

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

AREA 640 ACRES
LOCATE WELL CORRECTLY

Lone Star Producing Company, et al
(Company or Operator)

State King
(Lease)

Well No. **1**, in **SE** $\frac{1}{4}$ of **SW** $\frac{1}{4}$, of Sec. **16**, T. **9-S**, R. **35-E**, NMPM.

Midland

Pool, **Lee**

County.

Well is **660** feet from **South** line and **1980** feet from **West** line of Section **16**. If State Land the Oil and Gas Lease No. is **067706**

Drilling Commenced **August 9,** 19**52** Drilling was Completed **November 7,** 19**52**

Name of Drilling Contractor **Carl B. King**

Address **Midland, Texas**

Elevation above sea level at Top of Tubing Head **4148'** The information given is to be kept confidential until _____, 19____.

OIL SANDS OR ZONES

No. 1, from **4740'** to **4825 (Gas)** 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 **180** to **200** feet. *** 21 GPM
30' in Hole**

No. 2, from _____ to _____ feet.

No. 3, from _____ to _____ feet.

No. 4, from _____ to _____ feet.

* Information obtained from water well drilled on location.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13" O.D.	50#	Used	405.41	Halliburton	None	None	Surface casing
9-5/8" O.D.	36#	3-55 New	4541.00	Hal. Guide	None	None	Intermediate
7" O.D. (liner)	23#	New	4241-5552	shoe float			
			(1511' Toolbollar)		None	4740-4815	Production Csg.

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/4"	13"	405.41	900	Pump Plug	1.056 S.G.	*
12"	9-5/8"	4541	3000	Pump Plug	1.297 S.G.	*
8 3/4"	7" O.D.	5552'	400	Displacement		

* Cement circulated to surface.

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Result of Production Stimulation

Depth Cleaned Out

F O R M OF DRILL-STEM AND SPECIAL TEST

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 10,015 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing, 19.

OIL WELL: The production during the first 24 hours was barrels of liquid of which % was
was oil; % was emulsion; % water; and % was sediment. A.P.I.
Gravity.

GAS WELL: The production during the first 24 hours was 2,450 M.C.F. plus slight tract distillate
liquid Hydrocarbon. Shut in Pressure 1409 lbs.
Length of Time Shut in 24 hours.

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy.	2305		T. Devonian		
T. Salt	2801		T. Silurian		
B. Salt	2701		T. Montoya		
T. Yates	2790		T. Simpson		
T. 7 Rivers			T. McKee		
T. Queen	3752		T. Ellenburger		
T. Grayburg	4030		T. Gr. Wash		
T. San Andres	4320	1	T. Granite		
T. Glorieta	5470		T. Baugh Lm.	9745	
T. Drinkard	6900		T.		
T. Tubbs			T.		
T. Abo	7722		T.		
T. Penn	9600		T.		
T. Miss			T.		

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	218	218	Surf. Cal. 34. & Gravel	8096	8408	312	Shale, Anhy. & Lime
218	2200	1982	Red Beds & Shells	8408	8732	324	Shale & Lime
2200	2847	647	Red Beds, Salt & Shale	8732	8745	11	Lime & Chert Streaks
2847	3460	613	Anhy., Salt & Shale	8745	9061	316	Lime
3460	3630	170	Anhy. Sand & Shale	9061	9071	10	Lime & Chert
3630	4015	385	Anhy. & Shale	9071	9113	42	Lime
4015	4077	62	Anhy. & dolomite	9113	9140	27	Lime & Chert
4077	4269	192	Dolomite, Lm & Sh. Strks	9140	9153	13	Lime
4269	4332	63	Anhy. Dolo., & Lime	9153	9219	66	Lime & Chert
4332	4458	126	Dolo. & Anhy.	9219	9235	16	Lime
4458	4875	417	Dolo. & Lime	9235	9358	123	Lime & Chert
4875	5165	288	Lime & Shale	9358	9364	6	Lime
5165	5516	353	Limestone	9364	9385	21	Lime & Chert
5516	6165	649	Lime, Shale & Salt	9385	9501	116	Lime & Shale
6165	6517	352	Lime	9501	9573	72	Lime, Shale & Chert
6517	6580	63	Lime and Salt	9573	9690	117	Lime & Shale
6580	6712	132	Lime	9690	9718	28	Lime
6712	6743	31	Lime & Sand	9718	9742	24	Lime & Shale
6743	7592	849	Lime	9742	9772	30	Lime
7592	7648	56	Shale	9772	10,015	243	Lime & Shale
7648	7680	32	Lime & Shale				
7680	7719	39	Lime				
7719	7734	15	Lime & Shale				
7734	7985	251	Shale				
7985	8096	111	Shale & Gypsum				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

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.

November 28, 1952

Company or Operator Lone Star Producing Co. Address 1915 Wood Street, Dallas, Texas
Name E. J. Sneed District Foreman

LONE STAR PRODUCING COMPANY
STATE KING NO. 1
LEA COUNTY, N.M.

Tests made through perforations after 7" O.D. liner was set and cemented.

- No. 1 Made through perforations (jet) from 5475 to 5385, 2 jet holes per foot (90 holes), 5375 up to 5290, 2 jet holes per foot (85') with Guiberson Type K V30 Hook Wall Packer set at 5193, 2-3/8" O.D. E.U.E. tubing perforations from 5470 to 5474. Both sets of perforations were washed with 500 gallons of mud acid. Acidized with 2,000 gallons, 15% SLT acid. Pressure required to pump into formation was 1800#, treated at 1500#. Results after swabbing dry and making swabbing test for 12 hours was slight show oil and gas (no water). Corrected Gravity Oil 21.6.
- No. 2 Test made from 5260 up to 5175 after Baker Model K C1 #3B Bridge Plug was set at 5280 with one sack of cement dumped on top of plug. 2 jet holes per foot (170) holes washed perforations with 500 gallons of mud acid. Set Guiberson Packer at 5073. Tubing perforations at 5255 to 5259 feet. Acidized with 2,000 gallons, 15% SLT acid. Pressure required to pump into formation 1400#. No break in pressure. At end of treatment pressure was 2250#. Results after swabbing dry and making 12 hour test was 10 gallons per hour acid water with very slight show of oil and gas. One gallon black dead oil per hour.
- No. 3 Test was made from 4910 up to 4825 after Baker Model K C1 #3B wire line bridge plug was set at 5060 with one sack of cement dumped on top of plug. Four (4) holes per foot were jet perforated from 4910 up to 4825 (340 holes). Acidized with 500 gallons of mud acid and 2,000 gallons SLT acid. Formation broke at 1700#. Treated at 1600#. Results after swabbing dry through 2-3/8" O.D. Tubing with Guiberson Hook Wall packer set at 4736 with tubing perforations from 4920 to 4924. 124 MCF of gas per day with 8 gallons of black sulphur oil per hour. Oil was live oil with gas breaking out of oil. Tested for 30 hours before re-acidizing. Re-acidized with 1,000 gallons gel acid and 4,000 gallons SLT 15% acid. Pressure required to spot Gel acid was 4,000# at 1200#. Results after cleaning and testing was 1,140 MCF of gas per day through 2" tubing with a slight spray of oil and acid water.
- No. 4 Test was made through perforations from 4813 up to 4740 (75 feet) which was jet perforated with 4 holes per foot (300 holes). Acidized with 500 gallons mud acid and 1,000 gallons High Vis. Gel acid and 6,000 gallons SLT acid. Mud acid.

Tubing perforations from 4802 to 4798. Guiberson Hook wall packer set at 4636. Results after well was cleaned up. Flowed 2,450 MCF of gas per day through 2" tubing with a 3/4" positive choke with slight show of colored distillate. Casing head shut in pressure: 1409#. Completed and shut in as Gas Well in perforated zone from 4740 down to 4815 feet.

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Drill stem tests made while drilling the above well.

- No. 1 Test made from 4737 to 4792 (55') Formation being tested was San Andres lime. Length of test 2 hours. Results: Good blow of air as soon as tool was opened, gas to surface in 28 minutes. Gas tested at end of test 196 MCF per day. Initial flowing pressure: 85#. Final flowing pressure: 45#. 30 minute bottom hole build up: 1580#. Hydrastatic pressure in hole: 2300# Out: 2270#. Choke sizes: 5/8" bottom and 1" top. Recovered 576' ~~xx~~ GCM & 186 OCM.
- No. 2 Test made from 4792 to 4822 (30') Formation being tested San Andres lime. Length of test 2 hours. Results: strong blow as soon as tool was opened. Gas to surface in 5 minutes. Volume at end of test 537 MCF/D. Recovered 285 gas cut mud, 185 Oil cut mud. Initial flowing pressure: 105#. Final: 105#. 30 minute bottom hole build up 1585#. Hydrastatic In: 2250#. Out: 2195#. Choke Sizes: Bottom 5/8" and top 1".
- No. 3 Test made from 4822 to 4872 (50') Formation being tested: San Andres Lime. Length of test: 3 hours. Results: Strong blow of air throughout test. No gas reached surface. Recovered 4700' of gas in drill pipe, 95' of oil & gas cut mud. Initial flowing Press: 25#. Final flowing Press: 60#. 30 minute bottom hole build up: 375#. Hydrastatic In: 2325#. Hydrastatic Out: 2325#. Choke Sizes: Bottom 5/8". Top 1".
- No. 4 Test made from 9718 to 9878 (160') Formation being tested was Pennsylvanian lime. (Bough section). Length of test: 1 hour. Results: Slight blow of air for 15 minutes after tool was opened and died. Recovered 1040' of water blanket run, plus 10' of drilling mud. Flowing Pressure (Initial): 410#. Final flowing pressure: 410#. 20 minute bottom hole build up: 465#. Hydrastatic In: 5100#. Hydrastatic Out: 5100#. Choke Sizes: 5/8" bottom. 1" Top.

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STATE KING NO. 1
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<u>CORE</u>	<u>FROM</u>	<u>TO</u>	<u>FOOTAGE CUT</u>	<u>FOOTAGE RECOVERED</u>
No. 1	9710	9725	15	14' 10"
No. 2	9725	9735	10	10' 0"
No. 3	9735	9750	15	14' 7"
No. 4	9750	9755	5	3' 11"
No. 5	9755	9766	11	11' 5"
No. 6	9762	9782	20	19' 5"
	(Cor. Measurement)			
No. 7	9782	9796	14	13' 8"
No. 8	9796	9844	48	48' 0"
No. 9	9844	9878	<u>34</u>	<u>34' 0"</u>
Total			172	169' 10"

[illegible]