

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

File #
C-122
Form C-122
Revised 9-1-66
RECEIVED

OCT 15 1980

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/10/80		O.C.D. ARTESIA, OFFICE	
Company BLISS PETROLEUM INC. ✓				Connection AIR			
Well DBL. L. QUEEN				Formation QUEEN		Unit	
Completion Date 09/18/80		Total Length 3508		Flag Back To 1924		Elevation 3817 GL	
Csg. Size 5 1/2		Wt. 15.5		Set At 3507		Perforations: From 1824 To 1836	
Trq. Size 2 3/8		Wt. 4.7		Set At 1801		Perforations: From To	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE GAS WELL				Packer Set At -----		County CHAVES	
Producing Thru TBG.		Reservoir Temp. °F 75 ° PERFS.		Mean Annual Temp. °F 60 °		Baro. Press. - P _a 13.2	
L		H		Gg		Prover	
		.9777		% CO ₂ 10.638		% N ₂ 58.484	
				% H ₂ S		2" orifice well tester	

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 .750			2.0		72	155		140		24 Hrs
2.	2 X .750			5.0		69	148		140		1 Hr.
3.	2 X .750			11.5		68	142		135		1 Hr.
4.	2 X .750			19.0		68	125		120		1 Hr.
5.	2 X .750					68	110		110		1 Hr.

RATE OF FLOW CALCULATIONS							
NO.	*-volume mci/d (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	100.5			.9887	.7834	nil	78
2	164.0			.9915	.7834	nil	127
3	264.7			.9924	.7834	nil	206
4	362.5			.9924	.7834	nil	282
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ dry _____ Mcf/Lbl.
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

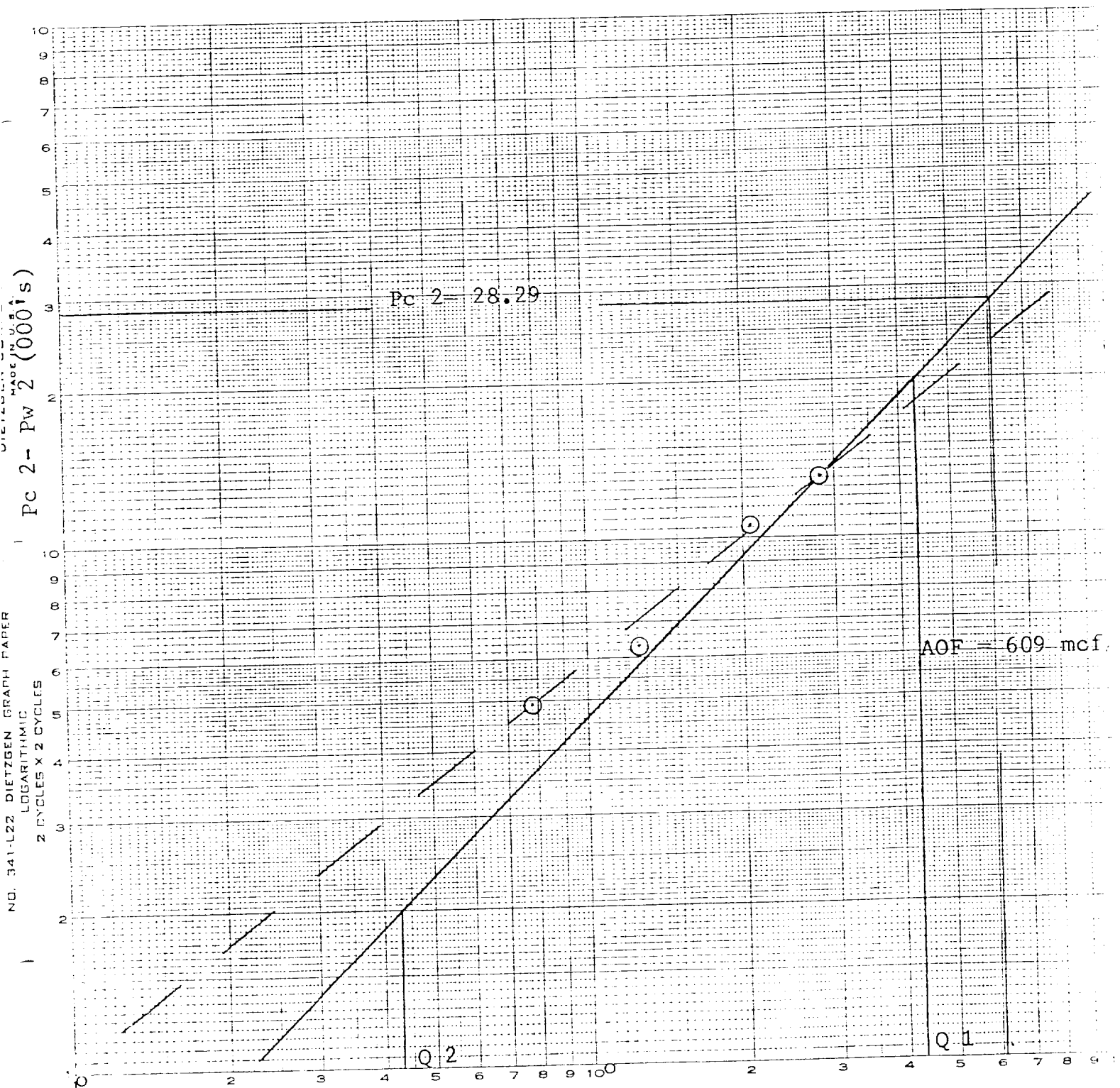
NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 2.158$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2.158$
1		153.2	23.47	4.82		
2		148.2	21.96	6.33		
3		133.2	17.74	10.55		
4		123.2	15.18	13.11		
5						

