

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		12/17/84	
Company				Connection							
Union Texas Petroleum Corp.				Gas Company of New Mexico							
Pool				Formation							
Basin				Dakota							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
8/10/84		7140		7094		6649		Jicarilla "N"			
Csg. Size	Wt.	d	Set At	Perforations:		Well No.					
4.500	11.60	4.000	7140	From 6914 To 6988		1-E					
Tng. Size	Wt.	d	Set At	Perforations:		Unit Sec. Twp. R12E					
2.375	4.70	1.995	6993	From 6932 To 6938		0 4 24N 5W					
Type Well - Single - Brdenhead - G.G. or G.O. Multiple						Packer Set At		County			
Single						NA		Rio Arriba			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
Tubing		8				12		New Mexico			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
6921		0.650									
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	Duration of Flow
SI	2"		3/4"				1564		1555		14 days
1.							87	59°	398		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		99	1.0010	0.9608	1.000	1177				
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						
$P_c = 1576$ $P_c^2 = 2,483,776$											
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0726$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0539$						
1		410	168,100	2,315,676							
2											
3											
4											
5											
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1240$											
Absolute Open Flow <u>1240</u> Mcfd @ 15.025 Angle of Slope θ _____ Slope, n <u>0.75</u>											
Remarks: _____											
Approved By Division _____ Conducted By: <u>Bruce Voiles</u> Calculated By: <u>Ken Roddy</u> Checked By: _____											