

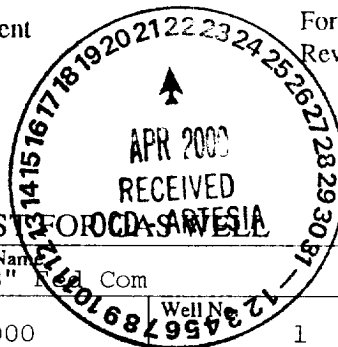
Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

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



MULTIPOINT AND ONE POINT BACK PRESSURE TEST

Operator Mewbourne Oil Company						Lease or Unit Name Fren "8" Com					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/22/2000					
Completion Date 3/11/2000		Total Depth 12061'		Plug Back TD 12026'		Elevation 3671'		Well No. 1			
Csg. Size 5-1/2"	Wt. 20#	d 4.778"	Set At 12061'	Perforations: From: 11744' To: 11770'				Unit Ltr. - Sec. - TWP - Rge. D-8-18S-31E			
Tbg. Size 2-7/8"	Wt. 6.5#	d 2.441"	Set At 11554'	Perforations: From: To:				County Eddy			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,534'		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 168		Mean Annual Temp. °F 70		Baro. Press - P _a 13.2		Connection Sales			
L	H	Gg 0.686	% CO ₂ 0.430	% N ₂ 0.738	% H ₂ S 0	Prover		Meter Run		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						3474				
1.						3446				16 hours
2.						3314				24
3.						2863				24
4.						1980				24
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.							2016
2.							6152
3.	Rates measured by total flow meter						10034
4.							13138
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	39,100	Mcf/bbl.
1.					A.P. I. Gravity of Liquid Hydrocarbons	0.686	Deg.
2.					Specific Gravity Separator Gas	0.686	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	665	P.S.I.A.
5.					Critical Temperature	377	R

P _c 4954 P _c ² 2454				1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.69$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.94$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1.		4874	2376	78			
2.		4568	2087	367			
3.		4166	1736	718			
4.		3318	1101	1353			
5.							

Absolute Open Flow 24,239		Mcf/d @ 15.025	Angle of Slope Θ 35.8	Slope, n 0.721
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Remarks: Well produced at average GOR of 39,100 during test with 57.5° condensate

Approved By Division	Conducted By: DP	Calculated By: JE	Checked By:
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