Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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ARTESIA, OFFICE

Form C-122
Revised 4-1-91

clsr File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: ENRON OIL AND GAS COMPANY					Lease or Unit Name: CEDAR LAKE 35 FEDERAL COM			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 10/30/92		Well No.: 1	
Completion Date: 6/9/92		Total Depth: 12500		Plug Back TD: 12335	Elevation: 3548 GL		Unit Ltr. - Sec. - TWP - Rge.: B 35 17S 30E	
Csg. Size: 5½	Wt.: 17#	d: 4.892	Set At: 12500	Perforations: From: 11,188	To: 11,234		County: EDDY	
Tbg. Size: 2 7/8	Wt.: 6.5#	d: 2.441	Set At: 10834	Perforations: From: OPEN	To: ENDED		Pool: ~~Wildcat~~ Cedar Lake Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 10832			Formation: MORROW LOWER	
Producing Thru: TBG	Reservoir Temp. °F: 166°@10853	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2			Connection: CONOCO	
L: 10853	H: 10853	Gg: .671	% CO_2: .49	% N_2: .52	% H_2S:	Prover:	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					3439	60	PKR		1.5 HRS
1.	4.026 X 2.750	345	8.7	96	3377	"			1 HR
2.	4.026 X 2.750	360	45.6	82	3224	"			1 HR
3.	4.026 X 2.750	375	90.7	67	3016	"			1 HR
4.	4.026 X 2.750	390	147	61	2724	60			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.	41.10	55.82	358.2	.9671	1.221	1.032	2796
2.	41.10	130.45	373.2	.9795	1.221	1.036	6643
3.	41.10	187.64	388.2	.9933	1.221	1.041	9737
4.	41.10	243.46	403.2	.9990	1.221	1.046	12767
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.54	556	1.46	.939
2.	.56	542	1.42	.932
3.	.58	527	1.38	.922
4.	.60	521	1.36	.914
5.				

Gas Liquid Hydrocarbon Ratio 18.23 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53.5 @ 60° Deg.
Specific Gravity Separator Gas .671 *GOR .922 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. *662 P.S.I.A.
Critical Temperature 382 R *434 R

P_c 3439 P_c^2 11826.7

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3409.2	11622.6	204.1
2.		3343.1	11176.3	650.4
3.		3259.0	10621.0	1205.7
4.		3139.3	9853.3	1973.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.992$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.348$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 42,743$

Absolute Open Flow 42,743 Mcfd @ 15.025 | Angle of Slope θ 56° | Slope, n .675

Remarks: WELL PRODUCED 73 BBLS OIL DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JARREL SERVICES, INC.		GW

Betty Gildon