DUPLICATE

FORM C-105

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

RECEIVED
OCT 1 - 1951
OIL CONSERVATION COMMISSION
HOBBS-OFFICE

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.

AREA 640 ACRES
LOCATE WELL CORRECTLY

Humble Oil & Refining Company — Box 1546, Hobbs, N. M.
Company or Operator — Lease

New Mexico State "V" Well No. 5 in SW/4 of SW/4 of Sec. 10, T. 21S

R. 37E, N. M. P. M., Undesignated Field, Lea County.

Well is 660 feet ~~south~~ NORTH of the ~~North~~ SOUTH line and 4470 feet west of the East line of Section 10

If State land the oil and gas lease is No. - Assignement No.

If patented land the owner is - , Address

If Government land the permittee is - , Address

The Lessee is Humble Oil & Refining Co., Address Box 2180, Houston 1, Texas

Drilling commenced 5-26-51 19__ Drilling was completed 8-26-51 19__

Name of drilling contractor McQueen & Clevenger, Address 1020 First National Bank Bldg. Ft. Worth, Texas

Elevation above sea level at top of casing 3492.20 feet.

The information given is to be kept confidential until - 19__

OIL SANDS OR ZONES

No. 1, from 7709 to 7775 No. 4, from ____ to ____

No. 2, from 8102 to 8150 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 7132 to 7340 feet.

No. 2, from 7724 to 8023 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
12-3/4"	39	8T	Mill Reject	311.30	Larkin				
8-5/8"	28.75	8R	?	3084.80	Halliburton				
5-1/2"	14,15,5&17	8R	?	8390.55	Halliburton		8230	8255	
							[illegible]	[illegible]	
							[illegible]	[illegible]	
							8270	8295	
2"	4.7	8R	Nat'l.	8349.37					

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
[illegible]	12-3/4"	320.43	400	Halliburton	-	
11	8-5/8"	3200.00	1000	"	11	
6-3/4	5-1/2"	8403.35	450	"	9	

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
5-1/2"		Lane Wells Jet	100	8-10-51	8230-8255	
		Western 15% LT Acid	1000	8-12-51	8230-8255	
		Lane Wells Jet	100	8-12-51	8270-8295	

(See Attachment)

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.

Hole deviation - Max. 2-3/4° at 8252' by Totco.

TOOLS USED

Rotary tools were used from 0 feet to 8396 feet, and from ____ feet to ____ feet.

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

PRODUCTION

Put to producing 8-26-51, 19__

The production of the first 24 hours was 256.46 barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment. Gravity, Be 39.8

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

R. G. Campbell, Earl Gaston, Driller — Damon Shelton, Driller

A. T. Coleman, C. C. Hooten, Driller — Joe Henry, J. R. Campbell, 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 27th day of September, 19 51

Irula M. Bates
Notary Public

My Commission expires 6-1-53

Midland, Texas — September 27, 1951
Place — Date

Name [signature]

Position Asst. Division Superintendent

Representing Humble Oil & Refining Company
Company or Operator.

Address Box 1600, Midland, Texas

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	165	165	Caliche, shells and red bed
165	340	175	Red beds and shells
340	1045	705	Red beds
1045	1300	255	Red beds, anhydrite, and gyp
1300	1331	31	Shale, gyp and anhydrite
1331	1410	79	Anhydrite and gyp
1410	1590	180	Salt and anhydrite stringers
1590	1900	310	Shale, salt & anhydrite
1900	2460	560	Salt and anhydrite
2460	2580	120	Anhydrite
2580	2625	45	Anhydrite & gyp
2625	2996	371	Gyp & anhydrite
2996	3259	263	Anhy.
3259	4446	1187	Lime and anhydrite
4446	4505	59	Lime and sand
4505	7280	2775	Lime
7280	7355	75	Lime and chert
7355	7365	10	Lime
7365	7370	5	Lime and sand
7370	7426	56	Lime
7426	7447	21	Lime and green shale
7447	7806	359	Lime and shale
7806	8004	198	Shale
8004	8129	125	Sand and shale
8129	8209	80	Lime and shale
8209	8265	56	Lime, shale and chert
8265	8306	41	Lime and shale
8306	8327	21	Shale, sand, and granite wash
8327	8349	22	Granite Wash
8349	8396 TD	47	Shale, sand & granite wash

Sheet #2 Humble Oil & Refining Co., Box 2180, Houston 1, Texas

Field Undesignated Lease M. M. State V Well No. 5 (Cont'

DRILL STEM TESTS

Date	Type of Test Oil or Perf. Csg.	Formation Tested From	To	Size Choke Top	Bottom	Tool Open Minutes	Formation Pressure Flowing	Shut In	Recovery-Feet Oil	Water	Mud	Other	Was Test Satis.
7-5-51	Open Hole	7431	7340	1"	5/8"	67	2860	2910		3550*	1200	1500**	Yes
7-19-51	"	7909	7775	1"	5/8"	135	1600	2700	Flwd.	26 BOPH			"
7-24-51	"	7914	8023	1"	5/8"	90	1105	1920		2400***300***			"
27-51	"	8101	8150	1"	5/8"	86	1280	2810	Flwd.	30 BOPH			"
29-51	"	8175	8200	1"	5/8"	36	0	0		2'			"
7-30-51	"	8243	8201	1"	5/8"	30	0	0		5'			"
7-31-51	"	8265	8243	1"	5/8"	30	0	0		5'			"
8-1-51	"	8290	8265	1"	5/8"	35	0	0		5'			"
8-2-51	"	8327	8290	1"	5/8"	30	0	0		31'			"
8-4-51	"	8326	8399	1"	5/8"	31	0	0		36'			"

* Muddy Sulphur Water, ** Slightly gas cut watery drilling mud, ***Oil and gas cut.

