

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

DEC 4 1980

Form C-101
Revised 10-1

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DISTRIBUTION	
SANTA FE	
FILE	<input checked="" type="checkbox"/>
U.S.G.S.	
LAND OFFICE	
OPERATOR	

O. C. D.
ARTESIA OFFICE

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
LG-155	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>	7. Unit Agreement Name
Name of Operator Mates Petroleum Corporation			8. Farm or Lease Name Willow Creek Unit
Address of Operator 107 South 4th St., Artesia, NM 88210			9. Well No. 2
Location of Well UNIT LETTER <u>L</u> 1980 FEET FROM THE <u>South</u> LINE AND <u>660</u> FEET FROM THE <u>West</u> LINE, SECTION <u>31</u> TOWNSHIP <u>4S</u> RANGE <u>25E</u> NMPM.			10. Field and Pool, or Wildcat Willow Creek Abo
15. Elevation (Show whether DF, RT, GR, etc.) 3902' GR			12. County Chaves

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
WEL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Prod. Csg., perforate & treat

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TO 5500'; PBTD 5487' Ran 122 joints of 4-1/2" K-55 9.5# ST&C casing set at 5487'. Diff-fill shoe at 5487'. DV tool at 4105' plus 9 centralizers. Cemented in two stages as follows:
 1st Stage: 350 sacks Class C, 2% gel, 5# KCL, .3% Halad 22, .05% CFR2, PD 5:45 AM 7-31-80.
 2nd Stage: 700 sacks Class C, 2% gel, 5# KCL, .3% Halad 22, .05% CFR-2. PD 10:15 AM 7-31-80.
 WOC and tested to 1500 psi, held OK.

TO 5500'; PBTD 5471' Rigged up completion unit, installed wellhead and BOP's. Drilled out DV tool and cleaned out to 5471'. Circulated hole w/2% KCL water, ran correlation and cement bond logs. TD 5500'; PBTD 5471' WIH w/casing gun and perforated 5386-5394' w/16 .50" holes (2 spf). WIH w/Guiberson Univ VI packer, 1.81" profile nipple and on-off tool on 2-3/8" tubing. Set packer at 5326'. Treated perforations 5386-94' w/35 barrels of acid plus ball sealers. Swabbed well recovering water with no show of oil or gas. Pulled tubing, packer and other downhole equipment. TD 5500'; PBTD 4945' Set CIBP at 4980' and capped w/35' cement. WIH w/casing gun and perforated 3769-96' w/10 .50" holes as follows: 3769, 70, 71, 72, 73, 87, 89, 92, 94, 96'. WIH w/Guiberson Univ VI packer on 2-7/8" tubing. Packer set at 3708'. Swabbed dry and shut in for pressure build-up. Treated perforations 3769-96' w/2000 gallons 15% acid plus nitrogen plus ball sealers. Flowed well back and swabbed dry with show of gas ASTM. Sand frac'd perforations 3769-96' w/20000 gallons Titan II-30 gel with 50000 lbs sand. Flowed well back to clean up. Flowing 80 psi on 1/2" positive choke = 140 mcf/gpd. Loaded hole, pulled tubing, packer and other downhole equipment. (continued)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>Albert R. Hall</u>	TITLE <u>Engineer</u>	DATE <u>Dec. 3, 1980</u>
APPROVED BY <u>W.A. Gressett</u>	TITLE <u>SUPERVISOR, DISTRICT</u>	DATE <u>DEC 10 1980</u>
CONDITIONS OF APPROVAL, IF ANY:		