

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2100	2130	30	fractured clastic sand
		825	
		4,000	
2130	2150	20	shale
2150	2160	10	shale
2160	2191	31	shale
2191	2226	35	shale
2226	2266	40	shale
2266	2291	25	shale
2291	2315	24	shale
2315	2326	11	shale
2326	2350	24	shale
2350	2375	25	shale
2375	2400	25	shale
2400	2425	25	shale
2425	2450	25	shale
2450	2475	25	shale
2475	2500	25	shale
2500	2525	25	shale
2525	2550	25	shale
2550	2575	25	shale
2575	2600	25	shale
2600	2625	25	shale
2625	2650	25	shale
2650	2675	25	shale
2675	2700	25	shale
2700	2725	25	shale
2725	2750	25	shale
2750	2775	25	shale
2775	2800	25	shale
2800	2825	25	shale
2825	2850	25	shale
2850	2875	25	shale
2875	2900	25	shale
2900	2925	25	shale
2925	2950	25	shale
2950	2975	25	shale
2975	3000	25	shale
3000	3025	25	shale
3025	3050	25	shale
3050	3075	25	shale
3075	3100	25	shale
3100	3125	25	shale
3125	3150	25	shale
3150	3175	25	shale
3175	3200	25	shale
3200	3225	25	shale
3225	3250	25	shale
3250	3275	25	shale
3275	3300	25	shale
3300	3325	25	shale
3325	3350	25	shale
3350	3375	25	shale
3375	3400	25	shale
3400	3425	25	shale
3425	3450	25	shale
3450	3475	25	shale
3475	3500	25	shale
3500	3525	25	shale
3525	3550	25	shale
3550	3575	25	shale
3575	3600	25	shale
3600	3625	25	shale
3625	3650	25	shale
3650	3675	25	shale
3675	3700	25	shale
3700	3725	25	shale
3725	3750	25	shale
3750	3775	25	shale
3775	3800	25	shale
3800	3825	25	shale
3825	3850	25	shale
3850	3875	25	shale
3875	3900	25	shale
3900	3925	25	shale
3925	3950	25	shale
3950	3975	25	shale
3975	4000	25	shale
4000	4025	25	shale
4025	4050	25	shale
4050	4075	25	shale
4075	4100	25	shale
4100	4125	25	shale
4125	4150	25	shale
4150	4175	25	shale
4175	4200	25	shale
4200	4225	25	shale
4225	4250	25	shale
4250	4275	25	shale
4275	4300	25	shale
4300	4325	25	shale
4325	4350	25	shale
4350	4375	25	shale
4375	4400	25	shale
4400	4425	25	shale
4425	4450	25	shale
4450	4475	25	shale
4475	4500	25	shale
4500	4525	25	shale
4525	4550	25	shale
4550	4575	25	shale
4575	4600	25	shale
4600	4625	25	shale
4625	4650	25	shale
4650	4675	25	shale
4675	4700	25	shale
4700	4725	25	shale
4725	4750	25	shale
4750	4775	25	shale
4775	4800	25	shale
4800	4825	25	shale
4825	4850	25	shale
4850	4875	25	shale
4875	4900	25	shale
4900	4925	25	shale
4925	4950	25	shale
4950	4975	25	shale
4975	5000	25	shale
5000	5025	25	shale
5025	5050	25	shale
5050	5075	25	shale
5075	5100	25	shale
5100	5125	25	shale
5125	5150	25	shale
5150	5175	25	shale
5175	5200	25	shale
5200	5225	25	shale
5225	5250	25	shale
5250	5275	25	shale
5275	5300	25	shale
5300	5325	25	shale
5325	5350	25	shale
5350	5375	25	shale
5375	5400	25	shale
5400	5425	25	shale
5425	5450	25	shale
5450	5475	25	shale
5475	5500	25	shale
5500	5525	25	shale
5525	5550	25	shale
5550	5575	25	shale
5575	5600	25	shale
5600	5625	25	shale
5625	5650	25	shale
5650	5675	25	shale
5675	5700	25	shale
5700	5725	25	shale
5725	5750	25	shale
5750	5775	25	shale
5775	5800	25	shale
5800	5825	25	shale
5825	5850	25	shale
5850	5875	25	shale
5875	5900	25	shale
5900	5925	25	shale
5925	5950	25	shale
5950	5975	25	shale
5975	6000	25	shale
6000	6025	25	shale
6025	6050	25	shale
6050	6075	25	shale
6075	6100	25	shale
6100	6125	25	shale
6125	6150	25	shale
6150	6175	25	shale
6175	6200	25	shale
6200	6225	25	shale
6225	6250	25	shale
6250	6275	25	shale
6275	6300	25	shale
6300	6325	25	shale
6325	6350	25	shale
6350	6375	25	shale
6375	6400	25	shale
6400	6425	25	shale
6425	6450	25	shale
6450	6475	25	shale
6475	6500	25	shale
6500	6525	25	shale
6525	6550	25	shale
6550	6575	25	shale
6575	6600	25	shale
6600	6625	25	shale
6625	6650	25	shale
6650	6675	25	shale
6675	6700	25	shale
6700	6725	25	shale
6725	6750	25	shale
6750	6775	25	shale
6775	6800	25	shale
6800	6825	25	shale
6825	6850	25	shale
6850	6875	25	shale
6875	6900	25	shale
6900	6925	25	shale
6925	6950	25	shale
6950	6975	25	shale
6975	7000	25	shale
7000	7025	25	shale
7025	7050	25	shale
7050	7075	25	shale
7075	7100	25	shale
7100	7125	25	shale
7125	7150	25	shale
7150	7175	25	shale
7175	7200	25	shale
7200	7225	25	shale
7225	7250	25	shale
7250	7275	25	shale
7275	7300	25	shale
7300	7325	25	shale
7325	7350	25	shale
7350	7375	25	shale
7375	7400	25	shale
7400	7425	25	shale
7425	7450	25	shale
7450	7475	25	shale
7475	7500	25	shale
7500	7525	25	shale
7525	7550	25	shale
7550	7575	25	shale
7575	7600	25	shale
7600	7625	25	shale
7625	7650	25	shale
7650	7675	25	shale
7675	7700	25	shale
7700	7725	25	shale
7725	7750	25	shale
7750	7775	25	shale
7775	7800	25	shale
7800	7825	25	shale
7825	7850	25	shale
7850	7875	25	shale
7875	7900	25	shale
7900	7925	25	shale
7925	7950	25	shale
7950	7975	25	shale
7975	8000	25	shale
8000	8025	25	shale
8025	8050	25	shale
8050	8075	25	shale
8075	8100	25	shale
8100	8125	25	shale
8125	8150	25	shale
8150	8175	25	shale
8175	8200	25	shale
8200	8225	25	shale
8225	8250	25	shale
8250	8275	25	shale
8275	8300	25	shale
8300	8325	25	shale
8325	8350	25	shale
8350	8375	25	shale
8375	8400	25	shale
8400	8425	25	shale
8425	8450	25	shale
8450	8475	25	shale
8475	8500	25	shale
8500	8525	25	shale
8525	8550	25	shale
8550	8575	25	shale
8575	8600	25	shale
8600	8625	25	shale
8625	8650	25	shale
8650	8675	25	shale
8675	8700	25	shale
8700	8725	25	shale
8725	8750	25	shale
8750	8775	25	shale
8775	8800	25	shale
8800	8825	25	shale
8825	8850	25	shale
8850	8875	25	shale
8875	8900	25	shale
8900	8925	25	shale
8925	8950	25	shale
8950	8975	25	shale
8975	9000	25	shale
9000	9025	25	shale
9025	9050	25	shale
9050	9075	25	shale
9075	9100	25	shale
9100	9125	25	shale
9125	9150	25	shale
9150	9175	25	shale
9175	920		

OPEN FLOW TEST DATA

Date: 3/27/57

Operator: RAC Drilling Company

Lease: EGG #39 Warren

Location: S_{1/4} Sec 23-27N-8W

County: San Juan State: NM

Formation: Pictured Cliffs

Pool: So Blanco

Casing: 5 1/2 " Set @ 2226 ' "

Tubing: 2 " Set @ 2145 ' "

Pay Zone: _____ ' To: _____ ' "

Total Depth: 2197 ' "

Choke Size: .750 " "

Choke Constant = C = 14.1605

Stimulation Method: Frag

Flow Through: Casing X Tubing _____

Shut-In Pressure Casing: 824 psig / 12 = 836 psia (Shut-in 3 days)

Shut-In Pressure Tubing: 825 psig / 12 = 837 psia

Flowing Pressure: P : 174 psig / 12 = 186 psia

Working Pressure: P_w : 182 psig / 12 = 194 psia

Temperature: T : 62 °F / 460 = 522 ° absolute

F_{pv} (from tables) : 1.019 Gravity .640 (out) n .85

$$\text{Choke Volume} = Q = C \times F_c \times F_t \times F_g \times F_{pv}$$

$$= \frac{14.1605 \times 186 \times .9981 \times .9682 \times 1.019}{1.019} = \underline{2594} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = \left[\frac{837^2}{837^2 - 194^2} \right]^n = \frac{(700,569)^{.85}}{(662,933)^{.85}} = (1.0568)^{.85}$$

$$Aof = \underline{2725} \text{ MCF/D}$$

Tested By: Geoelectric, Inc

Witnessed By: W.C. Russell



W. J. McConathy
W. J. McConathy

OIL CONSERVATION COMMISSION

STATE OF TEXAS
COUNTY OF _____

NO. _____
DATE _____
BY _____
