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

Form C-122
Revised 4-1-91

clsr File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: MEWBOURNE OIL COMPANY				Lease or Unit Name: CHALK BLUFF '6' St.	
Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-24-92	Well No.: 1
Completion Date: 4-16-92	Total Depth: 10151		Plug Back TD: 10151	Elevation:	Unit Ltr. - Sec. - TWP - Rge.: M 6 18 28
Csg. Size: 7" & 4½"	Wt. 26# 19.6#	d:	Set At: 10198	Perforations: From: 10084 To: 10092	County: Eddy
Tbg. Size: 2 7/8 &2 3/8	Wt. 6.5 4.7	d: 2.441 1.995	Set At: 9976	Perforations: From: To:	Pool: N. Illinoise Camp
Type Well - Single - Bradenhead - G.G. or G.O. Multiple			Packer Set At: 9976		Formation: Morrow
Producing Thru: TBG	Reservoir Temp. °F: 175 @10088	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2		Connection:

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
*10088	10088	.643	.44	.38			3.068	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					2960		PKR		72 hrs.
1.	3 X .750	430	34.00	111	2815		"		1 hr.
2.	3 X 1.000	440	40.00	102	2730		"		1 hr.
3.	3 X 1.500	435	32.00	78	2590		"		1 hr.
4.	3 X 1.750	480	49.00	54	2575		"		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, Fpv.	Rate of Flow Q, Mcfd
1.	2.672	122.76	443.2	.9543	1.247	1.035	404
2.	4.789	134.64	453.2	.9619	1.247	1.035	801
3.	11.13	119.76	448.2	.9831	1.247	1.045	1708
4.	15.61	155.46	493.2	1.006	1.247	1.058	3221
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.66	571	1.53	.934
2.	.67	562	1.51	.933
3.	.66	538	1.44	.916
4.	.73	514	1.38	.893
5.				

Gas Liquid Hydrocarbon Ratio 40.1 Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons 51.6 @60° Deg.
Specific Gravity Separator Gas .643 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. P.S.I.A.
Critical Temperature 372 R R

P_c **3129.4 P_c^2 9793.1

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	**	3073.7	9447.6	345.5
2.	**	3037.7	9227.6	565.5
3.	**	2933.4	8604.8	1188.3
4.	**	2795.9	7817.1	1976.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.956$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.956$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 15.963$

Absolute Open Flow 15,963 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.000

Remarks: * BHP Instrument Set @ this Depth
** From Known B.H.P. Calculated back to Surface
*** Well Made 6.375 BBLS 51.6 @60 Condensate & 3.0 BBLS H^2O

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM