

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 6-30-77			
Company Odessa Natural Corp.				Connection Waiting on Pipeline					
Pool Undesignated Fruitland				Formation Fruitland				Unit	
Completion Date 6-17-77		Total Depth 1900		Plug Back TD 1818		Elevation 5892'KB		Farm or Lease Name Little Federal	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 1867	Perforations: From 1364 To 1384		Well No. 4			
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 1369	Perforations: From 1366 To 1369		Unit C		Sec. 1	Twp. 30N
						Rge. 14W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 70 @ 1900		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0		State New Mexico	
L 1.369	H 1369	G _g 0.600	% CO ₂ --	% N ₂ --	% H ₂ S --	Prover --	Meter Run --	Taps --	

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	
1.	3/4" THC						360		500		7 da
2.							50		390		3 hrs
3.											
4.											
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	12,365		62	1.0000	1.0000	1.0000	767
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 512 P_c² 262,144

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		402	161,604	100,540
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6073$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.2582$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,732$

Absolute Open Flow 1,732 Mcfd @ 15.025 Angle of Slope Θ _____ Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By: Jerold Brooks	Calculated By: Ewell N. Walsh	Checked By:
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