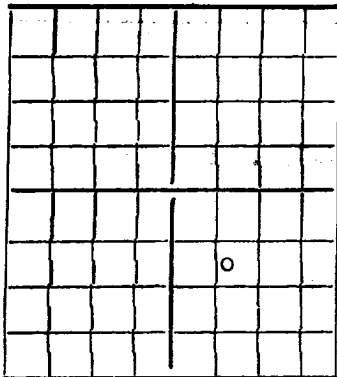


NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Southern Union Production Company

1104 Bart Building, Dallas, Texas

Company or Operator **McGrath** Address **1104 Bart Building, Dallas, Texas**
Lease **McGrath** Well No. **1** in **NE 1/4 S12** of Sec. **2**, T. **29 N.**
R. **12 E**, N. M. P. M., **Falcher Basin** Field, **San Juan** County.
Well is **400** feet **North** of the West line and **500** feet west of the East line of **NE 1/4 S12**.
If State land the oil and gas lease is No. _____ Assignment No. _____
If patented land the owner is **L.M. McGrath**, Address **Wichita Falls, Texas**
If Government land the permittee is _____, Address _____
The Lessee is _____, Address _____
Drilling commenced **January 7** 19**43** Drilling was completed **February 11** 19**43**
Name of drilling contractor **Company Tools**, Address _____
Elevation above sea level at top of casing **5902.7'** feet.
The information given is to be kept confidential until _____ 19____

OIL SANDS OR ZONES

No. 1, from **1190'** to **1290'** **Shale 0.25** No. 4, from _____ to _____
No. 2, from **2020'** to **2056 G.** No. 5, from _____ to _____
No. 3, from **2072** to **2085 G.** No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from **1190'** to **1290'** feet. _____
No. 2, from _____ to _____ feet. _____
No. 3, from _____ to _____ feet. _____
No. 4, from _____ to _____ feet. _____

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
16"	60#		O.D.	41'	Regular	None		Surface
13"	50#		O.D.	850'	"	All		Drilling
10-3/4"	40#		O.D.	884	"	All		"
8-5/8"	32#		O.D.	1528'	"	All		"
5 1/2"	14#		O.D.	2020'	"	None		Producing
1"				2085		None		Siphon Line

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
	12"	550'			AguaGel	2 sacks
	10-3/4"	884'			"	4 sacks
	8-5/8"	1528'			"	5 sacks
	5 1/2"	2020	53	Ballburton	"	12 sacks

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from **0** feet to **2136'** feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing _____, 19____.
The production of the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____
If gas well, cu. ft. per 24 hours **700 MCF** Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. **5545**

EMPLOYEES

Harold Montgomery, Driller. **G.A. Pratt**, Driller
E. P. Bailey, Driller. **Chas. J. Wilson**, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this **10th** day of **February**, 19**43**
Arlene Rawls
Notary Public.
My Commission expires **June 1, 1943**
Name **Law Thompson**
Position **Engineer**
Representing **Southern Union Production Company**
Address **1104 Bart Bldg., Dallas, Texas**
Dallas, Texas **February 16, 1943**

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	8	8	Cellar
8	38	30	Blow Sand - Yellow
38	63	25	Yellow Blow Sand(41" 16" O.D. Cag. in Hole)
63	100	37	Yellow Sand
100	120	20	Gray Sand
120	160	40	Gray Sand
160	200	40	Gray Sand(Small Amount of Water at 178')
200	218	18	Gray Sand
218	225	7	Gray Sand
225	240	15	Light Shale
240	260	20	Gray Shale and Sand
260	280	20	Gray Sand
280	290	10	Gray Sandy Shale
290	320	30	Gray Sandy Shale
320	352	32	Sandy Shale
352	370	18	Sandy Shale
370	380	10	Gray Sand
380	388	8	Gray Shale
388	396	8	Sandy Shale
396	400	4	Sand Light Hard
400	423	23	Sand
423	433	10	Sandy Shale
433	440	7	Sandy Shale
440	475	35	Gray Sand
475	506	31	Sand Gray
506	525	19	Gray Sandy Shale
525	545	20	Sand and Water
545	560	15	Sandy Shale(Run 18" Cag. 2 sacks aquagel)
560	570	10	Sandy Shale
570	580	10	Sand and Water
580	588	8	Gray Shale
588	595	7	Gray Shale
595	620	25	Gray Sand
620	637	17	Gray Sand(Hole full of water)
637	670	33	Sand
670	696	26	Sandy Shale
696	725	29	Sand
725	733	8	Sand Hard Sharp
733	770	37	Sand Rock
770	780	10	Sand(Hole full of water)
780	792	12	Sand
792	803	11	Sand
803	810	7	Shale Blue(Hole full of water)
810	819	9	Sand
819	825	6	Gray Shale
825	834	9	Gray Shale
834	843	9	Sand Light
843	853	10	Sand
853	864	11	Blue Shale
864	884	20	Blue Shale
884	900	16	Shale Light
900	910	10	Blue Shale
910	932	22	Gray Sandy Shale
932	942	10	Blue Shale
942	1000	58	Blue Shale
1000	1025	25	Sandy Shale
1025	1040	15	Blue Shale
1040	1073	33	Blue Shale
1073	1085	12	Blue Shale
1085	1107	22	Sand
1107	1120	13	Gray Shale
1120	1130	10	Gray Shale
1130	1200	70	Sand Light(Show of Gas and Oil)
1200	1214	14	Sand Light
1214	1220	6	Blue Shale
1220	1270	50	Gray Shale
1270	1290	20	Gray Shale
1290	1323	33	Pink Sandy Shale
1323	1329	6	Blue Shale
1329	1330	1	Sand Gray
1330	1343	13	Blue Shale
1343	1390	47	Blue Shale
1390	1420	30	Blue Shale
1420	1435	15	Blue Shale
1435	1465	30	Blue Shale
1465	1505	40	Blue Shale
1505	1528	23	Blue Shale(Run 1528" 2-3/4" Cag. - 5 sacks aquagel)
1528	1544	16	Blue Shale
1544	1594	50	Blue Shale
1594	1610	16	Blue Shale
1610	1633	23	Blue Shale
1633	1646	13	Blue Shale
1646	1658	12	Broken Sand
1658	1697	39	Sand
1697	1708	11	Shale
1708	1740	32	Black Shale
1740	1780	40	Gray Shale, lime shell and coal
1780	1785	5	Brown Shale
1785	1770	15	Coal - little gas
1770	1785	15	Gray Sand
1785	1817	32	Gray Sand Hard
1817	1834	17	Gray Shale Sand Streaks
1834	1837	3	Coal
1837	1858	21	Gray Shale
1858	1880	22	Gray Shale
1880	1890	10	Lime
1890	1923	33	Broken Lime
1923	1940	17	Brown Lime
1940	1958	18	Shale
1958	1970	12	Shale
1970	1990	20	Coal-little gas at 1970, 2 barrels per hr. at 1985
1990	2012	22	Brown Shale
2012	2020	8	Gas sand - some gas(saturated 33 sacks, and 12 sacks aquagel) Correction Halliburton Line.
2020	2024	4	Sand-gas at 2020' (Pulled 6-3/8" and 10-3/4" Cag. 1000
2024	2039	15	Sand-more gas, well recovery.) (Pulled 15" Cag. laying
2039	2048	9	tested 36MCF at 2040' 6" exhaust line, stringing up 5" tool.) (Run 2040" 5 1/2" O.D. 1 1/2
2048	2054	6	More gas-tested casing)
2054	2060	6	Gray Shale
2060	2062	2	Sandy Shale, well tested 734 MCF at 2061'
2062	2072	10	Sandy Shale
2072	2085	13	Sand - more gas - well tested 962 MCF at 2082'
2085	2098	13	Gray Shale
2098	2115	17	Sandy Shale Broken
2115	2121	6	Gray Shale
2121	2136	15	Shale - Final Test 100 MCF - Total Depth
			Run 2098" 1" Siphon Line with 2 jet nipples, one at 100' and one at 300 feet from bottom