c/SF
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O. C. D.
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W MEXICO OIL CONSERVATION CO SION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 1-21-85	
Company: Hondo Oil & Gas Company	Connection: None		
Pool: ~~Undesignated~~ S. Empire Morrow	Formation: Morrow		Unit
Completion Date: 1-16-85	Total Depth: 10950	Plug Back TD: 10866	Elevation: 3636.8 GL
Farm or Lease Name: Federal 11			
Csg. Size: 5½" / Wt.: 17 / d: 4.892 / Set At: 10950	Perforations: From 10721 To 10728	Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 10648	Perforations: From 10763 To 10765	Unit: F / Sec.: 11 / Twp.: 18S / Rge.: 28E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 10648	County: Eddy	
Producing Thru: Tbg.	Reservoir Temp. °F: 149° @ 10900	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10648	10648	.650	.423	.414	-0-		4"	Flg.

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					3171		Pkr.		67
1.	4" x 1.0"	514	6	64	3059	55			1 Hr.
2.	4" x 1.0"	520	9	58	3020	58			1 Hr.
3.	4" x 1.0"	498	20	63	2860	61			1 Hr.
4.	4" x 1.0"	498	27	62	2822	62			1 Hr.
5.	4" x 1.0"	500	43	63	2695	65			1 Hr.

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	56.24	527.2	.9962	1.240	1.054	348
2	4.753	69.27	533.2	1.002	1.240	1.058	433
3	4.753	101.11	511.2	.9971	1.240	1.054	626
4	4.753	117.48	511.2	.9981	1.240	1.054	728
5	4.753	148.55	513.2	.9971	1.240	1.054	920

NO.	P_t	Temp. °R	T_r	Z
1	.79	524	1.40	.900
2	.80	518	1.38	.893
3	.76	523	1.39	.901
4	.76	522	1.39	.901
5	.77	523	1.39	.900

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57.7 Deg.
Specific Gravity Separator Gas .650 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 375 R _____ R

*P_c 4249.2 P_c^2 18055.7

NO	P_t^2	*P_w	P_w^2	$P_c^2 - P_w^2$
1		4236.2	17945.4	110.3
2		4178.2	17457.4	598.3
3		4103.2	16836.3	1219.4
4		4040.2	16323.2	1732.5
5		3913.2	15313.1	2742.6

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.583$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.590$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2383$

Post TD-2
2-22-85
Comp PK

Absolute Open Flow 2383 Mcfd @ 15.025 | Angle of Slope θ 63° 12' | Slope, n .505

Remarks: *Bottom hole pressure @ 10743 via bomb.
Well produced 3 bbls. cond. and 0 bbls. water during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jack Lane	J. Cogburn	L. Ray Sutton