

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78C/SF
C-122 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-10-82		MAR 17 1982	
Company Hondo Oil and Gas Company ✓		Connection None		O. C. D.	
Pool North Turkey Track Morrow		Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3-9-82		Total Depth 11164		Plug Back TD 11066	
Elevation G.L. 3528.3		Farm or Lease Name State BW		Well No. 1	
Csg. Size 5 1/2	Wt. 17#	d 4.892"	Set At 11116	Perforations: From 10852 To 10862	
Trq. Size 2 3/8"	Wt. 4.7#	d 1.995"	Set At 10778	Perforations: From 10778 To 10781	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas Well				Packer Set At 10775	
Producing Thru Tubing		Reservoir Temp. °F 145° 11164		Mean Annual Temp. °F 60°	
Baro. Press. - P _b 13.2 psia		State New Mexico		County Eddy	
L 10778	H 10778	G _g .630	% CO ₂ .55	% N ₂ .36	% H ₂ S -0-
Prover		Meter Run 3"		Taps Flg.	

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.	
SI							2220			
1.	3 x 1.5			264	8.25	83	1905	71	Pkr.	
2.	3 x 1.5			275	17.0	86	1821	75	Pkr.	
3.	3 x 1.5			274	36.0	85	1584	76	Pkr.	
4.	3 x 1.5			272	58.25	83	1320	78	Pkr.	
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	11.13	47.82	277.2	.9786	1.260	1.022	670
2	11.13	70.0	288.2	.9759	1.260	1.023	980
3	11.13	101.68	287.2	.9768	1.260	1.023	1425
4	11.13	128.89	285.2	.9786	1.260	1.023	1810
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	.41	543	1.49	.957	56.7 @ 60°	.630	X X X X X X X X	X X X X X	673	364
2	.43	546	1.50	.956						
3	.43	545	1.50	.956						
4	.42	543	1.49	.956						
5										

NO.	P _w	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	2669.2	7124.6	2393.9	2.052	1.954
2	2525.2	6376.6	3141.9		
3	2209.2	4880.6	4637.9		
4	1864.2	3475.2	6043.3		
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2785$

Absolute Open Flow	2785	Mcfd @ 15.025	Angle of Slope @	46° 0'	Slope, n	.932
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Remarks: *BHP measured at mid point of perforations @ 10,857
Produced 6 bbls. distillate/0 bbls. water

Approved By Division	Conducted By: Cecil Johnson	Calculated By: James Cogburn	Checked By: Larry Henson
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