Submit in duplicate to appropriate district office
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						Lease or Unit Name: FORT SEDWICK			
Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 9-3-96		Well No.: 14	
Completion Date: 8-30-96		Total Depth: 11,350		Plug Back TD: 11,280		Elevation:		Unit Ltr. - Sec. - TWP - Rge.: 26-19S-28E	
Csg. Size: 5½	Wt.: 17	d: 4.892	Set At: 11,350	Perforations: From: 10,760	To: 11,218			County: EDDY	
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 10,697	Perforations: From:	To:			Pool: Wildcat Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 10,678				Formation: MORROW	
Producing Thru: tbg.	Reservoir Temp. °F: 167	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2				Connection: AIR	
L: 10,697	H: 10,697	Gg: .639	% CO_2: 1.10	% N_2: 1.20	% H_2S: -0-	Prover: -0-		Meter Run: 4.026	Taps: flg

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					2305				72 hr.
1.	4.026 X 1.500	95	2	92°	2090	82°	PKR		60 min
2.	4.026 X 1.500	95	8	94°	1900	84°	"		60 min
3.	4.026 X 1.500	105	29	94°	1500	88°	"		60 min
4.	4.026 X 1.500	205	30	90°	950	88°	"		60 min
5.									

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft	Gravity Factor Fg.	Super Compress. Factor, Fpv.	Rate of Flow Q, Mcfd
1.	10.84	14.71	108.2	.9706	1.251	1.009	195
2.	10.84	29.42	108.2	.9688	1.251	1.009	389
3.	10.84	58.54	118.2	.9688	1.251	1.009	776
4.	10.84	80.90	218.2	.9723	1.251	1.017	1085
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.1607	552	1.516	.983
2.	.1607	554	1.521	.982
3.	.1756	554	1.521	.982
4.	.3242	550	1.510	.967
5.				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: .639 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 673 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 364 R ____ R

P_c 2318.2 P_c^2 5374.1

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	4423.5	2103.5	4424,6	949.4
2.	3660.3	1914.4	3664.9	1709.1
3.	2289.8	1519.4	2308.5	3065.6
4.	927.8	983.2	966.7	4407.3
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.219$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.219$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.323$

Absolute Open Flow: 1.323 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks: NO FLUID MADE DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTER	MB	BM