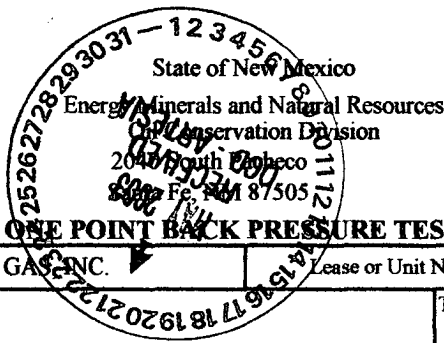


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122



Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MURCHISON OIL & GAS, INC.				Lease or Unit Name OGDEN STATE			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/15/03		Well No. 4	
Completion Date 2/24/03		Total Depth 11542		Plug Back TD 11539		Elevation 3379 GL	
Unit Ltr - Sec - TWP - Rge P 2 25 26		County EDDY		Pool N Cedar Lake		Formation CISCO ATOKA-MORROW	
Csg. Size 5 1/2	Wt. 17 #	d 4.892	Set At 11542	Perforations: From: 9993 To: 11486		Connection DUKE ENERGY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 9936	Perforations: From: OPEN To: ENDED		Packer Set At 9936	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Baro. Press.-P _a 13.2		Meter Run 4.026	
Producing Thru Tbg. Size	Reservoir Temp.-F 188.9 @ MID-P	Mean Annual Temp. °F 60	Prover N/A		Taps FLG		
L 9993	H 9993	Gg 0.666	%CO ₂ 0.558	%N ₂ 0.61	%H ₂ S N/A		

FLOW DATA				TUBING DATA				CASING DATA		Duration of Flow
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						2416		PKR		78 HRS
1	4	X 1.125	113	34.5	84	1935		"		1 HR
2	4	X 1.125	586	45.3	87	1903		"		1 HR
3	4	X 1.125	605	125.2	88	1834		"		1 HR
4	4	X 1.125	591	229	84	1702		"		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							519
2							1,331
3	MEASURED		BY	TOTAL	FLOW	METER	2,258
4							3,029
5							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A		Mcf bbl
1					A.P. I. Gravity of Liquid Hydrocarbons	N/A		Deg
2					Specific Gravity Separator Gas	0.666		XXXXXXXX
3		N/A			Specific Gravity Flowing Fluid	XXXXXX		
4					Critical Pressure	670	P.S.I.A.	670 P.S.I.A.
5					Critical Temperature	378	R.	378 R

P _c	2429.2	P _{c2}	5901	
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1948.9	3798.2	2102.8
2		1920.8	3689.6	2211.4
3		1861	3463.4	2437.6
4		1742	3034.6	2866.4
5				

$$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.059}{6.236} \quad (2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.059}{6.236}$$

