

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
Top Arganite	1055 (+2210)	Top Silurian	7823 (-4558)
Top Salt	1183 (+2082)	Top Fusselman	6036 (-4771)
Base Salt	2328 (+937)	Top Montoya	8367 (-5102)
Top Yates	2500 (+765)	Top Simpson	8735 (-5470)
Top Penrose	3384 (+119)	Top McKee	9156 (-5891)
Top San Andres	3780 (+515)	Top Ellenburger	9664 (-6399)
Top Gloretha	4910 (+1645)	Base Ellenburger	10190 (-6925)
Top Tubbs	5877 (+2612)	Base Detrital	10280 (-7015)
Top Devonian	7186 (+3921)	Base Granite	10760 (-7515)
		Total Depth	13355 (-10090)

#1 - 7830--7925 (Pen 3 hours. Good blow. Died in 10 minutes. Good blow in 2 hours and 15 minutes. Recovered 1740' CGM. No gas, no free oil, no water.)

#2 - 7917--7990 (Open 3-1/2 hours. Good blow. Died in 30 minutes. Gas in 2 hours and 15 minutes. Recovered 2751' CGM. 251' free oil.)

#3 - 8942--9282 (Open 6 hours and 15 minutes. Weak blow. Died in 4 hours 20 minutes. Recovered 650' drilling mud. No blow.)

#4 - 9308--9506 (Open 1 hour. Weak blow. Died in 3 minutes. Recovered 25' drilling mud. No oil, gas, or water.)

#5 - 9672--9716 (Open 5 hours. Gas in 19 minutes. Recovered 750' free oil, 450' HOCGM, 1390' salt water.)

#6 - 9714--9759 (Open 4 hours. Gas in 34 minutes. Recovered 230' oil, 350' HOCGM. No water.)

#7 - 9759--9818 (Open 2-1/2 hours. Weak blow. Recovered 565' drilling mud, with trace of dead oil. No gas or water.)

#8 - 9818--9855 (Open 1-1/2 hour. Weak blow. Recovered 120' drilling mud. No oil, gas, or water.)

#9 - 9855--9967 (Open 3-3/4 hours. Weak blow. Recovered 360' salty mud and 90' salty mud with rainbow of oil.)

#10 - 9967--10116 (Open 1-1/2 hour. Recovered 180' salty drilling mud, 120' salt water.)

#11 - 10116--10201 (Open 1 hour and 10 minutes. Weak blow. Recovered 30' drilling mud.)

#12 - 10199--10400 (Open 1 hour. Recovered 60' drilling mud.)

#13 - 10400--10603 (Open 1-1/2 hour. Recovered 60' drilling mud.)

#14 - 10603--10812 (Open 4 hours. Weak blow. Recovered 120' slightly CGCM.)

#15 - 10813--11043 (Open 1 hour. Weak blow. Recovered 60' drilling mud.)

#16 - 11043--11276 (Open 1 hour. Weak blow. Recovered 50' drilling mud.)

#17 - 10278--10517 (Open 1 hour. Weak blow. Recovered 70' drilling mud.)

#18 - 11548--11740 (Open 1 hour. Weak blow. Recovered 60' drilling mud.)

#19 - 11738--11958 (Open 1 hour. Weak blow. Recovered 200' drilling mud.)

#20 - 12124--12331 (Open 1 hour. Weak blow. Recovered 200' drilling mud.)

#21 - With total depth of 13,355, set plug of 100 sacks, common, neat cement from 9,773 to 9,985; then set Halliburton packers at 9,665 and 9,673 and tested interval from 9,673 to 9,773, babbled well total of ten hours and recovered only drilling mud, no oil or gas, but since this section had shown some free oil on original test, section was treated with 500 gallons neat acid, swabbed out acid load and after swabbing 18 hours recovered only small quantity of water, no oil or gas.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "detached" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-47004-1

to No. 3 from

to No. 6 from

to No. 9 from

to No. 12 from

to No. 15 from

to No. 18 from

to No. 21 from

to No. 24 from

to No. 27 from

to No. 30 from

to No. 33 from

to No. 36 from

to No. 39 from

- #22 - Set cement plug of 25 sacks common, neat cement from 9,620 to 9,675 and plug of 100 sacks common, neat cement from 8,400 to 8,610, plug failed to hold, re-cemented with 100 sacks and found top of cement at 8,105. Set Halliburton packers at 8,284 and 8,291, testing interval from 8,291 to 8,405, swabbed well down and in 10 hours recovered only trace of gas and small amount of sulphur water, no oil.
- #23 - Set cement plug of 100 sacks common, neat cement from 8,165 to 8,385. Set Halliburton packers at 8,036 and 8,043 testing interval from 8,043 to 8,165, swabbed well down to bottom, then swabbed additional nine hours, recovered only small amount drilling mud each run, no show of oil, gas or water.
- #24 - Set cement plug of 100 sacks common, neat cement from 8,014 to 8,165. Set Halliburton packers at 7,805 and 7,812, testing interval from 7,812 to 8,014, swabbed well down in five hours, started recovering heavy oil and gas cut mud, swabbed to pit 15 hours with no free oil, but small amount of gas. Section treated with 500 gallons mud acid, started swabbing, well kicked off, unloaded acid load, turned to tank and flowed 17 barrels oil first hour, ten barrels second hour, then died, swabbed and flowed 37 barrels next two hours, then swabbed 60 barrels next nine hours, gravity of oil 42 & 60, with 8/10 of one percent BS&W, gas-oil ratio on first hour's flow 690. Treated well with 3,000 gallons 15% regular acid, well took acid and 120 barrels oil flush on vacuum, was never able to obtain any pressure with injection rate of 3-1/2 barrels per minute. Swabbed 18 hours, recovered 70 barrels oil load and 50 barrels acid water; next four hours swabbing recovered only one barrel oil per hour; then ran swab for three hours with no recovery at all. In view of this showing and low pressures indicated on original tests of this section, this section was abandoned.
- #25 - Set cement plug of 25 sacks common, neat cement from 7,950 to 8,000 and plug of 100 sacks common, neat cement from 7,605 to 7,810. Set Halliburton packers at 7,478 and 7,485 testing interval from 7,485 to 7,605, swabbed well down, recovered oil and gas cut mud, treated with 500 gallons mud acid, swabbed down, recovered 1/4 barrel oil per hour with small amount of gas; treated with 3,000 gallons regular 15% acid, swabbed well down, swabbed additional six hours and only recovered salt water, no oil or gas. Unable to lower fluid below 2300 feet from surface.
- #26 - Set cement plug of 175 sacks common, neat cement from 7,147 to 7,500. Set Halliburton packers at 7,084 and 7,092, testing interval from 7,092 to 7,147, swabbed well down to bottom, then swabbed six additional hours, recovering only drilling mud with no trace of oil, gas or water. Ran cement plug of 50 sacks common, neat cement from 3,407 to 3,517, then set Halliburton Cast Iron Drillable Plug inside 9-5/8" casing at 2,815. Will cover plug with ten feet Hydromite and use 9-5/8" casing for gas chamber for gas lift system on Hill Lease.