SIDE ONE

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 # 9446
Name N.F. Producers, Inc.
Address 5151 W. First Ave.
City/State/Zip Denver, CO 80219

Purchaser Clear Creek, Inc.

Operator Contact Person Doug Frickey
Phone (303) 934-2464

Contractor: License # 5107
Name H-30, Inc.

Wellsite Geologist
Phone

Designate Type of Completion
[XX] New Well [ ] Re-Entry [ ] Workover

[XX] Oil [ ] SWD [ ] Temp Abd
[ ] Gas [ ] Inj [ ] Delayed Comp
[ ] Dry [ ] Other (Core, Water Supply etc.)

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

API NO. 15- 007-21,930

County Barber

C NE NW Sec. 36 Twp. 31S Rge. 13 [ ] East [XX] West

4620 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

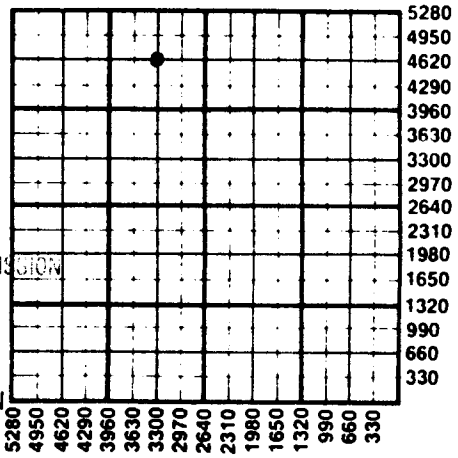
Lease Name Kimball Well # 2 "C"

Field Name Nurse

Producing Formation Mississippian

Elevation: Ground 1522' KB 1513'

Section Plat



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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 Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge [ ] 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. #)

WELL HISTORY

Drilling Method:
[XX] Mud Rotary [ ] Air Rotary [ ] Cable

9-19-84 | 9-26-84 | 9-28-84
Spud Date | Date Reached TD | Completion Date

4215' |
Total Depth | PBTD

Wireline log received

Amount of Surface Pipe Set and Cemented at 350 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

Drillers tickets received

METHOD OF COMPLETION

Disposition of gas: [ ] Vented
[ ] Sold
[X] Used on Lease

[X] Open Hole [ ] Perforation
[ ] Other (Specify)

[ ] Dually Completed
[ ] Commingled

Production Interval
4161-4167

Operator Name N.F. Producers Lease Name Kimball Well #. 2"C"

Sec. 36 Twp. 31S Rge. 13 ☐ East ☒ West County. Barber

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

ELEVATIONS: 1522' K.B., 1513' G.L.

FORMATION	ELEC. LOG DEPTH	SUB SEA DATUM
Heebner	3484	-1962
Toronto	3502	-1980
Douglas	3522	-2000
Lansing	3666	-2144
Swope	4009	-2487
Hertha	4056	-2534
Mississippi	4162	-2640
R.T.D.	4215	-2693
L.T.D.	4213	-2691

Well site geologist - Keith Reavis

CONTRACTOR: H-30 Drilling, Inc. (Rig #12)
COMMENCED: September 20, 1984
COMPLETED: September 27, 1984
CASING PROGRAM: Surface: 8 5/8" @ 350'
Production: 4½" @ 4212'
MEASUREMENTS: All depths measured from the Kelly Bushing

Formation Description
☐ Log ☒ Sample

Name	Top	Bottom
Red bed & clay	0'	450'
REd bed & shale	450'	1009'
Red bed	1009'	1436'
Red bed & lime	1436'	1685'
Lime & shale	1685'	3627'
Shale	3627'	3675'
Lime & shale	3675'	4080'
Shale & Miss.	4080'	4215'
Rotary total depth	4215'	

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"	23#	350'	Class H	225	3% cc, 2% ge
PRODUCTION	7-7/8"	4-1/2"	10.5#	4214'	Surefil	150	

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4161-4167	750 gal. 15% Demud acid	4161-4167
		Spearhead, Crosslink frac	
		10-20 sand	
		The Buie Co., Inc.	

TUBING RECORD Size 2 3/8" (135 jts) Set At 4178.30 Packer at — Liner Run ☐ Yes ☐ No

Date of First Production	Producing Method				
10/11/84	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain)				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	80 BOPD	15,000	30 BOWPD		32

N.F.
PRODUCERS
5151 W. 1st Avenue
Denver, Colorado 80214
INC.

2'C' Kimball
36-31-13w

DRILLING TIME: One (1) foot drilling time recorded by geolograph 3300' to the R.T.D.

SAMPLES: Samples examined from 3350' to the R.T.D.

FORMATION TESTING: There were two (2) drill stem tests run by Star Hughes Testers

ELECTRIC LOG: Radiation Guard-Caliper by NL McCullough

DRILL STEM TEST #1 (Douglas) 3516-3625

Open: 45-60-90-60

Blow: 1st opening weak, 2nd opening weak building to strong

Recovery: 190' muddy salt water

Pressures:
ISIP 1462 psi
FSIP 1398 psi
IFP 103-129 psi
FFP 142-181 psi
HSH 1629-1616 psi

Temperature: 92 degrees

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DRILL STEM TEST #2 (Mississippian) 4158-4213

Open: 30-60-45-60

Blow: Strong throughout test

Recovery: 1030' gas in pipe, 50' slightly oil specked and gas cut mud, 60' slightly oil and gas cut mud, 60' oil and gas cut mud, 60' oil and gas cut watery mud, 90' slightly oil and gas cut water

Pressures:
ISIP 1218 psi
FSIP 1051 psi
IFP 116-129 psi
FFP 168-181 psi
HSH 2015-1989 psi

Temperature: 100 degrees

JAN 9 1985
State Geological Survey
WICHITA BRANCH

2'C' Kimball
36-31-13w

N.F. PRODUCERS INC.
5151 W. 1st Avenue
Denver, Colorado 80214

RECOMMENDATIONS

Due to the results of drill stem #2 and electric log analysis, it was recommended that 4½" production casing be set and cemented one (1) foot off bottom and the Kimball #2C be perforated and tested in the following zone:

Mississippi 4161-4167

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