

MOBIL OIL FIELD NO. 66
DRILLING & COMPLETION HISTORY

Consolidated Oil & Gas, Inc. PM '63

Shipp "A" No. 1-17

Lea County, New Mexico

December 11, 1963

Location: 1650' FNL, 1650' FEL, Sec. 17, T17S, R37E, N.M.P.M.

Elevations: 3776' GL
3788' KB

Spud: October 12, 1963

Drilling Completed: November 17, 1963
Well Completed: November 26, 1963

Total Depth: 8977' (Driller); 8985' (Log); 8955' (Plug Back)

Casing - 12-3/4" set at 310' KB cemented with 375 sx 50-50 Pozmix,
Surface: 2% CaCl₂.

Intermediate: 7-5/8" 26.4# set at 3970' cemented with 250 sx. 50-50 Pozmix.

Production: 5-1/2" 17# N-80 set as liner from 3871-8976' KB cemented
with 100 sx. 50-50 Pozmix with 6-lbs. of salt/sack.

Tubing: 2-1/2" EUE landed at 8896', Baker Model "R" packer set at
8794'.

Logs: Welex: Accoustic-Gamma, Forxo, Lateralog, Microlateralog

Cores & Drillstem
Tests: DST #1: 8886-8944'

Formation Tops (Log):

Anhydrite	2040' (+1748')	Queen	4210' (- 422')
Base Salt	3120' (+ 668')	San Andres	5030' (-1242')
Yates	3245' (+ 543')	Glorietta	6625' (-2837')
Tubbs	8270' (-4482')	Abo Dolomite	8750' (-4962')

Producing Perforations: 8886-8906'

Treatment: 100 gals. MSA, swabbed back, then treated with 2000 gals.
retarded acid (Halliburton).

Initial Potential: 208 BO in 11 hrs., 0.6% water, 1" choke, 275# FTP.

WELL:

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1650' FNL, 1650' FEL, Sec. 17, T17S, R37E

FIELD:

MIDWAY ABO

COUNTY:

LEA STATE: NEW MEXICO

ELEVATIONS:

3776' GL

3788' KB

10-12-63

Spudded in at 8:00 a.m.

10-13-63

Waiting on cement at 310'. Ran 9 jts. 12-3/4" casing (313.34'), and set at 310' KB with 375 sx. 50/50 Pozmix, 2% CaCl₂. Cement circulated. Plug down at 3:15 p.m.

10-14-63

Drilling at 1850' in redbeds. 1/4° dev. at 1600'.

10-15-63

Drilling at 2360' in Anhydrite and salt. 1/2° dev. at 2253'. Bit #2 made 1671' in 25-1/2 hrs.

10-16-63

Drilling at 3240'. Dev. 1-1/4° at 3191'. Base salt, 3160'.

10-17-63

Drilling at 3606'. Anhydrite and gyp. 1-1/4° dev. at 3440'.

10-18-63

Depth, 3890', in Anhydrite. 1-1/4° dev. at 3890'. Will drill to 3970' and run casing.

10-19-63

Total depth, 3970'. Waiting on cement. Ran 127 jts. 7-7/8" casing to 3974' - landed at 3970', cemented with 250 sx. 50/50 Pozmix. Plug down at 10:25 p.m., 10-18-63.

10-20-63

Drilling at 4200'.

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10-21-63

Drilling at 4612' - in lime. Deviation, $3/4^{\circ}$ at 4404'.

10-22-63

Drilling at 4912'. In lime and sand. Deviation, $1/2^{\circ}$ at 4870'.

10-24-63

Drilling at 5305', lime and sand. $3/4^{\circ}$ dev. at 5220'. Making trip, 5087' - sand and lime. $3/4^{\circ}$ dev. at 5056'.

10-25-63

Drilling at 5660', in lime. 1° dev. at 5430'.

10-26-63

Drilling at 6035', lime. $1/2^{\circ}$ dev. at 5737'.

10-27-63

Drilling at 6101', lime. $1/2^{\circ}$ dev. at 6080'.

10-28-63

Stuck pipe going into hole at 5850'. Spotted 120 bbls. of oil. No luck. Backed off at 5135'. Left 27 drill collars and 2 joints of drill pipe in hole. Washing over 5385'.

10-29-63

Depth, 6105'. Recovered 8 drill collars, 2 joints of pipe. Washed over 10 collars. Going in to back off.

10-30-63

Cleaning up fishing job; drilling ahead at 6385' in Dolomite.

10-31-63

Drilling at 6612' in Dolomite. $1-1/4^{\circ}$ dev. at 6395'.

11-1-63

Drilling at 6892' in Dolomite. $3/4^{\circ}$ dev. at 6712'.

