

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 # 9482  
name National Petroleum Reserves, Inc.  
address 260 N. Rock Road, Suite 215  
City/State/Zip Great Bend, KS 67530  
Operator Contact Person Ted Bredehoft  
Phone 316/681-3515  
Contractor: license # 9421  
name Roger Brothers Drilling, Inc.  
Wellsite Geologist Dan DeBoer  
Phone (316) 684-6182

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

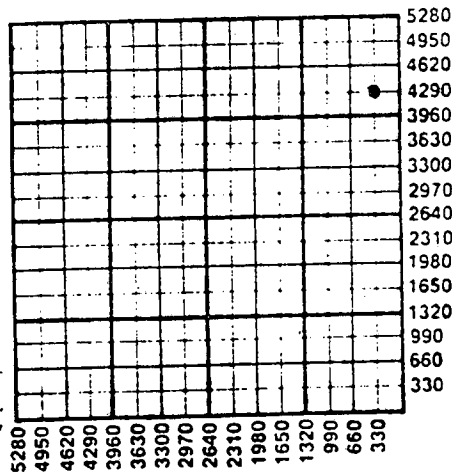
WELL HISTORY

Drilling Method:  Mud Rotary  Air Rotary  Cable  
Spud Date Date Reached TD Completion Date  
.2-18-87 2-26-87 3-14-87  
Total Depth PBTD  
TD - 4631  
Amount of Surface Pipe Set and Cemented at 215 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated from surface feet depth to (4360) TD. w/ 525 SX cmt

API NO. 15-101-21,361-00-00  
County Lane  
SE NE NE Sec 35 Twp 16 Rge 29 X West  
4290 Ft North from Southeast Corner of Section  
330 Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)  
Lease Name Gill Well# 1  
Field Name Terwilliger North  
Producing Formation Lansing L  
Elevation: Ground 2795 KB 2800

Section Plat



WATER SUPPLY INFORMATION

Source of Water:  
Division of Water Resources Permit # T.87-58  
 Groundwater 4290 Ft North From Southeast Corner and  
(Well) 330 Ft. West From Southeast Corner of  
Sec 35 Twp 16 Rge 29  East  West  
 Surface Water 4290 Ft North From Southeast Corner and  
(Stream, Pond etc.) 330 Ft West From Southeast Corner  
35 Sec 16 Twp 29 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.

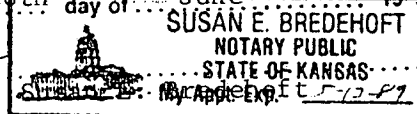
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.

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 [Signature]  
Title Pres/Treas Date 6/12/87

Subscribed and sworn to before me this 6th day of June 1987  
Notary Public Susan E. Bredehoft  
Date Commission Expires 5-13-89



K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Time Log Received  
STATE CORPORATION COMMISSION  
 KCC  SWD/Rep  NGPA  
 KGS JUN 16 1987  Other (Specify)  
CONSERVATION DIVISION  
Wichita, Kansas

Form ACO-1  
(This form supercedes previous forms ACO-1 & C-10)

Sec. 35 Twp. 16 Rge. 29

**WELL LOG**

15-101-2361-00-00

**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

**J-LANSING (4188-98)** Limestone, cream-white-light gray, moderately indurated microcrystalline, occasionally finely crystalline, non-argillaceous, occasionally fossil-ooids, occasionally chalky. Good oomoldic porosity, fair-good interooid-fossil microporosity. Fair-gwod show of free oil in samples; poor-fair show of free oil in sample cup; slight-fair odor; scattered brown stain. Oomoldic porosity mostly barren.  
 DST# (4167-4206) 30-60-30-60; strong blow off bottom in 9 minutes; strong blow off bottom in 7 minutes; recovered 420' gas in pipe; 345' gassy, watery, muddy oil (38°); SIP 733/60; FP 137-164/30

**K-LANSING (4226-46)** Limestone, tan-brown, occasionally grey, moderately well indurated, micro-medium crystalline, non-moderately argillaceous, occasional fossils-ooids, poor intercrystalline porosity, rare fair pinpoint to vuggy porosity; rare-scattered stain very slight odor in samples when broken. Very poor show of free oil in sample cup

**L-LANSING (4250-4308)** Limestone, mottled tan-brown light gray-cream, moderately-well indurated, micro-coarsely crystalline, slightly argillaceous, occasional ooids-fossils, poor intercrystalline porosity, occasional pinpoint-vuggy porosity; fair show of free oil in sample cup, fair odor, scattered light brown stain.  
 DST#2 (4213-85) 30-60-30-60; strong blow off bottom 7 minutes; strong blow off bottom in 7 min; recovery 660' gas in pipe; 660 muddy, gassy oil; SIP 577-60; FP 238-274/30.  
 DST#3 (4294-4350) 30-30-30-30; weak blow died 9 min; no blow; tool flushed; recovered 5' of mud w/trace mud; SIP 64/30; FP 54-64/30.  
 (See attached for continued information)

Name	Top	Bottom
Stone Corral		
(Anhydrite)	2190	
Base/StoneCorral	2220	
Tarkio	3539 *	
Howard	3640	
Topeka	3680	
Queen Hill	3794	
Heebner	3924	
Toronto	3948	
Lansing	3969	
Stark	4210	
Base/KansasCity	4308	
Lenapah	4321	
Marmaton	4342	
Altamont	4378	
Pawnee	4414	
Ft.Scott	4464	
Cherokee	4486	
Johnson Zone	4533	
Mississippian	4561	
LTD	4631	

\* Sample top; others log tops

RELEASED

JUL 13 1988

FROM CONFIDENTIAL

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	12 1/2"	8 5/8"	20#	215'	60/40 poz	135	2% gel 3% cc
Production	7 7/8"	5 1/2"	14#	4,630	60/40 poz	525	10% salt

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
2	4568-4570	500 gal 15%	4251-4253
2	4251-4253		

<b>TUBING RECORD</b> size 2 3/8" set at 2,651' packer at 4247	Liner Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First Production 3/14-87	Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)
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Estimated Production Per 24 Hours	Oil 86 Bbls	Gas MCF	Water N/A Bbls	Gas-Oil Ratio CFPB	Gravity
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**METHOD OF COMPLETION**  
 Disposition of gas:  vented  sold  used on lease  
 open hole  perforation  other (specify) \_\_\_\_\_  
 Dually Completed.  Commingled

**PRODUCTION INTERVAL**  
 4251-4253

15-101-21361-00-00

NATIONAL PETROLEUM RESERVES, INC.

#1 GILL Lane County 27-24-14W

WELL LOG (continued)

JOHNSON (4533-59) Sandstone, clear, friable, moderate-well sorted, angular-subangular, non-slightly argillaceous, slightly calcareous, fine-medium grained, poor-fair intergranular porosity. Fair to good show of free oil in samples; poor to fair free oil in sample cup; slight odor; spotted brown stain.

DST#4 (4506-58) 15-15-5-0; weak blow, decreasing; no blow; flushed; no help; test pulled; SIP Test pulled; FP 54-54/5.

MISSISSIPPIAN (4567-92) Dolomite, tan, moderately-well indurated, medium-coarsely crystalline, occasionally microcrystalline, non-slightly argillaceous, occasionally sucrosic, poor-fair intercrystalline porosity with rare vuggy porosity; good show of free oil in samples; poor show of free oil in sample cup; fair odor, scattered-occasional brown oil stain.

JUN 17 1987  
KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

RECEIVED

RELEASED  
JUL 13 1988  
FROM CONFIDENTIAL