

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 12-8-77		DEC 21 1977		
Company Depco, Inc. ✓				Connection El Paso Natural Gas				O.C.C.	
Pool Wildcat (Wolfcamp)				Formation Wolfcamp				ARTESIA, OFFICE	
Completion Date 12-3-77		Total Depth 11,350		Plug Back TD 10,380		Elevation 3477 Gr.		Farm or Lease Name DHY State "B"	
Csg. Size 5 1/2"	Wt. 20	d 	Set At 11,350	Perforations: From 8870 To 8942		Well No. 1			
Tbg. Size 2 3/8"	Wt. 4.7	d 	Set At 8795	Perforations: From Open End To 8795		Unit L	Sec. 11	Twp. 19S	Rge. 28E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 8795		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 148 @ 8906		Mean Annual Temp. °F 		Baro. Press. - P _a 13.2		State New Mexico	
L 8906	H 8906	Gg .743	% CO ₂ .12	% N ₂ .78	% H ₂ S .01	Prover 	Meter Run X	Taps Flange	

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							2531	71			
1.	3"	X	1 1/4"	731.0	6.2	63	2410	73			1 Hr.
2.	3"	X	1 1/4"	743.2	15.2	65	2363	74			1 Hr.
3.	3"	X	1 1/4"	743.2	31.4	67	2289	75			1.25 Hrs.
4.	3"	X	1 1/4"	731.0	57.8	68	2093	75			1 Hr.
5.	3"	X	1 1/4"	694.8	97.0	67	1917	75			1.25 Hrs.

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	7.577	67.927	744.2	.9971	1.160	1.109	660
2	7.577	107.225	756.4	.9952	1.160	1.112	1043
3	7.577	154.113	756.4	.9933	1.160	1.108	1491
4	7.577	207.400	744.2	.9924	1.160	1.106	2001
5	7.577	262.061	708.0	.9933	1.160	1.100	2517

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.115	523	1.291	.813	5.273	
2.	1.133	525	1.296	.809	56.3	
3.	1.134	527	1.302	.815		
4.	1.115	528	1.303	.818		
5.	1.061	527	1.301	.827		

A.P.I. Gravity of Liquid Hydrocarbons 56.3 Specific Gravity Separator Gas .743 Specific Gravity Flowing Fluid X X X X X Critical Pressure 667 P.S.I.A. Critical Temperature 405 °R			
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NO.	P _i ²	P _s	P _s ²	P _i ² - P _s ²	(1) $\frac{P_i^2}{P_i^2 - P_s^2} = 3.449$ (2) $\left[\frac{P_i^2}{P_i^2 - P_s^2} \right]^n = 2.092$ AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_s^2} \right]^n = 5265$
1		3534.2	12,491	406	
2		3471.2	12,049	848	
3		3379.2	11,419	1478	
4		3215.2	10,338	2559	

NO.	P _i ²	P _s	P _s ²	P _i ² - P _s ²
5		3026.2	9,158	3739

Absolute Open Flow 5,265 Mcfd @ 15.025		Angle of Slope 59.25		Slope, n .596	
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Remarks: Bottom Hole Pressure was recorded @ 8906' with Amerada	
RPG-3 Instrument No. 41379 (0-6000 psi range)	

Approved By Commission:	Conducted By: Jones	Calculated By: Harrington	Checked By:
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