

WOWDEE #1

Rotary T.D. 3051
 Comm. Rot. 11-5-52
 Comp. Rot. 11-20-52

NE SW SE
 Sec. 10-31-35
 Cowley Co. Kans.

Cemented

8 5/8" Surface w/95 sx
 5 1/2" Oil String w/35 sx.

Cable Tools
 Total Depth 3069 1/2 PB 3058 1/2 ✓
 Comm. 12-11-52
 Comp. 2-10-53

Elev. Nat. Rot. Bushing
 1258'
 1238'

Casing Record
 8 5/8" 139'
 5 1/2" 3049' 15.5# SS Csg. Wg. 2

Formations:
 Top K.C. ls 2517
 Base " 2775
 Top Barnston 2835
 Top Cherokee 2959
 Top Eville s 3050

Figures Indicate Bottom of Formations
 Rotary Bushing 4.8 from ground level

clay	12	line	1865
shale	52	shale	1990
line & shale	87	sand - shale	2060
line	100	shale	2115
shale	110	shale-sand	2169
brkn formation	123	sand	2225
shale	138	shale-sandy	2255
line	140	shale	2516
shale-clay	180	lime	2783
shale-line	420	shale	2835
line	478	lime-shale	2865
shale	585	lime	2940
shale-lime	745	shale	3050
shale-shells	945	sand	3051 Rot. T.D.
shale	1122		
line	1130	sand	3069 1/2 T.D.
shale-shells	1425		
lime	1475	P.B.	3058 1/2
lime-shale brks	1700		
lime	1750		
shale-lime	1835		

DRILLING-IN DATA

12-14-52
 3051 - 3053 1/2 14 Min.
 3053 1/2 - 3055 1/2 12 "
 3055 1/2 - 3056 3/4 8 "

2-15-52
 3056 1/2 - 3058 8 Min.
 3058 - 3059 12 "
 3059 - 3060 4 "
 3060 - 3062 15 "
 Failed hole dry 1 hr. test made 1" oil 5 1/4" water

2-16-52
 17 hr. test 4" water 11" oil - water not salty

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Figures Indicate Bottom of Formations
Rotary Bushing 4.8 from ground level

clay	12	lime	1865 *
shale	52	shale	1990
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DRILLING-IN DATA

12-14-52

3051 - 3053 1/2 14 Min.
3053 1/2 - 3055 1/2 12 "
3055 1/2 - 3056 1/2 8 "

2-15-52

3056 1/2 - 3058 8 Min.
3058 - 3059 12 "
3059 - 3060 4 "
3060 - 3062 15 "
Bailed hole dry 1 hr. test made 1" oil 5 1/2" water

2-16-52

17 hr. test 4" water 11" oil - water not salty
3062 - 3063 3 Min.
3063 - 3064 4 "
3064 - 3065 9 "
3065 - 3066 18 "
3066 - 3067 14 "
3067 - 3068 11 "

2-17-52

Plugged with 1 sk Cal-seal from 3069 1/2 to 3060
Moved to Satterthwaite
Hole standing

(Continued)

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1-30-53

403' fluid in hole. Drilled out Cal-seal plug
Lane Wells TD 3070'

1-31-53

110' fluid in hole at 8:00 A.M.
Plugged back from 3068 - 3058 $\frac{1}{2}$ Resin cement
Bailed hole clean.

2-2-53

Halliburton Sandoil treatment Used crude oil 207 bbls.
#5 fuel oil $\frac{72}{279}$ " "
Swabbed & bailed hole dry. " to recover

2-3-53

324' fluid in hole at 8:00 A.M.
Bailed Halliburton sand & swabbed oil into test tank. Made 8 3/4" oil.

2-4-53

245' fluid in hole at 8:00 A.M.
Run tubing - swabbed & bailed.

2-5-53

Well pumping.

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#1 C. H. Mowder

Spudder #1

6-19-61 - 6-27-61

T.D. 3070 Plugged Back to 2058½

Sealed pipe down - cleaned out hole -
Swabbed and bailed - cleaning out hole -
Halliburton Steel Line shows T.D. 3065 & Shoe @ 3036
Halliburton Waterfrac 5,000 # 20-40 Sand
5,000 # 10-20 Sand
340 bbl. water

Log rods & tubing to pump.

K. T. WIEDEMANN ESTATE

APRIL 30, 1962

Work-over Report

#1 Chas. Mowder
NE SW SE Sec. 10-41-30
Cowley County, Kansas

Moved in cable tool rig on June 19, 1961. Pulled rods and tubing, sealed down pipe, and cleaned out to total depth at 3058½. 140 ft. fluid in hole - all oil. Swabbing and washing hole, cleaning up in good shape. Bailor test: 3" oil - 1/2" water.

Treatment

Frac with 10,000# sand and 8900 gal. gelled water. Flushed with 120 bbls water. Break-down: 800 PSI Max: 1100 PSI Min: 700 PSI
Shut-in: 600 PSI, 5 Min. 6 PSI.

No rodometer test data is available for this lease. This well was making approximately 5 bbls of oil per day before work-over.

Production increase on the Mowder lease indicates this well made an additional 10 BPD oil after treatment. This level of production did not hold thru the month of July; however, and the well was soon back to 5 BOPD.

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APR 30 2009

LABORATORY
WICHITA, KS

Sincerely yours,