

COPY

SIDE ONE

RELEASED

CONFIDENTIAL

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

Operator: License # 9482Name: National Petroleum Reserves, Inc.Address 250 N. Rock Rd., Suite 340City/State/Zip Wichita, KS 67206

Purchaser: _____

Operator Contact Person: Ted C. BredehoffPhone (316) -681-3515Contractor: Name: Emphasis Oil OperationsLicense: 8241Wellsite Geologist: Howell Crenshaw

Designate Type of Completion

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

If OWM: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

4/28/90 5/7/90
Spud Date Date Reached TD Completion Date

API NO. 15- 179-20,961County Sheridan

FROM CONFIDENTIAL

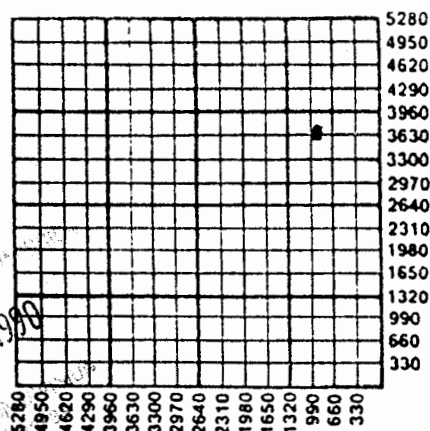
NW SE NE Sec. 6 Twp. 10S Rge. 26 ☒ East
West

3630 Ft. North from Southeast Corner of Section

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

Lease Name Haffner Well # 1Field Name Wildcat

Producing Formation _____

Elevation: Ground 2624' KB 2629'Total Depth 4441' PBDT _____Amount of Surface Pipe Set and Cemented at 250 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ SX mtr.

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 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. BredehoffTitle President Date 5/9/90

Subscribed and sworn to before me this 9th day of May,
1990.

Notary Public T. C. BredehoffDate Commission Expires 6/30/91

NOTARY PUBLIC

STATE OF KANSAS

My Appl. Exp. 6/30/91

T. C. BREDEHOFF

NOTARY PUBLIC

STATE OF KANSAS

My Appl. Exp.

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☐ Drillers Timelog Received

Distribution

☒ KCC ☐ SWD/Rep ☐ NGPA
☒ KGS ☐ Plug ☐ Other (Specify) IS

Form ACO-1 (7-89)

78848

SIDE TWO

CONFIDENTIAL

Operator Name National Petroleum Reserves, Inc Lease Name Haffner Well # 1
Sec. 6 Twp. 10S 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 ☒ 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 <table border="1" style="width:100%"><thead><tr><th>Name</th><th>Top</th><th>Bottom</th></tr></thead><tbody><tr><td>Anhydrite</td><td>2238</td><td>+391</td></tr><tr><td>Topeka</td><td>3605</td><td>-976</td></tr><tr><td>Heebner</td><td>3819</td><td>-1190</td></tr><tr><td>Toronto</td><td>3841</td><td>-1212</td></tr><tr><td>Lansing</td><td>3857</td><td>-1228</td></tr><tr><td>Base/K.C.</td><td>4085</td><td>-1456</td></tr><tr><td>Pawnee</td><td>4235</td><td>-1606</td></tr><tr><td>Ft. Scott</td><td>4304</td><td>-1675</td></tr><tr><td>Cherokee</td><td>4326</td><td>-1697</td></tr><tr><td>Miss</td><td>4202</td><td>-1769</td></tr></tbody></table>	Name	Top	Bottom	Anhydrite	2238	+391	Topeka	3605	-976	Heebner	3819	-1190	Toronto	3841	-1212	Lansing	3857	-1228	Base/K.C.	4085	-1456	Pawnee	4235	-1606	Ft. Scott	4304	-1675	Cherokee	4326	-1697	Miss	4202	-1769
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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 C.	11 7/8"	8 5/8"	20	243'	60/40 poz	160	3%gel 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	
TUBING RECORD				Liner Run ☐ Yes ☐ No			
	Size	Set At	Packer At				
Date of First Production		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 ☐ Perforation ☐ Dually Completed ☐ Commingled

☐ Other (Specify) _____

Production Interval _____

ACO-1 (cont)

COPY

6-10-26W

RELEASED ~~CONFIDENTIAL~~

MAY 24 1991

#1 HAFFNER

NE/4 Sec 6-10S-26W

Sheridan County, Kansas

FROM CONFIDENTIAL

- DST #1 - 3847-3891; A and 35' zone; 15-15-15-15; 1st open-weak surface blow increasing to a weak 1 inch blow; 2nd open-very weak surface blow; recovery-10 ft drilling mud; IFP 41-46 FFP 41-48; ISIP-885; FSIP-890; BHT 110°.
- DST #2 - 3890-3940; 50 and 90 ft zones; 30-30-30-30; 1st open: ½ inch blow increasing to a fair 5.5 inch blow; 2nd open-½ inch blow increasing to a fair 4 inch blow; recovery 110 ft mud-slightly water cut; IFP 35-60; FFP 62-74; ISIP--174; FSIP-1151; BHT 115°.
- DST #3 - 3980-4004; 140 ft zone; 15-15-15-15; 1st open-weak surface blow increased to a weak ½ inch blow; 2nd open-½ inch blow; recovery: 10 ft mud with few oil specks; IFP 20-35; FFP 31-32; ISIP-1245; FSIP-1201; BHT 109°.
- DST #4 - 4000-4062; 160, 180, 200 ft zones; 10-10-5-0; 1st open-weak ¼ inch blow; 2nd open-weak surface blow; recovery 2 ft mud with show of oil; IFP 45-46; FFP 45-48; ISIP 60; FSIP-0; BHT 110°.
- DST #5 - 4270-4370; Ft Scott and Cherokee zones; 10-10-10-10; 1st open-weak surface blow increased to a weak ½ inch blow; 2nd open-weak ½ inch blow; recovery- 5 ft mud; IFP 60-60; FFP 55-61; ISIP-78; FSIP-74; BHT 116°.

MAY 09 1990

CHARGE TO THE ACCOUNT
OF THE OFFICE