

COMPLETION RECORD - DICKMAN #4

November 5th, 1962 - Set 5-1/2" Production Casing @ 4529' (1' off bottom) with 200 sacks common cement. 2-stage tool 1579' with 400 sacks Diacel 'D' cement by Sun Cementing. After 300 sacks lost returns gradually. Plug down 2:00 p ZERO point is 6 1/2' above Bradenhead.

Nov 27, 1962: Drilling cement (upper two stages 2) and (lower 2) in AM. Cleaned out to 4520' w/ cable tools. Ran Wiley gamma Ray-neutron casing hole log. Top Miss @ 4461 (two feet low to Spl top) Will perforate 4497' to 4512' (15' interval) on minus (-2000 to -2012) leaving 8' sump below bottom perms. Log shows Miss down below 408 plus gd porosity - shows 1-2 bot pay in 7th sect & shows chert sed 4487 as fairly clean & porous 12% porosity. Total Sed (4437-46). O point 5' above ground level.

Nov 28, 1962: Perforate 60 jet shots 4497-4512. Load hole 3200 salt water. ~~Shut down overnight.~~ Hole did not take any water. ~~But hole and~~ Shut hole down. (will acidize with 4000 gal inhibited acid.) \$ load into Tanks; Recovered 20 bbls over load.

\$ Test's

before acid	1st hr	15.51 BW	Next 1/2 hr 7 bbls.
	2nd hr	12.69 BW	Water down - not muddy No mud showed up

Start acid 6:12 pm. End 8:20 pm
150# → 1400 # 1400 #, Took 4 bbls/m at 1200 #. After shut in 10 min pressure down from 1200# - 400 #

Acidize w/ 4000 Retarded acid - load hole with salt water.

Nov: 29, 1962: Overnight fluid level 1400' from top = 3.112' salt = load. water in hole. Swabbing 2400' from top (2100' OB). \$ down to 300' off bottom; \$ tests: 1st hour \$ 21.23 BW/w/ seum oil; 2nd hr \$ 19.82 BW/w/ seum oil. (2562 # Sp 6 1.05 then 1166 # psi)

Nov 30, 1962: Overnight fluid level 1950' from top = Saltwater w/ 1/2 Bbl line oil on top. Currently running injection test. 1st 30 min took 37 bbls water over fill. Plan to empty tank into well for rejection test. Freddie feels we will need 50-60 bbls per hour for good disposal system. Water in such tank has seum of oil which could account for oil in hole. Injection tests - gravity from SW tank. Kill pipe w 46 bbls.

8:45 - 9:15	12.61
9:15 - 9:45	11.28
9:45 - 10:15	8.46
10:15 - 10:45	9.87
10:45 - 11:15	8.46
11:15 - 11:45	8.46

} = 16.92 BW PH
x 24H = 4001 Pw

Next 10 measurements 1/2 hr each		Next 2 Hours to 6:45 pm
8.46	4.23 BW	5.64
7.05	5.64	5.64
5.64	5.64	5.64
5.64	5.64	5.64
4.23	5.64	5.64

7 hrs } 5.64 x 24 = 270 BW PD

Dec 1 1962 Fluid level overnight 1400' from top = 3112' Sp. Dickman water 6020

COMPLETION RECORD - DICKMAN INJECTION WELL

12-6-62 - Salt water injection tests:

9:00 to 10:00	63.45 Barrels Salt Water
11:00	14.10
12:00	11.28
1:00	10.57
2:00	11.98
3:00	8.81
4:00	8.81
5:00	11.28
	<hr/> 140.28 Barrels in 8 hours

12-11-62 - Install wooden tank.

1-25-63 MILT perf 4489-97

1-26-63 injection tests w/ pump truck (20 minutes test)
 1st hr 24 BW @ 100#
 2nd hr 48 BW @ 200#
 3rd hr 60 BW @ 300#

5000 Reg acid (B-J) Max press 1000# Min 900#
 Inj rate 3 3/4 BPM. SI 30" bled off slowly never
 went on vacuum, slowed part of wtr back to
 pits. Swabbed into tank - clean - sw, no mud.
 Could not lower fluid below 1950' from surface.

Injection test 1 Bbl per minute for 1 hour on vac.

1-27-63 now taking water as produced on 27" vacuum
 will run 469 in a week

3/3/63 Not taking lease water = est 212 BWPD - barely taking any water

3/5/63 Pump test took 18 BW 20 min at 100# = 54 BWPIH
 took 19 BW " " at 200# = 57 BWPIH
 took 20 BW " " at 300# = 60 BWPIH

Acid B-J acid Co 2000 regular acid took at 800# to 1000#

Bled off after acid 950# = shut off
 750# = 2 minutes

3/6/63 Vacuum 25" || 250# = 30 minutes
 Taking full stream of || 0# = 50 minutes
 water, still 15" vacuum || vac = 60 minutes

9-11-66 150 gal acid - pump truck - deep in - on vacuum
 then 4.00. Used sw right behind for pump.

15% inhibited with sequestering agent for iron
 9-12-66 Taking 1/2 stream of water on 25" vacuum.
 Believe took water all night without pumping
 Very much improved.