

MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-85

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5/20/87		OCT 15 '87	
Company McClellan Oil Corp.				Connection			O. C. D. ARTESIA OFFICE	
Pool S. Pecos Slope A120				Formation Abo			Unit	
Completion Date 5/13/87		Total Depth 4275'		Plug Back TD 4275'		Elevation 3618' GL		Para. or Lease Name Dana Federal
Csq. Size 4 1/2"	Wt. 9.5	d	Set At 4275'	Perforations: From 4053' To 4057'		Well No. 5		
Tq. Size 2-3/8"	Wt. 4.7	d	Set At 3987'	Perforations: From To		Unit Sec. Twp. Rge. N 4 9S 25E		
Type Well - Single - Protthead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves		
Producing Thru tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State NM
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run	Temp

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.	2	X	.375				1010		1010		1/4 hour
2.	2	X	.375				604		710	61	1/2 hour
3.	2	X	.375				435		627	62	1 hour
4.	2	X	.375				407		583	69	1 hour
5.	2	X	.375				308		454	68	16 1/2 hours
6.	2	X	.375				294		441	69	17 1/2 hours

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, Mgd
1.	2.378		421.62	.9915	1.240	1.034	1274.6
2.	2.378		358.03	.9896	1.240	1.029	1075.0
3.	2.378		324.23	.9943	1.240	1.028	977.2
4.	2.378		312.83	.9924	1.240	1.025	938.3
5.	2.378		309.13	.9915	1.240	1.025	926.4

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 1010.1$ $P_c^2 = 1050.9$				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.10$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1$	
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²		
1.		421	177	874		
2.		358	128	923		
3.		324	104	947		
4.		312	98	953		
5.		309	96	955		

AOP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1025$

Absolute Open Flow 1025 Mgd @ 15.025 Angle of Slope 45 Slope, n 1

Remarks: _____

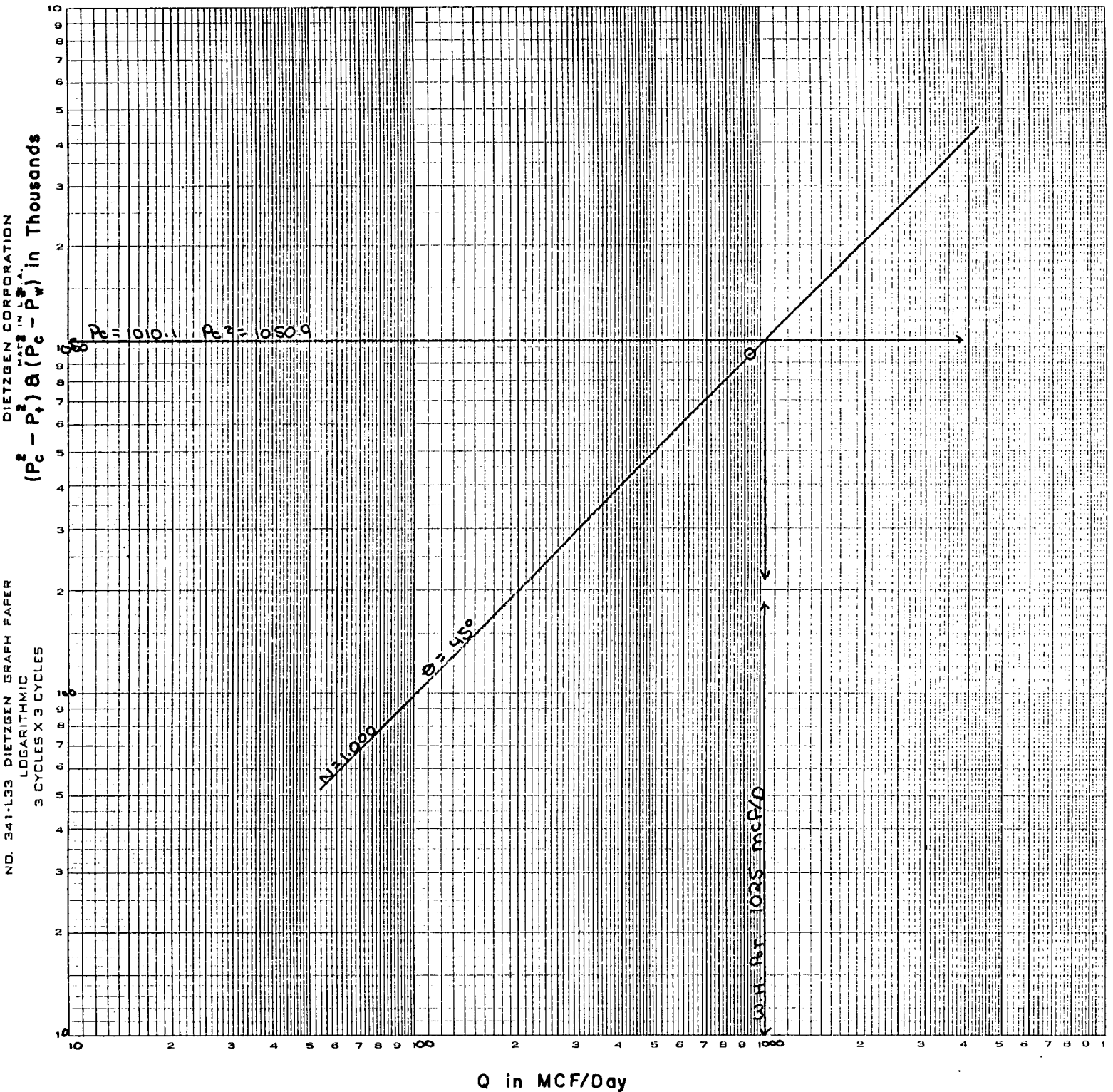
Approved By Commission:	Conducted By: Enron	Calculated By: James Rowe	Checked By:
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JACK PRESSURE CURVE

