C15 F

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

RECEIVED OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	OXY USA				Lease or Unit Name	ENGLEBERT			
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 11/27/01	Well No.: 1		
Completion Date	Total Depth			Plug Back TD		Elevation	Unit Ltr - Sec - TWP - Rge: 15 18S 25E		
Csg. Size	Wt.	d	Set At	Perforations: From: 7174	To: 7194		County: EDDY		
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 7083	Perforations: From:	To:		Pool: E PENASCO DRAW U/PENN		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 7083			Formation		
Producing Thru: Tubing	Reservoir Temp. °F: 131	Mean Annual Temp. °F: 60		Baro. Press.-P_a: 13.2			Connection: AIR		
L: 7092	H: 7092	Gg: 0.837	%CO_2: 2.688	%N_2: 0.695	%H_2S: N/A	Prover: N/A	Meter Run: 3.068		Taps: FLG

	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					947	N/A	PKR	N/A	
1	3.068 X .875	100	2	42	730				1 HR
2	3.068 X .875	100	5	49	471				1 HR
3	3.068 X .875	100	11	47	475				1 HR
4	3.068 X .875	100	30	41	644				1 HR
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	3.65	15.04	113.2	1.018	1.093	1.104	67
2	3.65	23.8	113.2	1.011	1.093	1.096	105
3	3.65	35.3	113.2	1.013	1.093	1.1	156
4	3.65	58.3	113.2	1.019	1.093	1.104	261
5							

No.	P_r	Temp. °R	T_r	Z
1	0.74	502	1.17	0.821
2	0.75	509	1.19	0.833
3	0.75	507	1.18	0.827
4	0.74	501	1.17	0.821
5				

Gas Liquid Hydrocarbon Ratio	0.792		Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons	48.1		Deg.
Specific Gravity Separator Gas	0.837		XXXXXXX
Specific Gravity Flowing Fluid	XXXXX	G.MIX= 2.867	
Critical Pressure	675 P.S.I.A.	643	P.S.I.A.
Critical Temperature	427 R.	533	R

P_c 1383.6 P_c^2 1914.3

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1363.7	1859.7	54.6
2		1341.6	1799.9	114.4
3		1282.1	1643.8	270.5
4		1216.6	1480.1	434.2
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} = 4.4$ (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.64$

AOF = Q $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 689$

Absolute Open Flow	689	Mcfd @ 15.025	Angle of Slope ():	56.6	Slope n: 0.657

Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. WELL MADE 31 BBLS OF 48.1 API GRAVITY CONDENSATE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MERV BUECKER	BM