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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Santa Fe Energy Resources, Inc.					Lease or Unit Name Farewell "18" Fed Com				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 6/26/95		Well No. 1		
Completion Date 6/23/95		Total Depth 12,156'		Plug Back TD 11,810' (CIBP)		Elevation 3,785' KB		Unit Ltr. - Sec. - TWP - Rge. D 18, 22S, 26E	
Csg. Size 5-1/2"	Wt. 17#	d 4.892"	Set At 12,156'	Perforations: 11,668' From: 11,407' To: 11,768"			County Eddy		
Tbg. Size 2-3/8"	Wt. 4.6#	d 1.995"	Set At 11,323'	Perforations: From: To:			Pool Wildcat		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,293'			Formation Morrow		
Producing Thru Tubing		Reservoir Temp. F 167 @ TD		Mean Annual Temp. F 60		Baro. Press - Pa 13.2		Connection Vented	
L 11,323'	H 11,323'	Cg 0.617	%CO2 1.47	%N2 5.66	%H2S -	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. hw	Temp. F	Press. p.s.i.g.	Temp. F	Press. p.s.i.g.		Temp. F
SI	Flow through 2" line pipe to pit									
1.		8/64"			70	2882	70	80	70	SI
2.		10/64"			70	1379	70	80	70	1 hr
3.		12/64"			75	278	75	80	75	1 hr
4.		14/64"			80	196	80	80	80	1 hr
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOURS)	* hwPm	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F pv	Rate of Flow Q, Mcfd
1.	0.2416			0.9905	1.273	1.0	420
2.	0.3885			0.9905	1.273	1.0	235
3.	0.5725			0.9859	1.273	1.0	200
4.	0.7924			0.9813	1.273	1.0	194
5.							

NO.	Pr	Temp. R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid	G. Mix =
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

Pc	2895	Pc	8382.2
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NO.	Pt ²	Pw	Pw ²	Pc ² - Pw ²	1) $\frac{Pc^2}{Pc^2 - Pw^2} =$	2) $\frac{Pc^2}{Pc^2 - Pw^2} =$
1.		1392.2	1938	6444	1.30	1.300
2.		493.2	243.7	8139		
3.		291.2	84.8	8297		
4.		209.2	43.8	8338		
5.						

Absolute Open Flow		595 (From plot)	Mcf/d @ 15.025	Angle of Slope O	45	Slope, n	1.00
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Remarks: * Choke coefficient used.	
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Approved By Division	Conducted By: Omega Engineering and Production Services	Calculated By: M. J. DeMarco	Checked By:
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