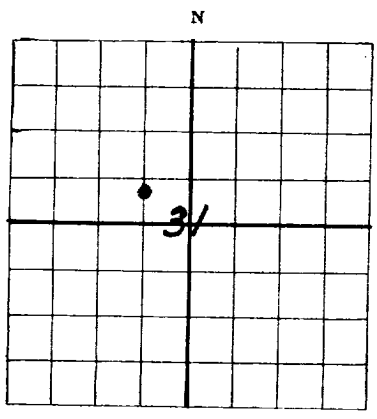
DUPLICATE

FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

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 TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

SKELLY OIL COMPANY — Company or Operator — Tulsa, Oklahoma — Address

State "O" — Lease — Well No. 5 in SE NW of Sec. 31, T. 16 R. 37, N. M. P. M., S. Lovington Field, Lea County.

Well is 2130 feet south of the North line and 660 feet west of the East line of NW/4 Sec. 31.

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is _____, Address _____

If Government land the permittee is _____, Address _____

The Lessee is _____, Address _____

Drilling commenced June 9, 19 44 Drilling was completed July 24, 19 44

Name of drilling contractor Cents Drilling Co., Address Lubbock, Texas

Elevation above sea level at top of casing 3835 DF feet.

The information given is to be kept confidential until No restrictions 19 ____.

OIL SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ 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 _____ to _____ 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	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
	8-5/8	2048	600	Halliburton		
	5½	4030	200	Halliburton		

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
		Acid	2000 gal.	7-29-44		
		Acid	4000 "	8-3-44		

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 0 feet to 4078 feet, and from _____ feet to _____ feet

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

PRODUCTION

Put to producing August 1, 1944

The production of the first 24 hours was 110 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller John Tahsuda, Driller

_____, Driller J. D. Hamilton, 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 9 day of September 19 44

Hobbs, N. M. Date Sept. 9, 1944

Name J. D. Hamilton

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	74	74	Sand & shells
74	130	56	Water Sand
130	225	95	Sand & shells
225	468	243	Redbed
468	751	283	Redbed & shells
751	1230	479	Redbed
1230	1660	430	Redbed, shale, shells
1660	1700	40	Redrock
1700	1740	40	Redbed & shale
1740	1760	20	Sand & redrock
1760	1846	86	Sand & shells
1846	1858	12	Redbed
1858	1880	22	Sand
1880	1960	80	Redbed
1960	2030	70	Redrock & redbed
2030	2045	15	Anhydrite - Top anhydrite 2030' - Samples
2045	2048	3	SLM Correction - Set 8-5/8" casing @ 2048' w/ 500 sacks cement.
2048	2170	122	Anhydrite
2170	2299	129	Salt & anhydrite2299
2299	2550	251	Salt & anhydrite
2550	2775	225	Salt, anhydrite, shells
2775	2790	15	Anhydrite - Top Cowden Anhydrite 2775'
2790	2915	125	Anhydrite & salt
2915	3000	85	Anhydrite - Base Salt 2915' - Drlg. Time.
3000	3060	60	Anhydrite & potash
3060	3075	15	Sand - Top Yates Sand 3060 - Samples
3075	3270	195	Anhydrite
3270	3299	29	Lime - Top Brown Lime 3270' Samples
3299	3300	1	Lime
3300	3475	175	Lime, anhydrite & potash
3475	3685	210	Anhydrite & Lime
3685	3844	159	Lime
3844	4000	156	Lime & anhydrite
4000	4130	130	Lime, anhydrite & sand - 5"OD Liner set 3844 to 4130 w/ perf. set 3985 to 4106'.
4130	4200	70	Lime and anhydrite
4200	4400	200	Lime & anhydrite
4400	4550	150	Lime
4550	4610		Lime & anhydrite - Set 5½" OD casing @ 4610' with 500 sacks cement.
4610	4660	50	Lime
4660	4665	5	Lime - Top San Andres 4660'.
4665	4685	20	Lime - Top pay 4685'.
4685	4978	293	Lime
	4978' TD		

Drilled to TD 4978' on July 24, 1944. Ran 2" tubing to 4975' w/ perf. set 4941-4944. Swabbed total 155 bbls. and swabbed well dry w/ gas breaking around, failed to kick off, due to small amount of gas, estimated 35,000 cu ft. Shut in 15 hrs. then swabbed total 25 bbls. pipe line oil and gas broke around. Then treated w/ 2000 Gal. acid. Maximum TP 780# which broke to 400#. CP 1250# thru test. Swabbed into pits to clear up acid water. Then in 12 hour test swabbed 60 Bbls. or at rate 5 Bbls per hour. Gas still weak. Pulled tubing and reran to 4841 w/ flow packer set 4834'. Ran Electric Pilot and treated pay section above 4841' w/ 4000 Gallons Acid. Treatment as follows: Well was loaded with oil and acid pumped down casing instead of tubing. First 10 to 15 bbls. acid went easily into formation until oil pumped thru tubing to below 4841 to control distribution of acid. By pumping oil thru tubing and maintaining oil level below point picked by electric pilot it was determined just where balance of acid went during treatment. Maximum pressure on tubing (oil) 2450# and minimum 1800#. Maximum pressure on casing (acid) 2150# and minimum 1650#. Steps taken during t is 4000 gallon treatment indicates and substantiates previous contention that lower oolitic pay section was taking all acid of first treatment rendered thru tubing in usual manner, instead of coming back up hole to upper pay shows. In addition to lower formation taking 10 to 15 bbls. of acid, it also took 100 bbls of oil to maintain seal and pressure sufficient to render acid treatment to upper pay. After treatment swabbed and flowed by heads into pits to clear up, then shut in to pressure up. Ran swab once - 8 bbls. Well kicked off flowed 3½ bbls and died. Ran swab once recovered 8 bbls. Well kicked off and in next 24 hours flowed 82 bbls thru various choke openings with flowing tubing pressures 30# to 45#. Well apparently weak on gas but believe when well has pressured up from prolonged swabbing it should flow around 100 BPD and have sufficient gas for proper flowing. Placed on schedule August 1, 1944 top allowable 46 BPD.