

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/22/68			
Company Ernest A. Hanson				Connection None		NOV 1 1968		
Pool Same Ranch Q. 5 A Milcoet R. 3681				Formation Premier Sand		Unit D. C. C. BUREAU OFFICE		
Completion Date 12/12/67		Total Depth 10,260		Plug Back TD 1891		Elevation 3583 DF		Farm or Lease Name Honolulu Federal
Csg. Size 9 5/8	Wt. 36.0	d 8.921	Set At 1900	Perforations: From 1720 To 1754		Well No. 1		
Tbg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 1710	Perforations: From Open ended To		Unit Sec. Twp. Rge. C 15 15/4 26		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 1710		County Chaves		
Producing Thru Tubing		Reservoir Temp. *F 8		Mean Annual Temp. *F 65		Baro. Press. - P _a 13.8		State New Mexico
L	H	Gg .736	% CO ₂ ---	% N ₂ 21.16	% H ₂ S ---	Prover X	Meter Run	Taps

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											
1.	2	X	3/8	22.5		60	1400	60			1.5
2.	2	X	1/2	20.2		60	1217	60			1.0
3.	2	X	3/4	12.3		60	1217	60			2.0
4.	2	X	1	6.4		60	85	60			2.0
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, Fpv	Rate of Flow Q, Mcfd
1	2.372		12.7	1.000	1.146	1.000	118
2	1.279		38.3	1.000	1.146	1.000	166
3	2.453		25.5	1.000	1.146	1.000	202
4	17.09		29.6	1.000	1.146	1.000	391
5							

NO.	P _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	0.07	520	1.55	*	Dry Gas		.736	XXXXXX	627	595
2	0.05	520	1.55	*						
3	0.01	520	1.55	*						
4	0.03	520	1.55	*						
5										

NO.	P _r ²	P _w *Z	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	1416.2	2005.6	135.0		1.549	1.235
2	1360.2	1250.2	228.5			
3	1161.2	1395.2	775.1			
4	877.2	709.5	1401.1			
5						

Absolute Open Flow		502 Mcfd @ 15.025		Angle of Slope θ		Slope, n	
						0.574	

Remarks: *P _r below limits of table **Friction negligible			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bob Marshall	Hanson-Hall	M. L. Smith