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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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator FINA OIL & CHEMICAL COMPANY						Lease or Unit Name FED HH - 33					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-19-94		Well No. 1			
Completion Date 8-2-94		Total Depth 12820		Plug Back TD 12400		Elevation		Unit Loc. - Sec. - TWP - Rge. G-33-19-32			
Csg. Size	Wt.	d	Set At	Perforations:				County			
5 1/2	17		12820	From: 12040 To: 12049				LEA			
Tbg. Size	Wt.	d	Set At	Perforations:				Pool			
2 3/8	4.7	1.995	11933	From: To:							
Type Well - Single - Bradenhead - G.G. or L.O. Multiple						Packer Set At 11880		Formation ATOKA			
Producing Thru		Reservoir Temp. °F 194°		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection VENTED			
L 11933	H 11933	G _g .707	% CO ₂ .42	% N ₂ 2.01	% H ₂ S	Prover	Meter Run 4.026	Taps FLG.			

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						4550		PKR.		72 hr.
1.	4 X 1.500		570	2.00	89	4140		"		1 HR.
2.	4 X 1.500		580	6.00	92	3440		"		"
3.	4 X 1.500		670	10.00	95	2810		"		"
4.	4 X 1.500		550	24.00	100	2490		"		"
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	10.84	34.35	583.2	.9732	1.189	1.057	453
2.	10.84	59.66	593.2	.9706	1.189	1.057	789
3.	10.84	82.66	683.2	.9680	1.189	1.065	1098
4.	10.84	116.26	563.2	.9636	1.189	1.051	1518
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.87	549	1.42	.895	3.281	
2.	.89	552	1.43	.895	53.1 @60°	
3.	1.02	555	1.43	.882		
4.	.84	560	1.45	.906		
5.						

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²	1) $\frac{P_i^2}{P_i^2 - P_w^2} =$	2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n =$
1.		4155.7	17270.2	3552.6	1.447	1.447
2.		3461.2	11980.1	8842.7		
3.		2839.2	8061.1	12761.7		
4.		2536.6	6434.1	14388.7		
5.						

Absolute Open Flow 2,197 Mcfd @ 15.025		Angle of Slope 45	Slope, n 1.000
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Remarks: **WELL MADE 49 BLS OF 53.1 API GR. CONDENSATE DURING TEST.**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: BM	Checked By: BM
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SEP 12 1994

RECEIVED
AUG 24 1994
JOE HODGES
OFFICE