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11-2-63

Drilling at 7172' in Dolomite. 1° dev. at 7052'.

11-3-63

Drilling at 7412' in Dolomite. 1° dev. at 7331'.

11-4-63

Making trip at 7589' in Dolomite. $3/4^{\circ}$ dev. at 7397'.

11-5-63

Drilling at 7755' in Dolomite.

11-6-63

Making trip at 7903' in Dolomite. $1-1/2^{\circ}$ dev. at 7734'.

11-7-63

Drilling at 8018' in Dolomite. $2-1/2^{\circ}$ dev. at 7990'.

11-8-63

Drilling at 8167' in Dolomite. 2° dev. at 8074'.

11-9-63

Drilling at 8298', Dolomite. 2° dev. at 8259'.

11-10-63

Making trip at 8437', Dolomite.

11-11-63

Drilling at 8560', Dolomite. $2-1/4^{\circ}$ dev. at 8410'.

11-12-63

Drilling at 8700', Dolomite. $2-3/4^{\circ}$ dev. at 8562'.

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11-13-63

Depth, 8795', Dolomite. 3-1/4° dev. at 8715'.

11-14-63

Depth, 8901'. Drilling break at 8889'. Will drill stem test today.

11-15-63

Depth, 8944'. 3-3/4° dev. at 8940'. Drill Stem Test #1, 8944'.
 Started out of hole at 8:40 a.m. with a test.

11-16-63

DST #1: 8886-8944'	Initial Shut In (45-min.)	2511#
	Final Shut In (1-1/2 hrs.)	2447#
	Initial Flow Pressure	170#
	Final Flow Pressure	1299#
	Bottom Hole Temperature	140°
	Tool open 5 hrs., 50 min.	
	Gas to surface - 15 min.	
	Flowed oil - 5 hrs., 40 min.	
	Recovered all oil - no water.	

11-17-63

Total depth, 8977'. Reran Bit, drilled to 8977'. Circulated hole clean, pulled out of hole to log. Will run Welox Accoustic, Forxo, Lateralog and Microlateralog; log total depth, 8985'. Presently logging.

11-18-63

5-1/2" casing set at 8976 KB. Top of 5-1/2" liner, 3871' KB. Float collar at 8957' KB. Cemented with 100 sx of 50-50 Pozmix with 6# of salt/sack. Presently moving out rotary rig today.

11-19-63

No report.

WELL:

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11-20-63

No report.

11-25-63

Moved in Clarke Well Service and rigged up to complete well. Now picking up 2-7/8" tubing to clean out with 4-3/4" bit to plug.

11-26-63

Picked up 2-7/8" tubing and cleaned out to 8955' KB. Pressured up on casing to 1000#, held. Spotted 100 gals. M.S.A. Pulled bit. Ran Lane-Wells correlation log and perforated 8886-8906' KB with two NCF-2 jets per ft. Ran Baker "R" packer on 2-1/2" EUE tubing with 102' of tail pipe below packer. Spotted 400 gals. MSA and set packer at 8794'. Displaced acid at 1/2 BPM with maximum pressure of 3400 psig. Immediate S.I. pressure, 3200 psig.; 5-min. S.I. pressure, 1600 psig.; 15-min. S.I. pressure, 0 psig. Job completed 7:50 a.m. Will swab tubing and test. (Note: Some gas breaking through fluid after perforating.)

11-27-63

Swabbed tubing dry. Pulled swab once per ft. for 5 hrs. recovering about 5 gals. of oil per hr. Rigged up Halliburton Oil Well Cementing Company and acidized with 2000 gals. retarded acid. Displaced 1000 gals. acid at 3.3 BPM rate of maximum of 3200 psig on first stage. Displaced 1000 gals. at 4 BPM rate at maximum of 2400 psig. S. I. Pressure, 1600 psig. On vacuum in 4 minutes. S.I. 2 hrs. Swabbed 66.81 BF in 4 hrs. to midnight when well kicked off. Flowed 139.41 BF in 6 hrs. at average rate of 23.23 BF per hr. on 1" choke. Flowing tubing pressure increased from 25 psig to 100 psig. Cutting 0.6 to 0.8% water. Will decrease choke size and test to Noon and release unit.

11-28-63

Released unit at 10:30 a.m. Oil 33.9° API at 60°F. Flowed 275 BO on 22/64" choke in 20 hrs. Tubing pressure, 105 psig. During this period, a one-hour test on a 1" choke flowed 39 BO at 50 psig. Trace of water from stock.

11-29-63

Flowed 115 BO, 22/64" choke, TP 110 psig in 9 hrs. Flowed 33 BO, 12/64" choke, TP 140 psig in 15 hrs. No water.

Final report.