

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 11-1-79	
Company Odessa Natural Corporation				Connection waiting on pipeline	
Pool Basin Dakota				Formation Dakota	
Completion Date 10-13-79		Total Depth 6335'		Plug Back TD 6284'	
Elevation 6392' K.B.		Farm or Lease Name Burrroughs State			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6325	Perforations: From 6102 To 6204	
Thg. Size 2.375	Wt. 4.70	d 1.995	Set At 6143	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 147#6335		Mean Annual Temp. °F 60	
Baro. Press. - P _a 12.0		State New Mexico			
L 6143	H 6143	Gg 0.60	% CO ₂ ---	% N ₂ ---	% H ₂ S ---
Prover 2"-1 1/4"		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	2"-orifice-1 1/4"						1,465		1,450		8 day
2.	well tester						1,105		1,240		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	Orifice well tester-1 1/4"		33 psia	1.0000	1.0000	1.0000	1,240
2.							
3.							
4.							
5.							

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

P _c 1,477 P _c ² 2,181,529				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		1,252	1,567,504	614,025
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.5528$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5878$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,209$

Absolute Open Flow 3,209 _____ Mcfd @ 15.025		Angle of Slope @ _____	Slope, n 0.75
Remarks: Test through production unit.			

Approved By Commission:	Conducted By: Dewayne Blancett	Calculated By: Ewell N. Walsh	Checked By:
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