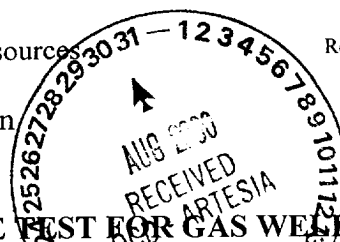


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Fasken Oil and Ranch, Ltd.						Lease or Unit Name Lease or Unit No. Indian Hills					
Type Test ☒ Initial ☐ Annual ☐ Special						Date 8-19-00 Well No. 16					
Completion Date 8-15-00		Total Depth 9875"		Plug Back TD 9821"		Elevation 3914"		Unit Ltr. - Sec. - TWP - Rge. E 17 21 S 24 E			
Csg. Size 4-1/2"	Wt. 11.6	d 4.000	Set At 9869"	Perforations: From: 9626" To: 9707"				County Eddy			
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 9543'	Perforations: From: ' To: '				Pool Indian Basin (Morrow)			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9543'		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 168		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Fasken-Transporter			
L 9543'	H 9543'	Gg 0.625	%CO ₂ 0.83	%N ₂ 0.20	%H ₂ S 0.00	Prover Orifice		Meter Run 3"		Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow	
No.	Prover Line Size	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
SI						2850	90	0	90	--
1.	3.068" x 0.5"		980	5.7	90	1050	90	0	90	24 hr
2.										
3.										
4.										
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.	1.183	75.30	993.2	0.9723	1.265	1.077	118
2.							
3.							
4.							
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.	1.474	550	1.507	0.862	A. P. I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas 0.625	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid 0.625	XXXXXX
4.					Critical Pressure 674	P.S.I.A. P.S.I.A.
5.					Critical Temperature 365	R. R

$P_c = 2863.2$ $P_c^2 = 8197.9$				
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	986.4	993.2	986.8	7211.1
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8197.9}{7211.1}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1368$

AOF = Q 118 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 134$

Absolute Open Flow 134 Mcfd@ 15.025		Angle of Slope θ: 45	Slope, n: 1.0
Remarks:			
Approved By Division	Conducted By: Fasken Oil and Ranch, Ltd.	Calculated By: Carl Brown	Checked By: