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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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MAY 30 2006

ULL-NTESIA

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator ECHO PRODUCTION, INC					Lease or Unit Name STILETTO 27 Federal				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/26/06		Well No. 1		
Completion Date 4/19/06		Total Depth 9968		Plug Back TD 9928		Elevation		Unit Ltr - Sec - TWP - Rge 27 20 25	
Csg. Size 5 1/2	Wt. 15 1/2	d	Set At 9928	Perforations: From: 9595 To: 9777			County EDDY		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9488	Perforations: From: OPEN To: END			Pool 74640 Cemetary; Morrow (Gas)		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 9488		Formation Morrow			
Producing Thru TBG		Reservoir Temp. °F 168.9 @ 9488		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection Agave Agave	
L 9488	H 9488	Gg 0.616	%CO ₂ 2.425	%N ₂ 0.317	%H ₂ S	Prover N/A	Meter Run 2.067	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F
SI						2650		PKR	
1	2 X	1.250	542	39.7	71	840		"	
2	2 X	1.250	549	44.9	80	700		"	
3	2 X	1.250	557	46.2	87	650		"	
4	2 X	1.250	557	49	87	620		"	
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}	Rate of Flow Q. Mcfd	
1	8.12		148.46	555.2	0.9896	1.274	1.048	1,593	
2	8.12		158.89	562.2	0.9813	1.274	1.044	1,684	
3	8.12		162.31	570.2	0.975	1.274	1.043	1,708	
4	8.12		167.15	570.2	0.975	1.274	1.043	1,758	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mcf bbl.				
1	0.81	531	1.47	0.911	A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.				
2	0.82	540	1.5	0.918	Specific Gravity Separator Gas 0.616 XXXXXXXX				
3	0.83	547	1.52	0.92	Specific Gravity Flowing Fluid XXXXXX N/A				
4	0.83	547	1.52	0.92	Critical Pressure * 679 P.S.I.A. N/A P.S.I.A.				
5					Critical Temperature * 359 R. N/A R				
P _c 2663.2 P _{c2} 7092.6									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.075$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.075$				
1		896.9	804.4	6288.2					
2		771.8	595.7	6497					
3		728	529.9	6562.7	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.89$				
4		704.8	496.8	6595.9					
5					79825				
Absolute Open Flow 1.890 Mcfd @ 15.025					Angle of Slope (°) 45 MAY 4 2006				
Remarks: Well produced 1.7 bbs H2O -0- Oil during test - * = Corrected to 2.425 % C02									
Approved By Division:			Conducted By: Production Energy Serv., Inc.		Calculated By: BM		Checked By: BM		

COMPANY : ECHO PRODUCTION, INC LEASE : STILLETTO 27 WELL NO. : 1
 UNIT : SECTION : 27 TOWNSHIP : 20
 L : 9488 H : 9488 L/H : 1 G/GMIX : 0.616
 %CO2 : 2.425 %N2 : 0.317 H2S : DATE : 4-26-06
 d : 1.995 Fr : 0.018231 GH : 5844.6 RANGE : 25

VOL 1 : 1593 PSIA 1 : 853.2 RESV.TEMP 168.9
 VOL 2 : 1684 PSIA 2 : 713.2
 VOL 3 : 1708 PSIA 3 : 663.2 SHUT-IN PR= 2663.2
 VOL 4 : 1758 PSIA 4 : 633.2
 PCR : 679
 TCR : 359

LINE		RATE 1		RATE 2		RATE 3		RATE 4		
		1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1	QM	1.593	1.593	1.684	1.684	1.708	1.708	1.758	1.758	
2	TW	534	534	534	534	534	534	534	534	
3	Ts	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	
4	T	581.4	581.4	581.4	581.4	581.4	581.4	581.4	581.4	
	PR (est)	1.26		1.05		0.98		0.93		
5	Z(est)	0.887	0.875	0.900	0.889	0.905	0.894	0.908	0.897	
6	TZ	515.7	509.0	523.4	516.8	526.2	519.6	528.0	521.3	
7	GH/TZ	11.333	11.482	11.167	11.309	11.107	11.247	11.070	11.212	
8	eS	1.530	1.538	1.520	1.528	1.517	1.525	1.515	1.523	
9	l-e-S	0.346	0.350	0.342	0.346	0.341	0.344	0.340	0.343	
10	Pt	853.2	853.2	713.2	713.2	663.2	663.2	633.2	633.2	
11	Pt2 /1000	728.0	728.0	508.7	508.7	439.8	439.8	400.9	400.9	
12	Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	
13	Fc=FrTZ	9.402	9.280	9.542	9.422	9.594	9.474	9.625	9.503	
14	FcQm	14.98	14.78	16.07	15.87	16.39	16.18	16.92	16.71	
15	L/H(FcQm)	224.3	218.5	258.2	251.7	268.5	261.8	286.3	279.1	
16	Fw	77.66403	76.46119	88.34043	87.01003	91.46545	90.10021	97.27821	95.810893	
17	Pw2	805.6	804.4	597.0	595.7	531.3	529.9	498.2	496.8	
18	Ps2	1232.3	1237.3	907.5	910.3	805.8	808.0	754.6	756.4	
19	Ps	1110.1	1112.3	952.6	954.1	897.7	898.9	868.7	869.7	
20	P	981.6	982.8	832.9	833.7	780.4	781.0	750.9	751.5	
21	Pr	1.45	1.45	1.23	1.23	1.15	1.15	1.11	1.11	
22	Tr	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	
23	Z	0.875	0.875	0.889	0.889	0.894	0.894	0.897	0.896	

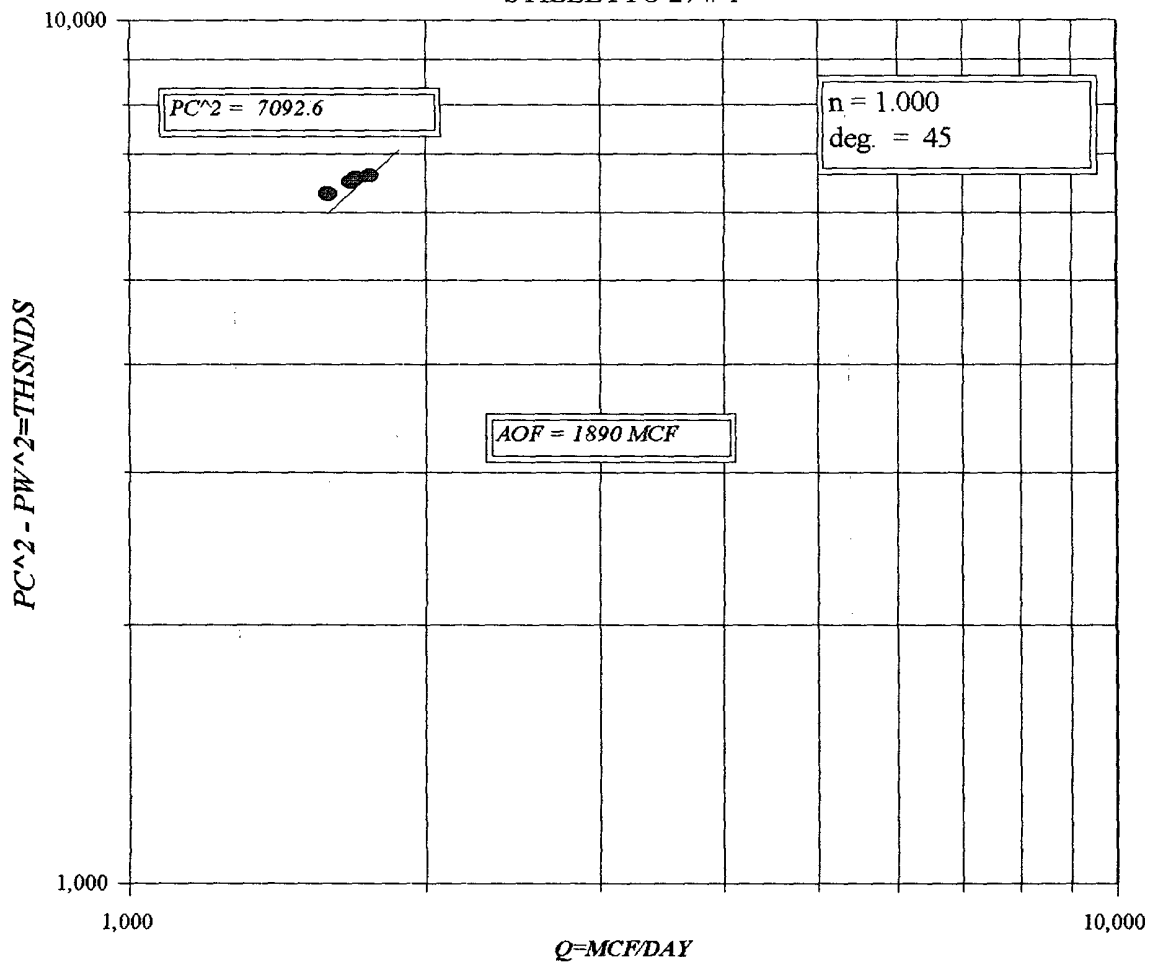
FORM C122-D

Field Data Report

Rate¹ - 26/
 Rate 28
 30
 32
 34

ECHO PRODUCTION, INC.

STILLETTO 27 # 1



MAY - 4 2006

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