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appropriate district office.
See Rule 401 & Rule 1122

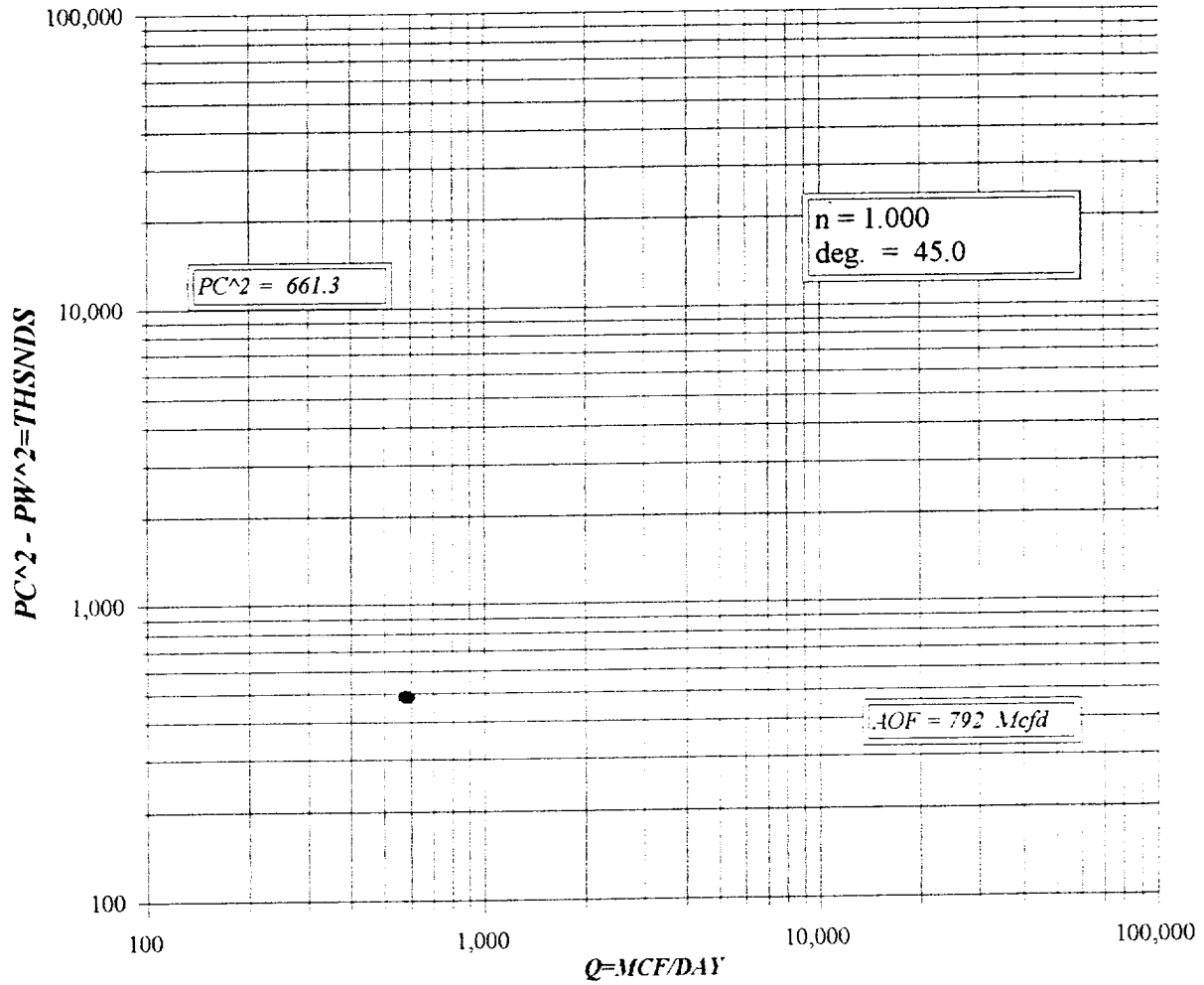
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator BELLWETHER EXPL CO.										Lease or Unit Name Wishbone Federal Com														
Type Test ☒ Initial ☐ Annual ☐ Special										Test Date 1/21/01					Well No. 1									
Completion Date 9/28/00					Total Depth 11750					Plug Back TD 11452					Elevation 3414					Unit Ltr - Sec - TWP - Rge 6 19S 30E				
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 11750			Perforations: From: 11399 To: 11432					County EDDY										
Tbg. Size 2 7/8		Wt. 605		d 2.441		Set At 11254			Perforations: From: To:					Pool Turkey Track; Morrow										
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE										Packer Set At 11254					Formation MORROW									
Producing Thru TUBING					Reservoir Temp. °F 186.5					Mean Annual Temp. °F 60					Baro. Press. - P _a 13.2					Connection SALES				
L 11254		H 11254		Gg 0.6794		%CO ₂ 2.446		%N ₂ 0.497		%H ₂ S N/A		Prover N/A		Meter Run 3.068		Taps FLG								
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		Duration of Flow						
SI										800		N/A		PKR		N/A								
1		3.068 X 1.250		294		20		60		400								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 Ft.		Gravity Factor F _g		Super Compress Factor F _{pv}		Rate of Flow Q, Mcfd										
1														582										
2	GAS			VOLUMES		FROM		TOTAL		FLOW		METER												
3																								
4																								
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	TOTAL	FLOW		METER				Specific Gravity Separator Gas 0.6794 XXXXXXXX																
3								Specific Gravity Flowing Fluid N/A XXXXXX																
4								Critical Pressure 660 P.S.I.A. P.S.I.A.																
5								Critical Temperature 376 R R																
P _c 813.2 P _w 661.3																								
No.	P _r ²	P _w		P _w ²		P _c ² - P _w ²		(1) $P_c^2 = \frac{1.361}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.361$																
1	170.7	418.9		175.5		485.8		AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 792$																
2																								
3																								
4																								
5																								
Absolute Open Flow 792 Mcfd @ 15.025 Angle of Slope (°): 45 Slope n: 1																								
Remarks: * NO LIQUID MADE DURING TEST.																								
Approved By Division:						Conducted By PRO WELL TESTING						Calculated By MERV BUECKER						Checked By: BM						

BELLWETHER EXP. CO.
WISHBONE "6" FED COM #1



UNIT : SECTION : TOWNSHIP :
 L : 11254 H : 11254 L 1 G/GMIX : 0.679
 %CO2 : 2.466 %N2 : 0.497 H2S : DATE : 1/21/01
 d : 2.441 Pr : 0.010763 GH : 7646.0 RANGE :

VOL 1 : 582 PSIA 1 : 413.2 RESV.TEMP 186.5
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR= 813.2
 VOL 4 : PSIA 4 :

PCR : 660
 TCR : 376

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.582	0.582	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
4 T	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
PR (est)	0.63		0.00		0.00		0.00	
5 Z(est)	0.924	0.916	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	545.4	540.7	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	14.019	14.140	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.692	1.699	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.409	0.412	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	413.2	413.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	170.7	170.7	0.0	0.0	0.0	0.0	0.0	0.0
12 Pr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Pc=PrTZ	5.870	5.820	ERR	ERR	ERR	ERR	ERR	ERR
14 PcQm	3.42	3.39	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(PcQm)	11.7	11.5	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	4.772315	4.721584	ERR	ERR	ERR	ERR	ERR	ERR
17 Pw2	175.5	175.5	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	296.9	298.2	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	544.9	546.0	ERR	ERR	ERR	ERR	ERR	ERR
20 P	479.0	479.6	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	0.73	0.73	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
23 Z	0.916	0.916	ERR	ERR	ERR	ERR	ERR	ERR

Pt2 = 7 Pw = 418.9
 u.0 ERR
 0.0 ERR
 0.0 ERR
 Pc2-Pw2= 485.8 Pw2 = 175.5
 ERR ERR
 ERR ERR
 ERR ERR
 n = 1.000
 Pc2/(Pc2-Pw2) = 1.361
 ERR
 ERR
 ERR
 [Pc2/Pc2-Pw2]n = 1.361
 ERR
 ERR
 ERR

AOF= Q 0.792
 ERR
 ERR
 ERR

FORM C122-D

Jan 24 01 12:52P

W CAT MERS & KELTIC SER (505) 74-9852

P.2

Wildcat Measurement Service
P.O. Box 1836
Artesia, New Mexico 88211-1836
TollFree #888-421-9453
Office #505-746-1481
"Quality and Service is our First Concern"

POS 06/15/80

Run No. 210123-09
Date Jan 01/23/2001
Date Sampled 01/23/2001

GRANGL 160

Analysis for: TORCH OPERATING COMPANY
Well Name: WISHBONE FEDERAL COM #1
Field: TURKEY TRACK
Sta. Number:
Purpose: SPOT
Sampling Temp: 66 DEG F
Volume/day:
Pressure on Cylinder: 256 PSIG

Producer: BELLWETHER EXPLORATION CO.
County: EDDY State: NM
Sampled By: MONTE ALIN
Atmos Temp: 53 DEG F
Formation:
Line Pressure: 269.2 PSIA

Pressure Base: 14.7300

GAS COMPONENT ANALYSIS

	Mol %	GPM
Carbon Dioxide CO2	2.4669	
Nitrogen N2	0.4974	
Methane C1	85.9016	
Ethane C2	6.0759	1.6240
Propane C3	2.7617	0.7604
Iso-Butane IC4	0.5079	0.1558
Nor-Butane NC4	0.3214	0.2589
Iso-Pentane IC5	0.2560	0.0937
Nor-Pentane NC5	0.2014	0.0729
Hexanes Plus C6+	0.5107	0.2228

Real BTU Dry: 1115.04
Real BTU Wet: 1115.29
Real Calc. Specific Gravity: 0.6754
Field Specific Gravity: 0.0040

Standard Pressure: 14.6950
BTU Dry: 1112.42
BTU Wet: 1112.71

Factor: 0.9972
W Value: 1.2811
Avg Mol Weight: 19.6291
Avg CuFt/Gal: 55.5244
28 Lb Product: 2.6033
Methane+ GPM: 17.1586
Ethane+ GPM: 3.1986
Propane+ GPM: 1.5746
Butane+ GPM: 0.5142
Pentane+ GPM: 0.3994

TOTAL 100.9020 3.1386

REMARKS:

Approved by: DON FORMAN

Wed Jan 24 11:46:56 2001