

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 # 4036
Name Pittman & Associates, Inc.
Address 5921 S. Middlefield Rd.
Suite 200
City/State/Zip Littleton, CO 80123

Purchaser Union Oil Company of
California

Operator Contact Person Katalie Balt
Phone 303-795-6914

Contractor: License # 9087
Name R. & C. Drilling Co., Inc.

Wellsite Geologist Mark Torr
Phone 913-628-3131

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

5-14-85 5-21-85 5-22-85
Spud Date Date Reached TD Completion Date
4483 4470
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 285' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1818' feet
If alternate 2 completion, cement circulated
from 2215' feet depth to 480' w/ 650 SX cmt

API NO. 15-135-22,819-00-00

County Ness

C NE SW Sec 18 Twp 17 Rge 25 East West

2130 Ft North from Southeast Corner of Section
3150 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

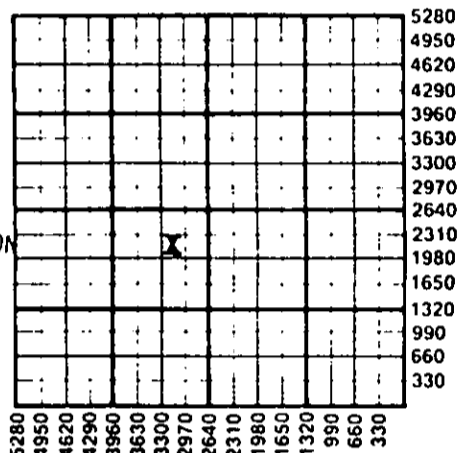
Lease Name Norton Well # 2-18

Field Name STUTZ

Producing Formation MISSISSIPPIAN

Elevation: Ground 2488 KB 2493

Section Plat



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WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # Lee Norton, RR, Utica, KS

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. #)

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 6/28/85

Subscribed and sworn to before me this 28th day of JUNE 1985
Notary Public [Signature]
4486 W. Ponds View Drive, Littleton, CO 80123
Date Commission Expires April 8, 1988

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)

Sec. 18 Twp 17 Rge 25 W

SIDE TWO

Operator Name Pittman & Associates, Inc. Lease Name Norton Well # 2-18

Sec. 18 Twp. 17 Rge. 25 East West County Ness

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

0' - 287' Sand, Shale, And Clay
 287' - 1038' Sand
 1038' - 1834' Sand & Shale
 1834' - 1854' Anhydrite
 1854' - 3838' Lime & Shale
 3338' - 3970' Lime
 3970' - 4105' Lime & Shale
 4105' - 4438' Lime
 4438' - 4483' Mississippi R.T.D.

Name Top Bottom

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	24	285'	Common..	180	2%Gel. 3%CC..
Production 1st	7.7/8	4 1/2	10 1/2	4482'	10-2	100
Production 2nd	7.7/8	4 1/2	10 1/2	4482'	50/50paz	650	4%Gel. 1% d209

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4440' TO 4442'	250 GALLONS MSB ACID	4440 to 4442
4	4431 TO 4434'	250 GALLONS MSB ACID	4431 to 4434
SQUEEZES PERFORATION AT 4440' to 4442 with 100 sacks			

TUBING RECORD Size 2 3/8 Set At 4458 Packer at NONE Liner Run Yes No

Date of First Production 7-3-85 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	57 Bbls	-0- MCF	20 Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

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

4431 to 4434

MARK TORR

15-135-22819-00-00

Independent Petroleum Geologist
P.O. BOX 1293
HAYS, KANSAS 67601

(913) 628-3131

05-23-85

Pittman and Associates, Inc.
Norton # 2-18
150' NE of NE-SW of Section 18-17S-25W
Ness County, Kansas

Commenced: 05-13-85.
Completed Drilling: 05-21-85.
Drilled By: R&C Drilling, Rig # 2.

Drill Stem Tests: Diamond Testing ran 2.
Electric Logs: RA Guard with Caliper.
Pipe Record: 8⁵/₈" at 287', 5¹/₂" at 4478'.

-GEOLOGICAL REPORT-

Elevation
2493:KB
2491:DF
2488:GL

Gentlemen;

The above captioned well was under my supervision from a rotary depth of 3500' to a rotary total depth of 4483'. Ten foot samples, washed and dried, were examined from 3500' to RTD. Two drill stem tests were run. Great Guns ran an RA Guard Log. This well had pipe set in it for further testing.

Formation Data

All measurements are from KB.

