

CONFIDENTIAL

ORIGINAL SIDE ONE

ORIGINAL

RELEASED MAY 24 1991

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

API NO. 15- 179-20,961-00-00

County 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 # 1

Field Name Wildcat

Producing Formation

Elevation: Ground 2624' KB 2629'

Total Depth 4441' PBDT

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. Bredehoff

Phone (316) -681-3515

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Howell Crenshaw

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

X Dry Other (Core, Water Supply, etc.)

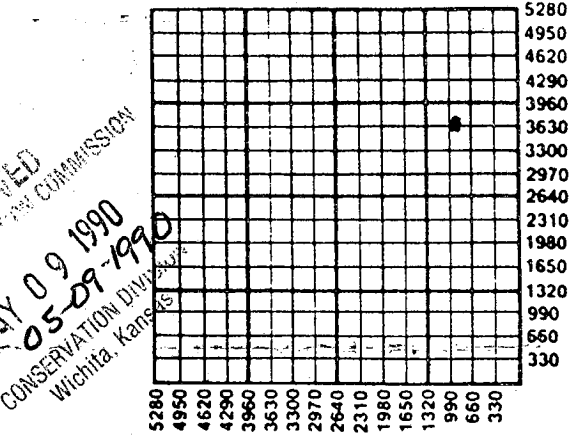
If OMNO: old well info as follows: Operator:

Well Name:

Comp. Date Old Total Depth

Drilling Method: X Mud Rotary Air Rotary Cable

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



5280 4950 4620 4290 3960 3630 3300 2970 2640 2310 1980 1650 1320 990 660 330

Amount of Surface Pipe Set and Cemented at 250 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

RECEIVED MAY 09 1990 CONSERVATION DIVISION Wichita, Kansas

ALT II D/A

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 [Handwritten Signature]

Title President Date 5/9/90

Subscribed and sworn to before me this 9th day of May 19 90.

Notary Public [Handwritten Signature]

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

Date Commission Expires BREDEHOFF, T. NOTARY PUBLIC STATE OF KANSAS My Appl. Exp. 6/30/91

T. C. BREDEHOFF NOTARY PUBLIC STATE OF KANSAS

PS

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.

RELEASED
MAY 24 1991

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
FROM CONFIDENTIAL

Log Sample

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

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	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input type="checkbox"/> No

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 _____

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OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
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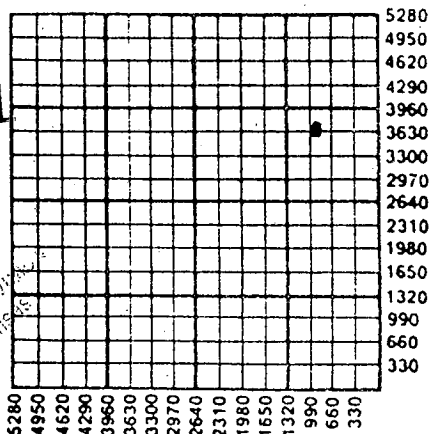
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Oil SWD Temp. Abd.

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Dry Other (Core, Water Supply, etc.)

If **OWMO**: 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

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Signature Ted C. Bredehoff

Title President Date 5/9/90

Subscribed and sworn to before me this 9th day of May, 19 90.

Notary Public T. C. Bredehoff

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)

Date Commission Expires 6/30/91

NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 6/30/91

T. C. BREDEHOFF
NOTARY PUBLIC
STATE OF KANSAS

PI X

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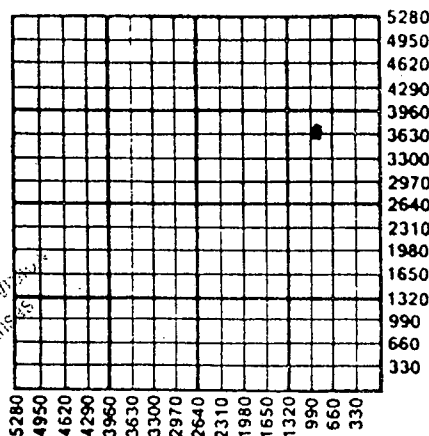
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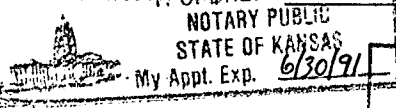
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Notary Public T. C. Bredehoff II

Date Commission Expires 6/30/91



T. C. BREDEHOFF II
NOTARY PUBLIC
STATE OF KANSAS

K.C.C. OFFICE USE ONLY

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C Wireline Log Received

C Drillers TimeLog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other

Oil GAS PRO (Specify)

ORIGINAL

RELEASED

ACO-1 (cont)

#1 HAFFNER

NE/4 Sec 6-10S-26W

Sheridan County, Kansas

15-179 - 20961-00-00

MAY 24 1990 CONFIDENTIAL

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°.

RECEIVED
STATE CORPORATION COMMISSION

MAY 09 1990

CONSERVATION DIVISION
Wichita, Kansas



15-179-20961-00-00

INVOICE

HALLIBURTON SERVICES
ORIGINAL

A Halliburton Company

CONFIDENTIAL

INVOICE NO.	DATE
863406	04/28/19

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
HAFFNER 1		SHERIDAN		KS	NATIONAL	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE			TICKET DATE
OBERLJN		EMPHASIS	CEMENT SURFACE CASING			04/28/19
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA		FILE
623541	JOHN COLLINS	MAY 2 4 1991		COMPANY TRUCK		941

FROM CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

NATIONAL PETROLEUM RESERVES
250 N. ROCK RD.
SUITE 340
WICHITA, KS 67206

SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	45	M1	2.20	99.00
001-016	CEMENTING CASING	254	FT	395.00	395.00
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8	5/8 IN	59.00	59.00
504-308	STANDARD CEMENT	90	SK	6.75	607.50
506-105	POZMIX A	60	SK	3.50	210.00
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	26.25	131.25
500-207	BULK SERVICE CHARGE	160	CFT	.95	152.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	304.88	TMT	.70	213.42

ORIGINAL



15-179-20961-00-00

P.O. BOX 951046
DALLAS, TX 75395-1046

HALLIBURTON SERVICES

A Halliburton Company

CONFIDENTIAL

INVOICE

INVOICE NO.	DATE
-------------	------

863367 05/06/19

WELL/LEASE NO./PLANT NAME		WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER	
HAFNER 1		SHERIDAN	KS	NATIONAL PET. RES.	
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
OBERLIN	EMPHASIS DRLG.	PLUG TO ABANDON		05/06/19	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE
623541	J. COLLIE			RELEASED COMPANY TRUCK	945

MAY 2 4 1991

DIRECT CORRESPONDENCE TO:

NATIONAL PETROLEUM RESERVES
250 N. ROCK RD.
SUITE 340
WICHITA, KS 67206

SUITE 600 FROM CONFIDENTIAL
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	45	MI	2.20	99.00
		1	UNT		
090-910	MISCELLANEOUS PUMPING JOB	1	TRK	370.00	370.00
090-928	MISCELLANEOUS PUMP JOB-ADD HRS	3	HR	84.00	252.00
		1	TRK		
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8 5/8	IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	114	SK	6.75	769.50
506-105	POZMIX A	76	SK	3.50	266.00
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C
507-277	HALLIBURTON-GEL ADDED 4%	8	SK	13.00	104.00
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	26.25	157.50
507-210	FLOCELE	44	LB	1.23	54.12
500-207	BULK SERVICE CHARGE	202	CFT	.95	191.90
500-306	MILEAGE CMTG MAT DEL OR RETURN	401.94	TMI	.70	281.36