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

OCT 27 '94

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

O. C. D.

Operator: SANTA FE ENERGY						Lease or Unit Name: LAGUNA SALADO SOUTH			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 9-9-94		Well No.: 1	
Completion Date: 7-7-94		Total Depth: 13545		Plug Back TD: 13046		Elevation		Unit Ltr. - Sec. - TWP - Rge.: 22-23S-29E	
Csg. Size: 4½	Wt.: 13.5	d: 3.920	Set At: 13629	Perforations: From: 12248	To: 12268			County: EDDY	
Tbg. Size: 2 3/8	Wt.: 4.7#	d: 1.995	Set At: 12007	Perforations: From:	To:			Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 12007'				Formation: ATOKA	
Producing Thru: TBG.	Reservoir Temp. °F: 190	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2				Connection: PIPELINE	
L: 12007	H: 12007	Gg: .575	% CO_2: .49	% N_2: .61	% H_2S:	Prover:		Meter Run: 4.026	Taps: FLG.

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	TUBING DATA: Temp. °F	CASING DATA: Press. p.s.i.g.	CASING DATA: Temp. °F	Duration of Flow
SI					5648		PKR.		
1.	4.026 X .875	420	8	91	5500		"		1 hr.
2.	4.026 X .875	430	24	93	5200		"		1 hr.
3.	4.026 X .875	430	51	90	4830		"		1 hr.
4.	4.026 X .875	440	83	87	4420		"		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 Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	3.630	58.87	433.2	.9715	1.319	1.026	281
2.	3.630	103.14	443.2	.9697	1.319	1.027	492
3.	3.630	150.34	443.2	.9723	1.319	1.027	719
4.	3.630	193.95	453.2	.9750	1.319	1.028	931
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.64	551	1.59	.950
2.	.66	553	1.60	.948
3.	.66	550	1.59	.948
4.	.67	547	1.58	.947
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .575 XXXXXXXXX
Specific Gravity Flowing Fluid: DRY XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 346 R R

P_c _____ P_c^2 _____

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		5513.8	30401.99	1647.21
2.		5214.5	27191.01	4858.19
3.		4845.9	23482.75	8566.45
4.		4437.7	19693.18	12356.02
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.59381$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.99385$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,856$

Absolute Open Flow: 1,856 Mcfd @ 15.025 | Angle of Slope θ: 54° | Slope, n: .724

Remarks: NO FLUID MADE DURING TEST.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTER	K.S.	B.M.