

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Copy 12-1
C-122

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 11-1-73		NOV 13 1973	
Company DORCHESTER EXPLORATION				Connection EL PASO NATURAL GAS		O.C.C.	
Pool WINCHESTER				Formation WOLFCAMP		Unit ARTESIA, OFFICE	
Completion Date 10-10-73		Total Depth 11,400'		Plug Back TD 9360'		Elevation	
Farm or Lease Name D.W.U.FED.							
Csg. Size 4 1/2	Wt. 11.6	d	Set At 9400'	Perforations: From 9063' To 9128'		Well No. 2	
Thg. Size 2 3/8	Wt. 4.7	d	Set At 8902'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. F 35 19S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8902'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 148° @ 9090'		Mean Annual Temp. °F 60.0°		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 9090	H 9090	G _g 0.688	% CO ₂ 0.38	% N ₂ 0.92	% H ₂ S -----	Prover -----	Meter Run Taps 4" FLANGE

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	L-10 READINGS						2710.0		PACKER	CHOKE	10 DAYS
1.	4" x 1.50"			8.80	2.00	72	2572.0	80		10/64	1.0 HRS.
2.	4" x 1.50"			8.80	4.85	73	2410.0	81		15/64	1.0 "
3.	4" x 1.50"			8.80	6.30	72	2297.0	80		17/64	1.5 "
4.	4" x 1.50"			8.90	8.10	71	2150.0	79		20/64	1.0"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	L-10 CORRECTION FACTOR	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	3.162	774.4	0.9887	1.206	1.087	782
2	10.84	3.162	774.4	0.9877	1.206	1.087	1894
3	10.84	3.162	774.4	0.9887	1.206	1.087	2463
4	10.84	3.162	792.1	0.9896	1.206	1.089	3211
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	3444-1 Mcf/bbl.
1.	1.16	532	1.38	.847	A.P.I. Gravity of Liquid Hydrocarbons	57.9° Deq.
2.	1.16	533	1.38	.847	Specific Gravity Separator Gas	XXXXXXX
3.	1.16	532	1.38	.847	Specific Gravity Flowing Fluid	XXXXX
4.	1.18	531	1.38	.844	Critical Pressure	669 P.S.I.A.
5.					Critical Temperature	385 R

P _c 2723.2 P _c ² 7415.8		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0158$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.9926$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1	6683.3	2588.5	6700	715.8	
2	5871.9	2444.7	5977	1439	
3	5337.0	2346.8	5507	1909	
4	4679.4	2226.5	4957	2459	
5					

Absolute Open Flow 9609 Mcfd @ 15.025			Angle of Slope θ 45.2°		Slope, n 0.993	
Remarks:						

L-10 CHART - METER RANGE = 100" - 1000"			
Approved By Commission:	Conducted By: D. TYSON	Calculated By: R. WEST	Checked By: J. W. W.