

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11/23/82		RECEIVED OCT 11 1982 O. C. D. ARTESIA, OFFICE	
Company Samedan Oil Co. ✓		Connection Air		Formation ABO	
Completion Date 11/19/82		Total Depth 4400		Plug back TD 4142	
Elevation 3604 KB		Turn of Lease State 16 ✓			
Csq. Size 4 3/8	Wt. 9.5	Set At 4400	Perforations: From 4053 To 4065		Well No. 3
Tq. Size 2 1/16	Wt. 3.25	Set At 3530	Perforations: From To		Unit 16
Type Well - Single - Pratherhead - G.G. or G.O. Multiple Single			Packer Set At none		County Chaves
Producing Thru Tbg.		Reservoir Temp. °F 114.4 4049	Mean Annual Temp. °F 60.0	Buro. Press. - P ₀ 13.2	State N.M.
L 4049	H 4049	G _g .7316	% CO ₂ 10.218	% N ₂ 5.088	% H ₂ S Prover
Meter Run 4"		Turn Flg.			

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.	4 X 1.000			150	10.0	66	930		922		1.5 hrs
2.	4 X 1.000			150	21.0	83	920		915		1 hr
3.	4 X 1.000			160	42.0	100	900		895		1 hr
4.	4 X 1.000			160	87.0	96	865		865		1 hr
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.	4.753	40.40	163.2	.9943	1.169	1.015	227
2.	4.753	58.54	163.2	.9786	1.169	1.013	322
3.	4.753	85.29	173.2	.9636	1.169	1.013	463
4.	4.753	122.75	173.2	.9671	1.169	1.013	668
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	dry	Mcf/Std.
1.	.23	526	1.42	.971	A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.	.23	543	1.47	.974	Specific Gravity Separator Gas	.7316	X X X X X X X X
3.	.25	560	1.51	.975	Specific Gravity Flowing Fluid	X X X X X	
4.	.25	556	1.50	.974	Critical Pressure	703	P.S.I.A.
5.					Critical Temperature	370	R

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	928.5	862.1	85.0	5.351	5.351
2.	918.8	844.3	102.8		
3.	903.9	817.1	130.0		
4.	877.6	770.1	177.0		
5.					

Absolute Open Flow		3,574	Mcf @ 15.025	Angle of Slope	45°	Slope, n	1.000
Remarks:							
Approved by Consultant:		Conducted by:		Collected by:		Checked by:	
		Davis Services, Inc.		Rick Pagan			