

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3/18/88	
Company Union Texas Petroleum Corp.		Connection Union Texas Petroleum Corp.	
Pool Otero		Formation Chacra	
Completion Date 3/8/88		Total Depth 6525	Plug Back TD 3003
		Elevation 5783 G.L.	Form or Lease Name Angel Peak
Cas. Size 5.500	Wt. 15.5	d 6525	Perforations: From 2838 To 2959
Thg. Size 2.375	Wt. 4.7	d 1.995	2832
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing thru Tubing		Reservoir Temp. °F 8	Mean Annual Temp. °F 12
Baro. Press. - P _a 12		State New Mexico	
L	H	G _g	% CO ₂
			% N ₂
			% H ₂ S
			Prover
			Meter Run
			Tape

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	2"		3/4"				908		908		7 Days
1.							84	62°	339	62°	3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		96	0.9981	0.9427	1.010	1128
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _r ²	P _w ²	R _r ²	R _w ²	(1) $\frac{P_r^2}{R_r^2 - R_w^2} =$	(2) $\left[\frac{R_r^2}{R_r^2 - R_w^2} \right]^n =$
1		351	123,201	723,199	1.1704	1.1252
2						
3						
4						
5						

Absolute Open Flow 1269 Mcfd @ 15.025 Angle of Slope @ 0.75 Slope, n 0.75

Remarks: Heavy mist of water

Approved By Division	Conducted By: John C. Rector	Calculated By: John C. Rector	Checked By:
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