

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL.

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		9-8-81									
Company				Connection															
Pioneer Production Corp.																			
Pool				Basin Dakota				Formation				Dakota							
Completion Date				Total Depth				Plug Back TD				Elevation							
6-13-81				6152'				'6090'				5396' GL							
Csg. Size				Wt.		d		Set At		Perforations		Well No.							
4 1/2"				11.6#		4.000		6140'		From 5901 To 6028		1E							
Tub. Size				Wt.		d		Set At		Perforations		Unit Sec. Twp. Rge.							
1 1/2"				2.3#		1.380		5837'		From open end To		F 31 29N 11W							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple								Packer Set At				County							
G/G Dual								4200' RKB				San Juan							
Producing thru				Reservoir Temp. °F				Mean Annual Temp. °F				Baro. Press. - P _a							
tbq.												State							
												NM							
L		H		Gg		% 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	Press. p.s.i.g.	Temp. °F							
1.	SEE REVERSE FOR RESULTS OF BACK PRESSURE TEST ON DAKOTA FORMATION.																		
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mgd												
1.																			
2.																			
3.																			
4.																			
5.																			
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ XXXXXXXXXX Specific Gravity Flowing Fluid _____ XXXXX Critical Pressure _____ P.S.I.A. Critical Temperature _____ R														
1.																			
2.																			
3.																			
4.																			
5.																			
NO.	P _f	P _w	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$ _____ (2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$ _____ AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$ _____														
1.																			
2.																			
3.																			
4.																			
5.																			
Absolute Open Flow _____ Mgd @ 15.025					Angle of Slope @ _____					Slope, n _____									
Remarks: _____																			
Approved By Division				Conducted By:				Calculated By:				Checked By:							

PIONEER PRODUCTION CORP.
Hartman #1E - Dakota

	<u>Dakota Tubing</u>	<u>MCFGPD</u>	<u>Chacra Tubing</u>	<u>Casing</u>	<u>Choke</u>
Shut In	1000 psi		800 psi	450 psi	
10:00 a.m.	660	1367	800	450	100
11:00 a.m.	550	915	800	450	63
12:00 noon	390	1025	800	450	72
1:00 p.m.	390	976	800	450	68
2:00 p.m.	260	1086	800	450	77
3:00 p.m.	230	915	800	450	63
4:00 p.m.	235	940	800	450	65
5:00 p.m.	220	915	800	450	63

Tank gauge 7" = 12 bbls. oil in eight hours

3/4" plate

CAOF after 8 hrs. 953 MFCPD

Handwritten notes:
to be
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