

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

C/SF

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator RICKS EXPLORATION	Lease or Unit Name LANCASTER SPRINGS
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Type Test ☒ Initial ☐ Annual ☐ Special	Test Date 9/24/01	Well No. 4
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Completion Date 9/13/01	Total Depth 11870'	Plug Back TD 11233'	Elevation 3579'	Unit Ltr - Sec - TWP - Rge M 5-22S-26E
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Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11870'	Perforations: From: 11150 To: 11159	County EDDY
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Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11080	Perforations: From: To:	Pool Happy Valley Morrow
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Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE	Packer Set At 11080	Formation MORROW
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Producing Thru Tubing 193	Reservoir Temp. °F 60	Mean Annual Temp. °F 13.2	Baro. Press. - P _a SALES
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L 11080	H 11080	Gg 0.582	%CO ₂ 0.667	%N ₂ 0.863	%H ₂ S N/A	Prover N/A	Meter Run 4.026	Taps FLG
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FLOW DATA				TUBING DATA				CASING DATA		Duration of Flow
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						2850	N/A	PKR	N/A	
1	4.026 X 1.750		453	27.8	68	2600				24 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							2256
2							
3	TOTAL	FLOW	METER				
4							
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	N/A	Deg.
2					Specific Gravity Separator Gas	0.582	XXXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	675	P.S.I.A. P.S.I.A.
5					Critical Temperature	350	R. R.

P _c	2863.2	P _{c2}	8197.9	
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	6828.8	2625.4	6892.5	1305.5
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{6.28}{6.28} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{6.28}{6.28}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14.167$$

Absolute Open Flow 14.167	Mcf/d @ 15.025	Angle of Slope (°): 45	Slope n: 1
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Remarks: *** NO LIQUID MADE DURING TEST.**

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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