FORM MUST BE TYPED SIDE ONE

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

COPY RELEASED FROM CONFIDENTIAL

API NO. 15- 179-21,027-00-00

County Sheridan

100' E of NE - SW - SW - Sec. 14 Twp. 9S Rge. 26 E/W

2,990 Feet from S/N (circle one) Line of Section

1090 Feet from E/W (circle one) Line of Section

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

Operator: License # 9482

Name: National Petro. Reserves, Inc.

Address 250 N. Rock Rd., Ste. 330

City/State/Zip Wichita, KS 67206

Purchaser: none

Operator Contact Person: Ted C. Bredehoft

Phone (316) -681-3515

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Craig Caulk

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
X Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

____ Deepening ____ Re-perf. ____ Conv. to Inj/SWD
____ Plug Back ____ PBTD
____ Commingled Docket No.
____ Dual Completion Docket No.
____ Other (SWD or Inj?) Docket No.

11/30/91 Spud Date | 12/6/91 Date Reached TD | ____ Completion Date

Lease Name Popp Well # 1

Field Name W.C.

Producing Formation

Elevation: Ground 2655' KB 2660'

Total Depth 4165' PBTD

Amount of Surface Pipe Set and Cemented at 290' Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan A I II 2-10
(Data must be collected from the Reserve Pit)

Chloride content 3,000 ppm Fluid volume 120 bbls

Dewatering method used EVAPORATION

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 Ted C Bredehoft

Title President Date 1-16-92

Subscribed and sworn to before me this 16th day of January, 92.

Notary Public TC Bredehoft II

Date Commission Expires 6-30-95

T. C. BREDEHOFT II
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 6-30-95

K.C.C. OFFICE USE ONLY
F X Letter of Confidentiality Attached
C X Wireline Log Received
X Geologist Report Received

KANSAS CORPORATION COMMISSION
JAN 17 1992
CONSERVATION DIVISION
Wichita, KS

X KCC ____ SWD/Rep ____ NGPA
X KGS ____ Plug X Other (Specify) IS

Form ACO-1 (7-91)

08885

SIDE TWO

Operator Name National Petro. Reserves, Inc. Lease Name Popp Well # 1

Sec. 14 Twp. 9S Rge. 26 ☐ East ☒ West County Sheridan

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 (Attach Additional Sheets.)	☒ Yes	☐ No
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☐ Yes	☒ No
Electric Log Run (Submit Copy.)	☒ Yes	☐ No

List All E.Logs Run: Radiation Guard Log

DST #1 4056-4129 LKC I,J,K zones
15-15-15-15 Rec: 5' mud FP 67-57, 57-57
ISIP 57 FSIP 57

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Anhydrite	2317	+343
B/Anhydrite	2356	+304
Topeka	3668	-1008
Heebner	3879	-1219
Toronto	3902	-1242
Lansing	3918	-1258
Base/K.C.	4148	-1488

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	12¼"	8 5/8"	20#	290'	60/40 poz	200	2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth 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

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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) D&A

Production Interval

ORIGINAL

KCC

JAN 16

CONFIDENTIAL

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: National Petroleum Reserves, Inc.
250 N. Rock Rd., Suite #340
Wichita, Kansas 67206

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Popp WELL #1

LOCATION: 100' E of NE SW SW
Section 14-9S-26W
Sheridan County, Kansas

LOGGERS TOTAL DEPTH: 4165'

ROTARY TOTAL DEPTH: 4165'

ELEVATION: 2660'

COMMENCED: 11/30/91

COMPLETED: 12/6/91

CASING: 8-5/8" @ 200' w/200 sks cement

STATUS: Dry Hole

RELEASED

2 2 1993

FROM CONFIDENTIAL

DEPTHS & FORMATIONS

(All measurements from K.B.)

Sand & Shale	90'	Shale & Lime	3620'
Cedar Hills	1929'	Heebner	3867'
Shale	2090'	Toronto	3886'
Anhydrite	2321'	Lansing-Kansas City	3997'
Shale	2359'	R.T.D.	4165'

RECEIVED
STATE CORPORATION COMMISSION

JAN 17 1992

CONSERVATION DIVISION
WICHITA, KS

STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

Kyle B. Branum, of Emphasis Oil Operations, [illegible] and correct log of the above captioned well, [illegible]

Kyle B. Branum

Subscribed and sworn to before me on December 9, 1991.

My commission expires: February 6, 1992.

GLENDA R. TIFFIN
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 2-6-92

Glenda R. Tiffin, Notary Public