

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 1/4/77			
Company Amerada Hess Corporation				Connection El Paso Nat. Gas (Not Installed)					
Pool Basin				Formation Dakota				Unit	
Completion Date 12/17/76		Total Depth 7500		Plug Back TD 7440		Elevation 6877 GL		Farm or Lease Name J. Apache "A"	
Csg. Size 5 1/2"	Wt. 15.5	d 4.950	Set At 7498	Perforations: From 7302 To 7353		Well No. 9			
Tbg. Size 1 1/2"	Wt. 1.9	d 1.610	Set At 7366	Perforations: From Open To Ended		Unit Sec. Twp. Rge. D 36 25N- 5W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L 7366	H 7366	G _g .665	% CO ₂	% N ₂	% H ₂ S	Prover	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							1062		1552		168 hrs.
1.	2"		1.250	7.5		67	947		1500		3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	637.1 *			.9933	.9498	1.0	601
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					3.4	
2.					A.P.I. Gravity of Liquid Hydrocarbons	46.5 Deg.
3.					Specific Gravity Separator Gas	.665
4.					Specific Gravity Flowing Fluid	X X X X X
5.					Critical Pressure	670 P.S.I.A.
					Critical Temperature	378 R

P _c 1564	P _c ² 2446.1	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 15.288$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.731$
NO.	P _t ²	P _w	P _w ²
1		1512	2286.1
2			
3			
4			
5			

Absolute Open Flow		4,646	Mcf/d @ 15.025	Angle of Slope	75
Remarks: * 2" orifice well Tester, 7.5 psig. Initial Test prior to gas sales.					
Approved By Commission:		Conducted By:		Calculated By:	
				Checked By: G. B. Miller	