

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

RECEIVED

APR 23 1987

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/22/87	
Company Union Texas Petroleum Corp.		Connection Union Texas Petroleum Corp.	
Pool Aztec		Formation Fruitland	
Completion Date 4/14/87		Total Depth 1510	Plug Back TD 1478
Elevation 5524 GL		Farm or Lease Name Mangum	
Csg. Size 2.875	Wt. 6.4	d 2.441	Set At
Perforations: From 1396 To 1413		Well No. 9	
Tng. Size	Wt.	d	Set At
Perforations: From To		Unit Sec. Twp. Rge. 0 28 29N 11W	
Type Well - Single - Bradenhead - G.C. or G.C. Multiple Single - Gas		Packer Set At	
Producing Thru Casing		County San Juan	
Reservoir Temp. °F 8		State New Mexico	
Mean Annual Temp. °F 12		Baro. Press. - P _g	
L 1396	H	G _g 0.690	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		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	2"		3/4"						386		7 Days
1.									174	64°	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		186	0.9962	0.9325	1.020	2179
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 _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	398	158.404	211	44,521
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.3909$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.3237$	
AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2884$			

Absolute Open Flow	2884	Mcf @ 15.025	Angle of Slope @	Slope, n	0.85
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Remarks:			
Approved By Division	Conducted By:	Calculated By:	Checked By: