

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

RECEIVED BY

JUN 14 1984

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

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 6-4-84	
Company SUN EXPLORATION & Production Co. ✓				Connection TO AIR	
Pool West Pecos Slope (Abo)				Formation Abo	
Completion Date 5-29-84		Total Depth 3200		Elevation 4177.6	
Casing Size 5.500		Casing WT. 15.5		Perforations: From 2876 To 3026	
Tubing Size 2.375		Tubing WT. 4.7		Perforations: From OPEN To ENDED	
Type Well - Single - Drivenhead - G.O. or G.O. Multiple SINGLE				Factor Set At 2784	
Producing thru TUBING		Reservoir Temp. °F 94 @ 2956		Mean Annual Temp. °F 60°	
L 2956		H 2956		Cg 0.669	
% CO ₂ 4.641		% N ₂ 5.207		% H ₂ S 0	
Baro. Press. - P _a 13.2		Motor Run 4.026		Taps FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.	
51							890		957	
1.	4.026 X 1.000			200	7.0	84	862	52	933	5/64
2.	4.026 X 1.000			200	14.0	92	845	52	912	7/64
3.	4.026 X 1.000			210	33.0	93	818	62	880	9/64
4.	4.026 X 1.000			210	68.0	88	771	62	832	11/64
5.										

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 _{sp}	Rate of Flow Q, Mgd
1	4.753	38.63	213.2	.9777	1.223	1.016	223.
2	4.753	54.63	213.2	.9706	1.223	1.015	313.
3	4.753	85.82	223.2	.9697	1.223	1.016	491.
4	4.753	123.20	223.2	.9741	1.223	1.016	709.

NO.	P _f	Temp. °R	T _f	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	0.31	544.	1.51	.969			0.669	XXXXXX	681.	359.
2	0.31	552.	1.54	.971				XXXXXX		
3	0.33	553.	1.54	.969				XXXXXX		
4	0.33	548.	1.53	.968						

NO.	P _f	P _w	P _f - P _w	P _f - P _w	(1) $\frac{P_f^2}{P_f^2 - P_w^2} = 4.1823$	(2) $\left[\frac{P_f^2}{P_f^2 - P_w^2} \right]^n = 3.4314$
1	896.	803.	974.	764.		
2			855.	732.		
3			826.	582.		
4			792.	511.		

Post # D-2
6-22-84
Comp + BK

Absolute Open Flow 2433.		Mgd @ 15.025		Angle of Slope @ 49.25		Slope, n 0.869	
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.							
Approved by Commission		Conducted By RICHARD TOWNLEY		Calculated By BENNETT & CATHEY		Checked By	