	-	
7-13-74	70	MI Surf. hole rig. Spudded @ 12:01 PM 7-12-74. Loc: Unit J - 2540' f/South line & 2570' f/East line Sec. 30-31N-16W, San Juan Co., New Mexico. Elev: 5546' GL, ungraded Signal Drilling Co - Contrac.
14	123	WORT - Drld 12%" hole to 123 - Ran 4 Jts (121') 8-5/8" OD 24# J-55 ST&C Csg. set at 123' w/90 Sx. Cl A cement w/2% CaCl2. Cem. Circ. Job comp @ 2:30 PM 7-13-74.
7-15 -	7/22	WORT
7-23-74	123	RURT. Signal Oilfield Service, Inc Contr.
7 /24/74	925	Drilling shale, water. 1/4 @ 300' 3/4 @ 600'. RU Signal Oilfield Service. Nip'd up head & BOP. Tested 8-5/8" casing & BOP @ 800# f/ 30 min, held 0.K Started drlg soft cmt @ 76' @ 3 pm 7/23/74.
7/25/74	1269	Coring #3. Gel-Chem 8.6#, 38 vis, 8 WL. 1° @ 1245 Drld 7-7/8" hole to 1245'. Ran Loomis press containing core bbl w/6-1/8" dia bit. Core #1, 1245-55', Gallup, ball valve failed to close, rec'd 9', no des. Reran, Core #2, 1255-65', Gallup, recorded pressure inside core bbl 300#. Reamed core hole 1245-1265'. Started core #3 @ 1265'.
7/26/7և	1380	Laying dn core #5 Gel-Chem: 9.0#, 40 vis, 5.4 WL Core #3, 1265-75', Gallup, press retaining varve did not close. Rec'd 10'. Ran bit, reamed core hole, drilled to 1360'. Top Lower Gallup @ 1358. Cut core #4 f/1360-69½', valve did not close. Rec'd 9'1" gray sandstone w/few minor shale laminations, good por & odor thruout. Cut core #5, 1369½ to 79½' dropped ball & core bbl did not shift. Pulled core #5, pulled wet.
7/27/74	1427	Logging Gel-Chem: 8.6#, 57 vis, 4.0 WL. Reamed core hole to 1380'. Ran Loomis pressure retaining core bbl. Core #6, Gallup, 1380-88'. Pulled out. Valve closed. Barrel recorded 50# press. Valve leaking when packing core in dry ice. Removed core f/ bbl. Rec'd 8': 3' sand & 5' shale. Ran 7-7/8" bit, reamed core hole, drld to 1427', cend mud, pulled out. Ran Density w/ GR-cal, Dual Ind LL-8 w/ SP and Preximity logs. WLID 1427'.
7 /28/74	1427	WOC. Finished running logs. Ran bit, cond hole. LD DP. Ran 45 jts, 1416', 5-1/2"OD 114 J-55 ST&C casing w/ Baker float collar & guide shoe, set at 1427'KB, contd w/ 80 sx HO/CO lite followed w/ 90 sx Class "B" neat cement, complete returns thruout, Plug down 3:30 pm 7/27. Hung 5-1/2" casing on OCT C-21 hanger. Rig rel. 6 p.m. 7/27/74.

7/29 - 8/4/74 1427		TD - WO completion	
8/5/7և	1398	PB - Prep run pmpg equip. MI & RU Allen Construction Company. Ran casing scraper on hh jts 2-7/8" tbg. Rev circ w/ 50 EW w/ 1% ARCO Chem D-600. Ran GR-Correl & collar log, and CBL. Perf'd Gallup 1364-82' w/ 2 jets/rt. Job comp 12:30 a.m. 8/5/74. SDON. This a.m., 35#.	
8/6/74	1398	PB - WO pumping equip. Yest a.m. 35#, bled down. Ran 2-7/8" tbg, 2-1/4" tubing pump & 3/4" rods. Rel rig 4 p.m. 8/5/74.	
8/7	1398	PB - WO pmpg equip	
8/8/74	1398	PB - Conn'g electricity. MI & set pmpg unit.	
8/9/74	1398	PB - Conn'g elec @ well.	
8/10/74	1398	PB - Pumping for test. On pump 3:30 p.m. 8/9/74. 2-7/8"OD EUE tubing @ 1390', 2-1/2" tubing pump, 16 - 64" SPM.	
8/11/74	1398	PB - Pumped 22 BO & 64 BW in 16 hrs.	
2/12/74	1398	PB - Pumped 13 BO & 55 EW in 24 hrs.	
8/13/74	1398	PB - Pumped 17 BO & 52 BW in 24 hrs f/Gallup perfs 1364-82', 2-1/4" tbg pmp, 16 - 64" SPM.	
