

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 5269
Name Kansas Natural Gas, Inc.
Address P.O. Box 818
City/State/Zip Hays, Kansas, 67601

Purchaser KN Energy

Operator Contact Person Mr. Steve Lehning
Phone 316-675-8175

Contractor: License # 5382
Name Cheyenne Drilling Company

Wellsite Geologist Mr. Ron G. Osterburh
Phone 316-276-8145

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
6-29-89 7-1-89 7-21-89
Spud Date / Date Reached TD Completion Date
2630' 2622'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 586 feet
Multiple Stage Cementing Collar Used? Yes No
if yes, show depth set
if alternate 2 completion, cement circulated from 586 feet depth to Surface 330 SX cut
10-24-89

API NO. 15-093-20-988-0000

County... Kearny County

NW SW SE Sec. 33 Twp. 24 Rge. 35 East West

1250' Ft North from Southeast Corner of Section
2475' Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

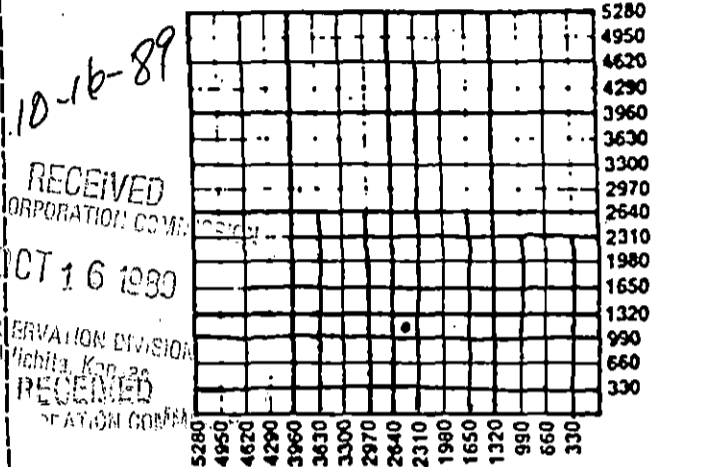
Lease Name Unrein Well # 1-2

Field Name Hugoton - Infill

Producing Formation Chase Series

Elevation: Ground 2966 KB 2975

Section Plat



WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal Repressuring
Docket # 16812 (96 930-C)
Wichita, Kansas

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #
 Groundwater.....Ft North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp Rge East West
 Surface Water.....Ft North from Southeast Corner (Stream, pond etc).....Ft West from Southeast Corner Sec Twp Rge East West
 Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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.

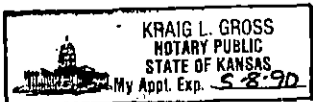
Signature Gary Lamb

Title Date 7-27-89

Subscribed and sworn to before me this 19th day of October, 1989

Notary Public Kraig L. Gross

Date Commission Expires 5-8-90



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name **KANSAS NATURAL GAS, INC.** Lease Name **Unrein** Well # **1-2**

Sec. **33** Twp. **24** Rge. **35** East West County **Kearny County**

WELL LOG

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 rate if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
T/ Permian	798'	
T/ Blaine	1242'	
T/ Cedar Hills	1376'	
B/ Stone Corral		1838'
T/ Chase Group	2361'	
T/ Krider	2388'	
T/ Winfield	2449'	
T/ Towanda	2508'	
T/ Ft. Riley	2566'	

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	12 1/2"	8 5/8"	24#	586'	w/220sx 30/65 Poz	6% D-20 2% 1/4# D-	
Production	7 7/8"	5 1/2"	14#	2621'	Tail w/ 120sx "C" 1/2# D-29 w/350sx 60/35 Poz 6% D-20 1/4# D-29 Tail w/200sx 50/50 Poz 2% D-20		

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 Shots	2391-2397	10,000 gallons of WF-140 Pac	
2 Shots	2450-2456	25,000 gallons of WF-140 w/1#ppg	10/20 sand
2 Shots	2512-2522	25,000 gallons of WF-140 w/2#ppg	10/20 sand
2 Shots	2568-2578	25,000 gallons of WF-140 w/3#ppg	10/20 sand
		12,500 gallons of WF-140 w/4#ppg	10/20 sand

TUBING RECORD Size **2 3/8"** Set At **2615** Packer at _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas Rate of Flow 603.6 MCFD Open Flow 2137.5 MCFD	Water 0 Bbls	Gas-Oil Ratio CFPB	Gravity 0.723

METHOD OF COMPLETION

Disposition of gas: Vented Sold Used on Lease Open Hole Perforation Other (Specify)

Production Interval	2391-2397	2408-2418
	2450-2456	2460-2470
	2512-2522	2526-2536
	2568-2578	2586-2596

Dually Completed Completed

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: X Initial: Annual: Special: TEST DATE: 07/27/89

Company: KANSAS NATURAL Lease: UNREIN Well No: 1-2
 County: KEARNY Location: Sec: 33 Twp: 24 Rng: 35
 Field: HUGOTON INFILL Reservoir: Pipeline connection
 Completion date: Plus back total depth Packer set at
 Casings size: Mt. Set at Perfs.
 Tubing size: Mt. I.D. Set at
 Type completion: Type fluid prod.
 Producing through Reservoir temp. F Bar. Press. - Pa 14.4 Psia
 Gas Gravity: 0.723 % CO 2 % N 2 API Grav. of liquid
 Vertical Depth Type meter connection (Prover) size 2"

OBSERVED DATA											
Duration of shut in hrs.											
Rate	Orifice size	(Prover) (Meter) Press.	Diff.	Flow. Temp. F.	Well-head Temp.	Casings psia	Press. psia	Tubing psia	Press. psia	Duration Hours	Liquid Prod. Bbls.
shut in						117.9	132.3			8	
flow	0.5	102.2		69		102.2	116.6				

RATE OF FLOW CALCULATIONS

Coef. (Meter)	(Prover) Ext.	Grav. Fact.	Flow. Temp. F.	Dev. Fact.	Rate of Flow	GOR	Qm
Mcf/d	Psia	Fg	Ft	Frv	IP in Mcfd		
4.388	116.6		1.176	0.991	1.0118	603.6	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

Pc ² =	Pw ² =	Pa ² =
17.5	13.6	0.207
117.29629	3.907730	4.426
0.646	0.085	0.54912
3.50099	2137.5	

OPEN FLOW = 2137.5 Mcfd @ 14.65 psia Deliverability = Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27TH DAY OF JULY, 1989.

Witness: _____ For KN Energy, Inc. *J. Walker*
 (if any)
 For Commission: _____ Checked by: _____
 STATE COMMISSION

OCT 2 4 1989
 CONSERVATION DIVISION
 Wichita, Kansas

RECEIVED
 STATE COMMISSION
 JUL 26 1989