

Ind 7105 CONFIDENTIAL

SIDE ONE

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

Operator: License # 9482
Name: National Petroleum Reserves, Inc.
Address 250 N. Rock Rd., Suite 340
City/State/Zip Wichita, KS 67206
Purchaser: _____
Operator Contact Person: Ted C. Bredehoft
Phone (316) -681-3515
Contractor: Name: Emphasis Oil Operations
License: 8241
Wellsite Geologist: Kevin Howard

Designate Type of Completion

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

WMO: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

7/28/91 8/13/91 8/30/91
Spud Date Date Reached TD Completion Date

API NO. 15- 193-20,565

County Thomas

C S/2 SW SW Sec. 9 Twp. 10S Rge. 31 x East West

330 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

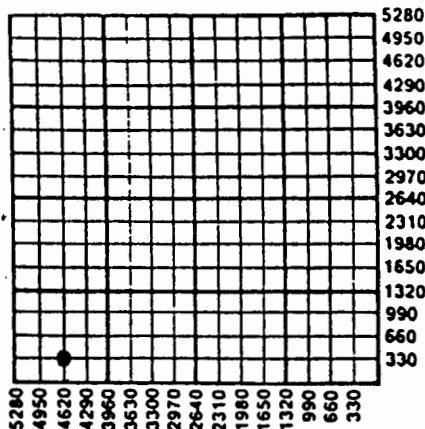
Lease Name Robben Well # 1

Field Name W.C.

Producing Formation Ft. Scott Myrick Station Pawnee

Elevation: Ground 3021' KB 3026'

Total Depth 4690' PBTD 4580'



12-3-91

Amount of Surface Pipe Set and Cemented at 321 Feet

Multiple Stage Cementing Collar Used? ☒ Yes ☐ No

If yes, show depth set 2585' DV Tool Feet

If Alternate II completion, cement circulated from 2585'

feet depth to surface w/ 425 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 11/19/91

Subscribed and sworn to before me this 19 day of November, 19 91.

My Public Susan E. Bredehoft

Date Commission Expires 5-13-93

SUSAN E. BREDEHOFT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 5-13-93

K.C.C. OFFICE USE ONLY	
F ☒	Letter of Confidentiality Attached
C ☒	Wireline Log Received
	Drillers Timelog Received
Distribution	
SWD/Rep ☐	NGPA ☐
Plug ☐	Other (Specify) <u>JS</u>

RELEASED

DEC 2 8 1991
KGS

FROM CONFIDENTIAL

79321

SIDE TWO

Operator Name National Petroleum Reserves, Inc Lease Name Robben Well # 1
County Thomas
Sec. 9 Twp. 10S Rge. 31
☐ East ☒ West

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.)

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	2600	+426
Topeka	3813	-787
Heebner	4031	-1005
Toronto	4058	-1032
Lansing	4076	-1050
Stark	4284	-1258
Marmaton	4372	-1346
Pawnee	4462	-1436
Ft. Scott	4529	-1503
Miss	4638	-1612

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 1/4"	8 5/8	21#	321	60/40 poz	200	2% gel 3%cc
Production	7 7/8"	4 1/2"	10.5#	4689'	60/40 poz	610	2%gel 3%cc

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

3 SPF	Ft. Scott 4537-4541	250 gal 15% MCA, 1000 gal 15% NE 4541
3 SPF	Myrick Station 4505-4514	250 gal 15% MCA, 2000 gal 15% NE 4514
3 SPF	Pawnee 4463.5-4468.5	250 gal 15% MCA, 1500 gal 15% NE 4469

TUBING RECORD

Size 2 3/8"

Set At 4524'

Packer At

Liner Run

☐ Yes ☒ No

Date of First Production 8-30-91

Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours

Oil 12 Bbls.

Gas Mcf

Water 8 Bbls.

