

DRILL STEM TESTS

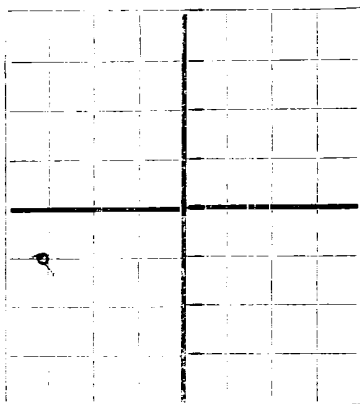
Shell-Thomas Long No. 2

DST No. 1 from 5000 to 5080 with 5/8-inch bottom hole choke and 1 1/2-inch open top. Gas to surface in 3 minutes; mud in 4 minutes. Shut in at surface 10 minutes changing connections. Then flowed through 8/64-inch surface choke for 1 1/2 hours at initial rate of 212,000 and final rate of 176,000 cubic feet gas per day. Tool open total of 127 minutes. Shut in surface pressure 1025 p.s.i. Pulled 16 stands (1440') drill pipe; unloaded gas cut and slightly oil cut mud at intervals. Last stand dry. Produced estimated 1 barrel oil. Flowing bottom hole pressure 1600 p.s.i.

DST No. 2 from 5075 to 5090 with 5/8-inch bottom hole choke and 1 1/4-inch open top. Tool open 2 hours and 5 minutes. Good air blow immediately. Gas to surface in 10 minutes. Fair gas flow throughout test but too small to measure. Recovered 60 feet (.45 bbls) gas cut and slightly oil cut drilling mud. Flowing bottom hole pressure less than 250 pounds. Thirty minute shut in bottom hole pressure less than 250 pounds.

DST No. 3 from 5096 to 5112 with 3/8-inch bottom hole choke and 1 1/4-inch open top. Tool open 60 minutes. Good air blow immediately. Gas to surface in 5 minutes. Flowed at rate of 34,000 cubic feet gas per day for 55 minutes. Recovered 270 feet (2.0 bbls) clean, light amber, 34.8° gravity oil, 90 feet (.66 bbls) highly oil and gas cut drilling mud and 60 feet (.49 bbls) drilling mud. Flowing bottom hole pressure less than 250 p.s.i. Thirty minute shut in bottom hole pressure 2100 p.s.i.

N

AREA 616 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.

Shell Oil Company, Inc. Box 1457, Hobbs, New Mexico
Company or Operator Address
Thomas Lang Well No. 2 in SW/4 of Sec. 11, T. 22 S.
Lease
R. 37 E, N. M. P. M., Paddock Field, Lea County.
Well is 3300 feet south of the North line and 4650 feet west of the East line of Section 11
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 Shell Oil Company, Inc. Address Box 2099, Houston 1, Tex.
Drilling commenced September 3, 1946 Drilling was completed October 14, 1946
Name of drilling contractor Drilling & Exploration Company Address Hobbs, New Mexico
Elevation above sea level at top of casing 3366 feet.
The information given is to be kept confidential until Not Confidential

OIL SANDS OR ZONES

No. 1, from 5048 to 5082 No. 4, from. to
No. 2, from 5087 to 5104 No. 5, from. to
No. 3, from 5140 to Not completely Penetrated 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	TO	PURPOSE
13 3/8	32.4	8	Naylor	300	Texas Pattern				Surface Pipe
8 5/8	32 & 36	8	various	2889	Float				Protection
5 1/2	15.5	8	various	5106	Float				Oil String

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17	13 3/8	314	325	Pump & Plug	Water	
11	8 5/8	2901	1000	" " "	"	
7 3/8	5 1/2	5118	600	" " "	10.0	

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
		Mud Acid	500 Ga	10-15-46	5118-5183	
		15% Acid	2000 Ga	10-16-47	5118-5183	
		20% Acid	2500 Ga	10-18-20	5151-5183	

Results of shooting or chemical treatment. After mud acid flowed 62 barrels oil in 2 hours; then flowed 36 barrels oil in 3.5 hours through 20/64-inch choke. After acidization of 4500 gallons in 4 stages flowed 32 barrels oil in 5 hours through 20/64-inch choke.

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 5183 feet, and from. feet to. feet
Cable tools were used from. feet to. feet, and from. feet to. feet

PRODUCTION

Put to producing October 21, 1946
The production of the first 5 hours was 32 barrels of fluid of which 97.5% was oil; 1.5% emulsion; 1% water; and. % sediment. Gravity, Be.
If gas well, cu. ft. per 24 hours. Gallons gasoline per 1000 cu. ft. of gas.
Rock pressure, lbs. per sq. in.

EMPLOYEES

W.R. Scarbrough Driller Geo. C. McDaniel
Frank Williams 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 29th day of October, 1946
Notary Public
My Commission expires.

Hobbs, New Mexico 10-29-46
Place Date
Name M. Lambert
Position District Superintendent
Representing Shell Oil Company, Inc.
Company or Operator
Address Box 1457, Hobbs, New Mexico

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	1100	1100	Surface Sands, Shales and Red Beds
1100	1210	110	Anhydrite
1210	2430	1220	Salt
2430	2530	100	Anhydrite, Shale and Sand. Top Yates 2510
2530	3520	990	Lime & Anhydrite with sand and shale streaks
3520	5000	1480	Lime with shale, sand and anhydrite streaks
5000	5048	48	Sand with lime and shale streaks
5048	5082	34	Lime
5082	5088	6	Shale
5088	5106	18	Lime
5106	5122	16	Shale
5122	5163	61	Lime Total depth.