$$AOF = Q \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{79825}{6.236}$$

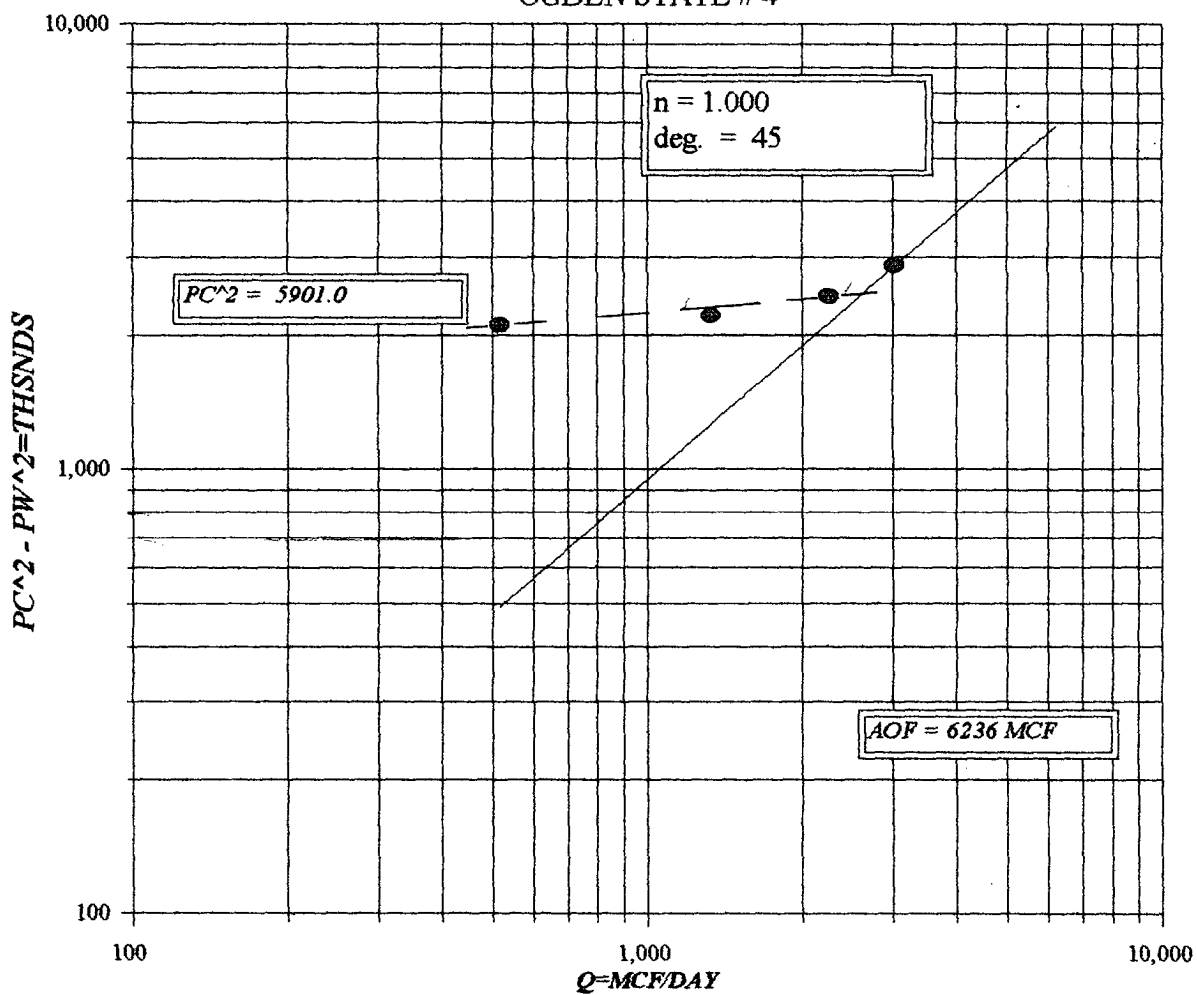
Absolute Open Flow	6,236	Mcf/d @ 15.025	Angle of Slope (°)	45	Slope n:	1
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Remarks: WELL PRODUCED NO FLUID DURING TEST

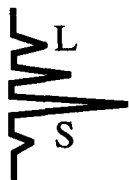
Approved By Division:	Conducted By: JARREL SERVICE, INC.	Calculated By: BM	Checked By: BM
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MURCHISON OIL & GAS, INC.

OGDEN STATE # 4



FORM C122-D



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Jarrel Services Inc.
Attention: Mr. Donnie Dickerson
P. O. Box 1230
Hobbs, New Mexico 88240

SAMPLE:
IDENTIFICATION: Ogden St. #4
COMPANY: Murchison Oil & Gas
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 5/15/03 12:30 pm
ANALYSIS DATE: 5/16/03
PRESSURE - PSIG 628
SAMPLE TEMP. °F 83
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Donnie Dickerson
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.610	
Carbon Dioxide (CO2)	0.558	
Methane (C1)	87.255	
Ethane (C2)	6.765	1.805
Propane (C3)	2.075	0.570
I-Butane (IC4)	0.480	0.157
N-Butane (NC4)	0.701	0.221
I-Pentane (IC5)	0.394	0.144
N-Pentane (NC5)	0.403	0.146
Hexane Plus (C6+)	0.759	0.329
	100.000	3.372
BTU/CU.FT. - DRY	1160	MOLECULAR WT. 19.3249
AT 14.650 DRY	1156	
AT 14.650 WET	1136	
AT 14.73 DRY	1162	
AT 14.73 WET	1142	
SPECIFIC GRAVITY -		
CALCULATED	0.666	
MEASURED		