

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

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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 QUINTUPLICATE If State Land submit 6 Copies

MAC JONESSTATE

(Company or Operator)(Lease)

Well No. 1, in SE 1/4 of NE 1/4, of Sec 35, T 17S, R 35E, NMPM.

Vacum Abo Reef Pool, Lea County.

Well is 990 feet from E line and 2310 feet from N line

of Section 35. If State Land the Oil and Gas Lease No. is E-7651.

Drilling Commenced Feb. 10, 1963 Drilling was Completed April 1, 1963

Name of Drilling Contractor Sharp Drilling Company

Address P. O. Box 1271, Midland, Texas

Elevation above sea level at Top of Tubing Head 3900' The information given is to be kept confidential until

OIL SANDS OR ZONES

No. 1, from 8780 to 8825 (Abo Reef) No. 4, from to

No. 2, from 9044 to 9056 (Abo Reef) 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 to 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
13 3/8	48#	New	304.75	None		None	Surface Pipe
8 5/8	32#	New	3502.00	Halliburton		None	Intermediate
5 1/2	17#	New	9178.18	Halliburton		8780-8825 9044-9056	Production string

MUDDING AND CEMENTING RECORD						
SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17"	13 3/8	321	325	Pump & Circ.		
11"	8 5/8	3502	600	Pump & Circ.		
7 7/8"	5 1/2	9189	775	Pump (2 stage-DV tool @6300)		

RECORD OF PRODUCTION AND STIMULATION

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

(1) A/500 MCA, 2500 NE-15 perfs. @9044-56; (2) Frac 15,000 gals. oil, 8000 gals. NE-15 acid, 19,500# sand, 500# TLC-15 (Halliburton) perfs @8780-8825; (3) Perf. 6957-59, swab natural; (4) Perf. 6663-64, 6673-74, A/500 MCA.

Result of Production Stimulation (1) Swab 60 BLO, 1 BAW, KO & Fl 197 BNO 5 1/2 hrs.; (2) Fl. 8 BLO and died; swb. 55 1/2 BLO 2 1/2 hrs. KO & fl. 496 BLO & 5 BAW 12 hrs; (3) Swb 100% salty sul. water; (4) Swb 25 BLO, 12 BAW, 45 bbls. salty mud-cut gul. wtr. 1 3/4 hrs. Squeeze (3) & (4) See attached for detailed procedure. Depth Cleaned Out 9150

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 9198 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing 4-3 63
21 1/2 hrs. after cleanup
OIL WELL: The production during the first 24 hours was 600 barrels of liquid of which 75 % was
was oil; 0 % was emulsion; 25 % water; and 0 % was sediment. A.P.I.
Gravity 39.0°
GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of
liquid Hydrocarbon. Shut in Pressure lbs.
Length of Time Shut in

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 3138 (f 772)	T. Simpson	T. Pictured Cliffs	
3400 (f 310)	T. McKee	T. Menefee	
T. 7 Rivers 3583 (f 327)	T. Ellenburger	T. Point Lookout	
T. Queen 4480 (- 570)	T. Gr. Wash	T. Mancos	
T. Grayburg 4790 (- 880)	T. Granite	T. Dakota	
T. San Andres 6554 (- 2664)	T.	T. Morrison	
T. Glorietta 6650 (- 2740)	T.	T. Penn	
T. Blinn	T.	T.	
T. Tubbs 8775 (- 4865)	T.	T.	
T. Abo	T.	T.	
T. Penn	T.	T.	
T. Miss	T.	T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	320	320	Surf.				
320	2130	1810	Redbeds				
2130	3140	1010	Salt & Anhy.				
3140	3400	260	Sand, dolo. & anhy.				
3400	3580	180	Anhy. & dolo.				
3580	4480	900	Sand, dolo. & anhy.				
4480	4790	310	Dolo. & sand				
4790	5990	1200	Anhydritic dolo.				
5990	6550	560	Lime & chert				
6550	6650	100	Dolo. & fg. sand				
6650	7430	780	Light tan dolo.				
7430	7900	470	Brown sandy dolo.				
7900	8050	150	Argillaceous lime				
8050	8210	160	Sandy dolo.				
8210	8775	565	Dark arg. dolo. w/sat. reef tongues				
8775	8825	50	tan reef dolo.				
8825	9045	220	Black shly dolo & lime				
9045	9060	15	Tan Reef dolo.				
9060	9080	20	Black shaly dolo.				
9080	9170	90	Tan reef dolo.				
9170	9198	28	Black shaly dolo.				

