

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

The summary on this page is for the condition of the well at above date.

Commenced drilling July 11, 1959 Finished drilling August 16, 1959

No. 1, from 6280 to 6310	No. 4, from 7218 to 7244
No. 2, from 6340 to 6358	No. 5, from 7263 to 7277
No. 3, from 7197 to 7214	No. 6, from 7312 to 7318

No. 1, from None to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

[illegible]

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	190.65	200	Plug		
7	7561	140 50-50 Pozmix & 50	Reg. Plug		

Heaving plug—Material Length Depth set

Adapters—Material Size

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

Rotary tools were used from 0 feet to 7561 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DAKOTA
September 3, 1959

The production for the first 24 hours was 142 barrels of fluid of which 100% was oil; ---% emulsion; ---% water; and ---% sediment. Gravity, °Bé. 44.7 at 60

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. ----- See attached for Gallup test.

J. M. Newman, Drlg. Engr. _____, Driller
_____, Driller _____, Driller

FROM—	TO—	TOTAL FEET	FORMATION
0	2500	2500	Surface
2500	2670	170	Ojo Alamo
2670	2804	134	Kirtland
2804	3000	196	Fruitland
3000	3066	66	Pictured Cliffs
3066	3856	790	Lewis
3856	4629	773	Chacra
4629	4675	46	Cliff House
4675	5150	475	Menefee
5150	5287	137	Point Lookout
5287	6277	990	Mancos
6277	6785	508	Gallup
6785	7114	329	Sanastee
7114	7175	61	Greenhorn
7175	7357	182	Graneros
7357	7553	196	Dakota
7553	7561 TD	8	Morrison

WELL HISTORY
JICARILLA "S" 16-2

2-24N (45)

CORE RECORD

Core #1 from 7199' to 7251'. Cut and recovered 52' - 3' sh, sdy, carb; 6' sand, white to lt gray, very fine med hd, good odor, stain & sli bleeding; 23' sand, wh to lt gry, vfg; 1' sh, blk carb sdy; 2' sand, wh to lt gry, vfg; 1' sand, wr, vfg; 16' sand, vfg, shly with carb.incls. vert frac throughout core.

Core #2 from 7251 to 7303. Cut and recovered 52' - 3' sand, wh to lt gry, vfg; 1' sh, drk gry to blk; 2' sand, vfg; 1' sand wh, mg; 6' sand, good stain and odor; 4' wh sand, f&mg; 9' sand, vf & fg shly; 2' blk sh; 1' sand, wh; 20' sh, blk, carb incls; & 3' blk sh.

DRILL STEM TEST RECORD

DST #1 (Gallup) from 6284.5 to 6373'. ISI 30 mins, open 1 hr & SI 1 hr. Weak air blow 45 mins & died. ISIP 1785. IFP 65. IHP & FHP 3200. FFP 65. FSIP 2050. Recovered 115' very sli gas cut drlg mud.

DST #2 from 6384' to 6423'. ISI 30 mins, open 1 hr, SI 1 hr. Very weak blow 24 mins and died. ISIP 160. IFP, FFP & FSIP 95. IHP & FHP 3425. Recovered 90' muddy wtr and 150' sli wtr cud drlg mud.

DST #3 from 7201' to 7303'. Tool SI 30 mins, open 3 hrs & SI 1 hr. Fair blow for 1 hr, decr to weak blow for remainder of test. Recovered 2250' gas and 30' sli gas cut mud with trace of oil. ISIP 223. IF 70. IH 3560. FF 70. FSIP 293. FH 3517.

DST #4 from 7503' to 7566'. SI 30 mins, open 2 hrs & SI 1 hr. No blow for 2 hrs. ISIP 2620. IF 30. IH 3850. FF 60. FSIP 2125. FH 3820. Recovered 65' drlg mud with strong sulphur odor.

DST #5 from 7392' to 7415'. SI 30 mins, open 4 hrs, SI 1½ hrs. Fair blow of air decr to weak blow after 30 mins. ISIP 560. IHP 3755. IFP 45. FFP 95. FHP 3725. FSIP 925. Recovered 183' of drlg mud.

DST #6 from 7174' to 7320. Packer failed.

COMPLETION

7556 PBD. Perf 7" casing w/4 jets/ft 7318-12, 7277-63; w/1 jet/ft 7244-22; and w/4 jets/ft 7222-18, 7214-7197. Ran tbg and pkrs and BD 7318-12 w/3000#; 7277-63 w/2300#; 7244-22 w/2800#; 7214-7197 w/2950#. Frac w/50,000 gals crude and 70,000# 20-40 sand. BD 2800#. Avg treat before balls 2500#. Avg treat w/balls 3000#. Max & Final 3300#. Avg IR 50 BPM. 10 min stdg 1900#. Used 150 balls. Opened well to flow back load oil.

7561' TD. Set drillable BP at 6370'. Perf Gallup w/4 JPF from 6358-40 & 6310-6280. Frac Gallup w/50,000 gals oil and 50,000# sand. Avg pressure 2200 psi, maximum 2350, standing 1200 psi. IR 66 BPM at 2200 psi and 58.5 BPM at 2350. Average IR 62.8 BPM. Now flowing back load oil.

Drilled BP at 6370' and cleaned out to 7331'. Ran 7305' of 2-3/8" OD J-55 4.7# tubing with Baker Model "N" production packer at 7157.97'. Tbg hung at 7320.56' for Dakota production. Ran 6378.44' of 2-3/8" OD J-55 4.7# tubing, hung at 6394.49' for Gallup production.

GALLUP TEST

Tested Gallup 12-13-59. On 24 hour pump test, pumping 10 SPM - 44" stroke, produced 122.98 bbls of 40.2° API gravity oil. GOR 106:1.