

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-04-75		MAR 12 1975	
Company Depco, Inc.				Connection None		O. C. C. ARTESIA, OFFICE	
Pool Buffalo Valley				Formation Morrow		Unit	
Completion Date 2-19-75		Total Depth 8330		Plug Back TD 8185		Elevation 3408 Gr.	
Csg. Size 4 1/2		Wt. 4.70		Set At 8330		Perforations: From 7962 To 7970	
Tbg. Size 2 3/8		Wt. 4.70		Set At 7917		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7906		Well No. 1	
Producing Thru Tubing		Reservoir Temp. °F 146 @ 7900		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L 7917		H		G _g		State New Mexico	
				% CO ₂		County Chavez	
				% N ₂		Prover	
				% H ₂ S		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
SI							2508.2	62			
1.	2"		1/4	204		82	2118.2	65			60 min.
2.	2"		5/16	203		99	2025.2	62			60 min.
3.	2"		3/8	200		60	1910.2	65			60 min.
4.	2"		7/16	210		75	1843.2	66			60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	1.112		217.2	0.9795	1.213	1.026	294
2.	1.771		216.2	0.9645	1.213	1.019	456
3.	2.591		213.2	1.0000	1.213	1.024	686
4.	3.574		223.2	0.9859	1.213	1.022	975
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Trace	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	62.7	Deg.
2.					Specific Gravity Separator Gas	.6801	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	669	669 P.S.I.A.
5.					Critical Temperature	388	388 °R

NO.	P _t ²	P _w ²	P _w ² - P _t ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1.	2892.2	8365	1178	$\frac{9543}{2927} =$	$\left[\frac{9543}{2927} \right]^n =$
2.	2771.2	7680	1863		
3.	2572.2	6616	2927		
4.	2499.2	6246	3297		
5.					

Absolute Open Flow 2071 Mcfd @ 15.025				Angle of Slope θ 47		Slope, n .935	
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Remarks: * Used positive choke nipple in vent line from separator to measure gas volumes.	
Used Bottom Hole Pressure Gauge to measure Bottom Hole Pressures	

Approved By Commission:	Conducted By: TOM HANSEN CO., INC.	Calculated By: <i>Richard Durrey</i>	Checked By:
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