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, 1999

C/S P

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Fasken Oil and Ranch, Ltd.						Lease or Unit Name: Indian Hills Unit			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 4-25-00		Well No.: 23	
Completion Date: 4-13-00		Total Depth: 10,050'		Plug Back TD: 9,830'		Elevation: 4192		Unit Ltr. - Sec. - TWP - Rge.: N 16 21S 24E	
Csg. Size: 4-1/2""	Wt.: 11.6	d: 4.000	Set At: 10,050'	Perforations: From: 9716' To: 9774'				County: Eddy	
Tbg. Size: 2-3/8"	Wt.: 4.7	d: 1.995	Set At: 9544	Perforations: From: To:				Pool: Indian Basin	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 9544				Formation: Morrow	
Producing Thru: Tubing	Reservoir Temp. °F: 168		Mean Annual Temp. °F: 60		Baro, Press - P_a: 13.2			Connection: Fasken-Transporter	
L: 9544	H: 9544	Gg: 0.625	%CO_2: 0.83	%N_2: 0.20	%H_2S: 0.00	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					2100	75	0	75	–
1.	3.068" x 1.25"	821	2.25	75	2000	75	0	75	1 hr
2.	3.068" x 1.25"	889	6.25	75	1860	75	0	75	1 hr
3.	3.068" x 1.25"	936	11.56	90	1700	75	0	75	1 hr
4.	3.068" x 1.25"	960	17.64	75	1550	75	0	75	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.	7.577	43.32	834.2	0.9859	1.265	1.071	438
2.	7.577	75.09	902.2	0.9859	1.265	1.076	764
3.	7.577	104.75	949.2	0.9723	1.265	1.081	1055
4.	7.577	131.02	973.2	0.9859	1.265	1.082	1340
5.							

No.	P_r	Temp. °R	T_r	Z
1.	1.24	535	1.466	0.871
2.	1.34	535	1.466	0.863
3.	1.41	550	1.507	0.856
4.	1.44	535	1.466	0.854
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A. P. I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.625 XXXXXXXXX
Specific Gravity Flowing Fluid 0.625 XXXXX
Critical Pressure 674 P.S.I.A. _____ P.S.I.A.
Critical Temperature 365 R _____ R

P_c 2113.2 P_c^2 4465.6

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	4053.0	2014.5	4058.1	407.5
2.	3508.9	1877.4	3524.5	941.1
3.	2935.1	1722.1	2965.5	1500.1
4.	2443.6	1578.8	2492.6	1973.0
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{4053.0}{1500.1}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1066$

AOF = Q (1055) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2222$

Absolute Open Flow 2222 Mcfd@ 15.025 Angle of Slope θ: 56 Slope, n: 0.683

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Fasken Oil and Ranch, Ltd.	Carl Brown	