

FOR FILE

OF KANSAS
DIVISION

TION FORM

DESCRIPTION OF WELL AND LEASE

Operator: License # 5208
Name Mobil Oil Corporation
Address P. O. Box 5444
City/State/Zip Denver, CO 80217-5444

Purchaser Northern Natural Gas

Operator Contact Person J. L. Douglass
Phone (303) 298-2047

Contractor: License # 9137
Name Unit Drilling & Exploration Co.

Wellsite Geologist Rick Stever
Phone (303) 298-2294

Designate Type of Completion

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

If OWNO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

3/22/85 4/01/85 5/13/85
Spud Date Date Reached TD Completion Date

5276' 5190'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1888 feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set 2956 ft
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

API NO. 15-055 -20590

County Finney

C SW NE 16 25S 34 East
Sec Twp Rge West

3300 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

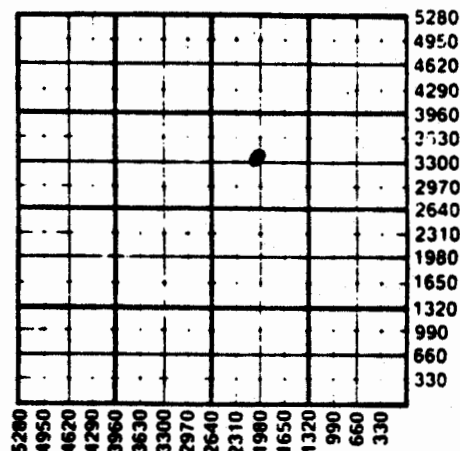
Lease Name August Brown Well # 1

Field Name Wildcat

Producing Formation St. Louis

Elevation: Ground 2964 2980 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: ☒ Disposal
Docket # CD-4809 ☐ Repressuring
CC-19847

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T-85-312
100' SW of water well

☒ Groundwater 3300 Ft North from Southeast Corner
1980 Ft West from Southeast Corner of
Sec 16 Twp 25S Rge 34 ☐ 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 J. E. Dawson

Title Producing Accounting Supervisor Date

Subscribed and sworn to before me this 3rd day of July 1988.

Notary Public Diana J. Jankovich

Date Commission Expires Dec 11th 1988

K.C.C. OFFICE USE ONLY

☐ Letter of Confidentiality Attached
☐ Wireline Log Received
☐ Drillers Time Log Received

Distribution

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

Operator Name Lease Name..... Well #.....

Sec..... 16 25S 34 ☐ East ☒ West County..... Finney

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

Acid/Frac Record:

MIRU Halliburton Pump frac as follows:

4000 gal gelled diesel pad
2750 gal gelled diesel w/½ ppg 16/30 sand
2750 gal gelled diesel w/1ppg 16/30 sand
2750 gal gelled diesel w/2ppg 16/30 sand
2750 gal gelled diesel w/ppg 16/30 sand
1310 gal #2 diesel flush

Formation Description

☐ Log ☐ Sample

Name	Top	Bottom
Base SC	1882	1098
Wellington	2200	780
Chase	2475	505
Winfield	2530	450
Council Grove	2748	+232
Wasaumsee	3152	-172
Shawnee	3470	-490
Lansing	3842	-862
Kansas City	4096	-1116
Marmaton	4420	-1440
Cherokee	4550	-2980
Morrow	4832	-1852
Chester	4944	-1964
Ste. Gen.	4970	-1990
St. Louis	5060	-2080

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	12½"	9-5/8"	36	1898'	Class H	100	5% Gel 3% CACL ₂
Production	8-3/4"	5½"	15.5#	5273' See below	Class H Lite	250 130	5% KCL + 5% Halad 3% CACL ₂

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4892-98	See Acid/Frac record listed above	

TUBING RECORD

Size 2-7/8"

Set At 2945'

Packer at 4775'

Liner Run ☒ Yes ☐ No

Date of First Production

Producing Method

☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

Estimated Production Per 24 Hours

Oil

Gas

Water

Gas-Oil Ratio

Gravity

Bbls

MCF

Bbls

CFPB

METHOD OF COMPLETION

Production Interval

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

4892-98

*50/50 90 sacks 2% CACL₂

ATTN: JENS MUNTHE

3 pages

TERRA TEK CORE SERVICES

360 Wakara Way, Salt Lake City, Utah 84108 (801) 584-2480

MOBIL OIL CORPORATION

Well: August Brown #1
Field: Wildcat
Drilling Fluid: Water Base

State: Kansas
County: Haskell
Location: Sec 16-T25S-R34W

Date: 16 Apr 1985
TICS File #: 85145
Elevation: 2980.5 2984.6

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability	Porosity	Saturation		Grain	Lithology
		Horz (md)	(%)	Oil (%)	H2O (%)	Density (gm/cc)	

Morrow FORMATION

	4844.0 - 4891.0						
	4891.5	3.2	8.0	13.6	69.0	2.73	
	4892.0	<0.01	2.6	9.1	76.0	2.75	
	4892.5	0.79	8.0	18.4	74.0	2.76	
	4893.0	9.1	16.2	43.8	34.9	2.66	
	4893.5	34	18.2	41.7	34.7	2.66	
	4894.0	34	17.1	37.9	44.1	2.67	
	4894.5	43	17.2	40.6	34.9	2.68	
	4895.0	44	18.2	33.9	44.6	2.67	
	4895.5	17	21.4	44.6	34.4	2.65	
	4896.0	9.3	13.5	10.5	34.3	2.67	
	4896.5	0.57	12.3	11.0	70.3	2.69	
	4897.0	0.41	12.5	4.0	85.7	2.68	
	4897.5	8.6	13.1	35.7	51.9	2.65	
	4898.0	1.2	19.3	11.9	71.1	2.66	
	4898.5	2.6	13.6	23.9	66.0	2.67	
	4899.0	11	14.0	22.3	64.1	2.67	
	4899.5	1.8	13.3	14.8	68.6	2.67	

bulk & clay
x-ray diff.
on all 4 smpls
circled, prob. done
by 11/19, Tom Little

thin sec.
5

10

15

3 plugs each to go
to Steve Liberal,
talked to Rick Dutton
4/16 PM, he expects
to ship 4/17
Sh:sl/lav, occas. iid s:ks

TERRA TEK CORE SERVICES

360 Wakara Way, Salt Lake City, Utah 84108 (801) 584-2400

MOBIL OIL CORPORATION

Date: 16 Apr 1985

TGS File #: 85126

Well:

August Brown #1

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability	Porosity (%)	Saturation		Grain Density (gm/cc)	Lithology
		Horz (md)		Oil (%)	H2O (%)		
18	4900.0	1.2	13.2	16.7	70.6	2.67	
19	4900.5	0.57	14.2	14.0	70.1	2.66	
20	4901.0	0.95	11.8	10.3	78.0	2.67	
21	4901.5	1.9	11.8	13.0	69.7	2.72	
22	4902.0	1.5	12.3	6.8	75.3	2.67	
23	4902.5	1.4	12.7	21.3	60.8	2.71	
thin sec. 24	4903.0	2.6	12.5	12.3	68.1	2.66	
25	4903.5	1.1	8.3	15.3	55.2	2.64	
26	4904.0	1.0	13.5	12.8	73.3	2.67	