

RECEIVED

Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special		Test Date: 4-25-82	660 FNL	
Company: BERGE EXPLORATION, Inc ✓		Connection: AIR NEW WELL		MAY 13 1982 660 NWL
Well: Picos Slope UNDESIGNATED		Formation: ABO		Unit: O. C. D. D ARTESIA, OFFICE
Completion Date: 4-22-82	Total Depth: 4800 4471	Plug back TD: 4740 4728	Elevation: 3770 KB	Form or Lease Name: DALE FEDERAL
Log Size: 4.5	Wt.: 10.5	d: 4.052	Set At: 4740	Perforations: 4534 From 4439 To 4550
Log Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 4487	Perforations: From OPEN To ENDED
Type Well - Single - Bradenhead - G.C. or G.O. Multiple: SINGLE			Packer Set At: NONE	County: CHAVES
Producing Thru TUBING	Reservoir Temp. °F: 109	Mean Annual Temp. °F: 60°	Boro. Press. - P _a : 13.2	State: NEW MEXICO
L: 4495	H: 4495	G _g : 0.728	% CO ₂ : 9.94	% N ₂ : 3.61
			% H ₂ S:	Prover: 2"
				Meter Run:
				Taps: PIPE

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							979	88	1120		72-1/4 HR
1.	2	X	3/32	955	0	76	955	76	1102	48/64	1
2.	2	X	3/16	886	0	71	886	71	1018	48/64	1
3.	2	X	5/16	560	0	60	735	60	844	14/64	1
4.	2	X	3/8	472	0	63	543	63	664	18/64	1
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 _{sp}	Rate of Flow Q, Mc/d
1	.1446	.00	968.2	.9850	1.1720	1.0859	176
2	.6237	.00	899.2	.9896	1.1720	1.0827	704
3	1.7140	.00	573.2	1.0000	1.1720	1.0553	1215
4	2.4390	.00	485.2	.9971	1.1720	1.0460	1447
5							

NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.37	536	1.44	.848			.7280		705	372
2	1.28	531	1.43	.853						
3	.81	520	1.40	.898						
4	.69	523	1.41	.914						
5										

NO.	P _i ²	P _w ²	P _r ²	P _e ² - P _w ²
1	1133.2	1115.2	1243.7	40.0
2		1031.2	1063.4	221.0
3		857.2	734.8	549.0
4		677.2	458.6	826.0
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.5547$		(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.2777$	
AOF = 0 $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1,848.2$			

Absolute Open Flow: 1,848.2		Mold # 15.025		Angle of Slope @ 61.0		Slope, n .5554	
BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.							
Remarks:							
Approved By Commission:		Conducted By: DON BENNETT		Calculated By: BENNETT-CATHEY		Checked By:	

Post FO-2
8-13-82
Camp & BK