EW MEXICO OIL CONSERVATION CON SION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-19-81	
Company: William E. Hendon, Jr.		Connection			
Pool: Undesignated		Formation: Morrow		Unit	
Completion Date: 10-12-81	Total Depth: 13709	Plug Back TD: 13631	Elevation: 3729 GR	Farm or Lease Name: New Mexico ~~Fed.~~ 35 Fed.	
Csg. Size: 5 1/2 / Wt.: 20 / d: 4.892 / 4.778 / Set At: 13709	Perforations: From 13274 To 13612			Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.40 / d: 2.441 / Set At: 11987	Perforations: From To			Unit: B / Sec.: 35 / Twp.: 18S / Rge.: 32E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11987		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 192 @ 13243	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13443	13443	0.652	0.66	0.46	Nil		X	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	79½ hours				4227		Pkr.		
1.	4" X 1.500"	305	1.5	75	3757	75	"	-	1 hour
2.	4" X 1.500"	305	12.0	70	3515	70	"	-	1 hour
3.	4" X 1.500"	500	20.0	63	3028	63	"	-	1 hour
4.	4" X 1.500"	500	78.0	72	2138	72	"	-	1 hour
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	10.84	21.85	318.2	.9851	1.238	1.028	296.9
2	10.84	61.79	318.2	.9905	1.238	1.029	845.2
3	10.84	101.31	513.2	.9971	1.238	1.055	1430.2
4	10.84	200.07	513.2	.9887	1.238	1.050	2787.4
5							

NO.	P_r	Temp. °R	T_r	Z
1	USED SIMPLIFIED			
2	SUPERCOMPRESSIBILITY			
3	TABLES			
4				
5				

Gas Liquid Hydrocarbon Ratio 19.826 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.3 Deg.
Specific Gravity Separator Gas 0.652 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx
Critical Pressure 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature 375 R ____ R

P_f 6023.2 P_f^2 36279

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		5500.2	30252	6027
2		5258.2	27649	8630
3		4721.2	22290	13989
4		3586.2	12861	23418
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.54919$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.54919$

Absolute Open Flow $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4318.220$

Absolute Open Flow 4318.220 Mcfd @ 15.025 Angle of Slope θ 45.0 Slope, n 1.0000

Remarks: BHP measured with Amerada RPG-3 Gauge No. 47612, 0-8000 PSI Range

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Orig. Signed Jerry Sexton Dist. I, Supv.	Tefteller, Inc.	D. A. Warren, Jr.	