

Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Ocean Energy Resources, Inc.					Lease or Unit Name Panther Martin				
Test Type <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date April 25, 2001		Well No. #2		
Completion Date 3/29/01		Total Depth 12,670'		Plug Back TD 12545'		Elevation 4009'		Unit Ltr - Sec - TWP - Rge. 11-3-16S-35E	
Csg. Size 5.500	Wt. 23.000	d 4.670	Set At	Perforation: From 12152 To 12188		County Lea		Pool Townsend Livingston	
Tbg. Size 2.375	Wt. 4.700	d 1.995	Set At 12073	Perforation: From To		Packer Set At 12073		Formation Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Single					Baro. Pressure 13.30		Connection		
Producing Thru Tubing		Reservoir Temp.F 184		Mean Annual Temp.F 60		Prover		Meter Run Taps 3.068 Flange	
L 12170	H 12170	Gg .699	% CO ₂ .50	% N ₂ 1.15	% H ₂ S				

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									
1.	3.07 x 2.00	346.90	.80	74	2150	65	3179	183	82
2.	3.07 x 2.00	354.70	5.00	77	2060	69	3147	184	1
3.	3.07 x 2.00	368.90	16.60	78	1998	76	3080	184	1
4.	3.07 x 2.00	400.30	50.30	77	1887	79	2934	183	1
					1656	82	2640	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 _{py}	RATE OF FLOW (Q) MCFD
1.	21.860	16.975	360.2	.9868	1.1961	1.0362	453.9
2.	21.860	42.895	368.0	.9833	1.1961	1.0361	1142.7
3.	21.860	79.652	382.2	.9825	1.1961	1.0374	2122.7
4.	21.860	144.236	413.6	.9836	1.1961	1.0410	3861.4

NO.	P _r	TEMP.	T _r	Z
1.	.540	534	1.389	.9313
2.	.551	537	1.399	.9315
3.	.573	538	1.402	.9292
4.	.620	537	1.398	.9228

Gas-Liquid Hydrocarbon Ratio	26.3	Mcf/bbl
API Gravity of Liquid Hydrocarbons		Deg.
Specific Gravity Separator Gas	.699	
Specific Gravity Flowing Fluid		.880
Critical Pressure	667 PSIA	658 PSIA
Critical Temperature	384 R	442 R

P _c =	3192.3	P _c ² =	10190.8
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	3160.3	9987	203.283
2.	3093.3	9568	622.275
3.	2947.3	8686	1504.202
4.	2653.3	7040	3150.779

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.234}{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n} = 2.484$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9592$$

Absolute Open Flow	9592	Mcf @ 15.025	Angle of Slope - 52.2	Slope, n .775
Remarks	Plot uses measured bottomhole pressures (data listed in casing table). Test produced 12.5 bbls of condensate.			
Approved By Division by Orig. Signed Paul Kautz Geologist	Conducted By: Brian Stearmer	Calculated By: BPT System/SCHLUMBERGER	Checked By: Dick Simper	

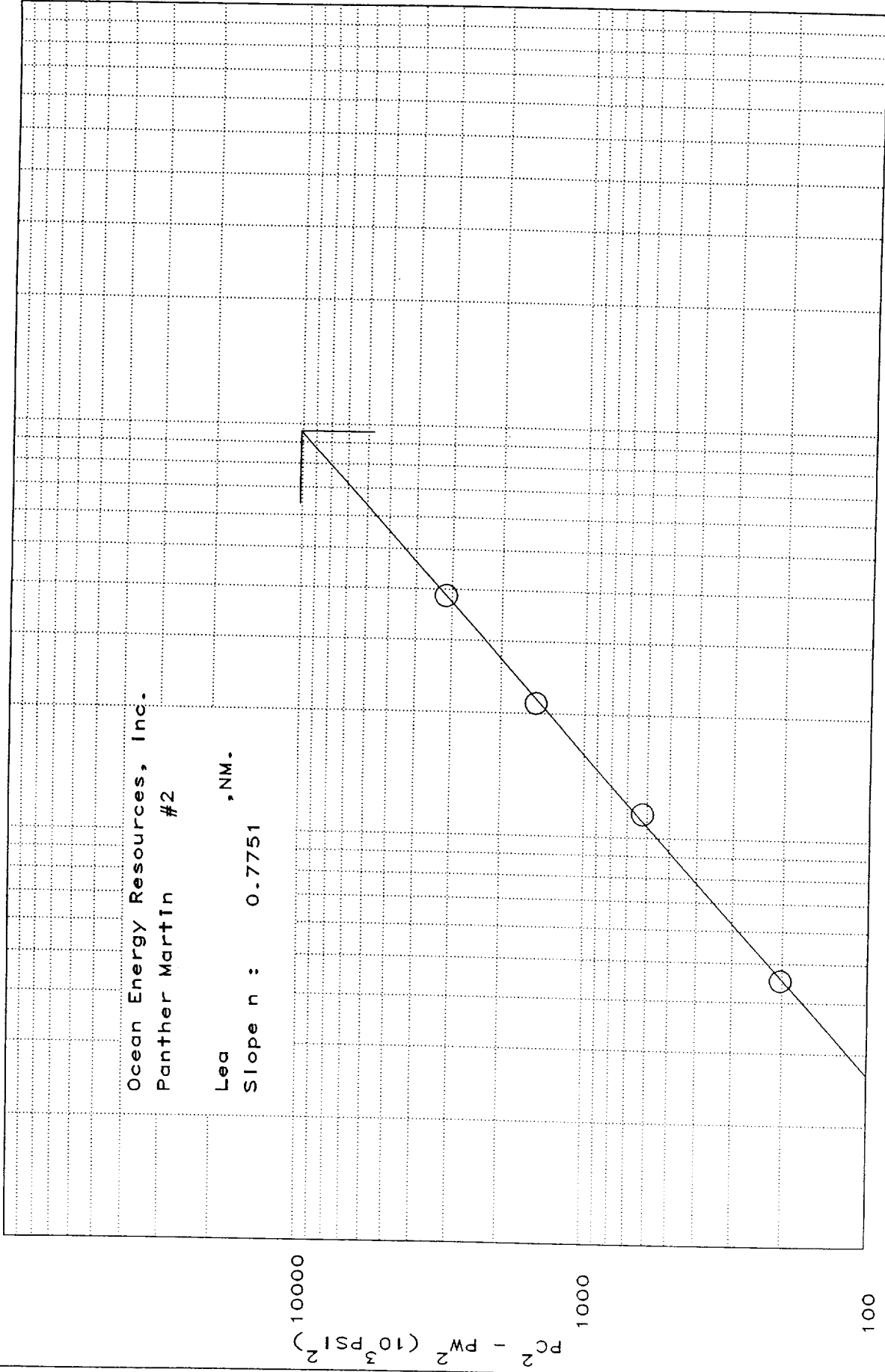
GAS WELL BACK PRESSURE CURVE

WELL TESTER: Schlm, B.Stearmer
TEST DATE: April 25, 2001

Ocean Energy Resources, Inc.
Panther Martin #2

Lea, NM.

Slope n : 0.7751



10000
1000
100
Q (MCF/DAY)

RECEIVED
2004
Harris
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