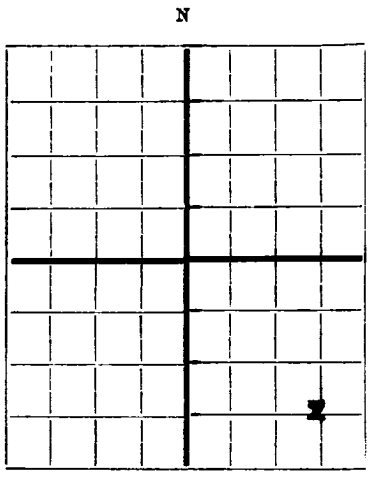
FORM C-105



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.

Tide Water Associated Oil Company — Drawer KK, Hobbs, New Mexico
Company or Operator — Address

Percy Hardy Well No. 1 in SE/4 of Sec. 17, T. 21-S
Lease

R. 37-E, N. M. P. M., Drinkard Field, Lea County.

Well is 660' feet south of the North line and 660' feet west of the East line of SE/4 of SE/4

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

If patented land the owner is Percy Hardy, Address Eunice, New Mexico

If Government land the permittee is ....., Address .....

The Lessee is Tide Water Associated Oil Co., Address As above

Drilling commenced April 24th, 1947 19.... Drilling was completed June 30th, 19 47

Name of drilling contractor Makin Drilling Company, Address Hobbs, New Mexico

Elevation above sea level at top of casing 3,467' feet. (Derrick Floor 3,477')

The information given is to be kept confidential until Not confidential 19.....

OIL SANDS OR ZONES

No. 1, from 5,221 to 5,246' No. 4, from ..... to .....

No. 2, from 6,549' to 6,620' 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 None shown on log. 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
13-3/8"OD	36#	P.E.	Armco	280'	Armco	-	-	-	-
8-5/8"OD	32#	8-R	Pitts.	2844'	Baker	-	-	-	-
5-1/2"OD	15.5#	8-R	"	6688'	Larkin		6539	6541	Production
							6554	6580	"
							6592	6620	"
							6620	6637½	"

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/4"	13-3/8	297'	300	Halliburton		
11"	8-5/8"	2814'	1200	"		
7-7/8"	5-1/2"	6641'	500	"		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth Set .....

Adapters—Material ..... Size .....

RECORD OF [redacted] CHEMICAL TREATMENT

[redacted] By	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
Chemical Process Co.	15% Acid	1,000 Gals	6-15-47	6637-6592'	
"	" "	1,000 "	6-18-47	6,585-6,539'	
"	" "	1,000 "	6-23-47	6,657-6,648'	

Results of shooting or chemical treatment Well estimated at approx. 1/2 bbl. per hour before acid. After acidizing well flowed on test, 5 bbls oil per hour.

RECORD OF DRILL-STEM AND SPECIAL TESTS - See reverse side.

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 6,657' T.D.* feet, and from ..... feet to ..... feet

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

PRODUCTION

*Drilled to 6,657' P.B. to 6,640' with 30 gallons Dowell Plastic.

Put to producing July 16th, 19 47

The production of the first 24 hours was 120 barrels of fluid of which 99.5 % was oil; 2/10 % emulsion; 0 % water; and 3/10 % sediment. Gravity, Be 41 @ 60

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

Rock pressure, lbs. per sq. in. No test (Gas volume 1,082,270 cu.ft. daily.)

EMPLOYEES

Jack Henderson, Driller John W. Adams, Driller

Huey Ingram, Driller ....., 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 24th day of July, 19 47

Notary Public

My Commission expires Oct. 24, 1949

Hobbs, New Mexico (Place) July 24th, 1947 (Date)

Name [signature]

Position Foreman

Representing Tide Water Associated Oil Company (Company or Operator)

Address Drawer KK, Hobbs, New Mexico

Orig. & 2-cc to Oil Cons. Comm., Artesia, N.M.
cc- Tulsa, Houston, Midland, File

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	85	85	Sand & Caliche
85	118	33	Sand
118	759	641	Red Bed
759	1080	321	Red Bed & Shale
1080	1220	140	Red Bed
1220	1325	105	Red Bed & Anhydrite
1325	2458	1133	Anhydrite & Salt
2458	2795	337	Anhydrite
2795	2973	178	Lime
2973	3035	62	Lime, Anhydrite
3035	3255	220	Lime
3255	3316	61	Lime, Anhydrite
3316	6126	2810	Lime
6126	6163	37	Lime & Shale
6163	6229	66	Lime
6229	6263	34	Lime & Shale
6263	6531	268	Lime
6531	6566	35	Lime & Shale
6566	6657	91	Lime
			Drilled to 6,657' T.D. and plugged back to 6,640' w/ 30 gallons Dowell Plastic.

FORMATION MARKERS

Top Anhydrite	-	1,220'
Top Salt	-	1,340'
Base Salt	-	2,458'
Top Yates	-	2,610'
Top Brown Lime	-	2,750'
Top Glorietta	-	5,110'
Top Tubbs Sand	-	6,140'
Top Pay	-	6,549'

DEVIATION SURVEYS

300'	TOTCO	Off	3/4 Degrees
582'	"	"	0 "
1060'	"	"	0 "
1270'	"	"	0 "
1674'	"	"	0 "
2029'	"	"	0 "
2422'	"	"	0 "
2700'	"	"	3/4 "
2777'	"	"	1 "
2984'	"	"	0 "
3500'	"	"	0 "
3814'	"	"	0 "
4100'	"	"	1/4 "
4800'	"	"	1-3/4 "
5089'	"	"	1-1/2 "
6150'	"	"	3/4 "

DRILL STEM TESTS

#1 - 5221-5246', Packer set @ 5221', chokes 5/8" top and bottom, Halliburton Tool, open 2 hours, recovered 30' of oil and gas cut mud, 180' of sulphur water.

#2 - 5353-5368', Packer set @ 5353', chokes 1" top, 5/8" bottom, Halliburton Tool, open 3 hours, strong blow, 600' sulphur water, salty, no show.

#3 - 6615-6620', Packer set at 6,582', choke 1" top, 5/8" bottom, Halliburton Tool, open 2 hrs. 45 min., gas to surface in 2 minutes, mud in 15 minutes, distillate in 90 minutes, gas volume 1,386,000 cu. ft. per day.

#4 - 6615-6620', Packer set @ 6594', choke 1" top, 5/8" bottom, Halliburton Tool, open 2 hours, 15 minutes, 280' gas cut drilling mud, 210' gas cut water, 1-gallon distillate, 160,000 cu. ft. gas per day.

#5 - 6611-6637, Packer set @ 6611', chokes 5/8" top and bottom, Halliburton Tool, open 3 hours, gas in 4 minutes, steady blow throughout, rec. 289' oil and gas cut water.

#6 - 6582-6637, Packer set @ 6578', chokes 1" top 5/8" bottom, Halliburton Tool, opened at 3:05 PM, gas at 3:09, oil at 4:54 PM. Well made 29.70 bbls of oil in 15 hours with 351,715 cu. ft. of gas.

#7 - 6513-6535, Packer set @ 6513', choke 1/2" Johnston Tool, open 1 hour, rec. 217' of drilling mud.

#8 - 6539-6585', Packer set @ 6516', choke 1/2", Johnston Tool, opened tool, had gas in 20 minutes, mud 5 hrs 15 minutes, oil 5 hrs 30 minutes.