

N MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST R GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-12-70	
Company Humble Oil and Refining Co.		Connection None	
Pool Eumont		Formation Eumont	
Completion Date	Total Depth	Plug Back TD	Elevation
Farm or Lease Name State G		Well No. 5	
Csg. Size 5 1/2	Wt. d	Set At 3718	Perforations: From 3648 To 3718
Tbg. Size 2 3/8	Wt. 4.7	Set At 3596	Perforations: From 3590 To 3596
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Tbg.		Baro. Press. - P _g	
Reservoir Temp. °F @		Mean Annual Temp. °F	
State New Mexico		County Lea	
L	H	G _g	% CO ₂ % N ₂ % H ₂ S Prover
.695		Meter Run X	
Flg.		Taps	

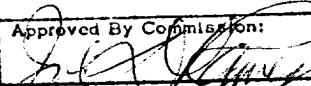
FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							145.2		145.2		72
1.	2"	X	1.000	49.2	4.00	50	130.2		143.2		1
2.	2"	X	1.000	49.2	12.25	52	122.2		140.2		1
3.	2"	X	1.000	50.2	22.09	55	116.2		135.2		1
4.	2"	X	1.000	52.2	30.25	54	103.2		126.2		1
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	4.946	14.03		1.010	1.200	Nil	84.1
2	4.946	24.55		1.008	1.200	Nil	146.9
3	4.946	33.30		1.005	1.200	Nil	198.6
4	4.946	39.74		1.006	1.200	Nil	237.4
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	----	Deg.
2.					Specific Gravity Separator Gas	.695	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	----
4.					Critical Pressure	669	P.S.I.A.
5.					Critical Temperature	388	R

P _t 145.2	P _w 21.1	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 15.07$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.882$
NO.	P _t ²	P _w ²	P _t ² - P _w ²
1	143.2	20.5	0.6
2	140.2	19.7	1.4
3	135.2	18.	2.8
4	126.2	15.9	5.2
5			

Absolute Open Flow 570 Mcfd @ 15.025		Angle of Slope θ 63.5	Slope, n .500
Remarks: Wellhead potential = 270 mcf/d with slope n = .500			

Approved By Commission: 	Conducted By: J. B. Murray	Calculated By: J. B. Murray	Checked By: 
---	-------------------------------	--------------------------------	--

HUMBLE OIL & REFINING COMPANY
Unit Head

RECEIVED

JUN 9 1970

OIL CONTROL - 100% COMPL.
HODGES, N. C.