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
2040 Pacheco St.
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Fasken Oil and Ranch, Ltd.							Lease or Unit Name: El Paso Federal		
Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 1-27-99	Well No.: 11	
Completion Date: 1-26-99		Total Depth: 11,254'		Plug Back TD: 11,200'			Elevation: 3192'	Unit Ltr. - Sec. - TWP - Rge.: O 1 21S 26E	
Csg. Size: 4½"	Wt.: 13.5	d: 3.920	Set At: 11,250	Perforations: From: 9929'		To: 9935'		County: Eddy	
Tbg. Size: 2-3/8'	Wt.: 4.7	d: 1.995	Set At: 9743'	Perforations: From: 9946'		To: 9958'		Pool: Burton Flat West	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 9743'				Formation: Strawn	
Producing Thru: Tubing	Reservoir Temp. °F: 184	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2				Connection: El Paso Natural Gas	
L: 9743	H: 9743	Gg: 0.67	% CO_2: 1.134	% N_2: 0.845	% H_2S: 0.0	Prover: Orifice	Meter Run: 3"	Taps: Flange	

	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					3650	60	0	60	-
1.	3" x 1.000	360	1.8	67	2643	67	0	60	1 hr
2.	3" x 1.000	360	3.5	82	2611	82	0	65	1 hr
3.	3" x 1.000	370	7.0	82	2321	82	0	65	1 hr
4.	3" x 1.000	385	15	79	2075	79	0	65	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.	4.789	25.92	373.2	0.993	1.222	1.037	156
2.	4.789	36.14	373.2	0.979	1.222	1.036	215
3.	4.789	51.79	383.2	0.979	1.222	1.035	307
4.	4.789	77.29	398.2	0.982	1.222	1.036	460
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.56	527	1.394	0.930
2.	0.56	542	1.434	0.932
3.	0.57	542	1.434	0.933
4.	0.59	539	1.426	0.932
5.				

Gas Liquid Hydrocarbon Ratio 33 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53 Deg.
Specific Gravity Separator Gas 0.67 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. P.S.I.A.
Critical Temperature 378 R R

P_c 3663.2 P_c^2 13,419

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	7055.4	2656	7057.3	6361.7
2.	6886.4	2625	6890.0	6529.0
3.	5448.5	2336	5455.7	7963.3
4.	4360.6	2092	4376.6	9042.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{13419}{9800}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.369$

AOF = Q 500 $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 685

RECEIVED FEB 1999 OCD - ARTESIA

Absolute Open Flow 685 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 0.5

Remarks: Constant multipoint test resulted in slope "n" greater than 1.0

Approved By Division	Conducted By:	Calculated By:	Checked By: