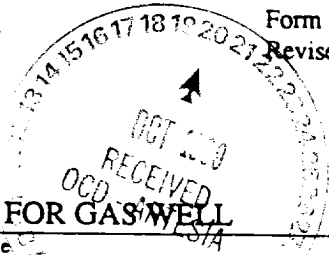


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

STATE OF NEW MEXICO
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505



Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Fasken Oil and Ranch, Ltd.						Lease or Unit Name Maralo "34" Federal					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-10-99		Well No. 3			
Completion Date 6-5-99		Total Depth 11,104'		Plug Back TD 10,895'		Elevation 3261'		Unit Ltr. - Sec. - TWP - Rge. H 34 20S 27E			
Csg. Size 5 1/2"	Wt. 17&20	d 4.778	Set At 11,104'	Perforations: From: 10772' To: 10849'				County Eddy			
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 10,633'	Perforations: From: To:				Pool Avalon Morrow			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,633'		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 175		Mean Annual Temp. °F 60		Baro. Press - P 13.2		Connection El Paso Natural Gas			
L 10633'	H 10633'	Gg 0.602	% CO ₂ 0.89	% N ₂ 0.33	% H ₂ S 0.0	Prover Elec. Flowmeter		Meter Run 2.0	Taps Flange		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice X 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						687				
1.	2" x 1.25"		26	16.4	102	26	102	0	90	24 hr.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	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.	6.393	25.04	39.2	0.9619	1.288	1.01	203
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.058	562	1.5698	.98	A.P. I Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	0.602
3.					Specific Gravity Flowing Fluid	0.602
4.					Critical Pressure	671 P.S.I.A.
5.					Critical Temperature	358 R

P_c 700.2 P_c² 490.3

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	1.537	91.4	8.4	481.9
2.				
3.				
4.				
5.				

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{490.3}{481.9}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.017$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 206$$

Absolute Open Flow	206	Mcf @ 15.025	Angle of Slope θ	45	Slope, n	1.0
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Remarks:

Approved By Division	Conducted By: Mark Jacobs	Calculated By: Carl Brown	Checked By:
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