

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		7-23-85	
Company				Connection							
Amoco Production Co.				El Paso Natural Gas Co.							
Pool				Formation				Unit			
Basin				Dakota							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
7-8-85		6441		6398		6050 GR		Gallegos Canyon Unit			
Coq. Size	Wt.	d	Set At	Perforations:		Well No.					
7.000	23	6.366	6441	From 6212 To 6314		157E					
Thq. Size	Wt.	d	Set At	Perforations:		Unit		Sec.	Twp.	Rge.	
2.375	4.7	1.995	6319	From open To ended		E		35	28	13	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple						Packer Set At		County			
Single						None		San Juan			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
tubing		P						New Mexico			
L	H	Gq	% 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	7 days						1490		1580		
1.	2.375		.500				548		926		3 hrs.
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	5.4315		560	1.000	.9258	1.053	2965				
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio		A.P.I. Gravity of Liquid Hydrocarbons		Mc/bbl.		
1									AUG 09 1985		
2.					Specific Gravity Separator Gas		OIL CON. DIV		XXXXXX		
3.					Specific Gravity Flowing Fluid		XXXXXX		DIST.?		
4.					Critical Pressure		P.S.I.A.		R		
5.					Critical Temperature		R		R		
$P_c = 1592$ $P_c^2 = 2534464$											
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5317$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1994$				
1		938	879844	1654620							
2											
3											
4											
5											
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3556$											
Absolute Open Flow						3556			Mcf/d @ 15.025		
Angle of Slope						75			Slope, n = 75		
Remarks: Flared, Lite H2O, Lite oil											
Approved By Division				Conducted By:				Calculated By:			
								Checked By: 6			