Absolute Open Flow 609 Mcfd @ 15.025				Angle of Slope α 45°	Slope, n 1.000
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Remarks: * VOLUMES OBTAINED FROM THE NEW MEXICO OIL CONSERVATION COMMISSION MAUUAL FOR GAS - OIL RATIO DETERMINATION.

Approved By: _____	Conducted By: _____	Calculated By: _____	Checked By: _____
DAVIS SERVICES INC.		RICK PAGAN	

COMPANY : BLISS PETROLEUM, INC.
 LEASE : GULF FED.
 WELL NO. : # 1
 SEC. 26 / TWP. 14s / RGE. 29e
 COUNTY : CHAVES
 STATE : NEW MEXICO
 DATE : OCTOBER 10, 1980



$Q = \text{MCF} / \text{DAY}$
 Q 1 = 430; LOG OF Q 1 = 2.633469
 Q 2 = 43; LOG OF Q 2 = 1.633469

N = 1.000
 $\theta = 45^\circ$

NEW-TEX LAB

P. O. BOX 1161
HOBBS, N.M. 88240

No. 4051
Run No. _____
Date of Run 10-10-80
Date Secured 10-10-80

CERTIFICATE OF ANALYSIS

A Sample of Bliss Petroleum Inc. Gulf Federal # 1
Secured from Davis Services Inc.
At Box # 2033 Secured by _____
Hobbs, New Mexico 88240 Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	<u>10.638</u>		
Air			
Nitrogen	<u>58.484</u>		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	<u>20.850</u>		
Ethane	<u>5.713</u>		<u>1.524</u>
Propane	<u>2.756</u>		<u>.757</u>
Butanes			
Iso-Butane	<u>.332</u>		<u>.108</u>
N-Butane	<u>.824</u>		<u>.259</u>
Pentanes			
Iso-Pentane	<u>.151</u>		<u>.055</u>
N-Pentane	<u>.166</u>		<u>.060</u>
Hexanes	<u>.051</u>		<u>.021</u>
Heptanes	<u>.035</u>		<u>.016</u>
Octanes			
TOTAL	<u>100.000</u>		<u>2.800</u>

Calc. Sp. Gr.— 0.9777
Calc. A.P.I.— _____
Calc. Vapor Press.— _____ P.S.I.
Sp. Gr.— _____
Mol. Wt.— 28.32

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .757
Butanes Calc. G.P.M. .367
Pentanes Plus. G.P.M. .152
Ethane Calc. G.P.M. 1.524
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 435
Wet Basis 427
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks