

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

DEC - 9 2004

OCU-ARTESIA

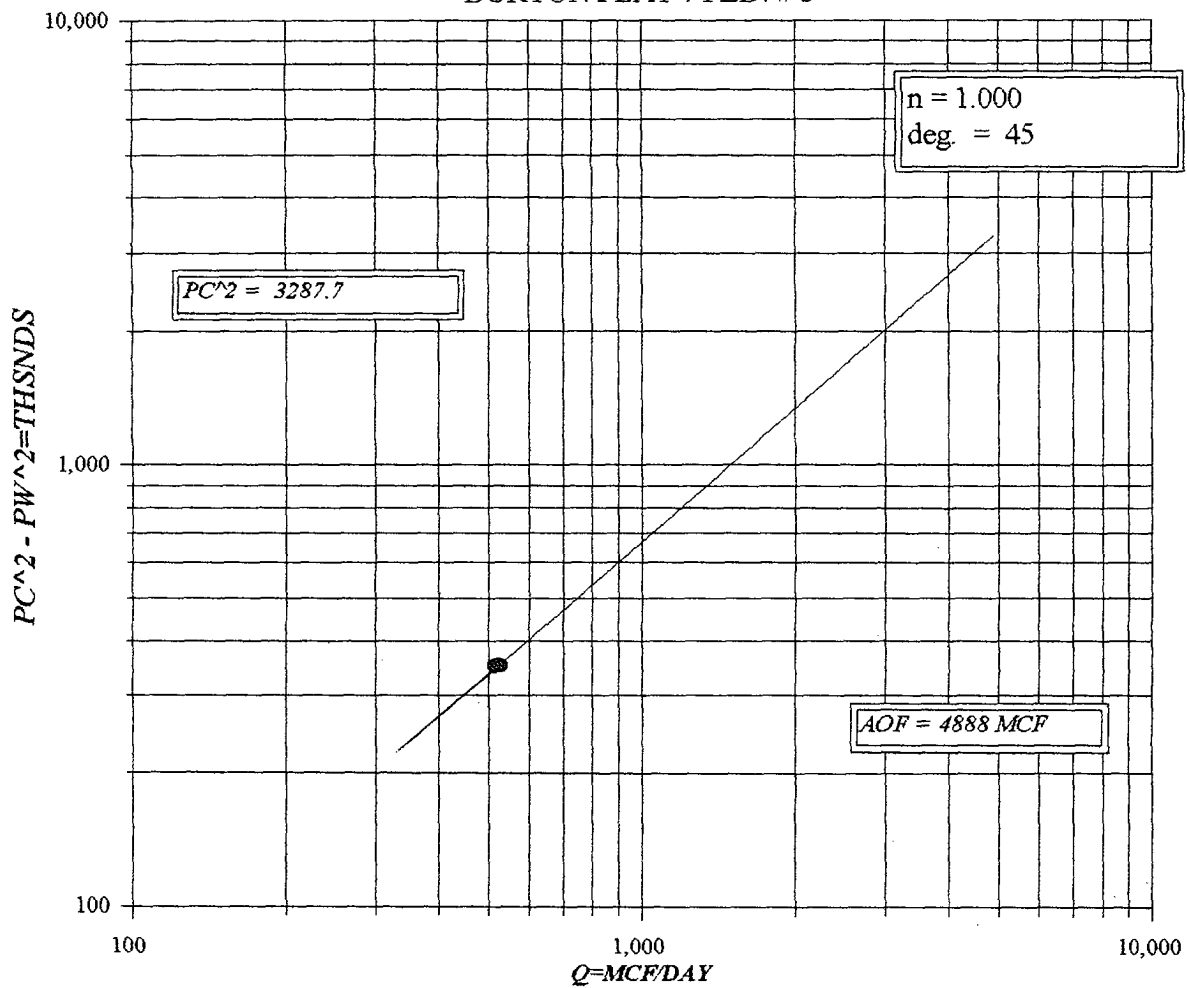
30-015-33337

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBORNE OIL COMPANY				Lease or Unit Name BURTON FLAT 7 FED.			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/19/04	Well No. 3
Completion Date 8/6/03		Total Depth 11220		Plug Back TD 11164		Elevation 3309 GL	Unit Ltr - Sec - TWP - Rge K 7 20 28
Csg. Size 5 1/2	Wt. 17	d 	Set At 11220	Perforations: From: 10704 To: 11000		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10520	Perforations: From: To:		Pool E. BURTON FLAT MORR	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10508		Formation MORROW	
Producing Thru TGB		Reservoir Temp. °F 179.2 @ 10520		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
Connection SALES							
L 10520	H 10520	Gg 0.7	%CO ₂ 0.727	%N ₂ 0.378	%H ₂ S N/A	Prover N/A	Meter Run 3.068
						Taps FLG	
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						1800	PKR
1	3 X	1.000	634	11.89	90	1700	PKR
2							
3							
4							
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 _{pv}
1							
2							
3	METERED			BY	TOTAL	FLOW	
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 74.286 Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 59.6 @ 60 Deg.		
2					Specific Gravity Separator Gas 0.7 XXXXXXXX		
3		N/A			Specific Gravity Flowing Fluid XXXXXX GMIX= 0.738		
4					Critical Pressure P.S.I.A. 668 P.S.I.A.		
5					Critical Temperature R. 401 R		
P _c 1813.2 P _{c2} 3287.7							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.399$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9.399$		
1		1714	2937.9	349.8			
2							
3							
4							
5							
Absolute Open Flow 4.888				Mcf @ 15.025	Angle of Slope (°): 45	Slope n: 1	
Remarks: 7 BO/D 2 BW/D							
Approved By Division:		Conducted By: MEWBORNE OIL CO.		Calculated By: MERV BUECKER		Checked By: BM	

MEWBOURNE OIL COMPANY

BURTON FLAT 7 FED. # 3



0	COMPANY : MEWBOURNE OIL CO. LEASE :B. FLAT 7 FED. WELL NO. : 3				Pc = 1813.2 Pc2 = 3287.7 *				
	UNIT : K	SECTION : 7		TOWNSHIP : 20					
	L : 10520	H : 10520	L/H : 1	G/GMIX : 0.738	Pt2 = 2935.1		Pw = 1714.0 *		
	%CO2 : 0.727	%N2 : 0.378	H2S :	DATE :8-19-04	0.0		ERR *		
	d : 2.441	Fr :0.010763	GH : 7763.8	RANGE : 28	0.0		ERR *		
=====					0.0		ERR *		
							*		
VOL 1 :	520	PSIA 1 :	1713.2	RESV.TEMP	179.2	Pc2-Pw2=	349.8	Pw2 = 2937.9 *	
VOL 2 :		PSIA 2 :				ERR		ERR *	
VOL 3 :		PSIA 3 :		SHUT-IN PR=	1813.2	ERR		ERR *	
VOL 4 :		PSIA 4 :				ERR		ERR *	
							*		
PCR : 668					n = 1.000		*		
TCR : 401							*		
					Pc2/(Pc2-Pw2) =		9.399	*	
LINE	RATE 1		RATE 2		RATE 3		RATE 4	ERR *	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	ERR *
									ERR *
1	QM	0.520	0.520	0.000	0.000	0.000	0.000	0.000	*
2	TW	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n = 9.399 *
3	Ts	639.2	639.2	639.2	639.2	639.2	639.2	639.2	ERR *
4	T	586.6	586.6	586.6	586.6	586.6	586.6	586.6	ERR *
	PR (est)	2.56		0.00		0.00		0.00	ERR *
5	Z(est)	0.749	0.734	ERR	ERR	ERR	ERR	ERR	*
6	TZ	439.4	430.5	ERR	ERR	ERR	ERR	ERR	AOF= Q 4.888 *
7	GH/TZ	17.669	18.033	ERR	ERR	ERR	ERR	ERR	ERR *
8	eS	1.940	1.966	ERR	ERR	ERR	ERR	ERR	ERR *
9	l-e-S	0.484	0.491	ERR	ERR	ERR	ERR	ERR	ERR *
10	Pt	1713.2	1713.2	0.0	0.0	0.0	0.0	0.0	*
11	Pt2 /1000	2935.1	2935.1	0.0	0.0	0.0	0.0	0.0	*
12	Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	*
13	Fc=FrTZ	4.729	4.634	ERR	ERR	ERR	ERR	ERR	*
14	FcQm	2.46	2.41	ERR	ERR	ERR	ERR	ERR	*
15	L/H(FcQm)	6.0	5.8	ERR	ERR	ERR	ERR	ERR	*
16	Fw	2.930174	2.853687	ERR	ERR	ERR	ERR	ERR	*
17	Pw2	2938.0	2937.9	ERR	ERR	ERR	ERR	ERR	*
18	Ps2	5699.0	5777.2	ERR	ERR	ERR	ERR	ERR	*
19	Ps	2387.3	2403.6	ERR	ERR	ERR	ERR	ERR	*
20	P	2050.2	2058.4	ERR	ERR	ERR	ERR	ERR	*
21	Pr	3.07	3.08	ERR	ERR	ERR	ERR	ERR	*
22	Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	*
23	Z	0.734	0.734	ERR	ERR	ERR	ERR	ERR	FORM C122-D *
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NEW MEXICO G.O.R./G. MIX

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NO. OF BBLs PRODUCED = 7.0

API GRAVITY @ 60 DEG. = 59.6

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SPECIFIC GRAVITY OF GAS = 0.7000

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TOTAL GAS PRODUCED = 520

G.O.R. = 74.286

G.MIX = 0.738
