N MEXICO OIL CONSERVATION COMM ION
MULTIPOINT AND ONE POINT BACK PRESSURE TE FOR GAS WELL

File 122

Form C-122
Revised 9-1-65

RECEIVED
OCT 12 1979
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-8-79					
Company: Hondo Oil & Gas Company				Connection: Not Connected					
Pool: Undesignated				Formation: Morrow					
Completion Date: 10-2-79		Total Depth: 10506		Plug Back TD: 10415		Elevation: 3634 GR		Farm or Lease Name: Exxon State	
Csg. Size: 4.5	Wt.: 11.6	d: 4.000	Set At: 10426	Perforations: From 10350	To 10390			Well No.: 2	
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 10299	Perforations: From Open	To Ended			Unit: F	Sec.: 9	Twp.: 18S	Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: 10262				County: Eddy	
Producing Thru: Tbg.	Reservoir Temp. °F: 162 @ 10370		Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2				State: New Mexico	
L: 10262	H: 10262	Gg: 0.631	% CO_2: 0.52	% N_2: 0.48	% H_2S: –	Prover: –	Meter Run: 4"	Taps: 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					3065		Pkr.		162 Hrs.
1.	4 x 1.25	200	8	83	2434				1 Hr.
2.	4 x 1.25	203	14.3	98	2238				1 Hr.
3.	4 x 1.25	203	24.5	97	1919				1 Hr.
4.	4 x 1.25	229	41.6	94	1331				1 Hr.
5.									

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	7.469	41.30	213.2	0.9786	1.265	1.017	388
2.	7.469	55.60	216.2	0.9653	1.265	1.015	515
3.	7.469	72.78	216.2	0.9662	1.265	1.015	674
4.	7.469	100.38	242.2	0.9688	1.265	1.018	935
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.32	543	1.50	0.967
2.	0.32	558	1.55	0.971
3.	0.32	557	1.54	0.970
4.	0.36	554	1.53	0.965
5.				

Gas Liquid Hydrocarbon Ratio 108 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.5 Deg.
Specific Gravity Separator Gas 0.631 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.659
Critical Pressure 674 P.S.I.A. 673 P.S.I.A.
Critical Temperature 361 R 371 R

P_c 4106.2 P_c^2 16860.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3370.2	11358.2	5502.7
2		3130.2	9798.2	7062.7
3		2714.2	7366.9	9494.0
4		1929.2	3721.8	13139.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2833$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2833$

AOF = $Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1200$

Posted 2D2 + Base 10-22-79

Absolute Open Flow 1200 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.0000

Remarks: B.H.P. at mid point of perforations 10370. Produced 1 Bbl. distillate. Gravity 52.5 @ 60°F.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R. Dailey	J. Cogburn	L.C. Hudry