

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 # 5270  
name KN Energy, Inc.  
address P. O. Box 15265  
City/State/Zip Lakewood, CO 80215  
(Originally drilled by Continental Oil)  
Operator Contact Person Ralph Anderson  
Phone 316-355-7122

Contractor: license # (unknown)  
name GMR Drilling Co.

Wellsite Geologist (unknown)  
Phone

PURCHASER KN Energy, Inc.

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

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

WELL HISTORY

Drilling Method:  Mud Rotary  Air Rotary  Cable

6-12-53 7-28-53 12-53  
Spud Date Date Reached TD Completion Date

5734 2696  
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 401' 7" feet

Multiple Stage Cementing Collar Used?  Yes  No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated  
from feet depth to w/ SX cmt

API NO. 15 N/A 15-655-00104-0000

County Finney

SE NE NW Sec 29 Twp 26S Rge 31W East West

4290 Ft North from Southeast Corner of Section  
2970 Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)

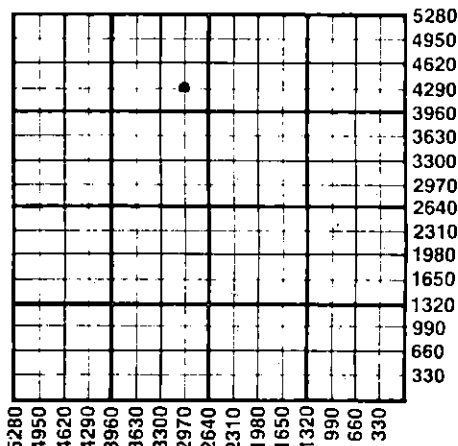
Lease Name Kleysteuber Well# 1

Field Name Hugoton

Herrington 2639-2650  
Producing Formation Upper Krider 2650-2676  
Lower Krider 2676-2700

Elevation: Ground 2859 KB 2870

Section Plat



WATER SUPPLY INFORMATION

Source of Water: Unknown

Division of Water Resources Permit #

Groundwater Ft North From Southeast Corner and  
(Well) Ft. West From Southeast Corner of  
Sec Twp Rge  East  West

Surface Water Ft North From Southeast Corner and  
(Stream, Pond etc.) Ft West From Southeast Corner  
Sec Twp Rge  East  West

Other (explain)  
(purchased from city, R.W.D.#)

Disposition of Produced Water:  Disposal  Repressuring

Docket #

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. Rules 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 Donald A. Sutton

Title Manager, Gas Supply Services Date 8-23-84

Subscribed and sworn to before me this 23rd day of August 1984

Notary Public Anita S. Moore

Date Commission Expires My Commission Expires Nov. 18, 1985  
12055 West Second Place  
Lakewood, Colorado 80215

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
 KGC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

Operator Name ..... Lease Name .Kleysteuber Well# 1... SEC 29... TWP. 26S... RGE. 31...  East  West

**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 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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

**Formation Description**  
 Log  Sample

See attached sheet

Name	Top	Bottom
Hallanberg	2594	
Herrington	2639	
Winfield	2718	
Towanda	2772	
Ft. Riley	2834	
Topeka	3663	
Heebner	4028	
Lansing	4111	
Marmaton	4562	
Cherokee	4727	
Atokan	4832	
Marrowan	3942	
Mississippi	5011	
Viola	5440	
Sampson	5541	
Arbuckle	5604	

CASING RECORD <input 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	17 1/2	13 3/8	48	0- 400	Portland	300	
Oil String	8 3/4	5 1/2	14	2310-2898	Portland	200	3% Gel
Squeeze				2706-2756	Portland	300	
Squeeze				2648-2652	Portland	100	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
4	Paddock..... 2648-2652	80 Gal. Acid.....	2648-2652
4	Odell..... 2706-2710	500 Gal. 7 1/2 Acid.....	2720-2740
4	Gage..... 2752-2756	250 Gal. Acid.....	2682-2694
4	Lower Krider..... 2682-2696	1000 Gal. Acid.....	2640-2672
4	Herrington..... 2640-2646		

TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
size	set at	packer at	2675		
Date of First Production	Producing method <input checked="" type="checkbox"/> flowing <input type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain) .....				
12-53					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas- Oil Ratio	Gravity
	Bbls	630 MCF	Bbls	CFPB	.71376

Disposition of gas:  vented  sold  used on lease

**METHOD OF COMPLETION**  
 open hole  perforation  other (specify) .....

**PRODUCTION INTERVAL**  
 Herrington 2639-2650  
 Upper Krider 2650-2676  
 Lower Krider 2676-2700

Dually Completed.  
 Commingled

NEW WELL COMPLETION AND/OR ABANDONMENT RECORD

A.F.E. No. 5-11-23,203

1 Dist West Kansas Field Hugoton Lease H. R. Klaystauber Well No. 1  
2 Co. Finney State Kansas Contractor GMR Drilling Co. T.D. 5734 P.D. 2696  
3 ~~Well No.~~ Elev. 2859 ft. Depth Measured From PR; Height of Measuring Point from Landing Flange 11 ft.  
4 Date: Spudded 6-12-53 Drilling Completed 7-28-53 Tested 12-18-53 Rig Released 7-30-53

CASING, LINER AND TUBING RECORD

SIZE O. D. IN.	WT. LB./FT.	THREADS NO. & TYPE	GRADE AND MAKE	NEW OR E. H.	E. L. L.W. SMLS.	DEPTH SET FT.	MEASUREMENTS INC. THREADS			TOP OF LINER	NO. OF JOINTS	HOLE SIZE
							QUANTITY SET	QUANTITY PULLED	QUANTITY LEFT IN HOLE			
13 3/8	48	---	A.O. Smith N	---	---	400	401'7"	None	401'7"		10	17 1/2
5 1/2	14	8R	J-55	SR	Sals	2898	2904'11"	None	2904'11"		75	8-3/4

CEMENTING RECORD

METHOD	MAKE AND TYPE CEMENT	SACKS USED	SQUEEZED AWAY	NO. OF BATCHES	FINAL PRESSURE	SLURRY WT. LB./GAL.	HOURS SET	DEPTH		REMARKS: TEMP. CALIPER, OTHER LOGS
								FROM	TO	
Howco		300	---	1	---	15	24	0	400	Surface Csg.
"	Portland	200	3% Gal	1	350	15	48	2310	2898	Oil String
"	"	300	---	1	300	15	---	2706	2756	Squeeze
"	"	100	---	1	300	15	---	2648	2652	"

ACIDIZATION AND SPOT RECORD

Fracturing Record (Cont'd)

DATE	PRODUCTION OR P. I.		HOW TEST MADE	GAL. ACID	SHOT QTS.	DEPTH		NAME OF ZONE	TYPE FORMATION	REMARKS
	BEFORE	AFTER				FROM	TO			
8-11-53	---	---	---	80	---	2648	2652	Paddock shale	shale	for squeeze job
8-14-53	None	2 1/2 BWPB	Subdolofrac	---	---	2720	2740	Winfield sand	4 hours	

SECTION PERFORATED

(Over)

NAME OF PAY	DEPTH		SIZE OF HOLE	HOLES PER FOOT	DATE	SERVICE CO. OR TYPE SLOTS	REMARKS
	FROM	TO					
Paddock	2648	2652	15/32	4	8-10-53	Lane Wells	Squeezed
Odell	2706	2710	"	4	"	"	"
Gage	2752	2756	"	4	"	"	"
Lower Kridar	2682	2696	"	4	8-15-53	"	"
Herrington	2640	2646	"	4	"	"	"

PRODUCING EQUIPMENT

(Over)

29 RODS: Number \_\_\_\_\_ Size \_\_\_\_\_ in., Number \_\_\_\_\_ Size \_\_\_\_\_ in., Total Singles \_\_\_\_\_ Length \_\_\_\_\_ ft.  
 30 PUMP: Size \_\_\_\_\_ Plunger Diam \_\_\_\_\_ Make \_\_\_\_\_ Type \_\_\_\_\_  
 31 PUMPING UNIT: Make \_\_\_\_\_ Type \_\_\_\_\_ Stroke \_\_\_\_\_ in. @ \_\_\_\_\_ SPM; Beam Capacity \_\_\_\_\_ lb.  
 32 Torque @ 20 SPM \_\_\_\_\_ in. lbs.; Gear Box \_\_\_\_\_ H.P., Prime Mover Make \_\_\_\_\_  
 33 H.P. @ \_\_\_\_\_ RPM. Other Remarks \_\_\_\_\_  
 34 GAS ANCHOR \_\_\_\_\_  
 35 OTHER LIFT EQUIPMENT \_\_\_\_\_  
 36 \_\_\_\_\_  
 37 PACKER: Set at \_\_\_\_\_ ft. Make \_\_\_\_\_

RECEIVED  
STATE CORPORATION COMMISSION  
AUG 20 1984  
{ ALSO SEE SKETCH }  
{ ON REVERSE SIDE }

PRODUCING STRATA

CONSERVATION DIVISION

NAME	TOP	BASE	POROSITY %	PERM. MD.	NET THICKNESS FT.	REMARKS: STATE CONTENTS OF ALL PRODUCING STRATA, G. & W. GIVING FLUID CONTACT, D. B. T. ETC.
Herrington	2639	2650			6'	Perf.
Upper Kridar	2650	2676			16'	"
Lower Kridar	2676	2700			12'	"

AUG 27 1984

REMARKS: Drilled to 2745' DST Lower Kridar 2685', to 2745', tool open 1 hr.; gas to surface in 35 min., good blow, no odor; rec. 120' gas cut mud; BHP 405#, FFP 0 Deepened to 4425', DST 4402-4425'; tools open 1 hr., weak blow increased to fair blow in 5 min. FFP 0# FFP 270#, BHP 1025#, rec. 300' muddy salt water & 205' black sulphur water. Deepened to 4692', DST Harraton 4679' to 4692', tool open 1 hr., rec. 75' muddy water, BHP 1280#, FFP 25#, very weak blow. Deepened to 5061' DST Miss. 5027' to 5061', tool open 1 hr., rec. 15' mud, BHP 0# FFP 0#, Deepened to 5734', Ran Schlumberger logs. Set 5 1/2 csg. at 2898' with 200 sxs. cement plus 3% Gal; top of cement 2310'. Moved out rotary; moved in cable tools. PR 2864'. Ran radioactivity log. Perf. Paddock shale 2648' to 2652' w/16 shots; (Over)

Location: 990' from North & 2310' from West lines of Sec. 29, T26S, R31W, Finney County, Kansas

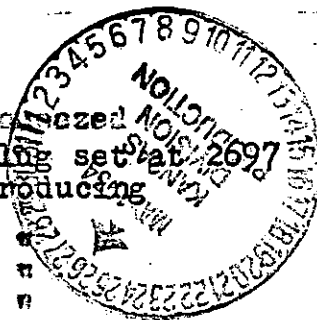
56 Estimate Total Cost \$63,570 Conoco Interest 100% Operated by Continental Oil Co.  
 57 Potential 6,500 MCF Est/4-Mtd/d @ 305 #/M and #CP on 72 Hr. Test Meas. Est Allowable 171 MCF/d  
 58 Other Production or Well Test Results \_\_\_\_\_

60 Signed [Signature] District Superintendent  
 61 Signed [Signature] Division Superintendent  
 62 Signed \_\_\_\_\_ Region Manager  
 63 Signed [Signature] District Engineer  
 64 Prepared by A. R. Colpitt Date 1-22-54

DISTRIBUTED TO  
 Mgr. P. & D. [Signature] Acc'tg. EHL  
 Region [Signature] District FID  
 Other State Corp. Comm.  
REL File

Section Perforated

Upper Krider	2656	2672	15/32	4	8-15-53	Lane Wells	Squeezed
Winfield	2720	2740	15/32	4	8-14-53	Lane Wells	Plug set at 2697
Lower Krider	2682	2694	"	3	8-18-53	Lane Wells	Producing
Upper Krider	2696	2672	"	3	8-19-53	Lane Wells	"
Herrington	2640	2646	"	4	"	Lane Wells	"
Upper Krider	2656	2672	"	3	8-20-53	Lane Wells	"
Herrington	2640	2646	"	4	8-20-53	Lane Wells	"



Acid and fracture Record

8-18-53 Trace 1/2 M gas 6 hrs. Dolofrac 2682 2694 lower Krider with 2000 gals gel & 1000 lbs. sand. (Used 250 gal. acid 1/2 as spearhead & 1/2 as wash.)

8-20-53 Trace 1-1/2 M 4 hrs. Dolofrac Herrington 2640 2646 and Upper Krider 2656 - 2672 w/2000 gals. gel & 1000 lbs. sand (Used 1000 gals. acid).

Cement Record

Howco Portland 170 --- --- 3,000 15 --- 2682 2696 Squeeze

Odell shale 2706' to 2710' w/16 shots; & gage shale 2752' to 2756' w/16 shots. Good show of gas. Squeezed perf. 2706' to 2756'. Acidized perf. 2648' to 2652' w/80 gal to assure good cement job. Squeezed w/100 axs. Perf. Winfield 2720' to 2740' w/80 shots. No show. Ran tbg. & set packer at 2714'; Dolofraced perf. w/2000 gal gel & 1000# sand; used 250 gal 7 1/2% acid as spearhead & 250 gal 7 1/2% acid as wash; max. press. 1800#, breakdown press. 900#. Pulled tbg. Swabbed 2 1/2 bbls. water per hr. for 4 hrs. Gas measured 260,000 cu. ft. per day. Set plug at 2710' swabbed 2 1/2 bbls. water per hr. Plug failed to hold. Set plug at 2696'; perf. lower krider 2682' to 2696 w/56 shots; Herrington 2640 to 2646' w/24 shots; and upper Krider 2656' to 2672' w/64 shots. Swabbed 2 bbls. water per hr. for 3 hrs. & 5 gal. Ottawa sand. Set retainer at 2677'; Squeezed lower Krider 2682' to 2696'; drilled out cement to 2696'; Re-perf. lower Krider 2682' to 2694' w/36 shots. Show of gas. Ran tbg. Set packer at 2675'; Dolofraced w/2,000 gal gel & 1000# sand. Used 250 gal acid. half as spearhead & half wash. Max. press 1250#, min. press. 600#. Pulled tbg. & packer. Swabbed hole down. Bailed trace water per hr. for 6 hrs. Approx. 450,000 cu. ft. of gas. Set plug on electric line at 2675'. Re-perf. upper Krider 2656' to 2672' w/48 shots. Perf. Herrington 2640' to 2646' w/24 shots. Good show of gas. Set retrievable retainer at 2651'. Dolofraced Herrington 2640' to 2646' and Upper Krider 2656' to 2672' w/2000 gal gel & 1000# sand. Used 1000 gal acid max. csg. press. 1650#, tbg. 1400#, press. broke to "0". Drilled retainer and cleaned out to 2696'. Started to swab. Well started flowing. Estimated flow 1-1/2 million cu. ft. gas & 5 bbls. water per hr. for 4 hrs. Swabbed 4 hrs. to unload hole. Flowed 19 hrs. shut in 40 min. after flowing 5 hrs. Shut in press. 300#. Moved out cable tools. Well shut in 24 hrs. Shut in press. 360#. Flowed 6 hrs. Shut in 18 hrs. (Shut in pending state test) Estimated potential 6,500 MCF based on results of state deliverability test 12-18-53. Deliverability 630 MCF/day. December allowable 171 MCF/day. Gravity of gas. .71376.

Gas Purchaser: Kansas Nebraska Gas Company

Schlumberger tops: Hallenberg 2594, Herrington 2639, Winfield 2718, Towanda 2772, Ft. Riley 2834, Topeka 3663, Heebner 4028, Lansing 4111, Marmaton 4562, Cherokee 4727, Atokan 4832, Marrowan 3942, Mississippi 5011, Viola 5440, Simpson 5541, Arbuckle 5604.

