

ILLEGIBLE

Test ☒ Initial ☐ Annual ☐ 2-18-76

Company Southern Union Supply Co. Connection AIR

Well North Vacuum Perforation BROW Unit

Completion Date 2/18/76 Test Depth 13510' Perforation 13490' Quantity 4127 KB Name or Lease Name Gallagher 8 St.

Size 1 1/2" Wt. 17' d 4.892 Set At 13510' Perforations: From 13153' To 13334' Well No. 2

Size 2 7/8" Wt. 6.5 d 2.441 Set At 13076' Perforations: From To Unit Sec. Twp. Rge. M 8 17S 34E

Well - Single - Bradenhead - C.G. or G.O. Multiple Packer Set At 13076' County Lea

Producing Thru Reservoir Temp. °F Mean Annual Temp. °F Baro. Press. - P_g State New Mexico

tubing 13076' 13076' 13400' 4.217 1.056 13.2 4" Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
4"	1.250	501	4.0	95	2520	60		PKR		1 Hour
4"	1.250	501	7.29	34	2190	62				1 Hour
4"	1.250	501	15.21	75	1550	65				1 Hour
4"	1.250	503	3.6	72	850	68				1 Hour

RATE OF FLOW CALCULATIONS

Coefficient (24 Hour)	$\sqrt{P_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
7.469	49.5	614.2	.9680	1.204	1.055	455.
7.469	66.9	614.2	.9777	1.204	1.053	622.
7.469	96.6	614.2	.9859	1.204	1.064	912.
7.469	149.5	621.2	.9877	1.204	1.065	1414.

P _t	Temp. °R	P _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
.90	555	1.45	.899	6.49	50.760	.6909	XXXXXX	685	384
.90	544	1.42	.893				XXXXXX		
.90	535	1.39	.883						
.91	533	1.39	.882						

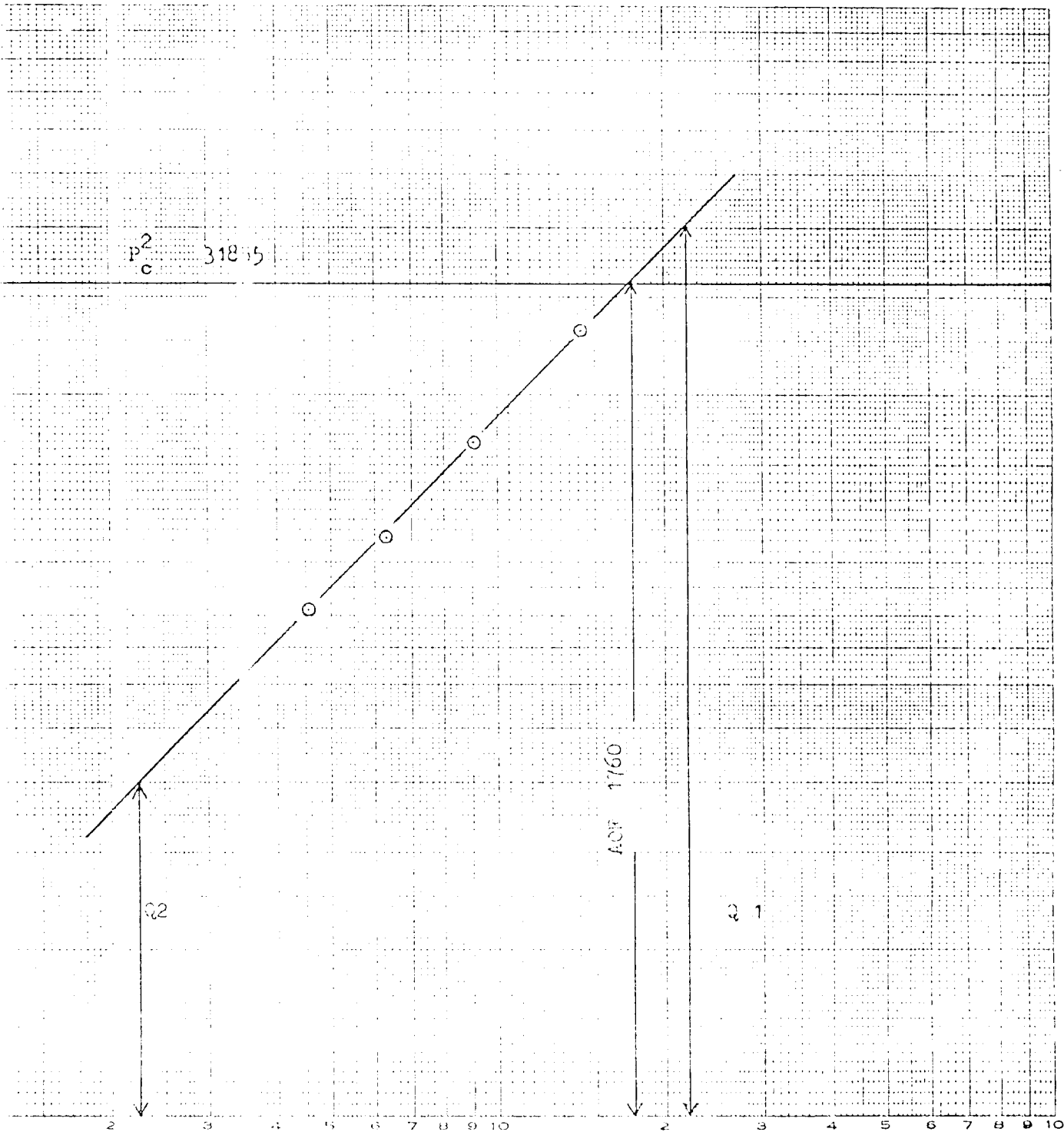
P _t	P _w	P _g	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
5644	21855			1.93	1.93
4863	23479		3206		
4507	20313		11542		
3919	15359		16496		
2384	9653		26172		

Absolute Open Flow 1760 Mcfd @ 15.025 Angle of Slope 45° Slope, n 1

Remarks: P_o & P_w Figure were taken from Amerada gauge RPG-3 Ser. No. 36826

Approved By Commission: Larry Davis Conducted By: Larry Davis Calculated By: Larry Davis Checked By:

WELL	Gallager 3 St., N.	2
COUNTRY	New Mexico	
DATE	7-1-60	



Q 1 2250 = 3.39794
 Q 2 250 = 2.39794

N = 1

UNITED CHEMICAL CORPORATION

OF NEW AMERICA

P.O. BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No 4690

Run No.

Date of Run 2-19-76

Date Secured

CERTIFICATE OF ANALYSIS

Sample _____ Gallager State 8-2
Acquired from _____ Jarrel Services
_____ Box 1654
_____ Hobbs, New Mexico 88240
Sampling conditions _____ Press _____
_____ Temp. _____

Scored by

100

Date _____

FRACTIONAL ANALYSIS

Percentage Composition

MOL %	LQ. %	G.P.M.
100	100	100
90	90	90
80	80	80
70	70	70
60	60	60
50	50	50
40	40	40
30	30	30
20	20	20
10	10	10
0	0	0

Carbon dioxide	4.217	
Air		
Nitrogen	1.056	
Oxygen		
Hydrogen sulfide		
Hydrogen		
Methane gas	81.394	
Ethane	9.080	2.422
Propane	3.266	.899
Butanes		
n-Butane	.277	.090
i-Butane	.451	.142
Pentanes		
n-Pentane	.100	.037
i-Pentane	.072	.026
Hexanes	.024	.010
Heptanes	.063	.027
TOTAL	100.000	3.653

Calc. Sp. Gr.— 0.6909

Calc. A.P.I.—

Calc. Vapor Press.—

Sp. Gr.

Mol. Wt., 20,01

LIQUID CONTENT GAL./MCF)

Propane Calc. G.P.M.

Butanes Calc. G.P.M.

Pentanes Plus, G.P.M.

Ethane Calc. G.P.M.

____ RVP Gasoline G.P.M.

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis

Wet Basis

Sulfur Analysis by Titration

GRUBBS CO. FL.

Hydrogen Sulfide

Mercaptans

Sulfides

Residual Sum of Squares

Total Soluble

on by Deane Simpson

Checked by _____

Approved by _____

Additional Data and Remarks