PERFORATION, ACID TREATMENT, AND NITROGLYCERINE SHOT RECORD

Date	Depth From	To	Shots Gallons	Pressure Min.	Max.	Service Company	Type Perf. Jet or Bullet	Remarks
8-6-51	4448	4448	2			Halliburton	Bullet	2 Shots for 2nd Stage Cementing
8-10-51	8230	8255	100			Lane Wells	Jet	4 Shots per foot
8-12-51	8230	8255	1000	2300	3100	Western		15% LT acid
12-51	8270	8295	100			Lane Wells	Jet	4 Shots per foot
8-14-51	(8230	8255)	2000	2325	3200	Western		15% LT acid
	(8270	8295)						
8-16-51	8315	8335	80			Lane Wells	Jet	4 Shots per foot
8-17-51	(8230	8255)	1000	2250	3150	Western		15% LT acid
	(8270	8295)						
	(8317	8335)						
8-17-51	8345	8365	80			Lane Wells	Kone	4 Shots per ft.
8-18-51	(8230	8255)	5000	2500	3800	Western		15% LT acid
	(8270	8295),	(8315 - 8335),		(8345 - 8365),			
8-20-51	8170	8195	100			Lane Wells	Jet	4 Shots per ft.
8-21-51	(8170	8195)	10,000	3600	3600	Western		15% LT acid
	(8230	8255),	(8270 - 8295),		(8315 - 8335),	(8345 - 8365)		

Sheet No. Humble Oil & Refining Co., P.O. Box 2180, Houston 1, Texas

Field Undesignated Lease A. A. Shack Well No. 2 (Cont)

DRILL STEM TESTS

Date	Type of Test OH or Perf. Csg.	Formation Tested From	To	Size Choke Top	Bottom	Tool Open Minutes	Formation Pressure Flowing	Shut In PSI	Recovery-Feet Water	Mud	Other	Gas Test Details
7-5-51	Open Hole	7431	7340	1"	5/8"	67	2800	3710		3950*	1400 1500**	Yes
7-19-51	"	7709	7775	1"	5/8"	135	1600	3700			Flwd. 26 BOPH	"
7-24-51	"	7714	8023	1"	5/8"	90	2105	2920			Gas***	"
7-27-51	"	8101	8150	1"	5/8"	86	1230	2810			Flwd. 30 BOPH	"
7-29-51	"	8175	8200	1"	5/8"	36	0	0		2'		"
7-30-51	"	8243	8261	1"	5/8"	30	0	0		5'		"
7-31-51	"	8265	8283	1"	5/8"	30	0	0		5'		"
8-1-51	"	8290	8255	1"	5/8"	35	0	0		5'		"
8-4-51	"	8277	8290	1"	5/8"	30	0	0		35'		"
8-4-51	"	8326	8399	1"	5/8"	31	0	0		36'		"

* Muddy water, ** Slightly gas cut watery drilling mud, ***Oil and gas cut.

PERFORATION, ACID TREATMENT, AND NITROGLYCERINE SHOT RECORD

Date	Depth From	To	Shots Gallons	Pressure Min.	Max.	Service Company	Type Perf. Jet or Bullet	Remarks
8-5-51	8448	8448	2			Halliburton	Bullet	2 shots for 2nd Stage Cementing
8-10-51	8230	8255	100			Lane Wells	Jet	4 shots per foot
8-12-51	8230	8255	1000	2300	3100	Western		15% LT acid
8-13-51	8270	8295	100			Lane Wells	Jet	4 shots per foot
8-14-51	(8230 (8270	8255) 8295)	2000	2325	3200	Western		15% LT acid
8-16-51	8315	8335	80			Lane Wells	Jet	4 shots per foot
8-17-51	(8230 (8270 (8317	8255) 8295) 8335)	1000	2250	2150	Western		15% LT acid
8-17-51	8345	8365	90			Lane Wells	None	4 shots per ft.
8-18-51	(8230 (8270	8255) 8295), (8315 - 8335), (8345 - 8365),	2000	2500	3800	Western		15% LT acid
8-20-51	8170	8195	100			Lane Wells	Jet	4 shots per ft.
8-21-51	(8170 (8230	8195) 8255), (8270 - 8295), (8315 - 8335), (8345 - 8365)	20,000	3600	3600	Western		15% LT acid