

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 7-7-77								
Company Odessa Natural Corp.			Connection Waiting on Pipeline									
Pool Undesignated Fruitland			Formation Fruitland		Unit							
Completion Date 6-21-77		Total Depth 1900		Plug Back TD 1813	Elevation 5962'KB							
Farr. or Lease Name Little Federal		Well No. 6										
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 1861'	Perforations: From 1254' To 1326'								
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 1295'	Perforations: From 1293' To 1295'								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None								
County San Juan			Producing Thru Tubing		State New Mexico							
Reservoir Temp. °F 68 @ 1900		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0								
L 1295	H 1295	G _g 0.600	% CO ₂ --	% N ₂ --	% H ₂ S --							
Prover --		Meter Run --		Taps --								
FLOW DATA												
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	Duration of Flow	
SI							370		370		7 da	
1.	3/4" THC						10		40			
2.												
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	12.3650		22	1.0000	1.0000	1.0000	272					
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 382		P _c ² 145,924										
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0188$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0160$					
1		52	2,704	143,220								
2												
3												
4												
5												
AOF = Q					$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 276$							
Absolute Open Flow					276			Mcf/d @ 15.025		Angle of Slope e		Slope, n 0.85
Remarks:												
Approved By Commission:			Conducted By: Jerold Brooks			Calculated By: Ewell N. Walsh			Checked By:			