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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

30-025-36302

Operator DEVON ENERGY		Lease or Unit Name RIO BLANCO 9 ST	
Type Test ☒ Initial ☐ Annual ☐ Special		Test Date	Well No. 1
Completion Date 9/27/2004	Total Depth	Plug Back TD	Elevation
Csg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 14197
Perforations: From: To:		County LEA	
Perforations: From: To:		Pool	
Type Well-Single-Bradford-G.O. or G.O. Multiple SINGLE		Packer Set At 14197	Formation
Producing Thru TUBING	Reservoir Temp.	Mean Annual Temp. 60	Baro. Press. P_a 13.2
L 14214	H 14214	Gg 0.62	%CO ₂ 1.66
%N ₂ 1.936	%H ₂ S 0	Prover 0	Meter Run 4.026
Taps FLG			Connection SALES
FLOW DATA		TUBING DATA	
Casing DATA		Duration of Flow	
No.	Prover Line Size	Orifice Size	Press p.s.i.g.
SI			
1	4.026 X 2.250	680	2.1
2	4.026 X 2.250	398	5.3
3	4.026 X 2.250	402	10.8
4	4.026 X 2.250	411	22.7
5			
RATE OF FLOW CALCULATIONS			
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m
1			
2			
3	TOTAL	FLOW	METER
4			
5			
No.	P_r	Temp. R	T_r
1			
2	TOTAL	FLOW	METER
3			
4			
5			
Gas Liquid Hydrocarbon Ratio		N/A	
A.P. I. Gravity of Liquid Hydrocarbons		N/A	
Specific Gravity Separator Gas		0.62	
Specific Gravity Flowing Fluid		XXXXXX	
Critical Pressure		675 P.S.I.A.	
Critical Temperature		359 R	
N/A		N/A	
N/A		R	
No.	P_i^2	P_w^2	$P_w^2 - P_i^2$
1	4151.6	17235.8	1402.4
2	4038.5	16309.2	2329
3	3819.3	14587.1	4051.1
4	3541.7	12543.4	6094.8
5			
$(1) \quad P_c^2 = \frac{3.058}{P_c^2 - P_w^2} \quad (2) \quad \left[\frac{P_o^2}{P_c^2 - P_w^2} \right]^n = 2.111$ $AOF = Q \left[\frac{P_o^2}{P_c^2 - P_w^2} \right]^n = 6.997$			
Absolute Open Flow		7.000	
Mcf/d @ 15.025		Angle of Slope θ : 56.23	
Remarks:		Slope, n: 0.6686	
NO LIQUID MADE DURING TEST.			
Approved By Division:		Conducted By:	
MEWBOURNE OIL		MERV BUECKER	
Calculated By:		Checked By:	
BM			



Laboratory Services, Inc.

2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Devon Energy
P.O. Box 250
Artesia, New Mexico 88211-0250

SAMPLE:
IDENTIFICATION Rio Blanco 9 #1
COMPANY: Devon Energy
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED 12/16/04 12:00pm
ANALYSIS DATE: 12/17/04
PRESSURE - PSIG 400
SAMPLE TEMP. °F 73
ATMOS. TEMP. °F 40

GAS (XX) LIQUID ()
SAMPLED BY: J. Rice/Pro Well
ANALYSIS BY: Vicki McDaniel

REMARKS: H2S present in unknown concentration

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.838	
Carbon Dioxide (CO2)	1.660	
Methane (C1)	91.952	
Ethane (C2)	2.711	0.723
Propane (C3)	0.827	0.172
I-Butane (IC4)	0.119	0.038
N-Butane (NC4)	0.230	0.072
I-Pentane (IC5)	0.124	0.045
N-Pentane (NC5)	0.103	0.037
Hexane Plus (C6+)	0.586	0.233
	100.000	1.321

BTU/CU.FT. - DRY 1039
AT 14.650 DRY 1035
AT 14.650 WET 1017
AT 14.73 DRY 1041
AT 14.73 WET 1023

MOLECULAR WT. 17.9779

SPECIFIC GRAVITY -
CALCULATED 0.620
MEASURED

COMPANY : DEVON ENERGY

LEASE : RIO BLANCO 8 ST. WELL NO. : 1

UNIT :
L : 14214
%CO2 : 1.88
d : 2.441

SECTION :
H : 14214
%N2 : 1.838
FI : 0.010783

L/H : 1
H28 :
GH : 8812.7

TOWNSHIP :
G/GMIX : 0.820
DATE : 01/00/00
RANGE :

Pc = 4317.2 Pc2 = 18838.2

P12 = #####

#####

Pw = 4151.8
4038.5
3819.3
3641.7

VOL 1 : 1297
VOL 2 : 1801
VOL 3 : 2288
VOL 4 : 3314

P8IA 1 : 4148.2
P8IA 2 : 4033.2
P8IA 3 : 3808.2
P8IA 4 : 3517.2

REBV.TEMP : 218.1
SHUT-IN PRI = 4317.2

PCR : 876
TCR : 358

n = 0.889

Pc2/(Pc2-Pw2) = 13.290
8.003
4.801
3.058

[Pc2/Pc2-Pw2]n = 5.838
4.017
2.774
2.111

AOF= Q 7.314
6.431
6.348
6.987

LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1	QM	1.297	1.297	1.801	1.801	2.288	2.288	3.314	3.314
2	TW	534	534	534	534	534	534	534	534
3	Ts	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1
4	T	805.1	805.1	805.1	805.1	805.1	805.1	805.1	805.1
5	PR (est)	5.15	5.98	5.98	5.98	5.84	5.84	5.21	5.21
6	Z (est)	0.802	0.895	0.895	0.895	0.882	0.882	0.867	0.867
7	TZ	845.8	578.1	541.5	570.5	533.7	558.8	824.8	847.1
8	QH/TZ	16.147	15.287	16.274	15.447	16.513	15.738	16.788	16.107
9	eS	1.832	1.775	1.841	1.785	1.858	1.804	1.877	1.829
10	I-eS	0.454	0.437	0.457	0.440	0.462	0.448	0.467	0.453
11	Pt	4148.2	4148.2	4033.2	4033.2	3808.2	3808.2	3517.2	3517.2
12	P2 /1000	17207.6	17207.6	16286.7	16286.7	14502.4	14502.4	12370.7	12370.7
13	Fi	0.010783	0.010783	0.010783	0.010783	0.010783	0.010783	0.010783	0.010783
14	Fo=FrTZ	5.874	8.201	5.828	8.140	5.744	8.027	5.847	5.888
15	FoQm	7.82	8.04	9.33	8.83	13.14	13.79	18.71	19.52
16	L/H(FoQm)2	58.0	64.7	87.1	98.6	172.7	180.1	350.2	380.9
17	Fw	26.38554	28.23351	39.77533	42.48384	79.73787	84.75818	163.8841	172.87772
18	Pw2	17233.8	17235.8	16308.8	16308.2	14582.1	14587.1	12534.4	12543.4
19	P82	31578.0	30588.8	30019.1	29107.8	27088.4	26320.5	23832.8	22847.4
20	Pe	6819.3	5630.7	5479.0	5395.1	5204.5	5130.3	4851.0	4790.3
21	P	4883.7	4839.5	4786.1	4714.2	4508.3	4468.3	4184.1	4153.8
22	Pr	7.24	7.17	7.05	6.98	6.88	6.82	6.20	6.15
23	Z	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
24		0.952	0.948	0.943	0.940	0.925	0.923	0.904	0.902

DEVON ENERGY
RIO BLANCO "9" ST. #1