Drilled to 2745' DST Lower Krider 2685', to 2745', tool open 1 hr.; gas to surface in 35 min., good blow, no odor; rec. 120' gas cut mud; BHP 465#, FP 0; Deepened to 4425' DST 4402-4425'; tools open 1 hr. weak blow increased to fair blow in 5 min. IFP 0# FFP 270#, BHP 1025#; rec. 300' muddy salt water & 205' black sulphur water. Deepened to 4692'. DST Marmaton 4679' to 4692', tool open 1 hr. rec. 75' muddy water, BHP 1280#, FFP 25#, very weak blow. Deepened to 5061'. DST Miss. 5027' to 5061', tool open 1 hr., rec. 15' mud, BHP 0# FP 0#. Deepened to 5734', Ran Schlumberger logs. Set 5½ csg. at 2898' with 200 sxs. cement plus 3% Gel; top of cement 2310'. Moved out rotary; moved in cable tools. PB 2864'. Ran radioactivity log. Perf. Paddock shale 2648' to 2652' w/16 shots; Odell shale 2706' to 2710' w/16 shots; & gage shale 2752' to 2756' w/16 shots. Good show of gas. Squeezed perf. 2706' to 2756'. Acidized perf. 2648' to 2652' w/80 gal to assure good cement job. Squeezed w/100 sxs. Perf. Winfiled 2720' to 2740' w/80 shots. No show. Ran tbg. & set packer at 2714'; Dolofraced perf. w/2000 gal gel & 1000# sand; used 250 gal 7½% acid as spearhead & 250 gal 7½% acid as wash; max. press. 1800#, breakdown press. 900#. Pulled tbg. Swabbed 2½ bbls. water per hr. for 4 hrs. Gas measured 260,000 cu. ft. per day. Set plug at 2710' swabbed 2½ Bbls. water per hr. Plug failed to hold. Set plug at 2696'; perf. lower krider 2682' to 2696' w/56 shots; Herrington 2640' to 2646' w/24 shots; and upper Krider 2656' to 2672' w/64 shots. Swabbed 2 bbls. water per hr. for 3 hrs. & 5 gal. Ottawa sand. Set retainer at 2677'; Squeezed lower Krider 2682' to 2696'; Drilled out cement to 2696'; Re-perf. lower Krider 2682' to 2694' w/36 shots. Show of gas. Ran tbg. Set packer at 2675'; Dolofraced w/2000 gal gel & 1000# sand. Used 250 gal acid, half as spearhead & half wash. Max. press 1250#, min. press. 600#. Pulled tbg. & packer. Swabbed hole down. Bailed trace water per hr. for 6 hrs. Approx. 450,000 cu. ft. of gas. Set plug on electric line at 2675'. Re-perf. upper Krider 2656' to 2672' w/48 shots. Perf. Herrington 2640' to 2646' w/24 shots. Good show of gas. Set retrievable retainer at 2651'. Dolofraced Herrington 2640' to 2646' and Upper Krider 2656' to 2672' w/2000 gal gel & 1000# sand. Used 1000 gal acid max. csg. press. 1650#, tbg. 1400#, press. broke to "0". Drilled retainer and cleaned out to 2696'. Started to swab. Well started flowing. Estimated flow 1½ million cu. ft. gas & 5 bbls. water per hr. for 4 hrs. Swabbed 4 hrs. to unload hole. Flowed 19 hrs. shut in 40 min. after flowing 5 hrs. Shut in press. 300#. Moved out cable tools. Well shut in 24 hrs. Shut in press. 360#. Flowed 6 hrs. Shut in 18 hrs. (Shut in pending state test) Estimated potential 6,500 MCF based on results of state deliverability test 12-18-53. Deliverability 630 MCF/day. December allowable 171 MCF/day. Gravity of gas. .71376.

RECEIVED  
STATE CORPORATION COMMISSION

AUG 20 1984

CONSERVATION DIVISION  
Wichita, Kansas

RECEIVED  
STATE CORPORATION COMMISSION

AUG 27 1984

CONSERVATION DIVISION  
Wichita, Kansas

15-055-001 04-0000

August 16, 1984

**KNE**ENERGY, INC.  
POST OFFICE BOX 15265  
LAKEWOOD, COLORADO 80215  
TELEPHONE: 303-989-1740

Kansas Corporation Commission  
200 Colorado Derby Building  
Wichita, KS 67202

Re: GSS - 1257

Dear Sir:

The Kleysteuber #1 well located in Section 29-T26S-R31W, was drilled by Continental Oil Company in 1953. A new well completion report was made out and dated January 22, 1954.

KN Energy, Inc. purchased the well in 1983. The information on the enclosed well completion form, ACO-1, well history report, has been obtained from documents furnished to KN by Continental Oil Company at the time the well was purchased. A copy of Continental's completion report is attached for your reference.

If I can be of further service, please advise.

Sincerely,

*Donald A. Hutton*

Donald A. Hutton  
Manager, Gas Supply Services

DAH/DC/cg

Enclosure

RECEIVED  
STATE CORPORATION COMMISSION

AUG 27 1984

CONSERVATION DIVISION  
Wichita, Kansas

RECEIVED  
STATE CORPORATION COMMISSION

AUG 20 1984

CONSERVATION DIVISION  
Wichita, Kansas