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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 State "32" Com.				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-26-02		Well No. 2		
Completion Date 9-21-01		Total Depth 9775'		Plug Back TD 9718'		Elevation 3569'		Unit Ltr. - Sec. - TWP - Rge. B 32 20S 25E	
Csg. Size 4-1/2"	Wt. 11.6	d 4.000	Set At 9765'	Perforations: From: 9509' To: 9544'				County Eddy	
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 9445'	Perforations: From: To:				Pool Cemetery	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 9445'		Formation Morrow		
Producing Thru Tubing		Reservoir Temp. °F 168		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Fasken-Transporter	
L 9445'	H 9445'	Gg 0.625	%CO ₂ 0.83	%N ₂ 0.20	%H ₂ S 0.00	Prover	Orifice	Meter Run 4"	Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow
No.	Prover Line Size	Onifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						2347	90	0	90
1.	4.026" x 2.00"		2217	0.682	118	2217	90	0	90
2.	4.026" x 2.00"		2180	3.10	118	2180	90	0	90
3.	4.026" x 2.00"		2140	6.13	118	2140	90	0	90
4.	4.026" x 2.00"		2082	11.05	118	2082	90	0	90
5.									

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)	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.	19.81	39.00	2230.2	0.9485	1.265	1.111	1030
2.	19.81	82.40	2193.2	0.9485	1.265	1.110	2174
3.	19.81	114.88	2153.2	0.9485	1.265	1.110	3031
4.	19.81	152.16	2095.2	0.9485	1.265	1.109	4011
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	3.31	578	1.58	0.810	A. P. I. Gravity of Liquid Hydrocarbons	Deg.
2.	3.25	578	1.58	0.811	Specific Gravity Separator Gas 0.625	XXXXXXXXXX
3.	3.15	578	1.58	0.812	Specific Gravity Flowing Fluid 0.625	XXXXXX
4.	3.11	578	1.58	0.813	Critical Pressure 674	P.S.I.A. P.S.I.A.
5.					Critical Temperature 365	R. R.

P _c 2360	P _c ² 5569.6			
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	4973.8	2237.0	5004.0	565.6
2.	4810.1	2223.7	4944.9	624.7
3.	4636.3	2212.5	4895.1	674.5
4.	4389.9	2200.7	4843.1	726.5
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5569.6}{726.5}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.666$

AOF = Q (4011) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 30,749$

Absolute Open Flow 30,749	Mcfd@ 15.025	Angle of Slope θ: 45	Slope, n: 1.00
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Remarks:
Drawdown limited due to dehydrator capacity. An approximation of AOF was made with unit slope through the maximum rate.

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