

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

OCT 22 1996

OIL CON. DIV.

30-15-28986

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OXY, USA						Lease or Unit Name Unit 4 - Fed. Perm NORTH DUTTON FLATS					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-25-1996		Well No. 1			
Completion Date 21-SEP-1996			Total Depth		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge. 4-20S-28E		
Csg. Size 5.500	Wt. 17.0	d 20.000	Set At	Perforations: From: 8903. To: 9302.				County EDDY			
Tbg. Size 2.375	Wt. 2.0	d .000	Set At	Perforations: From: To:				Formation WOLFCAMP			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At					
Producing Thru TUBING		Reservoir Temp. °F 152.		Mean Annual Temp. °F 60.0		Baro. Press - P _a 13.20		Connection NGPL			
L 9105.	H 9105.	Gg .773	% CO ₂ .29	% N ₂ 1.41	% H ₂ S .00	Prover		Meter Run 3.1	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								4461.	152	72 hrs.
1.	3.07 X 1.500		See	4.5	95	2670	79	4399.	152	60 min.
2.	3.07 X 1.500		Comments	12.0	92	2550	79	4312.	152	60 min.
3.	3.07 X 1.500			36.0	83	2500	79	4158.	152	60 min.
4.	3.07 X 1.500			70.0	74	2230	79	3961.	152	75 min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.00	7.71	13.2	.9680	1.1374	1.0071	450.
2.	.00	12.59	13.2	.9706	1.1374	1.0073	749.
3.	.00	21.80	13.2	.9786	1.1374	1.0076	1293.
4.	.00	30.40	13.2	.9868	1.1374	1.0081	1900.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.02	555.	1.36	.986	0.	
2.	.02	552.	1.35	.986	45.6	45.6
3.	.02	543.	1.33	.985	.773	XXXXXXX
4.	.02	534.	1.31	.984	.773	.773
5.						

NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	19468.	3305.	10923.	360.	4.1714	2.7737
2.	18707.	3229.	10429.	854.		
3.	17399.	3097.	9590.	1694.		
4.	15794.	2929.	8579.	2705.		
5.						

Absolute Open Flow 5270. Mcfd @ 15.025		Angle of Slope Θ 54.5	Slope, n .714
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Remarks: **Used BHP from electronic pressure gauges. Unable to achieve 25% drawdown due to flow line limitations. Rates calculated by Super Flo II digital sales meter.**

Approved By Division	Conducted By: <i>Roy Cherry</i>	Calculated By: <i>YPRZ</i>	Checked By:
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