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.

4-18-63

Company or Operator Mac Jones Address Box 1516, Midland, Texas (Date)
Name Mike Jones Position or Title Owner

COMPLETION PROCEDURE

Mac Jones #1 State
SE/NE 35-17S-35E Lea County, N. Mex.
2310 FNL, 990 FEL of Section

4-2-63: Drill out DV tool @ 6300', pressure up on casing to 1600 psi, no pressure loss in 30 min. Ran Schlumberger tie-in GR log; rigged up BOP and perforating lubricator.

4-3-63: Perf: 9044-56; 8780-8825 4/ft w/Schl 3 5/8" 'Crack-jets'.
Ran Halliburton retrievable bridge plug to 9100 and RTTS tool to 8980. Acidize perforations 9044-56 500 gals MCA plus 2000 gals NE-15%. Broke down 3000psi, treated 2100psi 3-4BPM. Immediately went on vacuum, fluid level 1200' first swab run.
Swabbed 61 BLO and AW 1 hr.
KO & flowed 130 BF (120 BNO + 10 BAW) in 3 1/2 hrs, 30/64" ch, FTP 300-400#. SI 11:00 PM, TP 600#.

4-4-63: SITP 780# @ 7:00 AM. Flwd 76 BNO 2 hrs, FTP 500, 30/64" ch. Total recovery this section: Swb 60 BLO, 1 BAW, flwd 197 BNO, no water, 5 1/2 hrs, FTP 500#, 30/64" ch.
Pumped 45 bbls lease crude down tbg, went on flow vacuum. Released packer, moved BP to 8980, pulled tbg and RTTS tool, prep to frac down casing perfs at 8780-8825.

4-5-63: Frac 15,000 gals refined oil, 8000 gals NE-15 acid, 19,500# 20-40 sand, 500# TLC-15. Broke down 4500psi, treated 3800-4100. Instant SIP 3500psi, 15 min SIP 1500. Total load 618 Bbls oil, 192 Bbls acid.

4-6-63: Flwd back 8 BLO and died. Ran tbg, set RTTS @ 8715. Swb 55 1/2 BLO 2 1/2 hrs. KO & flwd 501 Bbls fluid (5 BAW) 12 hrs. Recovering some frac oil, mostly new oil.

4-7-63: Pumped 100 bbls oil down tubing to kill, went on vacuum. Released RTTS tool, reversed out 30' sand on top of plug. Raised plug to 8715. Pull tubing to 6626. Perf 6957-59, 4/ft w/Welek 1 11/16" 'Kleen-strip'. On second perforating run (misfire) well began to flow. Set RTTS @ 6626 and swb 39 BO + 30 bbls fresh water in 5 hrs.

4-8-63: Swabbing fresh water and Abo oil. Reset RTTS below 6959, ran swab, KO & flowed. Halliburton retrievable bridge plug leaking. Pumped brine ~~sik~~ into well to kill, pull tubing and replace bridge plug at 7200'. Set RTTS below 6959, swab dry to test plug set.

4-9-63: Reset RTTS at 6903, swab 100% salty sulphur water. Move BP to 6903, pulled tubing to 6528. Perf 6663-64, 6673-74 w/4/ft w/Welex 1 11/16" 'Kleen-Strip'. Set RTTS 6528. A/500 MCA. Swb 25BLO, 12BAW 45 bbls mud-cut sulphur water in 1 hr 45 min. Prep to squeeze both Paddock zones.

✓ 4-10-63 to 4-13-63: Squeeze perfs 6663-64, 6673-74, 6957-59 w/425 sk.
See N. Mex OCC form C-103 for details of squeezing and pressure testing.

4-14-63: Retrieve bridge plug and ran tubing to 8930. Prep to swb perfs 8780-8825, 9044-9056.

4-15-63: Swb 57 BO, 157 BLW 8 1/2 hrs.

4-16-63: Swb 88 BO, 200 BLW 14 hrs.

4-17-63: Swb and flowed 249 BF, est 50% water 9 1/2 hrs. Flwg est 30BFPH, by heads, 50% water, 3/4" ch, FTP 50-200. Released swbg unit.

4-18-63: Flwd 450 BO, 150 BSW 21 1/2 hrs, 32/64" ch, FTP 220#, 39°, no est on GOR