8.9
60		60-90 Grey Shale	260	2.8		12	230	1.9	9.0
65			265			13	220	2.2	9.0
70			270	2.7		14	210	2.2	8.8
75			275			15	200	1.8	7.9
80		81 Top of Coke	280	3.2		16	190	1.8	7.7
85			285			17	180	2.2	7.8
90	2.4	90-200 Red Clay	290	2.6		18	170	2.1	7.8
95			295			19	160	2.0	7.1
100	3.0		300	2.5	300-302 Rock	20	150	1.7	5.6
105			305		302-350 Red Clay	21			
110	4.0		310	2.3		22			
115			315			23			
120	3.7		320	2.0		24			
125			325			25			
130	2.3		330	1.7		26			
135			335			27			
140	1.8		340	1.6		28			
145			345			29			
150	1.8		350	1.2	350 T.D.	30			
155			355				Volts	14.36	
160	2.1		360				Amps	167.40	
165			365				Ohms	0.08	
170	1.7		370				Rectifier Information		
175			375				Model		
180	2.1		380				Serial		
185			385				DCV	DCA	
190	1.9		390				C	F	
195			395				ACV	ACA	
200	2.3	200-300 Grey Shale	400				Shunt		

Interior Plug Portland Cement				Remarks: Pawnee #1 East Well			
Hole Dia.	8"	Total Depth	350'				
No. Anodes	20	Size and Type	4" x 80" Graphite				
Lbs. Coke	6000#	Coke Type	Loresco SC-2				
Ft. Casing	80'	Casing Diameter	8"				
				Signature	Brad Brewer	Date	11/4/2002

ORIGINAL

HOME LUMBER & SUPPLY CO
3723 WEST 10TH STREET

CASH SA
1204850

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

10/23/02
10:41

P- 7 W- 7 P- 2

2

PORTLAND CEMENT TYPE 1 94#		M
PC1	45.00	7.49 EA 337.85

SUBTOTAL 337.85

GRT BEND SLS TX 22.92

TOTAL 359.97

PAID BY: MC 359.97

RECEIVED

DEC 09 2002

KCC WICHITA

THANK YOU FOR YOUR BUSINESS

Portland *Rannee*
KCC Beruit

ORIGINAL

Paul's Oilfield Service, Inc.

P.O. Box 1773
Great Bend, KS 67530

Invoice

DATE	INVOICE #
11/6/2002	20676

BILL TO
Mesa Corrosion Products P.O. Box 52608 Tulsa, OK 74152 Attn: Max

RECEIVED
DEC 09 2002
KCC WICHITA

TERMS
Net 30

DESCRIPTION	RATE	QUANTITY	AMOUNT
<p>NORTHERN NATURAL GAS #02-089 - Picked up 80 bbls from pit, hauled it to big tank and washed out with 30 bbls salt water. - 4.5 hours</p> <p>11/7/02 - Picked up 30 bbls from pit, hauled it to big tank and washed out with 15 bbls salt water. - 3.5 hours.</p> <p>Vacuum Truck</p>	55.00	8	440.00
Total			\$440.00

M - 11-25-02

Thank you for your business.