c/sf

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 27 1997

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 11/11/96	
Company: Mallon Oil Co.			Connection: El Paso		
Pool: Carlsbad S.			Formation: Morrow		Unit
Completion Date: 11/12/96	Total Depth: 11862		Plug Back T.D.: 11819	Elevation: 3354 GR	Farm or Lease Name: Black River 10 Fed Com
Csg. Size: 5-1/2" / Wt.: 20 / d: / Set At:			Perforations: From 11340 To 11430		Well No.: 1
Tbg. Size: 2-7/8" / Wt.: 6.5 / d: 2.441 / Set At: 11231			Perforations: From 11340 To 11430		Unit: E / Sec.: 10 / Twp.: 24S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At:		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 201 @ 11385	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11231	11231	0.579	1.12	0.29	0.0		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						2600		PKR		
1.	4.026	2.5	168	8.4	69	2550	72			0.75
2.	4.026	2.5	194	16.0	74	2500	80			0.75
3.	4.026	2.75	212	18.1	89	2435	85			0.75
4.	4.026	2.75	240	24.0	95	2390	86			0.75
5.	4.026	2.75	292	41.0	96	2200	86			0.75

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	32.64	39.0	181.2	.9915	1.314	1.029	1707
2	32.64	57.6	207.2	.9868	1.314	1.067	2600
3	41.10	63.8	225.2	.9732	1.314	1.067	3582
4	41.10	78.0	253.2	.9680	1.314	1.068	4355
5	41.10	111.9	305.2	.9671	1.314	1.071	6761

NO.	P_t	Temp. °R	T_f	Z
1	.2680	529	1.533	.945
2.	.3065	534	1.548	.879
3.	.3331	549	1.591	.878
4.	.3746	555	1.609	.876
5	.4515	556	1.612	.871

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.579
Critical Pressure: 676 P.S.I.A.
Critical Temperature: 345 R

P_c 2600 P_c^2 6760000

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	6569994	2570	660393	156069
2	6316174	2529	6397007	362993
3	5993683	2479	6147485	612515
4	5775370	2450	6003884	756116
5	4898254	2317	5369341	1390659

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.861$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.885$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 18.0$

Absolute Open Flow: 18060 Mcfd @ 15.025 Angle of Slope θ: Slope, n: .67

Remarks:

Calculated By: Checked By: