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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: MEWVOURNE OIL COMPANY						Lease or Unit Name: CHALK BLUFF FEDERAL COM.			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 3/4/93		Well No.: 3	
Completion Date: 1/16/93		Total Depth: 10150		Plug Back TD: 10102		Elevation: GL 3628'		Unit Ltr. - Sec. - TWP - Rge.: I 1 18S 27E	
Csg. Size: 4½	Wt.: 10.5	d: 4.052	Set At: 3600 / 10150	Perforations: From: 9950	To: 9954			County: EDDY	
Tbg. Size: 2 7/8 / 2 3/8 &	Wt.: 4.7 & / 6.5	d: 1.91 / 2.441	Set At: 9972	Perforations: From: 9957	To: 9972			Pool: MORROW / NORTH ILLINOIS Comp	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: subgke				Packer Set At: 9797				Formation: MORROW	
Producing Thru: tbg.	Reservoir Temp. °F: 133	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2				Connection: Transwestern	
L: 9950	H: 9950	Gg: .731	% CO_2: .42	% N_2: .33	% H_2S:	Prover:		Meter Run: 3.068	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					2260		Pkr.		48 hr.
1.	3 X 1.500	530	5	148	2230		"		1 hr.
2.	3 X 1.500	530	19	124	2180		"		1 hr.
3.	3 X 1.500	535	52	88	2100		"		1 hr.
4.	3 X 1.500	540	102	70	2000		"		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.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.81	608	1.52	.919
2.	.81	584	1.46	.909
3.	.82	548	1.37	.880
4.	.83	530	1.32	.865
5.				

Gas Liquid Hydrocarbon Ratio: 23.63 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 57.0 Deg.
Specific Gravity Separator Gas: .731 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX G Mix .849
Critical Pressure: 668 P.S.I.A. 664 P.S.I.A.
Critical Temperature: 401 R 441 R

P_c 2273.2 P_c^2 5167.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	5031.9	2244.7	5038.8	128.6
2.	4810.1	2199.5	4837.6	329.8
3.	4465.6	2132.7	4548.6	618.9
4.	4053.9	2055.4	4224.8	942.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.500$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14,823$

Absolute Open Flow: 14,823 Mcfd @ 15.025 | Angle of Slope θ: 49 | Slope, n: .884

Remarks: 13.3 BBLS CONDENSATE PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTERS	KS	KS