c191

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

Form C-122
Revised October 1, 1999

CONFIDENTIAL

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	CONCHO RESources Inc.				Lease or Unit Name		BLACKBOD		
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 11/16/00		Well No.: 1	
Completion Date: 1/2/00	Total Depth: 9506			Plug Back TD: 9490		Elevation:		Unit Ltr - Sec - Twp - Rge: N 8 16S 28E	
Csg. Size: 4 1/2	Wt.: 11.6	d: 3.958	Set At: 9506	Perforations: From: 9180	To: 9316			County: EDDY	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 9045	Perforations: From:	To:			Pool: Diamond Mound Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 9045				Formation: Morrow	
Producing Thru: TUBING	Reservoir Temp.°F: 164.4		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
9045	9045	0.638	0.374	0.47	N/A	N/A	4.029	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					2350	N/A	PKR	N/A	
1	4.029 X 2.000	377	2.1	72	2100				1 HR
2	4.029 X 2.000	386	6.9	76	1970				1 HR
3	4.029 X 2.000	395	13.7	74	1883				1 HR
4	4.029 X 2.000	412	24.9	70	1550				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							778
2		VOLUMES	BY	TOTAL	FLOW	METER	1372
3							1960
4							2730
5							

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

Gas Liquid Hydrocarbon Ratio: 190 Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: 57.4 Deg.
Specific Gravity Separator Gas: .638/ G MIX=1.014 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 673 P.S.I.A. 661 P.S.I.A.
Critical Temperature: 364 R. 490 R

P_c 2363.2 P_c2 5584.7

No.	P_c^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	4465.6	2117	4481.7	1103
2	3933.1	1995.2	3980.8	1603.9
3	3595.6	1920.9	3689.8	1894.9
4	2443.6	1613	2601.9	2982.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.872 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.872

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 5.111

Absolute Open Flow: 5111 Mcfd @ 15.025 Angle of Slope (): 45 Slope n: 1

Remarks: * WELL MADE 1.5 BBLS OF 57.4 API GRAVITY CONDENSATE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MB	BM