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NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 30 1975
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-22-75	
Company: J. C. WILLIAMSON			Connection: None		Unit
Pool: ~~Ross Draw~~			Formation: Deleware		
Completion Date: 8-6-75	Total Depth: ~~3446~~ 3459		Plug Back TD	Elevation: 3001.0 GL	Farm or Lease Name: Ross Draw Unit
Csg. Size: 4½" / Wt. / d / Set At: 3440			Perforations: From 3440 To 59 OH		Well No.: 4
Tbg. Size: 2 3/8 / Wt.: 4.90 / d: 1.99 / Set At: 3435			Perforations: From Open To End		Unit: F / Sec.: 27 / Twp.: 26-S / Rge.: 30-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 3440		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 94 @ 3450	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3459	3440	.690				2"		

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI			1515			1515	65			
1.	2"	3/32	1440			1440	66	Packer		1 hr.
2.	"	1/8	1224			1224	66			1 hr.
3.	"	5/32	995			995	67			1 hr.
4.	"	3/16	752			752	68			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	.1434		1453.2	.9943	1.204	1.195	294
2.	.2618		1237.2	.9943	"	1.169	453
3.	.4173		1008.2	.9933	"	1.135	571
4.	.6101		765.2	.9924	"	1.098	609
5.							

NO.	R	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

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ARTESIA, OFFICE

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1528.2 P_c^2 2335

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		1453.2	2112	223
2		1237.2	1531	804
3		1008.2	1016	1319
4		765.2	585	1750
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

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

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AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 812

Absolute Open Flow 812 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.00

Remarks: Shut In Gas Well

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	C. Allen Dorsey	C. Allen Dorsey	

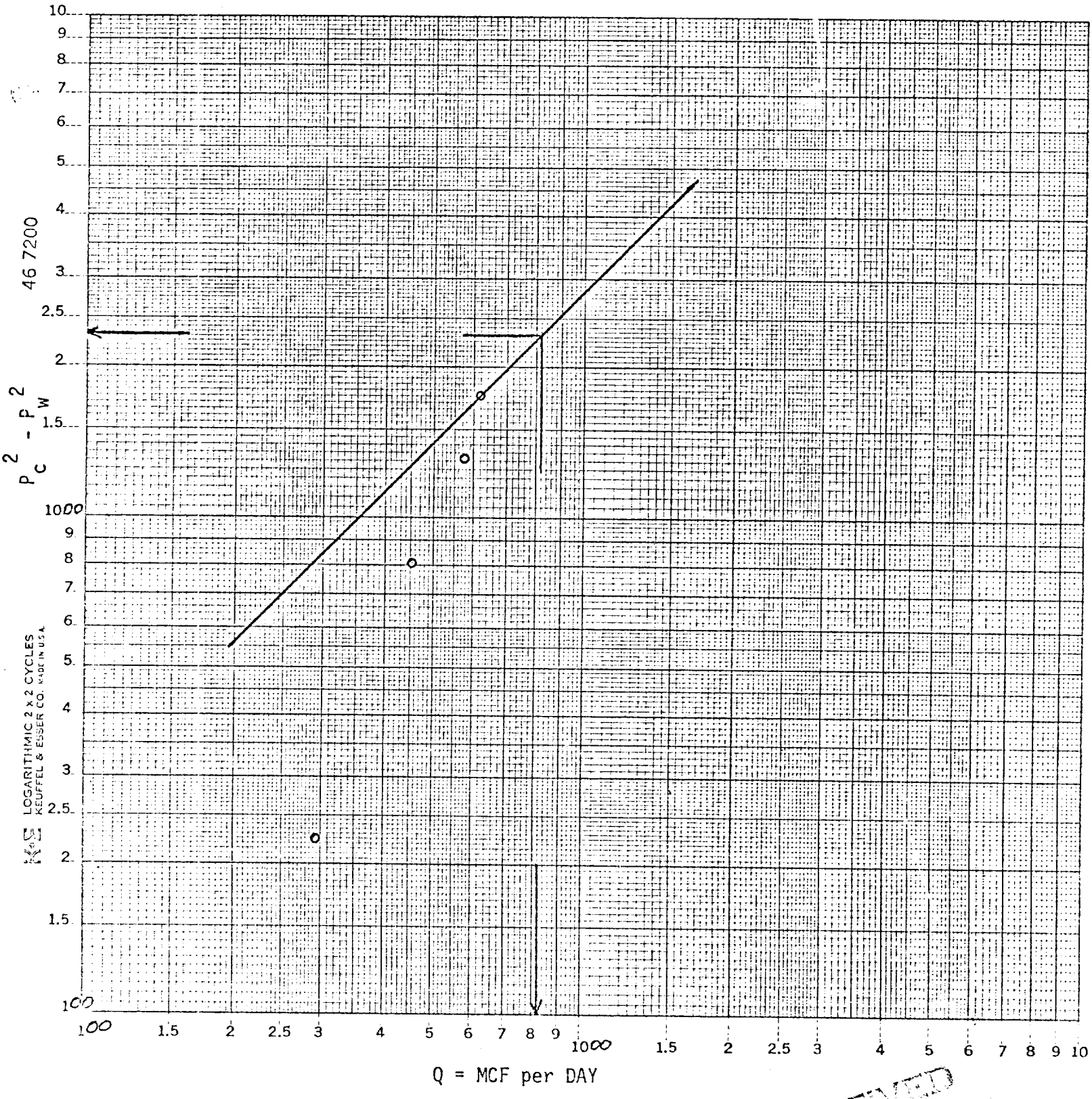
Pool Ross Draw Unit, Eddy

Operator J. C. Williamson

Lease Ross Draw Unit Well NO. 4

A.O.F.P. 812 MCF/Day

Date 10-22-75



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BOTTOM HOLE PRESSURE RECORD

PRESSURE POUNDS PER SQUARE INCH GUAGE

Depth	Pressure	Gradient psi/ft.
0	1520	
2000	1616	.048
3000	1654	.048
3300	1678	.048
3450 (Mid Perf.)	1717	.260

1500 1600 1700

Status Shut In
Shut In 5 Days ~~XXX~~
TP CP
Casing Perforations: 3440 - 59 - OH

Tubing Data: Set At 3435
Open End X
Plugged
TD
Remarks:

Elevation: GL KB
Datum: Mid Perf.
Depth: 3440
Safe 3440
Run 3440
Previous BHP:
Date New Well
Pressure
Change
BHT 94 @ 3450

C. ALLEN DORSEY
Petroleum Service
MIDLAND, TEXAS
PHONE OX 4-1702

TOP OF WATER 3370'

NO FLUID RECORDED

1st Rate	6/64" Choke	1685	+13.2	=1699.2
2nd Rate	8/64" Choke	1542	+ 13.2	= 1555.7
3rd Rate	10/64" Choke	1395	+ 13.2	= 1408.1
4th Rate	12/64" Choke	1266	+13.2	=1279.2

COMPANY J. C. WILLIAMSON LEASE ROSS DAW WELL NO 4

FIELD ROSS DRAW COUNTY EDDY STATE NEW MEXICO

ORDERED BY GEO. KINGREA DATE TESTED 10-22-75