

NOV 9- '89

Form C-122
Revised 10-1-78

dsf
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-1-89	
Company MERIDIAN OIL		Connection EPNG PIPELINE	
Pool NORTH LOVING		Formation WOLFCAMP	
Completion Date 10-23-89		Total Depth 12449.	Plug Back TD 10300.
		Elevation 3051.	Unit G
Coq. Size 7.000	Wt. 26.0	d 6.276	Set At 12449.
Thq. Size 2.375	Wt. 4.6	d 1.995	Set At 9883.
Perforations: From 9976. To 10212.		Perforations: From 0. To 0.	
Well No. 1		Unit Sec. Twp. Rge. 12-23S-27E	
Type Well - Single - Draddenhead - G.G. or G.O. Multiple SINGLE - GAS		Packer Set At 9854.	County EDDY
Producing Thru TUBING	Reservoir Temp. °F 173.0 10094.	Mean Annual Temp. °F 60.0	Buro. Press. - P _g 13.2
L 10094.	H 10094.	G _g .667	% CO ₂ .34
		% N ₂ .70	% H ₂ S .00
		Prover .0	Meter Run 4.0
			Taps FLANGE

FLOW DATA						TUBING DATA		BHP DATA		Duration of Flow	
NO.	Prover Line Size	X	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
1.	4.03 X 1.500			359.	2.2	50.	4180.	60.			216.0
2.	4.03 X 1.500			371.	5.4	68.	3776.	60.	PKR		1.0
3.	4.03 X 1.500			384.	8.0	71.	3492.	60.	PKR		1.0
4.	4.03 X 1.500			384.	9.2	75.	3105.	60.	PKR		1.0
5.							2765.	60.	PKR		1.0

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 _{sp}	Rate of Flow Q, Mcfd
1.	10.84	28.64	372.1	1.0098	1.2244	1.0426	400.
2.	10.84	45.75	384.4	.9924	1.2244	1.0388	626.
3.	10.84	56.35	396.9	.9896	1.2244	1.0393	769.
4.	10.84	60.58	396.9	.9859	1.2244	1.0382	823.
5.							

NO.	P _h	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.56	510.	1.35	.920	17.2	61.2	.667	X X X X X X X X	669.	377.
2.	.57	528.	1.40	.927					P.S.I.A. 662.	P.S.I.A. 422.
3.	.59	531.	1.41	.926						
4.	.59	535.	1.42	.928						
5.										

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.	14358.	3794.	14397.	3186.
2.	12286.	3512.	12331.	5252.
3.	9723.	3124.	9761.	7822.
4.	7718.	2785.	7754.	9829.
5.				

(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 2.2479$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.8019$

AOG = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1386.$

Absolute Open Flow 1386. Mcfd @ 15.025 Angle of Slope 54.0 Slope, n .727

Remarks: CHOKE SIZE: 1ST RATE 5/64 2ND RATE 7/64 3RD RATE 8/64 4TH RATE 9/64

Approved By Division	Conducted By: C & W WIRELINE, INC.	Calculated By: MATT LEE	Checked By:
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