MULTIPOINT A ONE POINT BACK PRESSURE TE FOR GAS WELL

RECEIVED
JUN 23 1982
O. C. D.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special	Test Date: 3-17-82		
Company: J. C. WILLIAMSON ✓	Connection:		
Pool: Wildcat	Formation: Middle ~~Delaware~~	Unit:	
Completion Date: 3-4-82	Total Depth: 4034	Plug Back TD: 3610	Elevation:
Farm or Lease Name: E.P. USA			
Csg. Size: 4.5 / Wt.: / d: / Set At: 4034	Perforations: From 3481 To 3485	Well No.: 2	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3486	Perforations: From To	Unit:) / Sec.: 26 / Twp.: 26 / Rge.: 29	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 3390	County: Eddy	
Producing Thru: Tbg.	Reservoir Temp. °F: 109 @ 3481	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3486	3486	.583	.09%	5.13%	.	2"		

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1615				72 hr.
1.	2	x	1/16	1411		75	1411	75			1 hr.
2.	2	x	3/32	1105		74	1105	74			1 hr.
3.	2	x	1/8	847		75	847	75			1 hr.
4.	2	x	3/16	466		75	466	75			1 hr.
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.06406		1424.2	.9859	1.310	1.106	130
2.	.1410		1118.2	.9868	1.310	1.087	222
3.	.2648		860.2	.9859	1.310	1.067	314
4.	.6082		479.2	.9859	1.310	1.038	391
5.							

NO.	P_r	Temp. °R	T_r	Z
1	2.12	535	1.53	.817
2.	1.66	534	1.53	.846
3.	1.28	535	1.53	.878
4.	.71	535	1.53	.929
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .583 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 350 R R

P_c 1628.2 P_c^2 2651.0

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	1424.3	2028.5	622.5
2	1118.4	1250.9	1400.1
3	860.9	741.1	1909.9
4	481.1	231.5	2419.5
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.096$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.096$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .429$

Absolute Open Flow: 429 Mcfd @ 15.025 Angle of Slope θ: 45 Slope, n: 1.000

Remarks: no fluid produced during test.

Approved by Division	Conducted by:	Calculated by:	Checked by:
	R. Reston & R. McGowen	Joe B. Murray	

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 3-17-82	Lease No. or Serial No.
Company: J. C. WILLIAMSON	Connection			Allottee
Field: Wildcat	Reservoir: Middle Delaware	Location		Unit
Completion Date: 3-4-82	Total Depth: 4034	Plug Back TD: 3610	Elevation	Farm or Lease Name: E.P. USA
Csg. Size: 4.5 / Wt. / d / Set At: 4034	Perforations: From: 3481	To: 3485		Well No.: 2
Tbg. Size: 2 3/8 / Wt. / d / Set At: 3486	Perforations: From	To		Sec.: 26 / Twp.-Blk.: 26 / Rge.-S: 29
Type Completion (Describe): Single			Packer Set At: 3390	County or Parish: Eddy
Producing Thru: Tbg.	Reservoir Temp. F: 109 @ 3486	Mean Annual Temp. F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: 3486	H: 3486	G_g: .583	% CO_2: .09%	% N_2: 5.30%	% H_2S	Prover: 2"	Meter Run	To

DATE / Time of Reading	Elap. Time Hrs.	Wellhead Working Pressure: Tbg. Psig.	Csg. Psig.	Temp. F	METER OR PROVER: Pressure Psig.	Diff.	Temp. F	Orifice	REMARKS (Include liquid production data: Type–A.P.I. Gravity–Amount)
9:15		1615							Shut-in pressure
9:15		Start test							
9:30		1609			1609		69	1/16	
9:45		1450			1450		67		
10:00		1424			1424		73		
10:15		1411			1411		75	1/16	121 mcf/d
10;30		1250			1250		75	3/32	
10:45		1170			1170		74		
11:00		1125			1125		74		
11:15		1105			1105		74	3/32	208 mcf/d
11:30		972			972		74	1/8	
11:45		890			890		74		
12:00		862			862		75		
12:15		847			847		75		299 mcf/d
12:30		615			615		73	3/16	
12:45		487			487		75		
1:00		470			470		75		
1:15		466			466		75	3/16	382 mcf/d

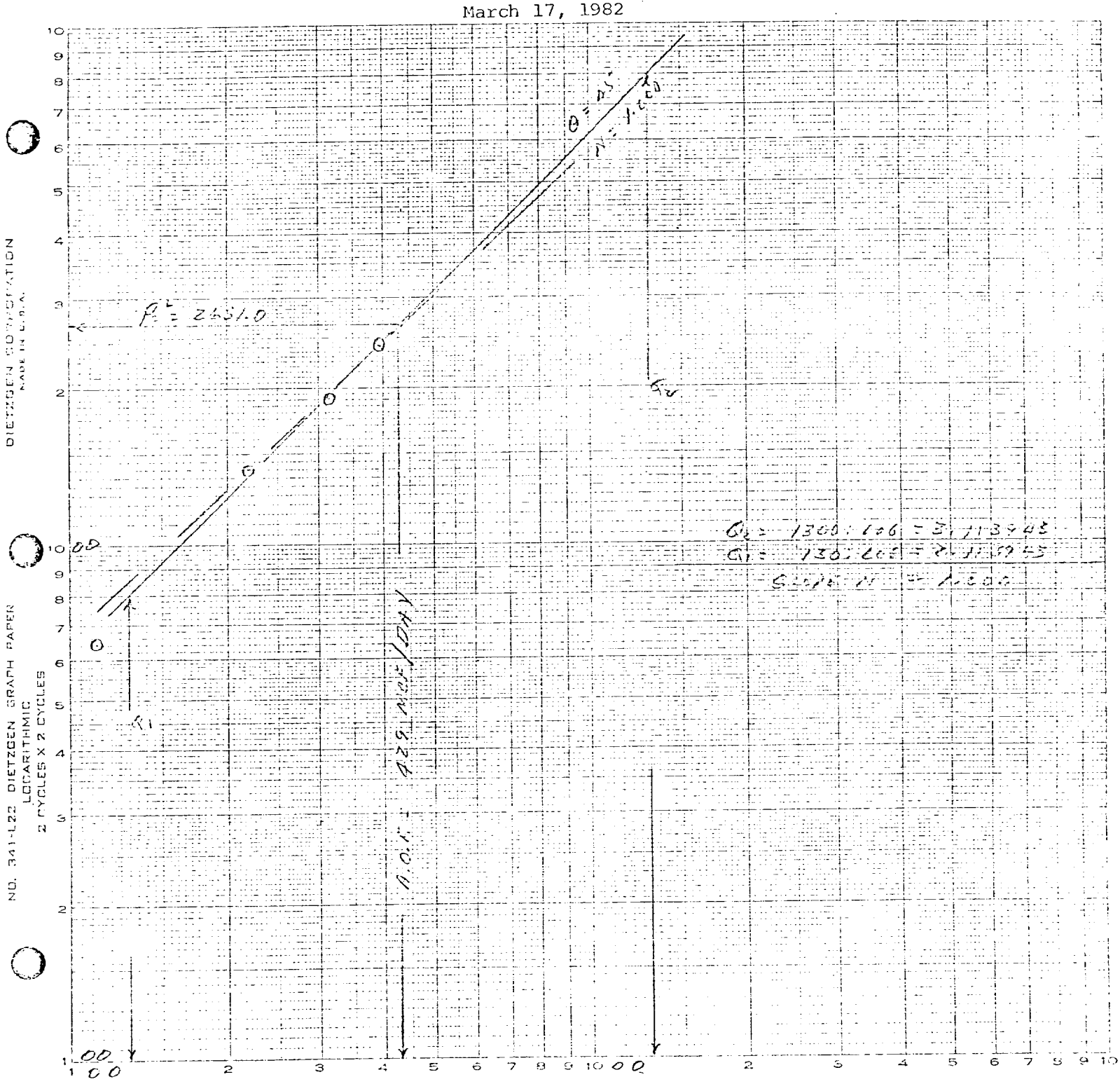
Page _____ of _____ Data By _____

J. C. WILLIAMSON

E. P. USA No. 2

26-26-29 Eddy Co., NM

March 17, 1982



OIL CONSERVATION DIVISION

Artesia, New Mexico

June 21, 1982

J.C. Williamson
P.O. Box 16
Midland, Texas 79702

Re: Well~~s~~ Placed In Pool~~s~~

Gentlemen:

As the result of Division Order R-7009 the following described well ~~(s)~~ (has ~~have~~) been placed in the pool ~~(s)~~ shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

BRUSHY DRAW - MIDDLE BELL CANYON GAS POOL

EP-USA #2 Ut.O 26-26-29

Transporters are advised, by copy of this letter, to change their records to reflect the pool name as established by this order.

Very truly yours,

Larry Brooks

OIL CONSERVATION DIVISION

Distribution:
Original - Operator
XC: Santa Fe OCD
Each Transporter