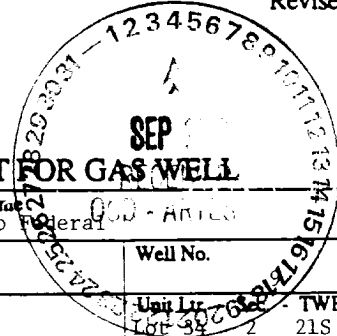


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

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 ☒ Initial ☐ Annual ☐ Special						Test Date 8-27-98		Well No.			
Completion Date 7-23-98		Total Depth 10997		Plug Back TD 10997		Elevation 3186' GR		Unit Lr 10E-34C6		TWP - Rge. 21S 26E	
Csg. Size 5 1/2"	Wt. 20	d 4.778	Set At 10957'	Perforations: From: 10957' To: 10997'				Country Eddy			
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 10884'	Perforations: From: 10957' To: 10997'				Pool Avalon			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10884'		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 184		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection			
L 10884'	H 10884'	Gg .594	% CO ₂ 0.9	% N ₂ 0.27	% H ₂ S 0	Prover Elec. Flowmeter		Meter Run 4"		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	Shut in		--		--	3267	80	1150	-	0
1.	4 x 2.25		420	2.5	98	2460	80	1150	-	1
2.	4 x 2.25		420	7.8	96	2160	80	1150	-	1
3.	4 x 2.25		420	18.8	94	1500	80	1150	-	1
4.	4 x 2.25		420	31.5	92	940	80	1150	-	1
5.	4 x 2.25		420	40.1	90	550	80	1150	-	2

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.	25.64	33.16	433.2	.9653	1.296	1.129	1201
2.	25.64	58.00	433.2	.9671	1.296	1.125	2097
3.	25.64	90.33	433.2	.9680	1.296	1.101	3199
4.	25.64	116.86	433.2	.9706	1.296	1.069	4029
5.	25.64	131.80	433.2	.9723	1.296	1.041	4433

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	3.66	558	1.57	.785	A.P. I Gravity of Liquid Hydrocarbons	55 Deg.
2.	3.21	556	1.57	.790	Specific Gravity Separator Gas	.594
3.	2.24	554	1.56	.825	Specific Gravity Flowing Fluid	XXXXXX
4.	1.41	552	1.55	.875	Critical Pressure	676 P.S.I.A.
5.	.83	550	1.53	.922	Critical Temperature	354 R

P _c 3280.2		P _c ² 10760	
NO.	P _c ²	P _w	P _w ²
1.	6117		6133
2.	4723		4772
3.	2290		2408
4.	909		1106
5.	317		568

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.056$ 2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.056$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4680$

Absolute Open Flow	4680	Mcf @ 15.025	Angle of Slope θ	45	Slope, n	1.0
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Remarks: Constant time multipoint test resulted in slope, 'n' > 1.0.

Approved By Division	Conducted By: Jimmy Davis, Jr.	Calculated By: Carl Brown	Checked By:
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