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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 OCEAN ENERGY					Lease or Unit Name HARROD 9587				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/21/01		Well No. 2		
Completion Date		Total Depth 12466		Plug Back TD 12214		Elevation		Unit Ltr - Sec - TWP - Rge 9 16S 35E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12466	Perforations: From: 11910 To: 11932			County LEA		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11827	Perforations: From: To:			Pool SPOE BAR ATOKA KATH (GAS)		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11827			Formation ATOKA		
Producing Thru TUBING		Reservoir Temp. °F 178		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
I. 12050	H 12050	Gg 0.636	%CO ₂ 0.025	%N ₂ 1.121	%H ₂ S N/A	Prover N/A	Meter Run 2.067	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
SI						920	N/A	PKR	N/A
1		2.067 X	350	2.9	84	910			1 HR.
2		2.067 X	352	6.8	90	890			1 HR.
3		2.067 X	355	13.7	94	810			1 HR.
4		2.067 X	361	29.7	95	710			1 HR.
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								326	
2	GAS		VOLUMES	FROM	TOTAL	FLOW	METER	498	
3								718	
4								1049	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons _____ Deg.				
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.636 XXXXXXXX				
3					Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 673 P.S.I.A. _____ P.S.I.A.				
5					Critical Temperature 364 R. _____ R				
P _c 987 P _{c2} 974.2									
No.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.15}{\quad} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.67}{\quad}$				
1		946.1	895.1	79.1	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1678}{\quad}$				
2		906.1	821	153.2					
3		846.3	716.2	258					
4		722.9	522.6	451.6					
5									
Absolute Open Flow 1678 Mcfd @ 15.025					Angle of Slope (°): 56		Slope n: 0.674		
Remarks: * WELL NO LIQUID DURING TEST. CALCULED FROM KNOWN BOTTOM HOLE PRESSURES.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	