Log Tops

Anhydrite	1823 Top	+670
	1853 Bottom	+640
Heebner	3776	-1283
Toronto Limestone	3794	-1301
Lansing-Kansas City	3815	-1322
Base of Kansas City	4122	-1629
Marmaton	4181	-1688
Pawnee	4253	-1760
Fort Scott	4326	-1833
Cherokee	4351	-1858
Mississippian	4416	-1923
Mississippian Dolomite	4423	-1930
RTD	4483	-1990

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MARK TORR

Independent Petroleum Geologist
P.O. BOX 1293
HAYS, KANSAS 67601

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Zones of Interest

Lansing-Kansas City

3928' to 3942': Limestone, tan. Fine crystalline to oolitic to oolitic, chalky. No visible free oil, no odor, and no stain. This zone calculates wet.

4042' to 4053': Limestone, offwhite to tan. Chalky fine crystalline to oolitic. No show & no odor.

Marmaton

4181' to 4183': Limestone, offwhite to tan. Fine crystalline with scattered corals. Small show of free oil, faint odor, and a spotted to even stain. Test this zone before abandoning the well.

Fort Scott

4346' to 4348': Limestone, tan. Tight fine crystalline with pinpoint porosity. Trace of free oil, very faint odor, and a light stain. This zone calculates 4 $\frac{1}{2}$ % porosity and 85% saltwater saturation.

Mississippian

4424' to 4428': Dolomite, tan. Vuggy fine crystalline, with a show of free oil, fair odor, and a light to medium stain. This zone was covered in DST # 2. See drill stem test results on page # 3.

4432' to 4434' Dolomite, tan. Fine to medium crystalline. Fair show of free oil, fair to good odor, and a medium to dark stain. This zone was covered in DST # 2. See drill stem test results on page # 3.

4441' to 4444': Dolomite, gray-tan. Medium to coarse crystalline, vuggy. Show of free oil, good to strong odor, and a dark saturated stain. This zone calculates 17% porosity and 35% saltwater saturation.
TEST THIS ZONE.

Recommendations

It was decided by the operator to set production casing on this well and test the Mississippian through the pipe. I recommend testing the interval from 4441' to 4444'. All other zones to be tested before abandoning have been noted in this report.

Respectfully submitted,

Mark Torr
Mark Torr
Geologist

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CONSERVATION DIVISION
White, Kansas

MARK TORR

Independent Petroleum Geologist
P.O. BOX 1293
HAYS, KANSAS 67601

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Drill Stem Tests

#1)

Interval Tested: 4393' to 4432'. Missrun, the tool would not go to bottom.

#2)

Interval Tested: 4393' to 4438'.

Times: 15-30-15-30.

Blow: Weak blow, dead in 10 minutes on first open. No blow on second open.
Flushed tool on second open. No help.

Recovery: 5' of drilling mud, with a few oil specks on top of the tool.

Shut-in Pressures: 231 to 99 PSI.

Flow Pressures: 55 to 33 & 55 to 44 PSI.

Drilling Time

One foot drilling time from 3501' to 4483'.

3501-3600 12222/32211/12222/22322/22322/32223/23232/23311/11113/22111/
11111/11111/32211/11112/22232/23333/32323/22211/11211/23212/
3601-3700 11112/11111/11122/11211/11211/11111/12322/12122/32221/32333/
33433/23433/22322/11121/22232/32323/11113/34232/23233/32332/
3701-3800 43343/33224/23332/21221/22233/23212/21323/33221/11111/21222/
21222/23233/33232/33223/11111/11122/22133/34443/34334/23332/
3801-3900 33233/34344/34434/32233/22322/23322/22233/23333/43433/34534/
32333/33332/22333/22444/33332/23322/32334/34444/34334/33433/
3901-4000 44343/33343/33434/34332/22433/42111/11111/11121/21112/23233/
23223/32232/13343/34333/34233/23333/22223/23323/33434/33334/
4001-4100 34234/43433/33333/44334/34434/44344/44424/34242/33322/23211/
23213/34334/44334/43444/43434/34434/54444/44444/44454/44642/
4101-4200 21334/43333/24332/33344/43453/23343/22254/43333/33442/43233/
43343/43433/33245/23444/34444/44343/23334/43343/34344/43555/
4201-4300 44544/33345/54555/44354/33544/44444/45554/45554/54554/44434/
43233/34333/44454/44444/44454/45445/45544/44454/44444/44444/
4301-4400 44444/34444/33434/33333/32211/22354/35345/44354/34244/44444/
44433/24343/33533/33544/45354/43433/34353/44445/55664/54444/
4401-4483 45543/34543/34434/34546/54434/33444/34221/23454/23432/23323/
23331/22333/11212/12112/21213/12123/243

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