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

Energy, Minerals and Natural Resources Department

C-157

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Burlington Resources Oil & Gas Co.		Lease or Unit Name: Corral Draw 9Fed	
Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 10-21-98	Well No.: 1
Completion Date: 6-30-98	Total Depth: 12,236'MD, 11,145'TVD	Plug Back TD: Same	Elevation: 2941' GR
Unit Ltr. - Sec. - Twp. - Rge.: 9 - 25 - [illegible]			

Csg. Size	Wt.	d	Set At	Perforations:		County
13 3/8"	48#		607'			
9 5/8"	36#		2897'			
7"	26#		10820'	From: 11325	To: 12194	Eddy

Tbg. Size	Wt.	d	Set At	Perforations:		Pool
2 7/8	6.5	2.441	10498'	From: 11140	To: 11145	N. Corral Draw Wolfcamp Gas

Type Well - Single - Bradenhead - G.G. or G.O. Multiple	Packer Set At	Formation
Single	10498	Wolfcamp

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P_a	Connection
TBG	187.2 @11325	60°	13.2	

L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11325	10498	.682						

FLOW DATA / TUBING DATA / CASING DATA

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									PKR		25 hrs
1.						80	640		"		24 hrs
2.											
3.											
4.											
5.											

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	Supercompress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.							
2.							387
3.		VOLUME MEASURED BY TOTAL FLOW METER					
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.		N/A		
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 8.234 Mcf/bbl

A.P.I. Gravity of Liquid Hydrocarbons 58.0 @ 60° Deg

Specific Gravity Separator Gas .682 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX G Mix = 1.002

Critical Pressure 669 P.S.I.A. 658 P.S.I.A.

Critical Temperature 385 R 491 R

P_c 4890.2 P_c^2 23914.1

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		654.4	428.3	23485.8
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.018$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.018$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .397$

Absolute Open Flow 397 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.000

Remarks: Well Produced 47.0 BBL of 58.0° condensate & 29.0 BBLs of H20

Approved By Division	Conducted By:	Calculated By:	Checked By:
Prowell Testing		BM	BM

UNIT :			SECTION :	9	TOWNSHIP :	35	
L :	11325	H :	11325	L/H :	1	G/GMIX :	1.002
%CO2 :		%N2 :		H2S :			
d :	1.473	Fr :	0.010403	GH :	11347.7		

DATE : 10 19 98
RANGE : 29

VOL 1 :	387	PSIA 1 :	653.2	RESV.TEMP	187.2
VOL 2 :		PSIA 2 :			
VOL 3 :		PSIA 3 :			
VOL 4 :		PSIA 4 :		SHUT-IN PR=	4890.2

PCR : 658
TCR : 491

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.387	0.387	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
4 T	590.6	590.6	590.6	590.6	590.6	590.6	590.6	590.6
PR (est)	0.99		0.00		0.00		0.00	
5 Z(est)	0.762	0.688	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	449.9	406.5	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	25.225	27.913	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	2.575	2.848	ERR	ERR	ERR	ERR	ERR	ERR
9 1-e-S	0.612	0.649	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	653.2	653.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	426.7	426.7	0.0	0.0	0.0	0.0	0.0	0.0
12 Fr	0.010403	0.010403	0.010403	0.010403	0.010403	0.010403	0.010403	0.0104031
13 Fc=FrTZ	4.680	4.229	ERR	ERR	ERR	ERR	ERR	ERR
14 FcQm	1.81	1.64	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(FcQm)	3.0	2.5	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	1.860003	1.611415	ERR	ERR	ERR	ERR	ERR	ERR
17 .Pw2	428.5	428.3	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	1103.6	1219.9	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	1050.5	1104.5	ERR	ERR	ERR	ERR	ERR	ERR
20 P	851.9	878.8	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	1.29	1.34	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
23 Z	0.688	0.678	ERR	ERR	ERR	ERR	ERR	ERR

Pc = 4890.2 Pc2 = 23914.4

Pt2 = 425.7 Pw = 654.4
0.0 ERR
0.0 ERR
0.0 ERR

Pc2-Pw2= 234858 Pw2 = 428.3
ERR ERR
ERR ERR
ERR ERR

n = 1.000

Pc2/(Pc2-Pw2) = 1.018
ERR
ERR
ERR

AOF= Q 0.394
ERR
ERR
ERR

[Pc2/Pc2-Pw2]n = 1.018
ERR
ERR
ERR

FORM C122-D