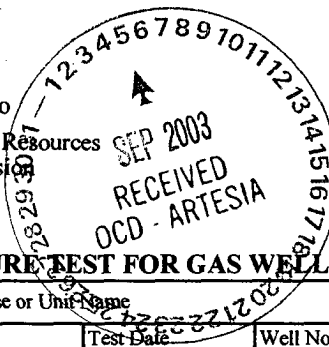


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

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



30-015-32608

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL CO.				Lease or Unit Name OTIS "1"					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date		Well No. 1	
Completion Date		Total Depth 12500		Plug Back TD 12184		Elevation		Unit Ltr - Sec - TWP - Rge 1 22S 27E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12307		Perforations: From: 11800 To: 11810		County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10850		Perforations: From: To:		Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10838		Formation MIDDLE MORROW			
Producing Thru Tubing		Reservoir Temp. °F 181		Mean Annual Temp. °F 60		Baro. Press.-P _a 13.2		Connection SALES	
L 10838	H 10838	Gg 0.578	%CO ₂ 1.054	%N ₂ 0.289	%H ₂ S N/A	Prover N/A	Meter Run 3.068	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	Press p.s.i.g.	Temp. °F
SI						3020	N/A	PKR	N/A
1		3.068 X 1.625	310	12	70	2675			
2		3.068 X 1.625	360	20	70	2510			
3		3.068 X 1.625	450	30	70	2275			
4		3.068 X 1.625	420	46	70	2195			
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		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	13.24		62.3	323.2	0.9905	1.315	1.039	1116	
2	13.24		86.4	373.2	0.9905	1.315	1.039	1548	
3	13.24		117.9	463.2	0.9905	1.315	1.039	2112	
4	13.24		141.2	433.2	0.9905	1.315	1.039	2529	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1	0.78	530	1.53	0.927	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2	0.78	530	1.53	0.927	Specific Gravity Separator Gas 0.578 XXXXXXXX				
3	0.78	530	1.53	0.927	Specific Gravity Flowing Fluid N/A XXXXXX				
4	0.78	530	1.53	0.927	Critical Pressure 675 P.S.I.A. P.S.I.A.				
5					Critical Temperature 346 R. R.				
P _c 2168.2 P _{c2} 4701									
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.153$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.446$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.153$				
1		2691.3	7243.2	2017.8					
2		2529.5	6398.4	2862.6					
3		2301	5294.7	3966.3					
4		2227.2	4960.3	4300.7					
5									
Absolute Open Flow 5.446 Mcfd @ 15.025					Angle of Slope (°): 45		Slope n: 1		
Remarks: * NO LIQUID MADE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: MB		

MEWBOURNE OIL CO.
OTIS "1" #1

