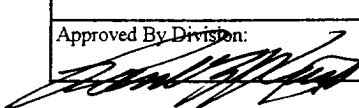


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator NADEL AND GUESSMAN PERMAIN					Lease or Unit Name HULDA					
Type Test ☒ Initial ☐ Annual ☐ Special							Test Date 9/2/00		Well No. 1	
Completion Date			Total Depth 12218		Plug Back TD 12077		Elevation		Unit Ltr - Sec - TWP - Rge N 4 16S 35E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12218		Perforations: From: 11958 To: 12012			County LEA		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11916		Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 11916			Formation MORROW		
Producing Thru TUBING		Reservoir Temp. °F 177.9		Mean Annual Temp. °F 60		Baro. Press. -P _s 13.2			Connection SALES	
L 11916	H 11916	Gg 0.695	%CO ₂ 0.413	%N ₂ 0.836	%H ₂ S N/A	Prover N/A	Meter Run 3.067		Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA		
No.	Prover Line Size	Orifice x 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						4120	N/A	PKR	N/A	
1	3.068 X 1.125		319	1.1	86	3751				1 HR
2	3.068 X 1.125		321	5.2	80	3380				1 HR
3	3.068 X 1.125		321	3.4	75	3040				1 HR
4	3.068 X 1.125		323	50	81	2490				1 HR
5										
RATE OF FLOW CALCULATIONS										
No.	COEFFICIENT (24 Hour)		✓ 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									109	
2	GAS VOLUMES		TAKEN	FROM	TOTAL	FLOW	METER		236	
3									326	
4									714	
5										
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 14.427 Mcf bbl.					
1					A.P. I. Gravity of Liquid Hydrocarbons 55.5 Deg.					
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.695 XXXXXXXX					
3					Specific Gravity Flowing Fluid XXXXXX					
4					Critical Pressure 672 P.S.I.A. P.S.I.A.					
5					Critical Temperature 384 R. R.					
P _c 4702.5 P _{c2} 22113.5										
No.	P _i ²	P _w	P _w ²	P _c ² -P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.802}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.802}{\quad}$					
1		4435.9	19677.2	2436.3	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{681}{\quad}$					
2		4110.8	16898.7	5214						
3		3915	15327.2	6786.3						
4		3138	9847	1226.5						
5										
Absolute Open Flow 1286.6 Mcfd @ 15.025					Angle of Slope (°): 45		Slope n: 1			
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES / * WELL MADE 4 BBLS OF 55.5 API GRAVITY CONDENSATE										
Approved By Division: 			Conducted By: PRO WELL TESTING			Calculated By: MB			Checked By: BM	

Geologist

OCT 31 2000