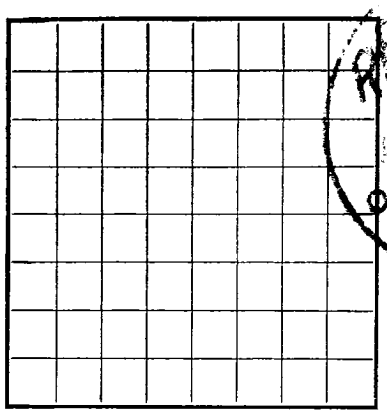
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER NM 0764
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Kingwood Oil Company Address First National Building Oklahoma City, Oklahoma

Lessor or Tract U.S.-Knauff "B" Field Wildcat State New Mexico

Well No. 1 Sec. 31 T. 28N R. 10W Meridian N.M.P.M. County San Juan

Location 875 ft. {N/S} of N Line and 1810 ft. {E/W} of W Line of Sec. 31 Elevation 5769
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [signature]

Date August 11, 1959 Title Chief Clerk

The summary on this page is for the condition of the well at above date.

Commenced drilling May 30, 19 59 Finished drilling June 15, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6214 to 6340 (G) No. 4, from to

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

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from None to No. 3, from to

No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10-3/4	32.75#	8	LoneStar	367'	Baker				Surface
5½	15.5#	8	C.F.&I.	6418'	Turbojet	float shoe	6328	6337	Production
							6312	6322	String
							6216	6260	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	367'	300	Pump & plug		
5-½	6418'	265 sx. Pozmix & 3300# of gilsonite.	Pump & plug.		
		70 sx. Pozmix @ DV tool at 1816'.	Pump & plug.		

MARK

FOLD

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Perf. 4 jets per ft., 6328-37' and 6312-22', treated with 34,902 gals. 2% gelled acid 38,366# of sand. Perf. 4 jets per ft., 6216-60', treated with 63,000 gals. of 2% gelled acid, 50,000# of sand.						

TOOLS USED

Rotary tools were used from 0 feet to 6421 feet, and from feet to feet

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

DATES

July 14, 19 59 Put to producing Shut in. Waiting on connection., 19

* The production for the first 24 hours was 73 barrels of fluid of which 42 % was oil; % condensate emulsion; 58 % water; and % sediment. Gravity, °Bé. 56.6°

If gas well, cu. ft. per 24 hours 3,700 MCF Gallons gasoline per 1,000 cu. ft. of gas .35

Rock pressure, lbs. per sq. in. 1850# S.I. surface press. *Well test. Well is not connected to sales line as of this date.

EMPLOYEES

Drilled by Contractor, Driller , Driller

Don Johnston Drlg. Co., Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1810		Sand & shale
1810	2161	1810	Sand & coal
2161	2298	351	Sand
2298	2365	137	Shale
2365	3660	67	Sand & shale
3660	3752	1295	Shale
3752	4115	92	Sand & Shale
4115	4300	363	Shale
4300	6220	185	Sand & shale
6220	6366	192	Sand
6366	6421	146	Shale & sand
		55	Sch. tops: Pictured Cliffs, 1691'
			Chacra, 1628'
			Cliff House, 3232'
			Point Lookout, 4030'
			Gallup, 5253'
			Greenhorn, 6050'
			Dakota, 6134'
			Main Bence of Dakota, 6214'

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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 plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 6:30 p.m. 5-30-59. Drilled surface hole to 370'. Set 11 jts., 351' of 10-3/4" surface csgg. 367' from D.B. Cemented with 300 sacks. Cement circulated to surface. P.D. 7:15 a.m. 5-31-59. W.O.C. 27 hrs. Drilled plug and drilled 8-3/4" hole, 370-6420', driller's T.D. Schlumberger T.D., 6423'. (See Schlumberger tops under Formation Record.) Set 86 jts. of 5½" 15.5# and 117 jts. of 5½" 14# csg. 6418' from D.B. D.V. tool at 1816'. Cemented 1st stage with 265 sx. of Posmix and 3300# of gilsonite. P.D. 7:00 a.m.,6-17-59. Cemented 2nd stage with 70 sx. of Posmix, P.D. 9:00 a.m., 6-17-59. W.O.C. 57 hrs. Ran tbg., drilled D.V. tool and float. Found no cement below float. Pressured csg. to 1,050#, bled back to 400#. Pulled tbg., ran Gamma Ray and cement log. No cement from 6100' to T.D., 6420'. Perf. 4 holes, 6343-44'. Squeezed with 150 sacks; max. press., 5700#. Drilled squeeze tool and drilled cement to shoe. Pressured csg. to 2000# for 30 min. Press. held. Perf. 4 jets per ft., 6328-37'. Ran tbg., set packer at 6318'. Swabbed tbg. dry, slight show of gas at surface. Raised packer to 6254'. Perf. 4 jets per foot, 6312-22', swabbed hole dry, show of gas at surface, too small to measure. Treated with 15,750 gals. of 2% gelled acid, 21,440# of sand. Sanded out at 2# sand per gal. Reverse-circulated and cleaned out to T.D. Treated with 19,152 gals. of 2% gelled acid, 16,926# of sand. Flowed acid water to pit, no gauge. Moved out rotary rig and rigged up cable tools. Killed well and pulled tbg. Set bridge plug at 6280' with 10' of cement on top of plug. Perf. 4 jet shots, 6216-17' to test cement. Tested dry. Perf. 4 jets per ft., 6217-60', well kicked off. Tested 243 MCF gas per day, spray of condensate. 2-hr.S.I.P., 1250#. Treated with 63,000 gals. of 2% gelled acid and 50,000# of sand. Max. press., 4100#. Sanded out at 2# sand per gal. Reversed out sand and pulled tbg. Cleaned out sand to top of cement plug. Drilled plug and cleaned out to 6393'. Ran tbg. to 6105' and swabbed well in. Completed 7-14-59. Initial Production: F/3,700 MCF gas, 31 bbls. of 46.6° gravity condensate, 24 hrs., 3/4" choke; T.P., 125#; C.P., 500#. Initial Production is subject to correction after well is connected to gas line and cleaned up.