Operator McClellan Oil Corp. Lease DANA Federal Well No. #5County Chaves Field Pecos Slope Location _____

Date of Test _____ Slope "n" _____ W.H. _____ Abs. _____

Calc. W.H. Potential _____ MCF/D Calc. Abs. Potential _____ MCF/D



TRANSWESTERN PIPELINE COMPANY
(A SUBSIDIARY OF ENRON CORPORATION)

GAS QUALITY TEST REPORT

PRODUCER	MCCLELLAN OIL CO	STATION NO.	N/A
FIELD	UND	EFFECTIVE DATE	5/19/87
RESERVOIR	ABO	LAB NUMBER	4
STATION NAME	DANA #5		

COMPONENTS	SPECIFIC GRAVITY	MOLE FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT GPM	GPM CONTENT
NITROGEN	.9672	.0605	PROPANE	27.514	.4925
CARBON DIOXIDE	1.5195	.0016	ISOBUTANE	32.698	.0948
HELIUM	.1382		N-BUTANE	31.510	.1702
OXYGEN	1.1048	.0000	LPG		.7575
HYDROGEN SULFIDE	1.1766	.0000	ISOPENTANE	36.582	.0622
WATER VAPOR	.6220	.0000	N-PENTANE	36.213	.0616
			HEXANES	41.111	.0576
METHANE	.5539	.0583	HEPTANES+	46.126	.0554
ETHANE	1.0382	.0474	NATURAL GASOLINE		.2367
PROPANE	1.5225	.0179			
ISOBUTANE	2.0068	.0029	TOTAL LIQUEFIABLE GPM		.9941
N-BUTANE	2.0068	.0054	WATER VAPOR CONTENT:		
ISOPENTANE	2.4911	.0017	GAS MIXTURE STATIC PSIG		335.0
N-PENTANE	2.4911	.0017	FLOWING GAS TEMP (F)		0.0
HEXANES	2.9753	.0014	WATER VAPOR DEW POINT (F)		63.0
HEPTANES+	3.5807	.0012	LBS WATER VAPOR / MMCF		44.0
COMPOSITION-----		1.0000	DEHY INSTALLED (TW)		NO
			INSTRUMENT TYPE		RAN
			MOL FRACTION		.0009
MIXTURE SPECIFIC GRAVITY			SULFUR CONTENT (GR. PER 100 CF)		
CALC. FROM ANAL. (REAL)		.648	HYDROGEN SULFIDE		
DETERMINED BY TEST INST.		.650	MERCAPTANS		
			SULFIDES		
MIXTURE HEATING VALUE			RESIDUALS		
(BTU/CF @ 14.73 PSIA, 60F, SAT.)			TOTAL SULFUR		
CALCULATED FROM ANALYSIS		1036	MOLE FRACT H2S		
Y CALORIMETRY		NONE	COMPRESSIBILITY (Z)		.9976

GR. DEVIATION ALLOWED FOR WATER VAPOR: .003
13:02 MAY 19, 1987

ANALYST----- [TW]

KS: NEW WELL TEST