

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: E.O.G. Resources, Inc.

Lease or Unit Name: Ross Draw

Type Test:

☒ Initial
☐ Annual
☐ Special

Test Date: 5-23-00

Well No.: 22

Completion Date:

Total Depth

Plug Back TD

Elevation

Unit Ltr. - Sec. - TWP - Rge.
E 26 26 30

Csg. Size: 2 7/8" Wt. 6.85#

D 2.441'

Set At 12,852'

Perforations:
From: 11,966' To: 12,656'

County: Eddy, NM

Thg. Size: N/A Wt. N/A

D N/A

Set At N/A

Perforations:
From: N/A To: N/A

Pool
Ross Draw Wolfcamp

Type Well - Single - Bradenhead - G.G. or G.O. Multiple:
Single

Packer Set At: None

Formation: Wolfcamp

Producing Thru Csg.

Reservoir Temp. °F:
190.5 @ 13,771'

Mean Annual Temp. °F:
60

Baro. Press - P_s: 13.2

Connection: Sales

L: 11,966'

H: 11,966'

Gg: .602

%CO₂: .404

%N₂: .431

%H₂S:

Prover:

Meter Run
4.026

Taps:
FLG

FLOW DATA

TUBING DATA

CASING DATA

Duration Of Flow

No.	Prover Line Size	X	Orifice 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	Duration Of Flow
SI							N/A	N/A	1654	N/A	72 Hrs
1.	4"	x	2.000	85	4.50	87	N/A	N/A	1570	N/A	1 Hr.
2.	4"	x	2.000	94	8.30	87	N/A	N/A	1464	N/A	1 Hr.
3.	4"	x	2.000	100	16.20	85	N/A	N/A	1360	N/A	1 Hr.
4.	4"	x	2.000	106	19.50	83	N/A	N/A	1248	N/A	1 Hr.
5.											

RATE OF FLOW CALCULATIONS

No.	COEFFICIENT (24 HOUR)	h _w P _m	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	19.81	21.02	98.2	.9750	1.289	1.006	527
2.	19.81	29.83	107.2	.9750	1.289	1.006	747
3.	19.81	42.82	113.2	.9768	1.289	1.010	1,079
4.	19.81	48.21	119.2	.9786	1.289	1.010	1,217
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas Mcf/bbl.
1.	.14	547	1.52	.988	A. P. I. Gravity of Liquid Hydrocarbons	Dry
2.	.15	547	1.52	.988	Specific Gravity Separator Gas	.602
3.	.16	545	1.52	.980	Specific Gravity Flowing Fluid	XXXXXX
4.	.17	543	1.51	.980	Critical Pressure	671
5.					Critical Temperature	358

P_c 1667.2

P_{c2} 2779.6

No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	N/A	1584.2	2509.	269.8
2.	N/A	1479.4	2188.6	590.9
3.	N/A	1378.2	1899.3	880.2
4.	N/A	1268.2	1608.2	1171.4
5.				

(1) P_{c2} = 2.373

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.679$

AOF = Q

$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.043$

Absolute Open Flow

2.043 Mcfd@ 15.025

Angle of Slope θ: 59.03

Slope, n: .5999

Remarks: No fluid produced

Approved By Division

Conducted By:
Production Testing Services, Inc.
505-391-8703

Calculated By:
Bob Murray, Independent Consultant
505-395-2349

Checked By:
Bob Murray, Independent Consultant
505-395-2349

505-391-8703

Absolute Open Flow Field Data Sheet

E.O.G RESOURCES
ROSS DRAW #22

