

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 QUINTUPPLICATE. If State Land submit 5 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Yates Petroleum Corporation
(Company or Operator)

Marathon State "AM"
(Lease)

Well No. 1, in SE ¼ of SE ¼, of Sec. 16, T. 18S, R. 26E, NMPM.

Atoka - Penn (under)

Pool, Edy County.

Well is **990** feet from **South** line and **990** feet from **East** line

of Section **16** If State Land the Oil and Gas Lease No. is **E 8166**

Drilling Commenced May 2, 1964 Drilling was Completed June 26, 1964

Name of Drilling Contractor..... **B. L. McFarland, Inc.**

Name of Dining Establishment.....
Address **3612 West Wall Street, Midland, Texas**.....

Elevation above sea level at Top of Tubing Head.....**3358**..... The information given is to be kept confidential until
..... 19.....

OIL SANDS OR ZONES

No. 1, from **8919** to **8928 (Gas)** No. 4, from.....to.....

No. 2, from **8976** to **8984 (Gas)** 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 **5520** to **5600 (Water on DST)** feet.

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.

No. 4, from.....to.....feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8 5/8	24#	New	1252				
4 1/2	11.60#	New	8950	Newco			
2" tub.	4.70#	New	8840				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11"	8 5/8	1266	300			
7 7/8"	4 1/2	8962	1100			

RECORD OF PRODUCTION AND STIMULATION

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

Open hole completion of gas sand 8976' - 8984'

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Result of Production Stimulation.....**Natural Completion**

...Depth Cleaned Out.

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 8300 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing Waiting on connection, 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 3,000 M.C.F. plus 11 barrels of
liquid Hydrocarbon Shut in Pressure 3436 lbs.
Length of Time Shut in 24 hrs.

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

Southeastern New Mexico

Northwestern New Mexico

T. Anhy.		T. Devonian.		T. Ojo Alamo.	
T. Salt.		T. Silurian.		T. Kirtland-Fruitland.	
B. Salt.		T. Montoya.		T. Farmington.	
T. Yates.		T. Simpson.		T. Pictured Cliffs.	
T. 7 Rivers.		T. McKee.		T. Menefee.	
T. Queen.		T. Ellenburger.		T. Point Lookout.	
T. Grayburg.		T. Gr. Wash.		T. Mancos.	
T. San Andres.	785	T. Granite.		T. Dakota.	
T. Glorieta.	2361	T.		T. Morrison.	
T. Drinkard.	2377	T.		T. Penn.	
T. Tubbs.	4362	T.		T.	
T. Abo.	7153	T.		T.	
T. Penn.	8078	T.		T.	
T. Miss.		T.		T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	750	750	Limestone gravel	7710	8050	340	Limestone w/some shale AB
750	2361	1511	Dolomite	8050	8210	160	Shale AB w/limestone
2361	3400	139	Dolomite & sandstone	8210	8300	90	Limestone
3400	3800	1400	Dolomite	8300	8450	150	Shale AB w/ minor lime-
3800	4000	200	Dolomite w/some sand-				stone and red shale
			stone decreasing in	8450	8830	370	Limestone w/some shale
			amount with depth.				& chert.
4000	4362	362	Dolomite	8830	9078	248	Sand & shale w/minor
4362	4820	458	Dolomite w/green shale	9078	9300	222	limestone
			decreasing in amount				Limestone & shale.
			with depth.				
4820	5710	890	Dolomite				
5710	6330	640	Limestone w/minor inter-				
			bedded shale (sh. w/)				
6330	6850	500	Limestone & interbed-				
			ded shale AB.				
6850	7100	250	Sandstone				
7100	7320	220	Shale AB & limestone				
7320	7540	220	Shale AB with some				
			sandstone				
7550	7710	160	Shale AB				

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.

July 29, 1964

Company or Operator Yates Petroleum Corporation Address 100 Carter Bldg., Artesia, New Mex.
Name Richard C. Norman Title Geologist
Richard C. Norman

DST DATA

YATES PETROLEUM CORPORATION
Marathon State "AM" No. 1
Sec. 16- T. 18S.- R. 26E.
Eddy Co., New Mexico

DST #1 from 5520' - 5560' (Basal Abo)

First Flow (10 min.) Opened with weak blow and remained same.
Second Flow (120 min.) Opened with very weak blow and remained same.

Pipe Recovery - 720' sulfur water, black water on top grading to clear at bottom (700 ppm Chloride).

Pressures

IFP 58	FFP 349
ISIP 2345/30 min.	FSIP 2286/90 min.
IHP 2420	FHP 2420

BHT = 108°F.

DST #2 from 5820'-5922' (Upper Wolfcamp)

First Flow (20 min.) Opened with weak blow increasing to strong in one minute and remained same.

Second Flow (120 min.) Opened with weak blow increasing to strong in 25 min. Opened to pit on 1 in. choke decreasing to fair blow for remainder of test.

Pipe Recovery 75 ft. oil (39.6° gr. @ 60°F),
20 ft. fresh water

Pressures

IFP 87	FFP 87
ISIP 87/60 min.	FSIP 87/90 min.
IHP 2112	FHP 2112

BHT = 115°F.

Reason for Test - Noticed yellowish oil coming out of flow line at a drilling depth of 5220'. Also had a wet gas kick of 140/50 units just before the oil was noticed.

