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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-122
Revised 4-1-1991

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Ocean Energy Resources, Inc.					Lease or Unit Name Parkway West Unit				
Test Type ☒ Initial ☐ Annual ☐ Special					Test Date Oct 24, 2000		Well No. 11		
Completion Date 11-6-00		Total Depth 11,500		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge. 20-19s-29e	
Cag. Size 5.500	Wt. 17.000	d 4.892	Set At	Perforation: From 11336 To 11356			County Eddy		
Tbg. Size 2.375	Wt. 4.700	d 1.995	Set At 11266	Perforation: From To			Pool W Parkway Morrow		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Single					Packer Set At 11266		Formation Morrow		
Producing Thru Tubing		Reservoir Temp.F 181		Mean Annual Temp.F 60		Baro. Pressure 13.20		Connection 10-6-00	
L 11346	H 11346	Cg .611	% CO ₂ .56	% N ₂ .29	% H ₂ S	Prover		Meter Run 4.026	Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		SIP/FLOW DURATION (HRS.)
NO.	(PROVER) LINE SIZE x ORIFICE SIZE	PRESS. PSIG	DIFF. h _w	TEMP. F	PRESS. PSIG	TEMP. F	PRESS. PSIG	TEMP. F	
SHUT-IN PRESSURE					3250	70	4370	180	90
1.	4.03 x 2.00	47.15	3.20	104	3103	70	4240	181	1
2.	4.03 x 2.00	49.50	15.50	106	3000	70	4173	180	1
3.	4.03 x 2.00	53.25	32.70	100	2850	70	3995	179	1
4.	4.03 x 2.00	58.30	63.82	79	2700	70	3985	179	1

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	PRESSURE P _m	FLOW TEMP. FACTOR F _t	GRAVITY FACTOR F _g	SUPER COMPRESS. FACTOR F _{sy}	RATE OF FLOW (Q) MCFD	
1.	20.320	13.897	60.3	.9602	1.2794	1.0036	348.1	
2.	20.320	31.175	62.7	.9585	1.2794	1.0037	779.7	
3.	20.320	46.615	66.4	.9636	1.2794	1.0043	1172.8	
4.	20.320	67.551	71.5	.9822	1.2794	1.0052	1734.0	

NO.	P _r	TEMP.	T _r	Z
1.	.090	564	1.574	.9929
2.	.093	566	1.580	.9927
3.	.099	560	1.563	.9915
4.	.106	539	1.505	.9896

Gas-Liquid Hydrocarbon Ratio		Mcf/bbl
API Gravity of Liquid Hydrocarbons		Deg.
Specific Gravity Separator Gas	.611	
Specific Gravity Flowing Fluid		.611
Critical Pressure	673 PSIA	673 PSIA
Critical Temperature	358 R	358 R

$P_C = 4383.2$		$P_C^2 = 19212.4$	
NO.	P_w	P_w^2	$P_C^2 - P_w^2$
1.	4253.2	18089	1122.733
2.	4186.2	17524	1688.172
3.	4008.2	16065	3146.778
4.	3998.2	15985	3226.842

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = \frac{5.954}{\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n} = \frac{5.954}{10323}$$

$$AOF = Q$$

Absolute Open Flow	10323	Mcf/d @ 15.025	Angle of Slope - 45.0	Slope, n	1.000
Remarks No liquid produced during the test.					
This test uses measured bottomhole pressures listed in the casing data section					
No valid slope, AOF from highest rate and forced slope of 1.0					
Approved By Division:	Conducted By: Roy Cherry	Calculated By: BPT System/SCHLUMBERGER	Checked By: Dick Simper		