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See Rule 401 & Rule 1122

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

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DEC 10 2004

OOD-ARTESIA

Form C-122
Revised October, 1999

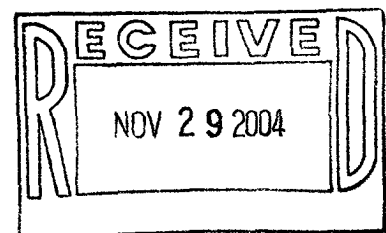
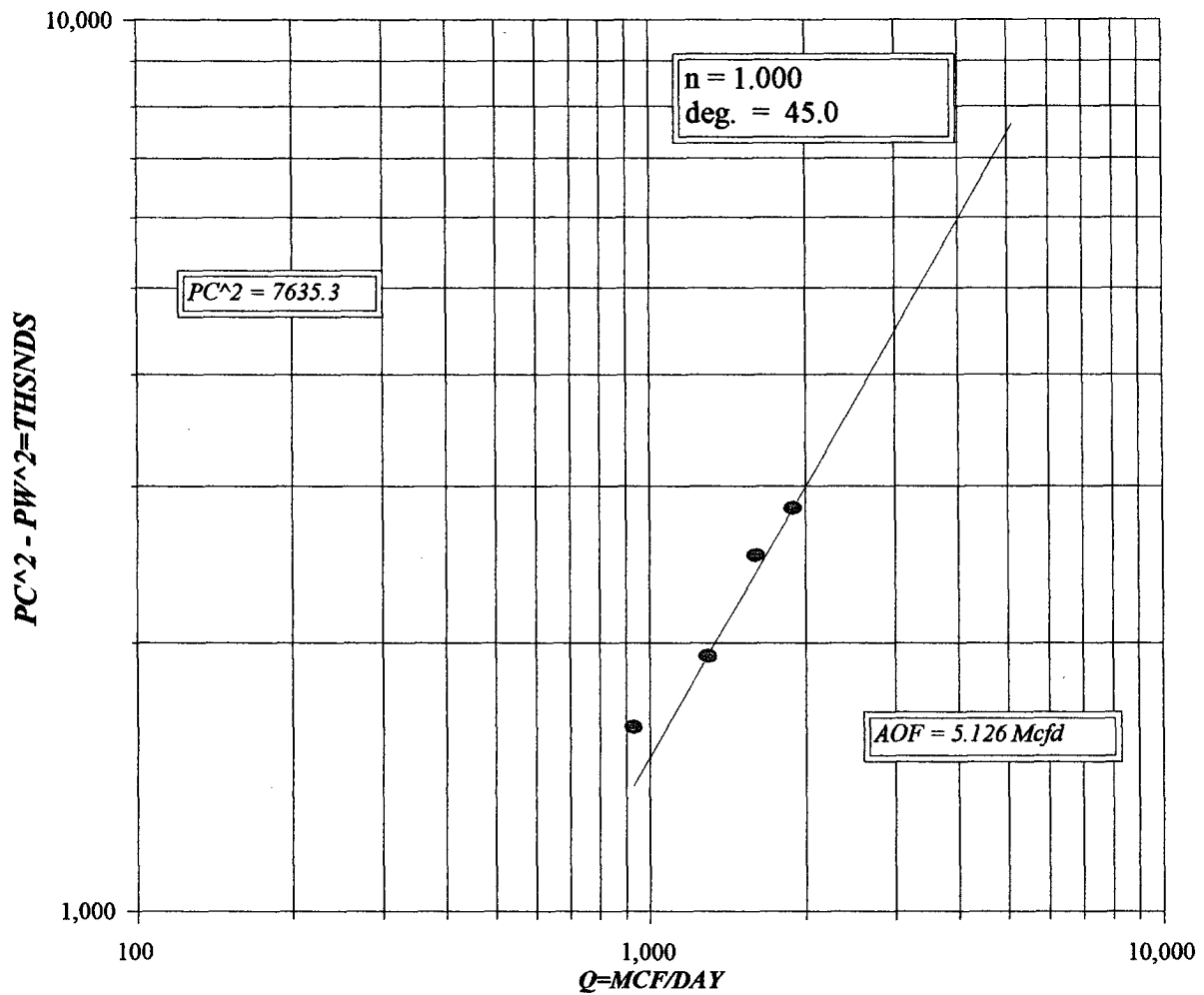
30-015-33460

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator ECHO				Lease or Unit Name STILETTO 34			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/4/04		Well No. 1	
Completion Date 10/19/04		Total Depth		Plug Back TD		Elevation	
Csg. Size 4 1/2		Wt. 11.6		d 4		Set At	
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 9859	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 9859		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 158		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
L 9859		H 9859		Gg 0.609		%CO ₂ 1.344	
				%N ₂ 0.353		%H ₂ S N/A	
				Prover N/A		Meter Run 3.067	
						Taps FLG	
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.
SI						2750	PKR
1	3.067 X 1.250		609	14	100	2435	"
2	3.067 X 1.250		610	29	101	2362	"
3	3.067 X 1.250		613	67	96	2231	"
4	3.067 X 1.250		615	76	95	2150	"
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							930
2							130
3	TOTAL FLOW METER						1,608
4							1,901
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1					DRY GAS		
2					A.P. I. Gravity of Liquid Hydrocarbons		
3					Specific Gravity Separator Gas		
4					Specific Gravity Flowing Fluid		
5					Critical Pressure		
					Critical Temperature		
	P _c	P _{c2}					
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $P_c^2 = \frac{P_c^2 - P_w^2}{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n} = 2.696$		
1		2454.3	6023.8	1611.5			
2		2387.5	5700.1	1935.2			
3		2264	5125.5	2509.8			
4		2191.7	4803.6	2831.7			
5							
Absolute Open Flow					Mcf @ 15.025		
Angle of Slope (°)					Slope, n:		
Remarks:					* NO LIQUID MADE DURING TEST.		
Approved By Division:		Conducted By:		Calculated By:		Checked By:	
PRO WELL TESTING		MERV BUECKER		BM			

NOV 29 2004

ECHO
STILETTO "34" #1



COMPANY : ECHO		LEASE : STILETTO "34"		WELL NO. : 1		Pc = 2763.2		Pc2 = 7635.3	
UNIT :		SECTION : 34		TOWNSHIP : 20S		P12 = 5993.7		Pw = 2454.3	
L :	9859	H :	9859	L/H :	1	G/GMIX :	0.609	5641.6	
%CO2 :	0.692	%N2 :	0.624	H2S :		DATE :	11/4/04	2387.5	
d :	1.995	Fr :	0.018183	GH :	8197.0	RANGE :	26E	5036.4	
							4679.4		2191.7
VOL 1 : 930		PSIA 1 : 2448.2		RESV.TEMP : 148.0		Pc2-Pw2 = 1611.5		Pw2 = 6023.8	
VOL 2 : 1300		PSIA 2 : 2375.2				1935.2		5700.1	
VOL 3 : 1608		PSIA 3 : 2244.2		SHUT-IN PRI = 2763.2		2509.8		5125.5	
VOL 4 : 1901		PSIA 4 : 2163.2				2831.7		4803.6	
		PCR : 674				n = 1.000			
		TCR : 354				Pc2/(Pc2-Pw2) = 4.738			
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1	QM	0.930	0.930	1.300	1.300	1.608	1.608	1.901	1.901
2	TW	534	534	534	534	534	534	534	534
3	Ts	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
4	T	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	PR (est)	3.63		3.52		3.33		3.21	
5	Z(est)	0.809	0.818	0.808	0.815	0.809	0.812	0.810	0.810
6	TZ	461.7	467.0	461.6	465.6	461.9	463.6	462.4	462.7
7	GH/TZ	17.752	17.552	17.757	17.604	17.746	17.683	17.726	17.717
8	eS	1.946	1.931	1.946	1.935	1.945	1.941	1.944	1.943
9	I-e-S	0.486	0.482	0.486	0.483	0.486	0.485	0.486	0.485
10	PI	2448.2	2448.2	2375.2	2375.2	2244.2	2244.2	2163.2	2163.2
11	P12 /1000	5993.7	5993.7	5641.6	5641.6	5036.4	5036.4	4679.4	4679.4
12	Fr	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183
13	Fc=FrTZ	8.396	8.492	8.394	8.466	8.399	8.429	8.408	8.413
14	FcQm	7.81	7.90	10.91	11.01	13.51	13.55	15.98	15.99
15	L/H(FcQm)%	61.0	62.4	119.1	121.1	182.4	183.7	255.5	255.8
16	Fw	29.636217	30.075401	57.88997	58.538363	88.641463	89.049839	124.06316	124.146206
17	Pw2	6023.3	6023.8	5699.5	5700.1	5125.1	5125.5	4803.5	4803.6
18	Ps2	11720.5	11633.6	11092.2	11030.4	9970.2	9947.5	9337.9	9334.8
19	Ps	3423.5	3410.8	3330.5	3321.2	3157.6	3154.0	3055.8	3055.3
20	P	2935.9	2929.5	2852.8	2848.2	2700.9	2699.1	2609.5	2609.2
21	Pr	4.36	4.35	4.23	4.23	4.01	4.00	3.87	3.87
22	Tr	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
23	Z	0.818	0.818	0.815	0.815	0.812	0.812	0.810	0.810
									FORM C122-D

