

File

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

NOV 19 1970
OIL CON COM.
DIST. 3

☒ Initial ☐ Annual ☐ Special		Test Date 11-14-70	
Company Aspec Oil & Gas Company		Connection Southern Union Gathering	
Well Dingo		Formation Pictured Cliffs <i>Est</i>	
Total Depth 2578		Elevation 5788 Gr	
Plug Back TD 2578		Farm or Lease Name Randleman	
Log Size 1.500 wt. 9.5# d Set At 2582	Perforations: From 2488 To 2506	Well No. #3	
Log Size 1.315 wt. 1.7# d Set At 2480	Perforations: From ---- To ----	Unit Sec. Twp. Rge. D 13 31N 11W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At ----	
Producing Thru Casing		Baro. Press. - P_a	
Reservoir Temp. °F c		Mean Annual Temp. °F	
L H Gg % CO ₂ % N ₂ % H ₂ S Prover		County San Juan	
Meter Run		State New Mexico	
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.	
1.	3"		3/4"				872		872	
2.							169		156	
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		169	1.0000	.9258	1.0000	1923
2.							
3.							
4.							
5.							

NO.	P_c	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/mol.
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

NO.	P_c^2	P_w^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0216$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0183$
1.	181	32,761	748,695			
2.						
3.						
4.						
5.						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1958$	
Absolute Open Flow 1958 Mcfd @ 15.025	Angle of Slope θ _____ Slope, n _____

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
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