

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources,
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL CO.				Lease or Unit Name SAND DUNES "35" FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/23/01		Well No. 1	
Completion Date 1/23/01		Total Depth 11620		Plug Back TD 11502		Elevation 3431GL	
Unit Ltr - Sec - TWP - Rge JX 35 18S 29E							
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11620	Perforations: From: 11428 To: 11452		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10668	Perforations: From: To:		Pool N Turkey Track Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10675		Formation LOWER MORROW	
Producing Thru TUBING		Reservoir Temp. °F 166.9		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
Connection SALES							
L 10675	H 10675	Gg 0.66	%CO ₂ 0.667	%N ₂ 2.985	%H ₂ S N/A	Prover N/A	Meter Run 4.026
Taps FLG							
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						475	N/A
1	4.026 X 2.375		182	0.5	79	430	
2	4.026 X 2.375		183	0.8	86	400	
3	4.026 X 2.375		187	2	91	240	
4	4.026 X 2.375		187	3	92	210	
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							332
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	450
3							788
4							840
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A		Mcf/bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons N/A		Deg.
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.66		XXXXXX
3					Specific Gravity Flowing Fluid N/A		XXXXXX
4					Critical Pressure 669 P.S.I.A.		P.S.I.A.
5					Critical Temperature 368 R.		R
P _c	491.6	P _{c2}	241.7				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.31$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.16$		
1		456.7	208.6	33.1			
2		411.6	169.4	72.3			
3		255.5	65.2	176.5			
4		240.9	58	183.7			
5							
Absolute Open Flow 974.4				Mcf/d @ 15.025	Angle of Slope (°): 60.7	Slope n: 0.5607	
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	