

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 10-26-82	
Company HNG Oil Co.				Connection Llano			
Pool West Osudo				Formation Morrow		Unit	
Completion Date 6-15-82		Total Depth 13,563		Plug Back TD 13,471'		Elevation 3682.5 GR	
Csg. Size 4-1/2		Wt. 13.5		Set At 13,563		Perforations: From 13,027 To 13,198	
Thq. Size 2-7/8		Wt. 6.5		Set At 12,099		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12,123	
Producing Thru Tubing		Reservoir Temp. °F 189 @ 13,112		Mean Annual Temp. °F 68		Baro. Press. - P _a 13.2	
L 12,099		H 12,099		Cg .6273		% CO ₂ .80	
				% N ₂ .29		% H ₂ S 0	
				Prover 3.068		Meter Run Flange	

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							2716				
1.	3.068		2.250	520	8.7	102	2653	74			60 Min.
2.	3.068		2.250	560	12.3	75	2,603	74			60 Min.
3.	3.068		2.250	580	20.0	80	2,553	73			60 Min.
4.	3.068		2.250	600	27.5	82	2540	74			60 Min.
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.	28.78	68.11	533.2	.9619	1.263	1.033	2460
2.	28.78	83.97	573.2	.9859	1.263	1.052	3166
3.	28.78	108.92	593.2	.9813	1.263	1.054	4095
4.	28.78	129.86	613.2	.9706	1.263	1.056	4838
5.							

NO.	P _t	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.	.80	562	1.59	.938	40 + 01 Mcf/bbl.	51.9 Deg.			670 P.S.I.A.	368 R
2.	.86	535	1.45	.904			XXXXXXX	XXXXX		
3.	.89	540	1.47	.900						
4.	.92	542	1.47	.897						
5.										

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	3949.2	15,243	353	17.27	8.82	
2	3883.2	15,079	517			
3	3855.2	14,863	733			
4	3833.2	14,693	903			
5						

Absolute Open Flow			42,671 Mcfd @ 15.025			Angle of Slope θ			52.5			Slope, n			.764		
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Remarks: P_t substituted for P_t - Measured with Amerada Instrument No. 34515
 0 - 8000# Element

Approved By Commission:	Conducted By: 	Calculated By: Spruell	Checked By: Pyle
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NOV 3 1982
C.C.D.
HOBBS OFFICE