8/14/74	1398	PB - Pumped 14 BO & 50 BW in 24 hrs.	
8/15/74	1398	PB - Pumped 14 BO & 47 BW in 24 hrs.	
8/16/74	1398	PB - Pumped 14 50 & 48 5W in 24 hrs.	
8/17/74	1398	PB - Pmpg f/ test, 14 BO.& 48 BV 24 hrs.	
8/18/74	1398	PB - Pmpg f/ test, 14 BO & 42 BW 24 hrs.	
8/19/74 8/20/74	1398 1398	PB - Pmpg f/ test, 14 BO & 44 BV 24 hrs PB - Pmpg f/ test, 15 BO & 43 EV 24 hrs	
8/,21/74	1398	PB - Pumped 12 BO & 43 EW in 24 hrs.	
8/22/74	1398	PB - Pumped 14 BO & 45 BW in 24 hrs.	
8/23/74	1398	PB - Pumped 12 BO & 45 BW in 24 hrs.	
8/24/74	1398	PB - Pumped 12 BO & 44 EN in 24 hrs.	
8/25/74 8/26/74	1398 1398	PB - Pumped 11 BO & 45 EW in 24 hrs. PB - Pumped 11 BO & 43 EW in 24 hrs.	
8/27/74	1398	PB - Pumped 24 hrs, 10 BO & 43 EW. Prep to acidize	
8/28/74	1398	PB - Pumped 11 BO & h3 BW in 24 hrs (carried 1 day late). Acidized Gallup perfs 1364-82' dn annulus w/2500 gal 15% HCl w/ clay stabilizer, iron sequestrant, J-237 diverting agen, surfactant and inhibitor. Erk fml100#-	
		650# @ 1/8 BFM, MTP 750#, avg 700# @ 1/4 BFM, ISIP 550#, 5 min 525#, left SI 15 min & returned to pumping. This a.m., pmpg f/ test, no ga.	
8/29/74	1398	PB - Pmp 18 hrs after acid, 9 BO & 49 BW in 18 hrs.	
8/30/74	1398	PB = Pmp 24 hrs, 2 BO & 35 EW	
8/31/74 9/1/74 0/2/74	1398	PB - Pmp 24 hrs, 6 BO, 32 BW PB - Pmp 24 hrs, 4 BO & America 30 BW	
9/1//4 0/2/7h	1398 1398	PB - Pmp 24 hrs. 6 BP & 32 BV	

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9/3/74
              1398
                    PB - Pmp 24 hrs, 5 BO & 31 BW
 9/4/74
              1398
                    PB - Pmp 24 hrs. 6 BO & 31 BW
                    PB - Pmp 24 hrs, 6 BO & 30 EW. Prep to reperf & acidize.
 9/5/74
              1398
 9/6/74
              1398
                    PB - Prep to run tbg, pump & rods. Pmp 20 hrs, 5 BO, 30 EV (Carried day late)
                     MI & RU service unit. Pld 3/4" rods & 2-1/4" plunger. Filled hole w/D-600 water.
                     tag bottom w/ tbg, no fill, pld tubing. pump bbl. Removed pmp bbl. Ran tbg
                     below perfs. Pmp down tbg w/ 200 gal acetic acid fol w/ 3 Bw. Pld tubing.
                     Ran ha perf'g gun & re-perf'd Gallup 1364-82' w/ 4 shots/ft. Lost perf'g gun
                     out of rope socket. Ran overshot on tbg, 2 trips, no rec'y. Ran different
                     overshot. Rec'd gun. Acidized down casing w/ 1500 gal 15% HCl w/ additives,
                     overflushed w/ 30 BN + D-600. MP & avg 575# @ 2 BPM. ISIP 475#.
 9/7/74
             1398
                     PB - Pmpg f/ test, no ga. Ran tbg & rods w/ 2-1/L" pump.
 9/8/74
             1398
                     PB - Pmp 19 hrs after re-perf & acid, 5 BO &49 BW
 9/9/74
             1398
                     PB - Pumped 24 hrs, 8 BO & 41 BW.
 9/10/74
             1398
                     PB - Pumped 24 hrs, 8 BO, 36 EW
 9/11/74
             1398
                    PB - Pumped 24 hrs, 8 BO, 36 BW.
 9/12/74
             1398
                    PB - Pumped 24 hrs, 8 BO, 35 BW
 9/13/74
             1398
                     PB - Pumped 24 hrs, 8 BO, 35 BW
 9/14/74
             1398
                    PB - Pumped 24 hrs, 8 BO & 35 BW
 9/15/74
             1398
                    PB - Pumped 24 hrs, 9 BO, 35 BW
 9/16/74
             1398
                    PB - Pumped 24 hrs, 8 BO, 28 BW
 9/17/74
             1398
                    PB - Pumped 24 hrs, 9 BO, 20 BW
 9/18/74
             1398
                    PB - Pumped 24 hrs, 7 BO & 20 BW
 9/19/74
             1398
                    PB - Pumped 24 hrs, 8 BO, 23 EV
 9/20/74
             1398
                    PB - Pumped 24 hrs, 7 BO, 24 BM
9/21/74
             1398
                    PB - Pumped 24 hrs, 6 BO, 27 BW
9/22/74
            1398
                    PB - Pumped 24 hrs, 7 BO, 25 BW
9/23/74
            1398
                    |PB - Pumped 24 hrs, 7 EO, 23 BW
9/24/74
            1398
                    PB - Pumped 24 hrs, 8 BO, 28 EW
                    PB - Pumped 24 hrs, 8 BO, 22 EA
9/25/74
            1398
9/26/74
            1398
                    PB - Pumped 24 hrs, 9 BO, 33 BW
9/27/74
             1398
                    PB - Pumped 24 hrs, 8 BO, 33 BW
 9/28/74
             1398
                    PB - Pumped 24 hrs, 9 BO, 33 EV
9/29/74
            1398
                     PB - Pumped 24 hrs, 8 BO, 32 BW
9/30/74
            1398
                     PB - Pumped 24 hrs, 8 BO, 32 BW
10/1/74
            1398
                     PB - Pmp 24 hrs, 8 BO, 33 BW
10/2/74
             1398
                     PB - Pmp 24 hrs, 8 BO, 33 BW
10/3/74
             1398
                     PB - Pmp 24 hrs, 9 BO, 27 BW
10/4/74
            1398
                     PB - Pmp 24 hrs, 7 BO, 33 BW
10/5/74
             1398
                     PB - Pmp 24 hrs, 9 BO, 35 BW
10/6/74
            1398
                    PB - Pmp 24 hrs, 9 BO, 33 BW
                    PB - Pmp 24 hrs, 8 BO, 28 BW
10/7/74
            1398
 10/8/74
                    PB - Pmp 24 hrs, 4 BO, 14 BW, about 1/2 fluid, to check
            1398
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1398	PB - Pmp 24 hrs, 4 BO, 15 EV. Prep pull pump
1398	FB - Pmp 24 hrs, 10 BO, 21 Ed
1398	PB - Pmp 24 hrs, 8 BO, 25 EW
1398	
1398	PB - Pmp 24 hrs, 8 BO, 26 EW
1398	PB - Pmp 2h hrs, 8 BO, 36 EW
1398	PB - Pmp 24 hrs, 8 BO, 36 BW
1398	PB - Pmp 24 hrs, 6 BO, 37 BW (carried day late). Pulled rods & tbg.
	Prep to frac.
1398	PB - Frac'd Gallup perfs 1364-82' w/64,000# 20-40 sand, & 40,000 gal gelled
	wtr; Pmp 2000 gal pad $@$ 20 BPM. 4000 gal gelled wtr $w/1/2\#$ 20- h 0 cand/gal
,	@ 20 BPM, 6000 gal gelled wtr. w/1# 20-40 sand/gal @ 20 BPM, 28000 gal gelled
•	wtr w/2# 20-40 sand/gal @ 20 BPM, MP 1000#, min pr 900#, avg 950# @ 20 BPM.
	ISIP 650#, 15 min 600#, 4 hr 390#. Ran temp survey. Frac job comp 7:05 pm 10/16.
1398	PB - Pmpg on test, no ga. On vac yest a.m. CO 18' sand. Ran 2-7/8"OD tbg.
	3/4" rods, 2-1/h" bore tubg pump. OP 1:45 pm 10/17. 16 - 64" SFM
1398	PB - Pmpg on test. Quit pumping. Bumped down & started. Pumped 28 BO.
	147 BLW in 8 hrs853 BLW
1398	PB - Pmp 36 BO, 211 BIW in 24 hrs, -642 BIW
1398	PB - Pmp 38 BO, 136 BW in 24 hrs, -479 BLW
1398	
1398	FB - Fmp 35 BO, 126 BIW in 24 hrs -198 BIW
1398	
1398	
1398	
1398	
1398	PB - Pmp 29 BO, 112 BW in 24 hrs.
1398	PB - Pmp 29 B0, 104 BW in 24 hrs.
1398	
Ì	f/Gallup perfs 1364-82', 2-1/4" bore pump, 16-64" SPM.
	1398 1398 1398 1398 1398 1398 1398 1398