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appropriate district office
See Rule 401 & Rule 1122

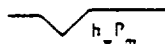
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONCHO RES. INC.						Lease or Unit Name CABALLO '9' STATE			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/20/99		Well No. 1	
Completion Date		Total Depth 13450		Plug Back TD 12250		Elevation		Unit Ltr. - Sec. - TWP - Rge. 9-23S-34E	
Log. Size 7"	WL 23#	d 6.366	Set At 11,800	Perforations: OPEN HOLE			Country LEA		
	26#	6.276		From: 12158 To: 12168					
Tbg. Size 2-7/8	WL 6.5	d 2.441	Set At 11,600	Perforations:			Pool		
				From: To:					
Type Well - Single - Bradenhead - G.C. or G.C. Multiple single						Packer Set At 11,600		Formation	
Producing Thru tbg		Reservoir Temp. °F 190°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		Connection SALES	
L 11600	II 11600	G _g .663	% CO ₂ .195	% N ₂ 1.547	% H ₂ S -0.2	Prover -0-	Meas. Run 3.068	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
1.	3.068 X 1.750			596	6.9	64°	2554		PKR		24 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							1.362
2.							
3.							
4.							
5.							

GAS VOLUME MEASURED BY TOTAL FLOW METER							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd	
1.					90.800		
2.					53.4	Deg	
3.	TOTAL FLOW				.663	XXXXXXXXXX	
4.					N/A	XXXXXX	
5.					672	P.S.I.A. P.S.I.A.	
					373	R R	

P _c 2844.2 P _c ² 8089.5	
NO.	P _i ² P _w P _w ² P _c ² - P _w ²
1.	6522.9 2558.4 6545.3 1544.2
2.	
3.	
4.	
5.	

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.239$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.135$$

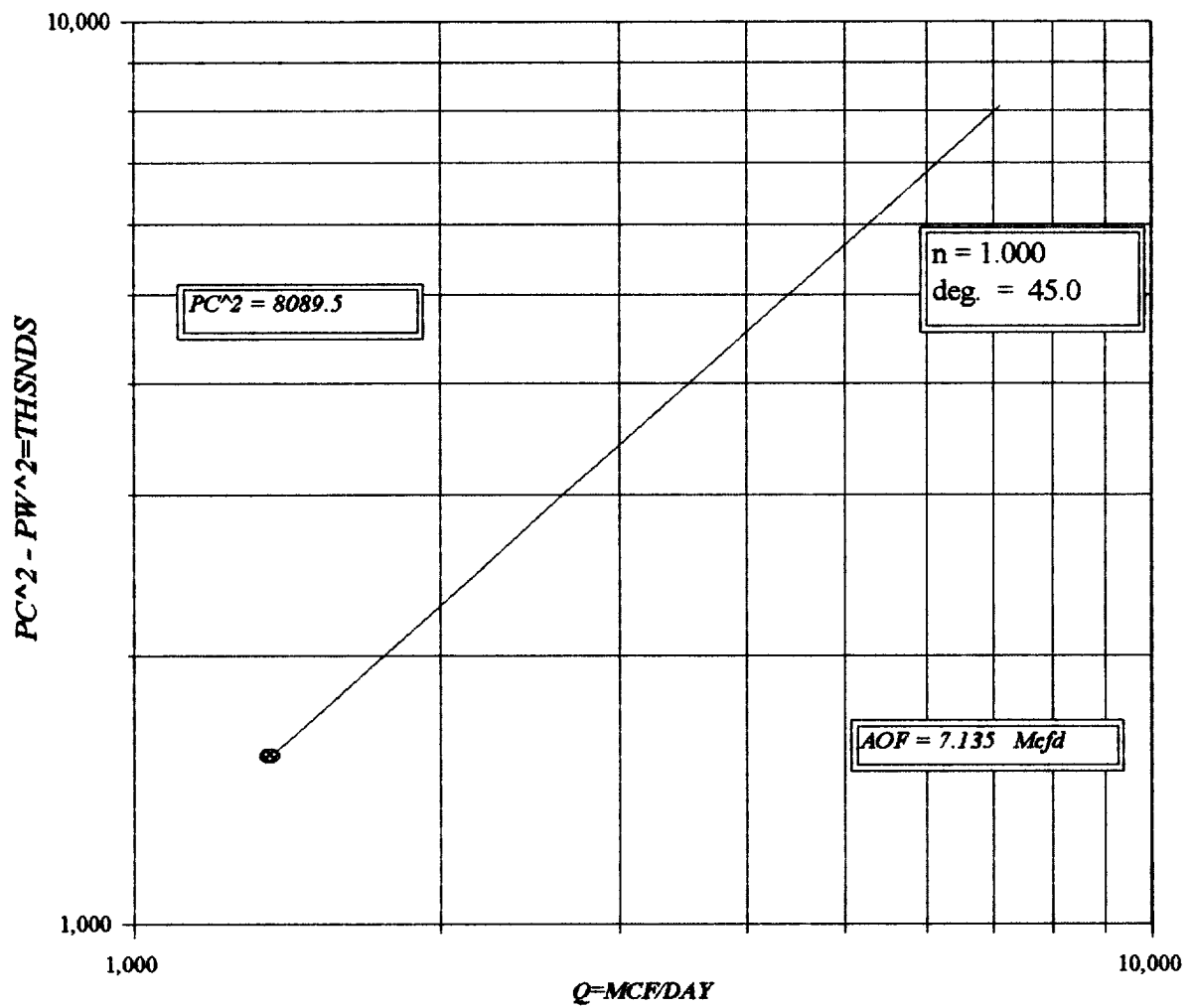
$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.239$$

