NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT / ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special	Date of Test: 3-9-81	1980 FN & 1980FW	
Company: DEPCO	Connection: AIR		
Pool: WILDCAT	Formation: ATOKA - MORROW	Unit:	
Completion Date: 2-20-81	Total Depth: 9,866	Plug Back TD: 9,510	Elevation: 3860 GR
Farm or Lease Name: WHITE RANCH UNIT			

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
4½	11.6	4.0	9,510	From 9,312 To 9,326	1

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2 3/8	4.7	1.995	9,237	From OPEN To	8	13S	30E	

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE	9,237	CHAVES

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
TUBING	148 @ 9,326	60	13.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9,319	9,319	.686	.31	2.17	0		3"	FLG

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							PACKER		77
1.	3" X 2.25 ~~27~~	5.43	4.4	77	1947	64.0			1
2.	3" X 2.25 24	5.43	5.8	70	1814	64.0			1
3.	3" X 2.25 27	5.49	6.88	70	1704	70.0			1
4.	3" X 2.25 33	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
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_t	Temp. °R	T_r	Z
1	.98	537	1.42	.894
2	.98	530	1.40	.889
3.	.90	530	1.40	.887
4.	.91	530	1.40	.886
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 60.0 Deg.

Specific Gravity Separator Gas .6860 XXXXXXXXX

Specific Gravity Flowing Fluid .6990 XXXXX

Critical Pressure 667 P.S.I.A. _____ P.S.I.A.

Critical Temperature 378 R R _____ R

P_c 3058.2 P_c^2 9352.6

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3017.2	9103.5	249.0
2		2982.2	8893.5	459.0
3		2943.2	8662.4	690.0
4		2890.2	8353.3	999.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 13.5545$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.6816$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 23,312.1$

Absolute Open Flow _____ Mcfd @ 15.025 | Angle of Slope θ 63.4 | Slope, n .500

Remarks: CACULATED 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 4-16.066 BBLS

Approved By:	Conducted By:	Calculated By:	Checked By:
	DON BENNETT	WOHLFORD & JENKINS	