

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

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

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 2-21-73		MAY 16 1973					
Company J.M. Huber Corporation				Connection O.C.D.							
Pool South Carlsbad <i>Morrow</i>				Formation Morrow				Unit ARTESIA, D.P.			
Completion Date 2-21-73		Total Depth 11,951		Plug Back TD 11,669		Elevation GL 3273.8		Farm or Lease Name Terra State			
Casing Size 7 5/8 4 1/2	Wt. 26.4 11.6	d 6.969 4.000	Set At 9723 11932	Perforations: From 11,381 To 11,650				Well No. 1			
Tbg. Size 2 1/2	Wt. 6.5	d 2.441	Set At 11,359	Perforations: From To Open End				Unit 14	Sec. 23S	Twp. 26E	Rge.
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual 2 Gas						Packer Set At 11,359		County Eddy			
Producing Thru Tbg.		Reservoir Temp. °F # 197		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico			
L 11359	H 11359	Gg 0.570	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	Taps 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							3895.0				120
1.	4	x	2,250	215.0	20"	102	3722.0				1
2.	"	"	"	374.0	33"	90	3526.0				1
3.	"	"	"	480.0	45"	89	3296.0				1
4.	"	"	"	581.0	61"	86	2986.0				1
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.	25.64	67.56	228.2	0.9619	1.325	1.013	2237				
2.	"	113.0	387.2	0.9723	"	1.024	3822				
3.	"	149.0	493.2	0.9732	"	1.031	5079				
4.	"	190.4	594.2	0.9759	"	1.038	6552				
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.	0.34	562	1.62	0.974	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	0.58	550	1.59	0.953	Specific Gravity Separator Gas 0.570		XXXXXXXXXX				
3.	0.73	549	1.59	0.941	Specific Gravity Flowing Fluid XXXXX						
4.	0.88	546	1.58	0.929	Critical Pressure 672 P.S.I.A.		P.S.I.A.				
5.					Critical Temperature 346 R		R				
P _c 3908.2	P _c ² 15274.0										
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.947$						
1.		3760.6	14142.1	1131.9	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.196$						
2.		3591.0	12895.3	2378.7							
3.		3420.9	11702.6	3571.4	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,388$						
4.		3176.6	10090.8	5183.2							
5.											
Absolute Open Flow 14,388 Mcfd @ 15.025				Angle of Slope @ 54				Slope, n 0.728			
Remarks:											
Approved By Commission:			Conducted By: Paul E. Powers			Calculated By: Paul E. Powers			Checked By:		