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DST #3 from 6005' - 6020' (Upper Wolfcamp Ls.)

First Flow (20 min.) Tool opened w/weak blow for one minute increasing to strong in 19 minutes.

Second Flow (120 min.) Opened with strong blow gas to surface in 4 minutes TSTM. Burned with five foot flare.

Pipe Recovery 30' free oil 39.7° Gr. @ 60°F., 85' of oil and gas cut mud.

Pressures

IFP 29	FFP 29
ISIP 2460/60 min.	FSIP 2435/120 min.
IHP 2629	FHP 2629

DST #4 from 6235' - 6432' (Mis-run - packer failure)

IHP 2769 - FHP 2769. BHT 115° - Rec. 465' of mud.

DST #5 from 8790' - 8850' (Morrow "A" sand zone)

First Flow (20 min.) Opened with weak blow increasing to strong in 20 min.

Second Flow (45 min.) Opened with weak blow increasing to good in 3 min. Turned to pit on 1/2 inch choke, continued with fair blow throughout test.

Recovery 6700 ft. drilling mud. 2000 ppm chloride compared to 2100 chloride in drilling mud. 270 ft. mud above the tool was slightly gas cut, high pressure gas found trapped in the tool.

Pressures

IFP 1544	FFP 2480
ISIP 2290/60 min.	FSIP 3053/45 min.
IHP 4453	FHP 4473

Remarks Annular fluid level was continuously dropping during test and mud was pumped in to keep level up. A hole between two drill collars was responsible for the large drilling mud recovery.

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DST #6 from 8795' - 8850' (Morrow "A" sand zone)

First Flow (20 min.) Opened with weak blow increasing to good in 5 min.

Second Flow (2 hrs.) Opened with good blow immediately, turned to pit on 1/2 inch choke, decreasing to weak blow throughout the test.

Recovery 35 ft. slightly gas cut mud. 2000 ppm chloride.

Pressures

IFP 0	FFP 0
ISIP 212/60 min.	FSIP 551/90 min.
IHP 4452	FHP 4431

BHT = 95°F

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DST #7 from 8918' - 8945' (Morrow "B" Zone)

First Flow (20 min.) Opened with good blow increased to strong in 1 min.

Second Flow (6 hours) Opened with strong blow immediately, turned to pits on 1 in. choke. Gas to surface in 8 min. to small to measure. After one hour of the flow period the surface choke was closed and reopened several times. Details of the flow period are listed as follows:

5:05 P.M. Tool opened.

6:05 Closed surface choke. Surface press. at end equal 50 psig.

7:28 Closed surface choke, surface pressure at end of shut in at 70 psig.

9:00 Tool opened on 1" choke decreased to 4 psig in 12 min.

9:12 Closed surface choke maximum press. buildup equal 50 psig.

10:05 Opened on 1/8 in. surface choke. Press = 46 psig (19 MCF)

10:15 Opened on 1/8 in. surface choke. Press = 40 psig (17 MCF)

10:25 Opened on 1/8 in. surface choke. Press = 35 psig (15 MCF)

10:45 Opened on 1/8 in. surface choke. Press = 25 psig (11 MCF)

11:00 Opened on 1/8 in. surface choke. Press = 14 psig (9 MCF)

11:05 Tool shut in for final shut in pressure.

Pipe Recovery 30 ft. gas cut mud.

Pressures

IFP 0	FFP 0
ISIP 3159/60 min. (sli building)	
FSIP 3138/120 min. (sli building)	
IHP 4473	FHP 4494

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DST #8 from 8961' - 9112' (Morrow "C" Zone - upper most part
of Chester Limestone)

First Flow (10 min.) Tool opened w/strong blow immediately,
turned to pits on 1 in. choke, GTS in 3 min.

Flow rates as follows:

6 min.	50 psig	-	1600 MCF
7 min.	60 psig	-	1900 MCF
8 min.	70 psig	-	2100 MCF
9 min.	90 psig	-	2700 MCF
10 min.	100 psig	-	2900 MCF

Second Flow (45 min.) Tool opened w/strong blow immediately.

Flow rates as follows on 1 in. choke:

2 min.	30 psig	-	1150 MCF
5 min.	80 psig	-	2250 MCF
10 min.	110 psig	-	3100 MCF
15 min.	150 psig	-	4100 MCF
20 min.	180 psig	-	5000 MCF
25 min.	190 psig	-	5250 MCF
30 min.	225 psig	-	6250 MCF (stabilized)
35 min.	225 psig	-	6250 MCF
40 min.	225 psig	-	6250 MCF

Pipe Recovery 30' oil (41⁰ gr. corrected)
420' heavy gas and slightly oil cut mud.

Pressures

IFP 1026	FFP 1137
ISIP 4482/30 min.	FSIP 4460/45 min.
IHP 4683	FHP 4482

DST #9 from 9085' - 9226' (Chester limestone)

First Flow (15 min.) Tool opened with a very weak blow, died in
8 min. prior to ISI.

Second Flow (60 min.) Tool opened with no blow, bypassed
tool after 15 min. with weak blow, dead remainder of test.

Pipe Recovery 40' drilling mud.

Pressures

IFP 134	FFP 154
ISIP 134/60 min.	FSIP 156/60 min.
IHP 4906	FHP 4928

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