

118 500
1 89 200

DRILLING REPORT

Yates Petroleum Corp. - Shell "PD" State #1 (Unit A) 12-11S-37E Lea Co., NM
(Re-entry)

2-11-81 TD 11862'. WIH with 4" casing gun on wireline and perforated 11612-11622, 11634-11640, and 11648-11650' w/18 .50" holes (2 SPF). WIH w/vent assembly Uni VI packer @ 11,504', 1.81' on-off tool and 370 joints 2-7/8" N-80 tubing. Set packer w/tubing dry with small blow. SI. Prep to test.

2-12-81 TD 11862'. Overnight SITP 0 psi. Acidized perfs @ 11612-11622, 11634-11640, 11648-11650 w/1500 gal 15% acid. Min press 3700#; Max press 3800#; Avg press 3750# @ 3.1 BPM. ISDP 3000#. Swab 90 bbl load water flowed staying at 2500' from surface.

2-13-81 SITP 0 psi. Fluid @ 2000'. Swab 17 run 100+ bbl. Swab off S.N. Making 3000' hour water, no gas or oil. Ran R.A. tracer and temperature survey. All fluid in perf zone. No movement up or down.

WATER ANALYSIS:

SP GR	1.155
Chloride	6
Iron	strong
H ₂ S	none
Total	192,136

WATER IN GLADOILA FIELD

	Dev	Miss
SP GR	44,000	52,000
Iron	0	fair trace
PH	6	7.3
H ₂ S	fair trace	0
Calcium		4000
Bicarbonate		354
Magnesium		870

2-14-16-81 TD 11862'. Swabbed perforations 11612-22, 11634-40, & 11648-50' dry. No show of oil or gas. Pulled tubing and packer. WIH and perforated 11320-11334' w/28 .50" holes. WIH w/RBP at 11431', Uni VI packer at 11278' w/on-off tool and 1.81" nipple on 363 joints of 2-7/8" N-80 tubing. Swabbed dry in 11 runs. Show of drilling mud, no gas or oil. Prep to acidize.

2-17-81 TD 11862'. Acidized perforations 11320-11334' w/1500 gallons 15% mud clean up acid. Had packer failure. Pulled tubing and changed out packer and tools. Prep to swab dry and acidize.

2-18-81 TD 11862'. Swabbed well down. No show of oil and gas. Acidized perforations 11320-11334' w/1500 gallons 15% Spearhead acid. Treating pressures: Min 1500#; Max 3700# Avg. 3000# at 3.2 BPM. ISDP 3300#; FSIP 2800# in 5 minute Swabbed dry w/very small blow.

2-19-81 TD 11862'. Swab tested Mississippian perforations 11320-11334'. One run per hour. Swabbed approximately 3-4 bbls each run from bottom. No show of oil or gas.

2-20-81 TD 11862'. Swab testing Mississippian perforations. Overnight SITP 10#. Swabbed well down in 2 runs, 3 to 4 bbls fluid - 50% oil and 50% water. Small flare. Last swab run of day - fluid level at 10500'. Swabbed approximately 1 bbl oil and 1 bbl water - small flare.

WATER ANALYSIS:

Density	1.080 at 69 degrees F
Iron	Very strong trace
Chlorides	67,000
PH	5.5
Bicarbonate	1342
Sulfate	936
Sodium chloride	112,000