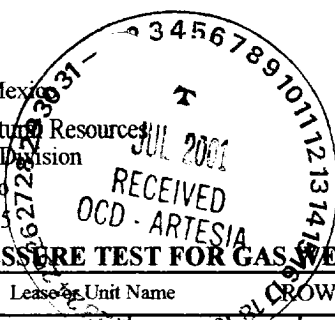


Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

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

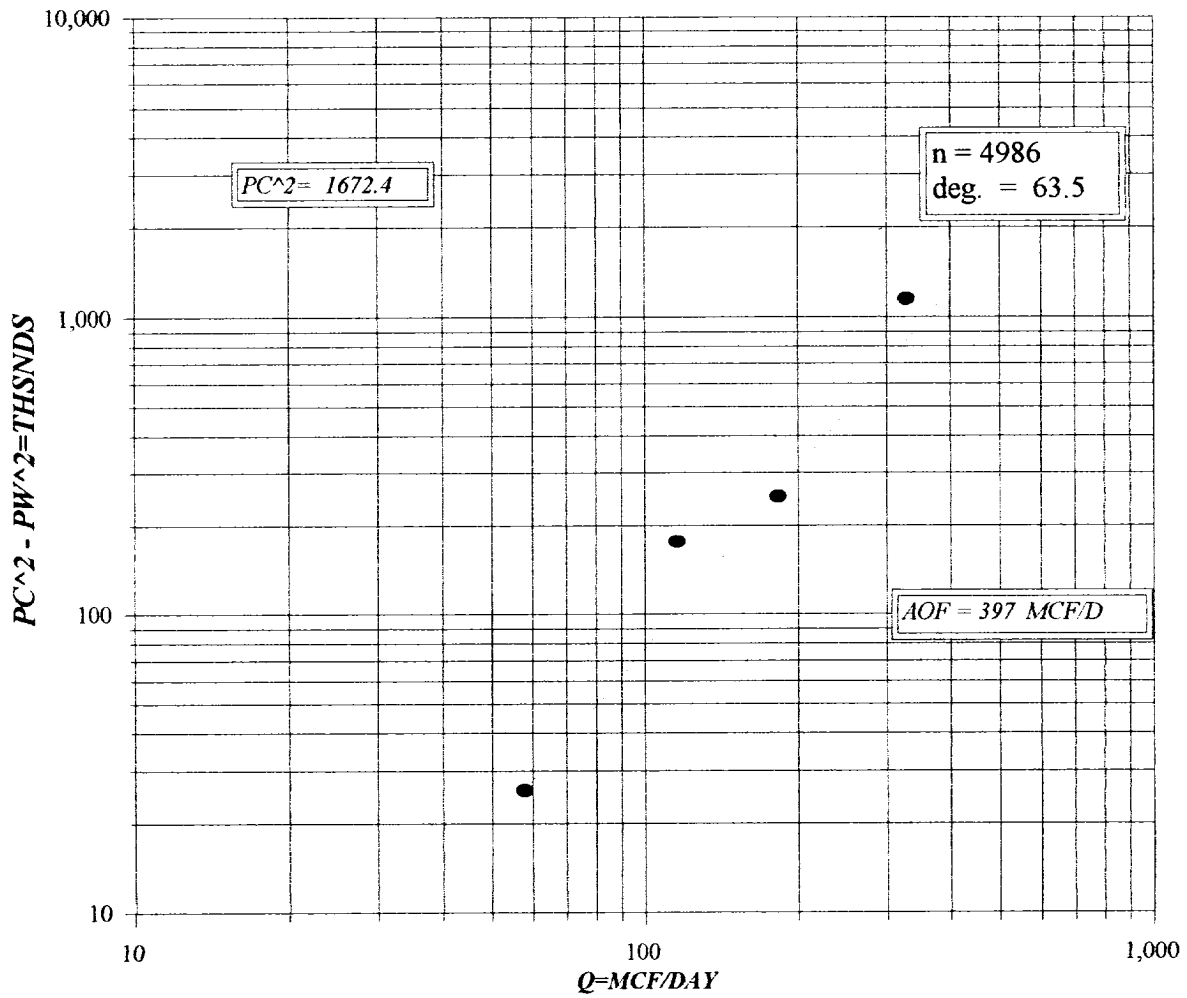
CISF



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator DEVON ENERGY				Lease & Unit Name CROW FLATS "20" FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/12/01		Well No. 1	
Completion Date		Total Depth		Plug Back TD		Elevation	
						Unit Ltr - Sec - TWP - Rge 20 16S 28E	
Csg. Size	Wt.	d	Set At	Perforations:		County	
5 1/2	17	4.892		From: 8800 To: 8820		EDDY	
Tbg. Size	Wt.	d	Set At	Perforations:		Pool	
2 7/8	6.5	2.441	8704	From: To:		Crow Flat Strawn	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 8704		Formation STRAWN	
Producing Thru TUBING		Reservoir Temp. °F 161	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection SALES	
L	H	Gg	%CO ₂	%N ₂	%H ₂ S	Prover	Meter Run
8704	8704	0.684	0.246	1.418	N/A	N/A	3.068
Taps							
FLG							
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	3.068 X 1.750		30	0.3	113	1270	
2	3.068 X 1.750		30	1.3	114	1210	
3	3.068 X 1.750		31	3.2	108	1180	
4	3.068 X 1.750		34	9.1	97	710	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)		✓ h _w P _m	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}
1							
2	GAS		VOLUMES	FROM	TOTAL	FLOW	METER
3							
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1					N/A		
2	TOTAL	FLOW	METER		A.P. I. Gravity of Liquid Hydrocarbons		
3					N/A		
4					Specific Gravity Separator Gas		
5					0.684		
					Specific Gravity Flowing Fluid		
					N/A		
					Critical Pressure		
					671		
					P.S.I.A.		
					Critical Temperature		
					383		
					R.		
					R.		
P _c	1293.2		P _{c2}	1672.4			
No.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) P _c ² = 1.456 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.206$		
1	1646.6	1283.2	1646.6	25.7			
2	1496.2	1223.3	1496.3	176			
3	1423.7	1193.3	1424	248			
4	523	724	524.1	1148.2			
5							
Absolute Open Flow				397	Mcf @ 15.025	Angle of Slope (°):	63.5
Slope n:				0.4986			
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By:		Calculated By:		Checked By:	
		PRO WELL TESTING		MERV BUECKER		BM	

DEVON ENERGY
CROW FLATS "20" FED COM #1



COMPANY : DEVON ENERGY
 UNIT :
 L : 8704 H : 8704 L/ : 1 G/GMIX : 0.684
 %CO2 : 0.246 %N2 : 1.418 H2S : DATE : 6/12/01
 d : 2.441 Pr : 0.010763 CH : 5953.5 RANGE :

PC = 1293.2 PC2 = 1672.4

= 1 Pw = 1283.2
 1496.2 1223.3
 1423.7 1193.3
 523.0 724.0

VOL 1 : 58 PSIA 1 : 1283.2 RESV.TEMP 161.0
 VOL 2 : 116 PSIA 2 : 1223.2
 VOL 3 : 183 PSIA 3 : 1193.2 SHUT-IN PR= 1293.2
 VOL 4 : 329 PSIA 4 : 723.2

PCR : 671
 TCR : 383

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.058	0.058	0.116	0.116	0.183	0.183	0.329	0.329
2 TW	534	534	534	534	534	534	534	534
3 Ts	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
4 T	577.5	577.5	577.5	577.5	577.5	577.5	577.5	577.5
PR (est)	1.91		1.82		1.78		1.08	
5 Z(est)	0.810	0.794	0.816	0.800	0.819	0.803	0.875	0.864
6 TZ	467.7	458.5	471.2	462.0	473.0	463.8	505.6	498.9
7 CH/TZ	12.730	12.986	12.634	12.887	12.586	12.835	11.776	11.934
8 eS	1.612	1.627	1.606	1.621	1.603	1.618	1.555	1.564
9 l-e-S	0.380	0.386	0.377	0.383	0.376	0.382	0.357	0.361
10 Pt	1283.2	1283.2	1223.2	1223.2	1193.2	1193.2	723.2	723.2
11 Pt2 /1000	1646.6	1646.6	1496.2	1496.2	1423.7	1423.7	523.0	523.0
12 Pr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Pc=PrTZ	5.034	4.935	5.072	4.972	5.091	4.992	5.441	5.369
14 PcQm	0.29	0.29	0.59	0.58	0.93	0.91	1.79	1.77
15 L/H(PcQm)	0.1	0.1	0.3	0.3	0.9	0.8	3.2	3.1
16 Pw	0.032355	0.031577	0.130613	0.127500	0.326598	0.318873	1.144132	1.1258988
17 Pw2	1646.6	1646.6	1496.3	1496.3	1424.1	1424.0	524.2	524.1
18 Ps2	2654.1	2679.7	2403.2	2426.1	2283.0	2304.4	815.2	820.0
19 Ps	1629.1	1637.0	1550.2	1557.6	1510.9	1518.0	902.9	905.5
20 P	1456.2	1460.1	1386.7	1390.4	1352.1	1355.6	813.0	814.4
21 Pr	2.17	2.18	2.07	2.07	2.02	2.02	1.21	1.21
22 Tr	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
23 Z	0.794	0.794	0.800	0.800	0.803	0.803	0.864	0.864

Pc2-Pw2= 25.7 Pw2 = 1646.6
 176.0 1496.3
 248.3 1424.0
 1148.2 524.1

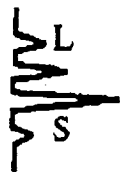
n = 0.499

Pc2/(Pc2-Pw2) = 64.991
 9.501
 6.735
 1.456

[Pc2/Pc2-Pw2]n = 8.015
 3.073
 2.588
 1.206

AOF= Q 0.465
 0.356
 0.474
 0.397

FORM C122-D

**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Devon Energy Production Company, L.P. SAMPLE:
Attention: Mr. Danny Hoakett IDENTIFICATION: Crow Flats 20 Fed. Com. #1
P. O. Box 250 COMPANY: Devon Energy
Artesia, New Mexico 88211-0250 LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 6/12/01
ANALYSIS DATE: 6/13/01 GAS (XX) LIQUID ()
PRESSURE - PSIA 39.8 SAMPLED BY: J.C. Allred-Pro Well
SAMPLE TEMP. °F 110 ANALYSIS BY: Vickie Biggs
ATMOS. TEMP. °F

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H ₂ S)		
Nitrogen (N ₂)	1.413	
Carbon Dioxide (CO ₂)	0.246	
Methane (C ₁)	84.751	
Ethane (C ₂)	6.941	1.852
Propane (C ₃)	3.494	0.961
I-Butane (IC ₄)	0.636	0.208
N-Butane (NC ₄)	1.307	0.411
I-Pentane (IC ₅)	0.405	0.148
N-Pentane (NC ₅)	0.328	0.119
Hexane Plus (C ₆ +) <u>0.479</u>		<u>0.208</u>
	100.000	3.907
BTU/CU.FT. - DRY	1182	MOLECULAR WT. 19.8273
AT 14.650 DRY	1179	
AT 14.650 WET	1158	
AT 14.73 DRY	1185	
AT 14.73 WET	1164	
SPECIFIC GRAVITY -		
CALCULATED	0.684	
MEASURED		