

[illegible]

DEPARTMENT OF THE INTERIOR
UNITED STATES

Well drilling completed as shut in gas well under-
grounded. Drilling field and flooding
oil well batteries called field on January 19, 1959.

See Baker Model "B" production packer at 6275. 2-3/8" tubing for galling zone landed at 5520. Preliminary Dakota zone 3204 tested on December 30, 1958. Potential galling zone flowed 265 barrels oil per day thru 3/4" choke with flowing @ 5000 psi and 1000 psi. Shut in Dakota tubing pressure 1950 psi held steady thruout galling test. Indefinite packer holding satisfactorily.

Perforated Dakota with four shots per foot 6500-6700. Acidized with 500 gallons 15% mud clean out agent. Formation broke at 2200 pounds. Swabbing 21 hours, fluid level at 6200' making gas was made to surface. Perforated with four shots per foot 6250-6274, 6302-6310. Sand-water flooded with 40,000 gallons water and 40,000 pounds sand. Used 25 gallons H₂O in first 300 barrels. Formation broke at 1200 pounds. Testing pressure 1800-2100 pounds. Average injection rate 41 barrels per minute. Dropped 170 psi setlers in 4 stages. Set retrievable bridge plug at 5585', test to 2000' for 30 minutes ok. Perforated casing with 2 shots per foot 5383-5420, 5456-5492, 5505-5535. Attempted to sand-oil free. Pumped in 185 barrels when too blocked section on 2 or 3 stage tanks. Pumped in 9000' of sand, sand-oil leaked out and pressed up to 10000'. Ran 2" casing to clean out sand. Sand-oil leaked out and 46,800 gallons oil and 42,900 pounds sand. Formation broke at 2250 pounds, minimum testing pressure 1350 pounds. Average injection rate 42 barrels per minute. Infected 120 psi setlers in three stages.

1. Casing was landed at 0427, with 325 sacks 6x8 1/2 cement with 2 pounds Tuff Plug per sack, followed by 75 sacks neat cement. Tested casing with 3000 pounds pressure for thirty minutes, which held with no drop in pressure. Top cement by temperature survey 1600'. Released rotary rig.

was set at 500 feet with 330 sacks cement. After waiting on cement, casing and water shut-off were tested with 700 pounds pressure for thirty minutes, which held water no drop in pressure.

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 "sidetracked" 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 piers or bridges were put in to test for water, state kind of material used, position, and results of pumping or falling.

HISTORY OF OIL OR GAS WELL

FORMATION RECORD			
FROM -	TO -	TOTAL FEET	FORMATION
0	100	100	Gravel and sand
100	200	200	Gravel and sand
200	300	300	Gravel and sand
300	400	400	Gravel and sand
400	500	500	Gravel and sand
500	600	600	Gravel and sand
600	700	700	Gravel and sand
700	800	800	Gravel and sand
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1100	1200	1200	Gravel and sand
1200	1300	1300	Gravel and sand
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1400	1500	1500	Gravel and sand
1500	1600	1600	Gravel and sand
1600	1700	1700	Gravel and sand
1700	1800	1800	Gravel and sand
1800	1900	1900	Gravel and sand
1900	2000	2000	Gravel and sand
2000	2100	2100	Gravel and sand
2100	2200	2200	Gravel and sand
2200	2300	2300	Gravel and sand
2300	2400	2400	Gravel and sand
2400	2500	2500	Gravel and sand
2500	2600	2600	Gravel and sand
2600	2700	2700	Gravel and sand
2700	2800	2800	Gravel and sand
2800	2900	2900	Gravel and sand
2900	3000	3000	Gravel and sand
3000	3100	3100	Gravel and sand
3100	3200	3200	Gravel and sand
3200	3300	3300	Gravel and sand
3300	3400	3400	Gravel and sand
3400	3500	3500	Gravel and sand
3500	3600	3600	Gravel and sand
3600	3700	3700	Gravel and sand
3700	3800	3800	Gravel and sand
3800	3900	3900	Gravel and sand
3900	4000	4000	Gravel and sand
4000	4100	4100	Gravel and sand
4100	4200	4200	Gravel and sand
4200	4300	4300	Gravel and sand
4300	4400	4400	Gravel and sand
4400	4500	4500	Gravel and sand
4500	4600	4600	Gravel and sand
4600	4700	4700	Gravel and sand
4700	4800	4800	Gravel and sand
4800	4900	4900	Gravel and sand
4900	5000	5000	Gravel and sand
5000	5100	5100	Gravel and sand
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5900	6000	6000	Gravel and sand
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6100	6200	6200	Gravel and sand
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6500	6600	6600	Gravel and sand
6600	6700	6700	Gravel and sand
6700	6800	6800	Gravel and sand
6800	6900	6900	Gravel and sand
6900	7000	7000	Gravel and sand
7000	7100	7100	Gravel and sand
7100	7200	7200	Gravel and sand
7200	7300	7300	Gravel and sand
7300	7400	7400	Gravel and sand
7400	7500	7500	Gravel and sand
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7600	7700	7700	Gravel and sand
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8000	8100	8100	Gravel and sand
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8200	8300	8300	Gravel and sand
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8600	8700	8700	Gravel and sand
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9900	10000	10000	Gravel and sand
FORMATION			

FORMATION RECORD			
FROM -	TO -	TOTAL FEET	FORMATION
0	100	100	Gravel and sand
100	200	200	Gravel and sand
200	300	300	Gravel and sand
300	400	400	Gravel and sand
400	500	500	Gravel and sand
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4100	4200	4200	Gravel and sand
4200	4300	4300	Gravel and sand
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300	400	400	Gravel and sand
400	500	500	Gravel and sand
500	600	600	Gravel and sand
600			

FORMATION RECORD—Continued