

RECEIVED

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

c/sf
File
Form C-122
Revised 9-1-65

SEP 14 89

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-18-89							
Company Amoco Production Company				Connection El Paso							
Pool Mosley Canyon				Formation Strawn							
Completion Date 8-18-89		Total Depth 10880		Plug Back TD 10205							
				Elevation 3937 GR							
Casing Size 5 1/2		Set At 10880		Perforations: From 9240 To 9465							
Tubing Size 2 3/8		Set At 9149		Perforations: From open To end							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9149							
Producing Thru Tbg.		Reservoir Temp. °F 166 @ 9240		Mean Annual Temp. °F 60							
				Baro. Press. - P _a 13.2							
L 9240		H 9240		Cg .594							
				% CO ₂ .41							
				% N ₂ .44							
				% H ₂ S 0							
				Prover							
				Meter Run 4.026							
				Taps Flg.							
FLOW DATA											
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	Duration of Flow
SI							2082		Pkr.		24 hrs.
1.	4	x	1.250	463	2.89	85	1887		Pkr.		45 min.
2.	4	x	1.250	463	6.30	80	1777		Pkr.		1 hr.
3.	4	x	1.250	477	21.20	66	1265		Pkr.		1 hr.
4.	4	x	1.250	477	32.50	64	648		Pkr.		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	7.469	37.10	476.2	.9768	1.298	1.034	363				
2	7.469	54.77	476.2	.9813	1.298	1.036	540				
3	7.469	101.94	490.2	.9943	1.298	1.040	1,022				
4	7.469	126.22	490.2	.9962	1.298	1.040	1,268				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.						
1	.71	545	1.53	.934	A.P.I. Gravity of Liquid Hydrocarbons <u>Dry Gas</u> Deg.						
2	.71	540	1.52	.932	Specific Gravity Separator Gas <u>.594</u> XXXXXXXXXX						
3	.73	526	1.48	.925	Specific Gravity Flowing Fluid <u>XXXXX</u>						
4	.73	524	1.48	.925	Critical Pressure <u>672</u> P.S.I.A. P.S.I.A.						
5					Critical Temperature <u>354</u> °R °R						
P _c 2095.2 P _c ² 4389.9											
NO.	P _i ²	P _w	P _r ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.124$						
1		1901.1	3614.2	775.7	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.092$						
2		1792.3	3212.5	1177.4							
3		1289.5	1662.7	2727.2							
4		696.9	485.6	3904.3	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.385$						
5											
Absolute Open Flow <u>1,385</u> Mcfd @ 15.025					Angle of Slope <u>53</u>		Slope, n <u>.752</u>				
Remarks: <u>No fluid produced during test</u>											
Approved By Commission:		Conducted By: John West Engineering		Calculated By: JBM		Checked By: JBM					