STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

Operator: License # 32119

Name: Northern Natural Gas

Address: Route 1, Box 17

City/State/Zip: Hugoton, KS 67951

Purchaser:

Operator Contact Person: Mike Livesay

Phone (316) 544-5013

Contractor: Name: McLean, H.L. Drilling

License: 09322

Wellsite Geologist:

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR ___ SIGW
___ Dry X Other (Core, WSW, Expl, Cathodic, etc)

If Workover:

Operator:

Well Name:

Comp. Date ___ Old Total Depth ___

___ Deepening ___ Re-perf. ___ Conv. to Inj/SWD
___ Plug Back ___ PBTD
___ Commingled Docket No.
___ Dual Completion Docket No.
___ Other (SWD or Inj?) Docket No.

4-26-00 ___ 8-15-00
Spud Date / Date Reached TD / Completion Date

API NO. 15- 129-21608-0000

County Morton

-W/2-Sw¼-Sw¼ Sec. 25 Twp. 34S Rge. 40W E/W

640' Feet from S/N (circle one) Line of Section

420' Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)

Lease Name Rectifier Well # #3

Field Name Rectifier

Producing Formation NONE

Elevation: Ground ___ KB ___

Total Depth 360' PBTD ___

Amount of Surface Pipe Set and Cemented at 160' 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 ALT 3 JH 10/17/00
(Data must be collected from the Reserve Pit)

Chloride content ___ ppm Fluid volume ___ bbls

Dewatering method used ___

Location of fluid disposal if hauled offsite:
Fluid Disposal in Station Yard/Northern Natual Gas

Operator Name Northern Natural Gas

Lease Name Rectifier License No. 32119

SW¼ Quarter Sec. 3 Twp. 34S S Rng. 40W E/W

County Morton Docket No. ___

RECEIVED
STATE CORPORATION COMMISSION
AUG 8 2000
CONSERVATION DIVISION
Wichita, Kansas

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 on 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 Cindy Cozart

Title DF Aide Date 8-7-00

Subscribed and sworn to before me this ___ day of ___, 19 2000

Notary Public Patsy Ramirez

Date Commission Expires May 30, 2001

Patsy Ramirez
My Commission Expires
May 30, 2001

K.C.C. OFFICE USE ONLY
F ___ Letter of Confidentiality Attached
C ___ Wireline Log Received
C ___ Geologist Report Received
Distribution
___ KCC ___ SWD/Rep ___ NGPA
___ KGS ___ Plug ___ Other (Specify)

Form ACO-1 (7-91)

Operator Name Northern Natural Gas Lease Name Rectifier Well # #3

☐ East
Sec. 25 Twp. 34S Rge. 40W ☒ West County Morton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.) ☐ Yes ☒ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☐ Yes ☒ No

List All E.Logs Run:

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name Top Datum

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	# Sacks Used	Type and Percent Additives
	17 1/2"	10"		160'	Neat	146	Portland w/ water

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth 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, Resumed Production, SWD or Inj. 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, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

ORIGINAL

DEEPWELL GROUNDBED DATA

Job No. Section 25, 34T, 40W Facility/Line:
Clinet: Northern Natual Gas Drilling Contractor: McLean's C P Installation, Inc.
Subject: Deep Well
Depth: 360' Dia.: 9 7/8" Casing: 160 State: Kansas County: Morton
Type of Backfill: Loresco SC2 Coke Breeze
Anode Description: (1) set of (15) 4"X80" graphite anodes

Remarks:

		Electrical Log		Anode Log		
Depth:		Volt	Depth	Anode #	Depth	Volt
0'-10'	Top Soil	1.6	170'			
10'-20'	Sand	1.7	180'			
20'-65'	Sandy Clay	1.7	190'			
65'-155'	Hard Sandy Clay	1.6	200'			
155'-360'	Tan Sandy Clay	1.6	210'			
		1.4	220'			
		1.6	230'			
		1.6	240'			
		1.8	250'			
		1.2	260'			
		1.2	270'			
		2.1	280'			
		1.8	290'			
		1.4	300'			
		1.3	310'			
		1.8	320'			
		2.1	330'			
		1.8	340'			

RECEIVED
STATE CORPORATION COMMISSION
AUG 28 2000
CONSERVATION DIVISION

#4

ORIGINAL

TARBET INCORPORATED

40153

Rt. 3 / 303 South Rd. I
Ulysses, Kansas 67880
(316) 356-2110

Box 142
Colby, Kansas 67701
(913) 462-7432

CUSTOMER'S ORDER NO. _____ DATE Aug 12 2000

SOLD TO Mc Lean's

ADDRESS Amarillo Texas

DRIVER 205	CASH	CHARGE ✓	ON ACCT.	H. Plant

QTY.	DESCRIPTION	PRICE	AMOUNT
	YDS SACK CONCRETE		
	% CALCIUM CHLORIDE		
	OZ WRDA		
	OZ AIRE		
	13,750 cement		
21	MILE HAUL		
	LBS OR % ROCK		
	~~HOT~~ WATER 750 gal		
	SERV CHG ORD OF 1 TO 3 YDS		
	WAITING TIME		
	TAX		
	YDS 1		
	MI HAUL 1		
RECEIVED BY NO. 100		TOTAL	

All claims and returned goods MUST be accompanied by this bill.

ALL PURCHASES MADE ON CREDIT DURING THE MONTH ARE DUE AND PAYABLE BY THE 10th OF THE FOLLOWING MONTH. ANY BALANCE NOT PAID BY THE 25th DAY OF THE FOLLOWING MONTH SHALL BE SUBJECTED TO A FINANCE CHARGE COMPUTED AT A PERIODIC RATE OF 1½% PER MONTH, OR A MINIMUM CHARGE OF 50¢. THIS IS AN ANNUAL PERCENTAGE RATE OF 18%.