

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator UXY USA				Lease or Unit Name CELTIC STATE				
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/9/99		Well No. DDO		
Completion Date 6/18/99		Total Depth 9168		Plug Back TD 9112		Elevation		
Log Size 5 1/2		WL 17#	d 4.892	Sec At 9168	Perforations: From: 8943 To: 8980		County EDDY	
Log Size 2-7/8		WL 6.5	d 2.441	Sec At 8896	Perforations: From: To:		Pool Logan Draw Morrow	
Type Well - Single - Bradenhead - G.C. or G.C. Multiple single				Facker Sec At 8900		Formation MORROW		
Producing Thru T8G		Reservoir Temp. °F 163.0		Mean Annual Temp. °F 60		Baro. Press. - P. 13.2		
L 8900	II 8900	Gg .641	% CO ₂ .486	% N ₂ .540	% H ₂ S -0-	Prover -0-	Measure Run FLG	
FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	Orifices Size	Press. psig.	Diff. h _w	Temp. °F	Press. psig.	Temp. °F	
5i						2910	N/A	
1.	4.026 X	2.750	851	.73	115°	2820	PKR	
2.	4.026 X	2.750	864	6.9	84°	2830		
3.	4.026 X	2.750	884	19.5	71°	2790		
4.	4.026 X	2.750	900	31.0	66°	2760		
5.	4.026 X	2.750	922	56.0	68°	2690		
RATE OF FLOW CALCULATIONS								
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf	
1.							949	
2.							3022	
3.	GAS VOLUME BY TOTAL FLOW METER						5326	
4.							6894	
5.							9199	
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio 70.528		Moisture	
1.					A.P. L Gravity of Liquid Hydrocarbons 57.7		Deg.	
2.					Specific Gravity Separator Gas .641		XXXXXXXXXX	
3.	TOTAL FLOW				Specific Gravity Flowing Fluid N/A		XXXXXX	
4.					Critical Pressure 673		PSIA	
5.					Critical Temperature 368		R	
P ₁ 2923.2 P ₂ 8545.1								
NO.	P ₁ ²	P ₂	P ₂ ²	P ₂ ² - P ₁ ²	1) $\frac{P_2^2}{P_1^2 - P_2^2} = 19.005$			(2) $\left[\frac{P_2^2}{P_1^2 - P_2^2} \right] = 19.005$
1.	8083.8	2858.2	8169.3	375.8				
2.	7857.9	2850.1	8123.1	422.0				
3.	7690.6	2852.1	8134.5	410.6				
4.	7307.3	2845.3	8095.5	449.6				
5.								
Absolute Open Flow 174.824					Mold @ 15.025		Angle of Slope @ 45°	Slope, n 1.000
Remarks: * WELL MADE 15 BBLS OF 57.7 API GRAVITY CONDENSATE DURING TEST								
Approved By Division		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM		