

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 7-29-82		AUG 4 1982		
Company Hondo Oil and Gas Company				Connection Cabot Corporation				O. C. D. ARTESIA, OFFICE	
Pool North Turkey Track Morrow				Formation Morrow				Unit	
Completion Date 3-9-82		Total Depth 11164		Plug Back TD 11066		Elevation G.L. 3528.3		Farm or Lease Name State BW	
Coq. Size 5.5	Wt. 17	d 4.892	Set At 11116	Perforations: From 10852 To 10862		Well No. 1			
Eq. Size 2.375	Wt. 4.7	d 1.995	Set At 10778	Perforations: From 10778 To 10781		Unit Sec. Twp. Rge. H 27 18S 28E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas Well					Packer Set At 10775		County Eddy		
Producing Thru Tbg.		Reservoir Temp. °F 145 @ 11164		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2 PSIA		State New Mexico	
L 10778	H 10778	Gg .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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2005		Pkr.		44 Hrs.
1.	3 x 1.5			538	3.24	62	1840	73			1 Hr.
2.	3 x 1.5			553	14.82	73	1590	74			1 Hr.
3.	3 x 1.5			564	23.04	77	1455	76			1 Hr.
4.	3 x 1.5			574	38.44	81	1172	75			1 Hr.
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	11.13	42.26	551.2	.9981	1.260	1.052	622
2	11.13	91.60	566.2	.9877	1.260	1.049	1331
3	11.13	115.32	577.2	.9840	1.260	1.048	1668
4	11.13	150.24	587.2	.9804	1.260	1.047	2163
5							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.82	522	1.43	.904	A.P.I. Gravity of Liquid Hydrocarbons 58.4 @ 60° Deg.
2	.84	533	1.46	.908	Specific Gravity Separator Gas .630 X X X X X X X X
3	.86	537	1.48	.911	Specific Gravity Flowing Fluid X X X X X
4	.87	541	1.49	.912	Critical Pressure 673 P.S.I.A. P.S.I.A.
5					Critical Temperature 364 R R

NO.	P_c^2	P_w^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	2553.2	6518.83	1155.18	1.627	1.552
2	2220.2	4929.29	2744.72		
3	2036.2	4146.11	3527.90		
4	1719.3	2956.0	4718.01		
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Absolute Open Flow 3356 Mcfd @ 15.025		Angle of Slope @ 47° 55'		Slope, n .903	
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Remarks: *BHP measured at mid point. Perforations @ 10857. Produced .5 bbls. water and 4 bbls. distillate. API gravity 58.4 @ 60° 23 Hr. S.I. after 4 Pt. 2782.2 PSIA.	
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Approved By Division	Conducted By: Cecil Johnson	Calculated By: James Cogburn	Checked By: Steve Smith
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