

22-COPY 40 W

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

md

Operator: License # 5269
Name: Kansas Natural Gas, Inc.
Address P.O. Box 815

City/State/Zip Sublette, KS 67877
Purchaser: Williams Natural Gas
Operator Contact Person: Mr. Steve Lehning
Phone (316) 675-8185
Contractor: Name: Cheyenne Drilling Company
License # 5382
Wellsite Geologist: Mr. Ron Osterbuhr
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:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBSD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
11-27-92 11-29-92 4-2-93
Spud Date Date Reached TD Completion Date

API NO. 15- 187-20,656
County Stanton County
App - C - NE - 1/4 Sec. 22 Twp. 30S Rge. 40 W
4030 Feet from S/N (circle one) Line of Section
1250 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 Shore Well # 1-2
Field Name Hugoton
Producing Formation Chase Series
Elevation: Ground 3268' KB 3278'
Total Depth 2490' KB PBSD 2490' KB
Amount of Surface Pipe Set and Cemented at 556 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 556'
feet depth to surface w/ 300 sx cmt.
Drilling Fluid Management Plan 5-14-93
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume NA bbls
Dewatering method used remove & backfill
Location of fluid disposal if hauled offsite:
Operator Name _____
Lease Name _____ License No. _____
Quarter Sec. Twp. S Rng. E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Steve M. Lehning
Title Superintendent Date 4-27-93
Subscribed and sworn to before me this 27 day of April,
19 93.
Notary Public Judy L. Webb
Date Commission Expires September 11, 1996

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) IS

Notary Public-State of Kansas
JUDY L. WEBB
My Appt. Exp. 9-11-96

RECEIVED
Form ACO-1 (7-91) STATE CORPORATION COMMISSION
APR 28 1993
CONSERVATION DIVISION
Wichita, Kansas

Operator Name Kansas Natural Gas, Inc. Lease Name Shore Well # 1-2
 Sec. 22 Twp. 30 Rge. 40 County Stanton
 East
 West

COPY

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 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:
 Gamma Ray Neutron Log
 Cement Bond Log

Log Formation (Top), Depth and Datums Sample
 Name Top Datum
 T/Cedar Hills 1310'
 B/Stone Corral 1645'
 T/Marker 2198'
 T/Chase Group 2210'
 T/Cased Depth 2377'
 TD-Open Hole 2490' KB

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 Casing	12 1/4"	8 5/8"	24#	556'	Class "C"	320	6% Gel
Production Casing	7 7/8"	5 1/2"	14#	2377'	Class "C"	550	2% Cal. Ch.

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	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
3	2256' - 2264'		Acid - W/1750 gals. of 15% HCL at 14 BPM	
	2276' - 2286'			
	2321' - 2327'		Fracture - W/250,000# Cross-Link Gel at 40 BPM	
	2334' - 2338'			

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8" EUE	2447'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Pending pipeline connection		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. Estimated Production	Gas N/A	Mcf	Water Bbls. N/A	Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

2256' - 2264'
 2276' - 2286'
 2321' - 2327'
 2334' - 2338'

RECEIVED
 STATE GEOLOGICAL COMMISSION
APR 28 1993
 CONSERVATION DIVISION
 Wichita, Kansas

COPY

DRILLERS LOG

KANSAS NATURAL GAS, INC.
SHORE #1-2
SECTION 30-T40S-R22W
STANTON COUNTY, KANSAS

COMMENCED: 11-27-92
COMPLETED: 11-29-92

SURFACE CASING: 553' OF 8 5/8"
OMTD W/170 SX 65/35/POZ/C, 6% D-20
2% C.C., 1/4#/SX D-29; TAILED IN W/
100 SX "C", 2% C.C., 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 575
RED BED	575-840
RED BED & SHALE	840-1655
RED BED	1655-2215
RED BED & SHALE	2215-2390 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.
A. J. Jacques
A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF NOVEMBER, 1992.

BECKY J. WHETSTONE
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 4/29/95

Becky J Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC

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APR 28 1995
CONSERVATION DIVISION
Wichita, Kansas
CONSERVATION DIVISION
Wichita, Kansas

DRILLING & GEOLOGICAL SUMMARY

COPY

OPERATOR: Kansas Natural Gas, Inc. **KCC #:** 5269
WELL NAME: Shore #1-2 **API #:** 15-187-20,656
LOCATION: 4030' FSL, 1250' FEL sec 22-T30S-R40W **COUNTY:** Stanton
ELEVATIONS: GL-3268', KB-3279' **TOTAL DEPTH:** 2390'
SPUD DATE: 11/30/92 **DRILLING COMPLETED:** 12/02/92
DRILLING CONTRACTOR: Cheyenne Drlg. - Rig #5 **KCC #:** 5382

SURFACE CASING SIZE: 8.625" **WEIGHT:** 24# **GRADE:** J55 **DEPTH:** 568'
CEMENT: 170 sx of 65/35 with 6% gel, 2% CaCl₂, 1/4# cello-flake; and
 150 sx Class "C" with 2% CaCl₂, 1/4# cello-flake.
CASING EQUIPMENT: 2 centralizers, baffle-plate, "Texas" pattern shoe.
COMMENTS: circulated 80 sx cement to surface.

PRODUCTION CASING SIZE: 5.500" **WEIGHT:** 14# **GRADE:** J55 **DEPTH:** 2376'
1st STAGE CEMENT: 450 sx of 65/35 with 6% gel, 2% CaCl₂, 1/4# flake;
 100 sx "C" with 1% CaCl₂, 1% "FLAC", .2% anti-foamer.
2nd STAGE CEMENT:
CASING EQUIPMENT: 8 centralizers, guide shoe, latch-down baffle & plug.
COMMENTS: displaced latch-down plug with acetic acid and 2% KCl water.
 landed plug @ 1370#, circulated approx. 155 sx cement to surface.

OPEN-HOLE LOGS: none
CASED-HOLE LOGS: G/R-Neutron, CCL, Cement bond

FORMATION TOPS:

horizon	depth	datum	remarks
T/Cement (for 5 1/2")	145'	+3134'	cement top from bond log
T/Permian	668'	+2611'	"red beds"
T/Cedar Hills	1310'	+1969'	unconsolidated fine sand
B/Stone Corral	1661'	+1618'	anhydrite marker
T/"Chase Group"	2221'	+1058'	
T/Winfield	2319'	+ 960'	
Plug-back Depth	2378'	+ 901'	log depth
Casing Total Depth	2376'	+ 903'	log depth
Rotary Total Depth	2390'	+ 889'	driller depth

PERFORATIONS: 2276'-2286', 2321'-2327', 2334'-2338'; all with 3 jet
 shots per foot.
ACID TREATMENTS: 1750 gallons 15% HCl
FRACTURE TREATMENTS:

REMARKS: all depths are from KB elevation.

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