

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-015-32664
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-2613

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐		7. Lease Name or Unit Agreement Name Willow State	
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ Deepen ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐		8. Well No. 2	
2. Name of Operator Mack Energy Corporation		9. Pool name or Wildcat Fren Paddock	
3. Address of Operator P.O. Box 960, Artesia, NM 88211-0960			
4. Well Location Unit Letter <u>O</u> : <u>990</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>17S</u> Range <u>31E</u> NMPM <u>Eddy</u> County			
10. Date Spudded 4/7/2003	11. Date TD Reached 4/23/2003	12. Date Compl. (Ready to Prod.) 5/9/2003	13. Elevations (DF & RKB, RT, GR, etc.) 3840' RKB
14. Elev. Casinghead 3831'			
15. Total Depth 6505'	16. Plug Back TD 6485'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools Yes Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 4959-5213', Paddock			20. Was Directional Survey Made Yes
21. Type Electric and Other Logs Run Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray			22. Was Well Cored No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	305'	17 1/2	325 sx	None
9 5/8	53.5	1738'	12 1/4	800 sx	None
5 1/2	17	6499'	7 7/8	1360 sx	None

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2 7/8	5245'

26. Perforation record (interval, size, and number) 4959-5213', .41, 71	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	4959-5213'	4000 gals 15% NEFE
	4959-5213'	32000 gals 20% HCL, 54000 gals 40# gel
	4959-5213'	5000 gals 15% acid

28. PRODUCTION							
Date First Production 5/12/2003		Production Method (Flowing, gas lift, pumping - Size and type pump) 2 1/2x2x16' Pump				Well Status (Prod. or Shut-in) Producing	
Date of Test 5/27/2003	Hours Tested 24 hours	Choke Size	Prod'n For Test Period	Oil - Bbl. 71	Gas - MCF 112	Water- Bbl. 300	Gas - Oil Ratio 1577
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 71	Gas - MCF 112	Water- Bbl. 300	Oil Gravity - API - (Corr.) 36	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By Robert C. Chase
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30. List Attachments
Deviation Survey, Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Crissa D. Carter Printed Name Crissa D. Carter Title Production Analyst Date 6/18/2003

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filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 1704	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 2028	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 2636	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ 3352	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____ 4870	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permain _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

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

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

No. 4, 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.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

L & M DRILLING, INC.

OIL WELL DRILLING CONTRACTORS

PO BOX 1370 ARTESIA, NEW MEXICO 88211-1370
(505) 746-4405 746-3518 748-2205

April 30, 2003

Mack Energy Corporation
PO Drawer 960
Artesia, NM 88211-0960

RE: Willow State #2
990' FSL & 1650' FEL
Sec. 16, T17S, R31E
Eddy County, New Mexico

Gentlemen:

The following is a Deviation Survey for the above captioned well.

DEPTH	DEVIATION	DEPTH	DEVIATION
157'	1/4°	3046'	3/4°
310'	1/2°	3476'	1°
523'	3/4°	3935'	1°
783'	1/4°	4368'	1 1/2°
1031'	1/4°	4707'	2°
1341'	1/2°	5205'	2°
1710'	1 1/4°	4700'	1 3/4°
1928'	1°	6200'	1 1/2°
2148'	3/4°	6330'	1 1/4°
2617'	3/4°	6505'	1 1/4°



Very truly yours,

Eddie C. LaRue
Vice President

STATE OF NEW MEXICO }
COUNTY OF EDDY }

The foregoing was acknowledged before me
this 30th day of April, 2003.

Notary Public

