

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

File ✓
C-122 File
Form C-122
Revised 9-1-65

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 9/6/80	OCT 6 1980								
Company Depco, Inc.		Connection None		O. C. D.							
Pool <i>Diamond mound</i> Plats - Morrow		Formation Morrow		Unit ARTESIA, OFFICE							
Completion Date 9/6/80	Total Depth 9410'	Plug Back TD 9352'	Elevation 3590'GL	Form or Lease Name Mesa State Comm							
Case Size 4 1/2" Wt. 11.6	Set At 4.000 9410'	Perforations: From 9096 To 9125	Well No. 1								
Reg. Size 2 3/8" Wt. 4.7	Set At 1.995 9016'	Perforations: From To	Unit Sec. Twp. Rge. J 31 15 28								
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 9020'	County Chaves								
Producing Thru Tubing	Reservoir Temp. °F 165 @ 9111	Mean Annual Temp. °F 60	Para. Press. - P ₀ 13.2	State New Mexico							
L 9111	H 9111	G _g .6772	% CO ₂ .436	% N ₂ 1.568							
		% H ₂ S -0-	Prover	Meter Run 2"							
FLOW DATA 100"-2000#		TUBING DATA		CASING DATA							
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	Duration of Flow
SI							2760				
1.	2 X 1.000			637	7.84	82	1951				68
2.	2 X 1.000			637	12.3	78	1768				2 hr.
3.	2 X 1.000			637	25.0	79	1402				1 hr.
4.	2 X 1.000			637	30.25	85	1083				1 hr.
5.											1 hr.
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, F _{spv}	Rate of Flow G, Mcd				
1	4.753	71.40	650.2	.9795	1.215	1.062	429				
2	4.753	89.43	650.2	.9831	1.215	1.063	540				
3	4.753	127.50	650.2	.9822	1.215	1.063	769				
4	4.753	140.24	650.2	.9768	1.215	1.060	839				
5											
NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio						
1	.97	542	1.43	.887	4.908 Mcl/Lbl.						
2	.97	538	1.42	.885	A.P.I. Gravity of Liquid Hydrocarbons 58 @ 60						
3	.97	539	1.42	.885	Specific Gravity Separator Gas .677						
4	.97	545	1.44	.890	Specific Gravity Flowing Fluid X X X X X						
5					Critical Pressure 668 P.S.I.A. 647 P.S.I.A.						
					Critical Temperature 379 R 554 R						
P _r 2773.2		P _c ² 7690.6									
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.188$						
1		1965.7	3863.9	3826.7	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.188$						
2		1783.6	3181.4	4509.2							
3		1420.9	2018.9	5671.7	ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .997$						
4		1104.0	1218.9	6471.7							
5											
Absolute Open Flow 997		Mcd @ 15.025		Angle of Slope 45		Slope n 1.00					
Remarks: 18.13 BBLs/Cond.											
13.78 BBLs/H ₂ O											
Approved By Commission:		Conducted By: JARREL SERVICES, INC.		Calculated By: R. Reston		Checked By: Joe A. Coleman					

Posted ID-2
Comp Book
SI
10-24-80