

MEXICO OIL CONSERVATION CORPORATION
MULTIPOINT / ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-77

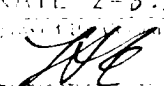
☒ Initial FOUR POINT ☐ Annual ☐ Special				Date: 3-9-81		Well No.: 1980 FN & 1980FW	
Company: DEPCO				Service: AIR			
Field: WILDCAT				Formation: ATOKA - MORROW			
Completion Date: 2-20-81		Total Depth: 9,866		Plug Back TD: 9,510		Elevation: 3860 GR	
Producer or Lease Name: WHITE RANCH UNIT							
Grp. Size: 4 1/2	Wt.: 11.6	d: 4.0	Set At: 9,510	Performance: From 9,312 To 9,326		Well No.: 1	
Trq. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 9,237	Performance: From OPEN To 		Unit: 8 Sec: 13S Twp: 30E	
Type Well: SINGLE				Packer Set At: 9,237		County: CHAVES	
Producing Thru: TUBING		Reservoir Temp. °F: 148^a 9,326		Mean Annual Temp. °F: 60		State: NEW MEXICO	
L: 9,319	H: 9,319	Gg: .686	% CO ₂ : .31	% N ₂ : 2.17	% H ₂ S: 0	Prover: 	Meter Run: 3"
				Prover: FLG			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Grill 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.	3"	X	2.25	5.43	4.4	77	1947	64.0	PACKER		77
2.	3"	X	2.25	5.43	5.8	70	1814	64.0			1
3.	3"	X	2.25	5.49	6.88	70	1704	70.0			1
4.	3"	X	2.25	5.50	8.38	70	1488	72			1
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 _{spv}	Rate of Flow Q, Mgd
1	29.52	106.86	589.7	.9840	1.2074	1.0576	3.963
2	29.52	140.85	589.7	.9905	1.2074	1.0606	5.274
3	29.52	168.92	602.8	.9905	1.2074	1.0618	6.332
4	29.52	206.12	605.0	.9905	1.2074	1.0624	7.731
5.							

NO.	P _f	Temp. °F	T _f	Z	Gas-Liquid Hydrocarbon Ratio	M-Factor
1	.98	537	1.42	.894	A.P.G. Gravity of Liquid Hydrocarbons: 60.0	
2	.98	530	1.40	.889	Specific Gravity Separator Gas: .6860	XXXXXXXXXX
3	.90	530	1.40	.887	Specific Gravity Flowing Fluid: .6900	XXXXX
4	.91	530	1.40	.886	Critical Pressure: 667	P.S.I.A.
5					Critical Temperature: 373 R	R

$P_c = 3058.2 P_r^2 = 9352.6$	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 13.5545$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6816$
NO. 1: $P_r^2 = 3017.2$, $P_w^2 = 9103.5$, $P_c^2 - P_w^2 = 249.0$		
NO. 2: $P_r^2 = 2982.2$, $P_w^2 = 8893.5$, $P_c^2 - P_w^2 = 459.0$		
NO. 3: $P_r^2 = 2943.2$, $P_w^2 = 8562.4$, $P_c^2 - P_w^2 = 690.0$		
NO. 4: $P_r^2 = 2890.2$, $P_w^2 = 8353.3$, $P_c^2 - P_w^2 = 999.0$		
NO. 5: $P_r^2 =$, $P_w^2 =$, $P_c^2 - P_w^2 =$		

Absolute Open Flow: MEASURED	Angle of Slope: 53.4	Slope, n: .500
Remarks: CALCULATED FROM KNOWN BOTTOM HOLE PRESSURE, MEASURED WITH AMERADO-RPG3 PRESSURE ELEMENT - LIQUID PRODUCED NO H₂O RATE 1-6,925 BBLs, RATE 2-8.31 BBLs, RATE 3-11.08, RATE 4-16.006 BBLs		
Approved By: 	Checked By: DON BENNETT	Checked By: WOHL, ORD & JENKINS