

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.O.S.	
LAND OFFICE	
OPERATOR	1

5a. Indicate Type of Lease State ☒ Fee ☐
5. State Oil & Gas Lease No. LG-5663
7. Unit Agreement Name
8. Farm or Lease Name White State
9. Well No. 2
10. Field and Pool, or wildcat Diamond Mound Morrow
12. County Chaves

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	OCT - 9 1981
2. Name of Operator Mesa Petroleum Co.	O. C. D.
3. Address of Operator 1000 Vaughn Bldg. / Midland, TX 79701-4493	ARTESIA, OFFICE
4. Location of Well UNIT LETTER E 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 35 TOWNSHIP 15S RANGE 27E N.M.P.M.	
15. Elevation (Show whether DF, RT, GR, etc.) 3532.6' GR	

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

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOBS ☐
OTHER ☒ Bring risers up on 13-3/8" & 8-5/8" csq.

ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. 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.

On 8/24/81, risers were brought up on the 13-3/8" casing and the 8-5/8" casing, and the cellars were filled with pea gravel. Work was inspected by Michael Williams of the Artesia NMOC.

XC: NMOC(3), TLS, CEN RCDS, ACCTG, MEC, LAND, ROSWELL, FILE

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

SIGNED Cathy Kirkerson

TITLE Production Records Analyst

DATE 10/6/81

APPROVED BY Michael Williams

TITLE OIL AND GAS INSPECTOR

DATE OCT 14 1981

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-18-81	
Company Mesa Petroleum Co.				Connection UNCONNECTED	
Pool DIAMOND MOUND (MORROW)				Formation MORROW	
Completion Date 8-18-81		Total Depth 8960		Plug Back TD 8867	
Elevation 3533		Farm or Lease Name WHITE STATE			
Csg. Size 4 1/2"	Wt. 10.5&11.6	Set At 8959	Perforations: From 8769 To 8814		Well No. 2
Tbg. Size 2 3/8	Wt. 4.7	Set At 8646	Perforations: From OPEN ENDED To		Unit F 35 15S 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8646	
Producing Thru TUBING		Reservoir Temp. °F 137° @ 8960'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico			
L 8646	H 8646	G _g .65	% CO ₂ 1	% N ₂ 2	% H ₂ S Prover
Meter Run 4"		Taps FLANGE			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2470				72 hr. ST
1.	4 x 1.5			270	25	68	2270	72			1 hr.
2.	4 x 1.5			470	38	75	2040	74			1 hr.
3.	4 x 1.5			520	54	81	1840	72			1 hr.
4.	4 x 1.5			520	74	82	1625	74			1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	84.14	283.2	.9924	1.240	1.031	1157
2	10.84	135.50	483.2	.9859	1.240	1.043	1873
3	10.84	169.68	533.2	.9804	1.240	1.045	2337
4	10.84	198.64	533.2	.9795	1.240	1.045	2732
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.4221	528	1.430	.940	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.7201	535	1.454	.920	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.7946	541	1.470	.915	Specific Gravity Flowing Fluid _____ X X X X X
4.	.7946	542	1.472	.915	Critical Pressure _____ 671 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 368 _____ R _____ R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0474$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6514$
1	5212	2301	5295	870	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4,500$	
2	4215	2106	4435	1730		
3	3434	1944	3779	2386		
4	2683	1776	3154	3011		
5						

Absolute Open Flow <u>4,500</u> Mcfd @ 15.025		Angle of Slope θ <u>55°</u>	Slope, n <u>.7</u>
Remarks: _____			
Approved By Commission: _____		Conducted By: <u>E.L.B.</u> E.L. BUTTROSS, JR.	Calculated By: <u>E.L.B.</u> E.L. BUTTROSS, JR.
		Checked By: _____	

MESA PETROLEUM CO.
 WHITE STATE NO. 2
 SEC. 35, T15S, R27E
 CHAVES CO., NM
 8-18-81