Absolute Open Flow 7.135 Mcfd @ 15.025	Angle of Slope θ 45°	Slope, n 1.000
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Remarks: *** WELL MADE 15 BBLS OF 53.4 API GRAVITY CONDENSATE DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTING	Calculated By: M. B.	Checked By: B. M.
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CONCHO RES. INC.
CABALLO "9" STATE #1



○ COMPANY : CONCHO LEASE : CABALLO "9" ST. WELL NO. : 1 Pc = 2844.2 Pc2 = 8089.5 *
 UNIT : SECTION : 9 TOWNSHIP : 23 *
 L : 11600 H : 11600 L/H : 1 G/GMIX : 0.663 Pt2 = 6522.9 Pw = 2558.4 *
 %CO2 : 0.195 %N2 : 1.547 H2S : DATE : 7/20/99 0.0 ERR *
 d : 2.441 Fr : 0.010763 GH : 7690.8 RANGE : 34 0.0 ERR *
 0.0 ERR *

VOL 1 : 1362 PSIA 1 : 2554.0 RESV.TEMP 190.0 Pc2-Pw2= 1544.2 Pw2 = 6545.3 *
 VOL 2 : PSIA 2 : ERR ERR *
 VOL 3 : PSIA 3 : SHUT-IN PR= 2844.2 ERR ERR *
 VOL 4 : PSIA 4 : ERR ERR *
 PCR : 672 n = 1.000 *
 TCR : 373

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	
1 QM	1.362	1.362	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n = 5.239
3 Ts	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	ERR
4 T	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	ERR
PR (est)	3.80		0.00		0.00		0.00		ERR
5 Z(est)	0.798	0.810	ERR	ERR	ERR	ERR	ERR	ERR	
6 TZ	472.6	479.7	ERR	ERR	ERR	ERR	ERR	ERR	AOF= Q 7.135
7 GH/TZ	16.272	16.033	ERR	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.841	1.824	ERR	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.457	0.452	ERR	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	2554.0	2554.0	0.0	0.0	0.0	0.0	0.0	0.0	
11 Pt2 /1000	6522.9	6522.9	0.0	0.0	0.0	0.0	0.0	0.0	
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631	
13 Fc=FrTZ	5.087	5.163	ERR	ERR	ERR	ERR	ERR	ERR	
14 FcQm	6.93	7.03	ERR	ERR	ERR	ERR	ERR	ERR	
15 L/H(FcQm)	48.0	49.4	ERR	ERR	ERR	ERR	ERR	ERR	
16 Fw	21.92697	22.34418	ERR	ERR	ERR	ERR	ERR	ERR	
17 Pw2	6544.8	6545.3	ERR	ERR	ERR	ERR	ERR	ERR	
18 Ps2	12047.7	11940.9	ERR	ERR	ERR	ERR	ERR	ERR	
19 Ps	3471.0	3455.6	ERR	ERR	ERR	ERR	ERR	ERR	
20 P	3012.5	3004.8	ERR	ERR	ERR	ERR	ERR	ERR	
21 Pr	4.48	4.47	ERR	ERR	ERR	ERR	ERR	ERR	
22 Tr	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	
23 Z	0.810	0.810	ERR	ERR	ERR	ERR	ERR	ERR	FORM C122-D

NEW MEXICO G.O.R./G. MIX

NO. OF BBLs PRODUCED = 15.0

API GRAVITY @ 60 DEG. = 53.4

SPECIFIC GRAVITY OF GAS = 0.6630

XX

TOTAL GAS PRODUCED = 1362

G.O.R. = 90.800

G.MIX = 0.696

**Laboratory Services, Inc.**
 4016 Fiesta Drive
 Hobbs, New Mexico 88240

Telephone: (505) 397-3713

 7 day
 2834 gals

 FOR: Pro Well Testing & Wireline
 P. O. Box 791
 Hobbs, New Mexico 88241

 SAMPLE:
 IDENTIFICATION: Caballo #1
 COMPANY: Concho Resources, Inc.
 LEASE:
 PLANT:

 SAMPLE DATA: DATE SAMPLED: 5/24/99 12:00 pm
 ANALYSIS DATE: 5/24/99
 PRESSURE - PSIG
 SAMPLE TEMP. °F 120
 ATMOS. TEMP. °F

 GAS (XX) LIQUID ()
 SAMPLED BY: Pro Well
 ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.547	
Carbon Dioxide (CO2)	0.195	
Methane (C1)	86.783	
Ethane (C2)	6.716	1.792
Propane (C3)	2.343	0.644
I-Butane (IC4)	0.498	0.163
N-Butane (NC4)	0.752	0.237
I-Pentane (IC5)	0.270	0.089
N-Pentane (NC5)	0.283	0.084
Hexane Plus (C6+)	0.713	0.293
	100.000	3.312

 BTU/CU.FT. - DRY 1149
 AT 14.650 DRY 1145
 AT 14.650 WET 1125
 AT 14.73 DRY 1151
 AT 14.73 WET 1131

MOLECULAR WT. 19.1877

 SPECIFIC GRAVITY -
 CALCULATED 0.663
 MEASURED