

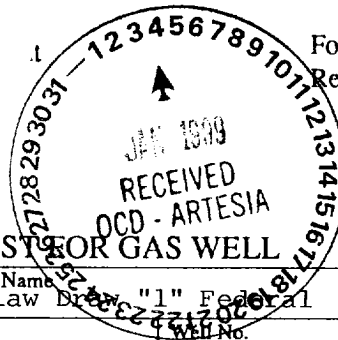
Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-122
Revised 4-1-91



30-015-
30123

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Mewbourne Oil Company						Lease or Unit Name Catclaw Draw "1" Federal					
Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 12-10-1998					
Completion Date 6-2-1998		Total Depth 10,650'		Plug Back TD 10,550'		Elevation 3259'		Unit Ltr. - Sec. - TWP - Rge. O, 1-T21S-R25E			
Csg. Size 5-1/2"	Wt. 17#	d 4.892"	Set At 10,650'	Perforations: From: 10,405' To: 10,440'				County Eddy			
Tbg. Size 2-7/8"	Wt. 6.5#	d 2.441"	Set At 10,365'	Perforations: From: 10,255' To: 10,274'				Pool Catclaw Draw Morrow			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,365'		Formation Morrow			
Producing Thru Tbg		Reservoir Temp. °F 181		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Sales			
L 10,368	II 10,368	Gg 0.588	% CO ₂ 0.865	% N ₂ 0.269	% H ₂ S 0	Prover 0	Meter Run 4.026	Taps Flg			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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						965		410		
1.						68	91	410		24 hrs
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	Total Flow Meter						3002
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	NA	Mcf/bbl.
1.					A.P. I. Gravity of Liquid Hydrocarbons	NA <td>Deg.</td>	Deg.
2.					Specific Gravity Separator Gas	0.588	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	1.129	XXXXXX
4.					Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	354	R

P_c 978 P_c² 957

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	6.6	341.8	116.8	840.0
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.139$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.139$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,420$

Absolute Open Flow 3,420 Mcfd @ 15.025	Angle of Slope Θ 45	Slope, n 1.000
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Remarks: Produced 140 BW during test. Produced no condensate during test.

Approved By Division	Conducted By: MOC	Calculated By: PW	Checked By: JE
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