

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
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451
File
Form C-132
Revised 9-1-65

JAN 21 1987

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-06-86	
Company DXO Production Corp.		Connection To Air	
Pool E. Carlsbad Wolfcamp Carlsbad, East		Formation Wolfcamp	
Unit C			
Completion Date 12/11/86	Total Depth 10,070	Plug Back TD 10,020'	Elevation 3093 GL
Farm or Lease Name Delta Fee "C"			
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 10,100
Perforations: From 9328 To 9861		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9223
Perforations: From Open To Ended		Unit Sec. Twp. Rge. C 12 22S 27E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 9223	
County Eddy		State New Mexico	
Producing Thru TBG.	Reservoir Temp. °F 146° @ 9594	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
L 9223	H 9223	G _g .833	% CO ₂ .597
		% N ₂ .543	% H ₂ S
		Prover	Meter Run 3'
			Taps Flg.

FLOW DATA						TUBING DATA		CASING 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
SI							1522		PKR	CHOKE	48 Hrs.
1.	4	x	1.000	90	16.00	60°	1462			5/64	1 Hr.
2.	4	x	1.000	90	37.00	60	1423			6/64	1 Hr.
3.	4	x	1.000	90	54.00	60	1345			7/64	1 Hr.
4.	4	x	1.000	90	79.00	60	1232			8/64	1 Hr.
5.											

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, Mcd
1	4.789	40.63	103.2	1.000	1.064	Ni1	207
2	4.789	61.79	103.2	1.000	1.064	Ni1	315
3	4.789	74.65	103.2	1.000	1.064	Ni1	380
4	4.789	90.29	103.2	1.000	1.064	Ni1	460
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.					Specific Gravity Separator Gas	.833	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	665	P.S.I.A.
5.					Critical Temperature	434	R

P _c 153.2 P _c ² 236.8	
NO.	P _t ² P _w P _w ² P _c ² - P _w ²
1	2072.2 2177.2 179.6
2	2030.2 2065.1 291.7
3	1992.2 1848.2 508.6
4	1954.2 1555.8 801.0
5	1902.2

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.942$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.713$

Shut-in 1st 2nd 3rd 4th

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .788$

Absolute Open Flow 788 Mcd @ 15.025

Angle of Slope @ 63.5

Slope, n .499

Remarks: BHP Instrument set @ 9594 during test.
AOF calculated from surface pressures. Gr. was .833 and will not calculate back to Surface pressure from BHP'S.

Approved By Commission:	Conducted By: W.S.	Calculated By: J.B.M.	Checked By: J.B.M.
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JAN 19 1987
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