C151

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: E.O.G. RES.			Lease or Unit Name: PHANTOM DRAW UNIT		
Type Test: ☑ Initial ☐ Annual ☐ Special				Test Date: 2/6/01	Well No.: 4
Completion Date	Total Depth: 13200		Plug Back TD: 13065	Elevation	Unit Ltr - Sec - TWP - Rge: H 30 26S 31E
Csg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 13173			Perforations: From: 12622 To: 12751		County: EDDY
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 11323			Perforations: From: To:		Pool: Phantom Draw Wlfcp Gas
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE			Packer Set At: 11323		Formation: WOLFCAMP
Producing Thru: TUBING	Reservoir Temp.°F: 187.2	Mean Annual Temp. °F: 60	Baro. Press.-P_a: 13.2		Connection: SALES

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
11323	11323	0.644	0.573	0.42	N/A	N/A	4.026	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					1525	N/A	PKR	N/A	
1	4.026 X 1.875	121	1.6	66	1373				1 HR.
2	4.026 X 1.875	156	4.2	63	1054				1 HR.
3	4.026 X 1.875	184	10.5	71	760				1 HR.
4	4.026 X 1.875	196	26	71	520				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 F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1							250
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	594
3							969
4							1446
5							

No.	P_r	Temp. °R	T_r	Z
1				
2	TOTAL	FLOW	METER	
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.644 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 673 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 368 R. ____ R

P_c 1538.2 P_c^2 2366

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1921.6	1386.2	1921.6	444.5
2	1138.9	1067.2	1138.9	1227.1
3	597.8	773.2	597.8	1768.2
4	284.3	533.2	284.3	2081.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.137 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.137

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1644.1

Absolute Open Flow: 1644.1 Mcfd @ 15.025 | Angle of Slope (): 45 | Slope n: 1

Remarks: NO LIQUID MADE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	Signal Wireline	BM	BM

E.O.G. RES.

PHANTOM DRAW UNIT #4