

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 Wichita, KS 67206

Purchaser Central States Gas Co.
Pratt, Ks.

Operator Contact Person Ted C. Bredehoff
Phone 316-681-3515

Contractor: License # 5929
Name Duke Drilling Co., Inc.

Wellsite Geologist Howell Crenshaw
Phone 316 - 832-0870

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

If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
6-9-86 6-17-86 8/7/86
Spud Date Date Reached TD Completion Date

4200' PBDT
Total Depth

Amount of Surface Pipe Set and Cemented at 368' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/SX cmt
Cement Company Name
Invoice #

API No. 15-185-22,329-0000
County Stafford
C/NE Sec. 10 Twp. 24 Rge. 15 East West

3960 Ft North from Southeast Corner of Section
1320 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

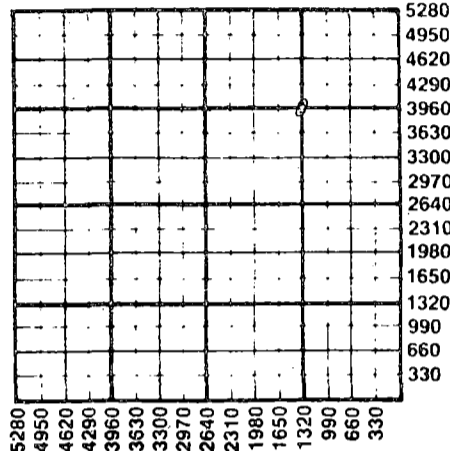
Lease Name Nagel Well # 1

Field Name Macksville

Producing Formation Arbuckle

Elevation: Ground 2015' KB 2020'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater 3960 Ft North from Southeast Corner
1320 Ft West from Southeast Corner of
Sec 10 Twp 24 Rge 15 East West

Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain)
(purchased from city, R.W.D. #)

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. Rule 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.

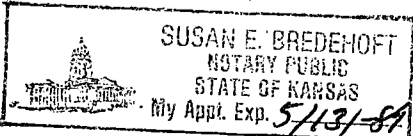
Signature [Signature]
Title President Date 8/11/86

Subscribed and sworn to before me this 11th day of August 1986

Notary Public [Signature]

Date Commission Expires 5/13/89

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS PUG Other
(Specify)
Form ACO-1 (7-84)



AUG 13 1986
8-13-86

Sec 10 Twp 24 Rge 15 W

SIDE TWO

Operator Name National Petroleum Reserves, Inc. Lease Name Nagel Well # 1

Sec. 10 Twp. 24 Rge. 15 East West County Stafford

WELL LOG

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

Arbuckle

4063'-4100' Dolomite, light gray, finely crystalline, scattered vugular porosity, strong odor, spotty brown stain, weak to fair show of free oil.

DST #1 - Arbuckle Dolomite, 4015'-4075'; 30-60-60-60; Recovery: gas gauged and 120 ft of mud; preflow: 1,612,000 to 1,656,000 cubic feet of gas per day; second flow: 1,764,000 to 1,462,000 cubic feet of gas per day. Pressures: ISIP -1360 FSIP-1340; IFP 375-322; FFP 375-270; Temp: 114°F

4100'-4120' Dolomite, light gray, finely crystalline, scattered vugular porosity, strong odor, spotty brown stain, weak to fair show of free oil.

DST #1 - Arbuckle Dolomite, 4100'-4120'; 30-30-30-30; Recovery: gas gauged and 1200

Name	Top	Bottom
Topeka	3098	1078
Heebner	3494	1474
Toronto	3517	1494
Douglas	3535	1514
Brown Lime	3629	1612
Lansing	3638	1620
Base/KC	3910	1890
Conglomerate	3941	1920
Viola	3999	1980
Simpson	4018	1980
Simpson Sand	4047	2018
Arbuckle	4060	2043
RTD	4200	2180
LTD	4203	2183

ft slightly oil cut water and 960 ft water. Preflow: 101,000 to 24,500 cubic ft gas per day; second flow; 19,900 to 29,400 cubic ft gas per day; pressures: ISIP-1195; FSIP-1101; IFP 312-510; FFP 551-665.

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 1/2"	8-5/8"	20#	368'	50/50poz	225	2% gel 3% cc
Production	7-7/8"	5 1/2"	14#	4199'	50/50poz	40	18% salt .75% CFR2
					50/50poz	100	18% salt .75% CFR2
							5# Gilsonite per sk.

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4098-4100	250 gals INS acid 15%	4100
2	4063-4069		

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2 3/8	4074			

Date of First Production 8/11/86 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water n/a Bbls	Gas-Oil Ratio	Gravity
		1,000			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed
 Commingled