

OCT 15 1974

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 10-7-74			
Company: HONDO DRILLING COMPANY				Connection: TO AIR				O.C.C. ARTESIA, OFFICE	
Pool: WILDCAT				Formation: MORROW				Unit:	
Completion Date: 8-13-74		Total Depth: 11,515'		Plug Back TD: 11,247'		Elevation: K.B.3379'		Farm or Lease Name: UNION STATE TX#11COM.	
Coq. Size: 5 1/2"	Wt.: 17-20	d:	Set At: 11,515'	Perforations: From 11,144' To 11,202'		Well No.: 1			
Teg. Size: 2 3/8"	Wt.: 4.7	d:	Set At: 11,080'	Perforations: From OPEN To ENDED		Unit: N Sec. 17 Twp. 19S Rge. 29E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE						Packer Set At: 11,080'		County: EDDY	
Producing Thru TUBING		Reservoir Temp. °F: 186° @ 11,080'		Mean Annual Temp. °F: 60°		Baro. Press. - P _a : 13.2		State: NEW MEXICO	
L: 11,080	H: 11,080	Gg: 0.6438	% CO ₂ : 2.57	% N ₂ : 0.48	% H ₂ S: -0-	Prover: -----	Meter Run: 3"	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	L-10 CHART READINGS					3339.0	PACKER		CHOKE		
1.	3 x 1.50			5.90	2.00	66	3044.0	65		6/64	60 MIN.
2.	3 x 1.50			5.95	3.60	60	2712.0	65		9/64	60 MIN.
3.	3 x 1.50			5.85	4.60	64	2390.0	66		11/64	60 MIN.
4.	3 x 1.50			5.90	6.20	67	1828.0	66		14/64	60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	L-10 METER FACTOR	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.13	3.873	535.4	.9943	1.246	1.050	662
2	11.13	3.873	544.2	1.0000	1.246	1.054	1213
3	11.13	3.873	526.5	.9962	1.246	1.051	1513
4	11.13	3.873	535.4	.9933	1.246	1.050	2049
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio: 57692 Mcf/bbl.
1	0.79	526	1.43	.907	A.P.I. Gravity of Liquid Hydrocarbons: 57.1 Deg.
2	0.80	520	1.41	.901	Specific Gravity Separator Gas: 0.6438 X X X X X X X X
3	0.78	524	1.42	.905	Specific Gravity Flowing Fluid: X X X X X
4	0.79	527	1.43	.907	Critical Pressure: 678 P.S.I.A. Critical Temperature: 369 P.S.I.A.
5					

P _c 3352.2 P _c ² 11237		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4575$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3599$	
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	
1	9346.5	3047.2	9285	1952	
2	7426.7	2737.8	7496	3741	
3	5775.4	2421.5	5864	5373	
4	3390.0	1877.9	3527	7710	
5					

Absolute Open Flow: 2786 Mcfd @ 15.025		Angle of Slope θ: 50.8		Slope, n: 0.816	
Remarks: L-10 CHART 100"-1500" METER					
Approved By Commission: Conducted By: DON TYSON Calculated By: ROY WEST Checked By: J.W.W.					