

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 2/18/83		MAR 11 1983	
Company Hondo Oil & Gas Company L		Connection Conoco Inc.			
Prod. N. Turkey Track Morrow		Formation Morrow		Unit O. C. D.	
Completion Date 8/2/82		Total Depth 11425		Plug Back TD 11326	
Casing Size 5.5		Set At 11425		Elevation 3421.4 GR	
Trg. Size 2.375		Set At 11001		Perforations: From 11136 To 11167	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11001		Farm or Lease Name Turkey 4 State	
Producing Thru TBG		Reservoir Temp. °F 175 11152		Mean Annual Temp. °F 60	
Baro. Press. - P ₀ 13.2		State New Mexico		County Eddy	
L 11001		H 11001		G _g 648	
% CO ₂ -----		% N ₂ -----		% H ₂ S -----	
Prover 2"		Meter Run Flg		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
1	2 x 1.250			415	3.6	77	1720	64	PKR		1hr
2	2 x 1.250			418	4.8	76	1670	68	"		1hr
3	2 x 1.250			425	12.5	75	1565	70	"		1hr
4	2 x 1.250			433	19.8	78	1470	70	"		1hr
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	8.120	39.26	428.2	.9840	1.242	1.040	405
2	8.120	45.49	431.2	.9850	1.242	1.040	472
3	8.120	74.01	438.2	.9859	1.242	1.041	766
4	8.120	93.99	446.2	.9831	1.242	1.040	969
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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	.64	537	1.44	.925	180.9	54.6 @ 60°	.648	X X X X X X X X	670	372
2	.64	536	1.44	.925				X X X X X		
3	.65	535	1.44	.923						
4	.67	538	1.45	.924						
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	2399.2	5756.2	415.05	3.29	2.006	
2	2341.2	5481.2	690.0			
3	2222.2	4938.2	1233.0			
4	2973.2	4298.2	1873.0			
5						

Absolute Open Flow 1944 Mcfd @ 15.025		Angle of Slope 59° 43'		Slope, n .584	
Remarks: *BHP Measured at mid point of perforations @ 11152 (Via Bomb) Produced 2.4 BBLs Distillate					
Approved By Division		Conducted By: L. R. Sutton		Checked By: J. Cogburn	