Gas-Oil Ratio

Gravity 39

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perforation ☐ Dually Completed ☒ Commingled
☐ Other (Specify) _____

CONFIDENTIAL

COPY

- 8/ 8/91 DST #1 (4133-4157); Lansing 'E' & 'F' zones; 30-30-30-30; 1st open-weak blow bldg to 10 inches; 2nd open-weak blow bldg to 7½ inches; recovery: 105 ft slightly muddy water w/trace oil (1%-oil, 12%-mud, 87%-water); 120 ft very slightly muddy water w/trace oil (1%-oil, 5%-mud, 94%-water); IFP 50-72; FFP 108-130; ISIP-1245; FSIP-1202; BHT 116°; Drilling at 4,157 ft.
- 8/ 9/91 DST #2 (4189-4280); Lansing 'H', 'I', 'J' zones; 30-30-30-30; 1st open-weak blow built to 2 inches; 2nd open-weak blow built to ½ inch; recovery: 40 feet very slightly oil cut mud (3% oil, 60% mud, 37% water); IFP 72-50; FFP 101-72; ISIP-1339; FSIP-1281; BHT 118°; drilling 4,280 ft.
- 8/10/91 DST #3 (4318-4348); Lansing 'L' zone; 15-15-10-0; 1st open-very weak blow for 12 minutes, died; 2nd open-very weak blow for 12 minutes, died; recovery: 10 ft slightly oil spotted mud (4%-oil, 96%-mud); IFP 50-36; FFP 43-43; ISIP-899; FSIP-0; BHT 117°; changed packer, to test 'K' zone.
DST #4 (4282-4348); Lansing 'K' zone; 30-30-15-15; 1st open-very weak surface blow thru-out; 2nd open-very weak surface blow thru-out; recovery: 40 ft oil spotted mud (2%-oil, 98%-mud); IFP 65-50; FFP 72-50; ISIP-1339; FSIP-1224; BHT 117°; drilling at 4,348 ft.
- 8/11/91 DST #5 (4334-4490); Altamont and Pawnee zones; 30-30-60-60; 1st open-weak blow built to 7½ inches; 2nd open-weak blow built to 6 inches; recovery: 145 ft slightly oil & gas cut mud (7%-oil, 93% mud); IFP 115-123; FFP 152-173; ISIP-1137; FSIP-1181; BHT 117°; drilling at 4,490 ft.
- 8/12/91 DST #6 (4484-4620); Myric Station, Ft. Scott, Cherokee Lime, Johnson Zone zones); 30-30-45-60; 1st open-blow to bottom bucket 3 1/4 minutes; 2nd open-blow to bottom bucket 4 minutes; recovery: 1,200 ft gas-in-pipe, 225 ft clean gassy oil, 360 ft muddy gassy oil, 43° gravity; IFP 79-195; FFP 246-289; ISIP-848; FSIP-826; BHT 124°;

NOV 25 1991

RELEASED

DEC 2 8 1992

FROM CONFIDENTIAL

ORIGINAL

RUSSELL, KS 67665

DRILLERS LOG

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LOCATION: C S/2 SW SW
Section 9-10S-31W
Thomas County, Kansas

CASING: 8-5/8" @ 321' w/200 sks cement STA
4-1/2" @ 4689' w/185 sks cement (Top Stage)
w/425 sks cement (Bottom Stage)

DEPTHS & FORMATIONS

(All measurements from K.B.)

Anhydrite	2601'	Marmaton	4372'
Shale	2638'	Myrick Station	4490'
Heebner	4031'	Johnston	4585'
Toronto	4058'	Mississippi	4624'
Lansing-Kansas City	4076'	R.T.D.	4690'
Base Kansas City	4344'		

NOV 25 1991

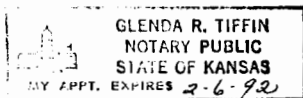
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me on August 14, 1991.

My commission expires: February 6, 1992.



Glenda R. Tiffin
Glenda R. Tiffin, Notary Public