

15-315-400

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

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 ☐ SIOW ☐ Temp. Abd.

☐ Gas ☐ ENER ☒ SIGW ☐ KCC

☐ 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 PSTD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

7-6-93 7-7-93 9-22-93

Spud Date Date Reached TD Completion Date

API NO. 15- 129-21,206

County Morton

App - C - SE - 1/4 Sec. 15 Twp. 31S Rge. 40 X W

1420 Feet from SYN (circle one) Line of Section

1250 Feet from EYW (circle one) Line of Section

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

Lease Name Atkinson Well # 1-2

Field Name Hugoton

Producing Formation Chase Series

Elevation: Ground 3299' KB 3308'

Total Depth 2460' PBTD 2458'

Amount of Surface Pipe Set and Cemented at 567 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from 567

feet depth to surface w/ 290 sx cmt.

Drilling Fluid Management Plan ALT 1 JH 10-25-93
(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 Steven M. Lehning

Title Superintendent Date 9-22-93

Subscribed and sworn to before me this 22nd day of September, 1993

Notary Public Judy L. Webb

My Commission Expires September 11, 1996

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input checked="" type="checkbox"/> KCPA
<input checked="" type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)

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STATE CORPORATION COMMISSION

Form ACO-1 (7-91)

SEP 24 1993

CONSERVATION DIVISION
Wichita, Kansas

SIDE TWO

Operator Name Kansas Natural Gas, Inc.Lease Name AtkinsonWell # 1-2Sec. 15 Twp. 31 Rge. 40☐ EastCounty Morton☒ WestAPI # 15-129-21206

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/Permian	618'	+2692'
T/Cedar Hills	1289'	+2021'
B/Stone Corral	1683'	+1627'
T/Herrington	2315'	+995'
T/Winfield	2375'	+935'
T/Towanda	2445'	+865'
T/Ft. Riley	NR	
Rotary T.D.	2460'	+850'
Plug back T.D.	2458'	+852'

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
Surface Casing	12 1/4"	8 5/8"	24#	567' G.L.	Class "C"	290	6% Gel
Production Casing	7 7/8"	5 1/2"	14#	2459' K.B.	Class "C"	500	2% Cal. Ch.

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
4	2317' - 2323'	Acid - 2,500 gallons of 28% HCL Acid and	
	2342' - 2352' (160 holes)	2% KCL water	
	2377' - 2387'	Fracture - 80,000# Linear frac with 20/40 mesh	
	2399' - 2407'		
	2447' - 2453'	sand at 20 BPM from 1/2#-2# per gallon	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8" EUE	2439' G.L.	None		
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 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	NOTE: Estimated Production	N/A	N/A		

Disposition of Gas: METHOD OF COMPLETION

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

Production Interval
☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____

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STATE CORPORATION COMMISSION
2317' - 2323'
2323' - 2342'
2342' - 2352'
2352' - 2377'
2377' - 2387'
2387' - 2399'
2399' - 2407'
2407' - 2447'
2447' - 2453'
2453' - 2460'
2460' - 2458'
2458' - 2453'
2453' - 2447'
2447' - 2399'
2399' - 2387'
2387' - 2377'
2377' - 2342'
2342' - 2317'
2317' - 2317'

SEP 2 1993
CONSERVATION DIVISION
Wichita, Kansas

DRILLING & GEOLOGICAL SUMMARY

COPY

OPERATOR: Kansas Natural Gas, Inc.

KCC #: 5269

WELL NAME: Atkinson #1-2

API #: 15-129-21,206

CATION: 1420' FSL, 1250' FEL sec 15-T31S-R40W

COUNTY: Morton

ELEVATIONS: GL-3299', KB-3310'

TOTAL DEPTH: 2460'

SPUD DATE: 07/06/93

DRILLING COMPLETED: 07/08/93

DRILLING CONTRACTOR: Cheyenne Drlg. - Rig #1

KCC #: 5382

SURFACE CASING SIZE: 8.625" WEIGHT: 24# GRADE: J55 DEPTH: 567'

CEMENT: 140 sx of "Premium+ Lite", 2% CaCl₂, 1/4# cello-flake; and
150 sx Premium+ with 2% CaCl₂, 1/4# cello-flake.

CASING EQUIPMENT: 2 centralizers, baffle-plate, "Texas" pattern shoe.

COMMENTS: circulated 27 sx cement to surface.

PRODUCTION CASING SIZE: 5.500" WEIGHT: 14# GRADE: J55 DEPTH: 2459'

1st STAGE CEMENT: 350 sx of Class "C" Lite with 2% CaCl₂, 1/4# flake;
150 sx "C" with 1% CaCl₂, 1% "Halad 322", 1/4# cello-flake.

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.
circulated approx. 55 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")	45'	+3265'	cement top from bond log
T/Permian	618'	+2692'	"red beds"
T/Cedar Hills	1289'	+2021'	unconsolidated fine sand
B/Stone Corral	1683'	+1627'	anhydrite marker
T/Herington	2315'	+ 995'	
T/Winfield	2375'	+ 935'	
T/Towanda	2445'	+ 865'	
T/Ft. Riley	NR		
Plug-back Depth	2458'	+ 852'	log depth
Casing Total Depth	2464'	+ 846'	from collar log
Rotary Total Depth	2460'	+ 850'	driller depth

PERFORATIONS: 2317'-2323', 2342'-2352', 2377'-2387', 2399'-2407',
2447'-2453'; all with 4 jet shots per foot.

ACID TREATMENTS: Towanda-500 gal 15%, 250 gal 28%; Winfield-1000 gal of
28%, Krider-500 gal 28%, Herington-500 gal 28%.

FRACTURE TREATMENTS: 80,280# 20/40 sand; 65,3000 gallons of 35# linear
gel; average rate was 20 bpm.

REMARKS: all depths are from KB elevation.

prepared by: R.G. Osterbuhr

9/93

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