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AUG-31973

U.S. GEOLOGICAL SURVEY

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-16-73		AUG 8 1973	
Company DALPORT OIL CORPORATION		Connection TO AIR			
Form LINE SIG		Formation QUEEN		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 7-16-73		Total Depth 2562'		Elevation 4038' Gr.	
Well No. I		Perforations: From 2513' To 2520'		Form or Lease Name DUNCAN FED.	
Well Size 2 3/4"		Set At 2487'		Unit Sec. Twp. Rge. F 8 13S 31E	
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE		Packer Set At NONE		County CHAVES	
Producing thru TUBING		Reservoir Temp. °F 91 @ 2515		State NEW MEXICO	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Meter Run 4" O.M.T.	
Prover 21571		H 21571		G _g .937	
% CO ₂ .08		% N ₂ 70.53		% H ₂ S	
FLOW DATA					
NO.	Prover Line Date	X	Orifice Size	Press. p.s.i.g.	Diff. h _g ft
1.	1" O.M.T. X 1.00"			20.5	102.0
2.	1" O.M.T. X 1.00"			17.0	181.0
3.	1" O.M.T. X 1.00"			13.0	280.0
4.	1" O.M.T. X 1.00"			6.5	471.0
TUBING DATA					
				Press. p.s.i.g.	Temp. °F
				695.0	78
CASING DATA					
				Press. p.s.i.g.	Temp. °F
				250.0	78
				297.0	78
				338.0	78
				428.0	87
RATE OF FLOW CALCULATIONS					
NO.	Prover Line Date	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}
1.	1" O.M.T. X 1.00"		0.9831	.8002	1.000
2.	1" O.M.T. X 1.00"		0.9831	.8002	1.000
3.	1" O.M.T. X 1.00"		0.9831	.8002	1.000
4.	1" O.M.T. X 1.00"		0.9804	.8002	1.000
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.					
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
Specific Gravity Separator Gas _____ X X X X X X X X					
Specific Gravity Flowing Fluid _____ X X X X X					
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.					
Critical Temperature _____ R _____ R					
NO.	P _c	Temp. °R	T _r	Z	
1.	234.2	51.8	627.8		
2.	322.5	57.5	580.7		
3.	310.6	59.7	403.2		
4.	215.7	63.2	319.7		
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0572$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0873$					
AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 355.7$					
Absolute Gas Flow _____ Mcf @ 15.025					
Angle of Slope = 150					
Slope, n 1.000 Limit					
Remarks: <u>Factor scale pressure measured with monod gauge @ 2515 feet</u>					
<u>1" O.M.T. manometer measuring in inches of mercury</u>					
<u>G.C.R. Manual Gr. Cr. and temp factors also used</u>					
Checked by: _____					

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ARTESIA, NEW MEXICO

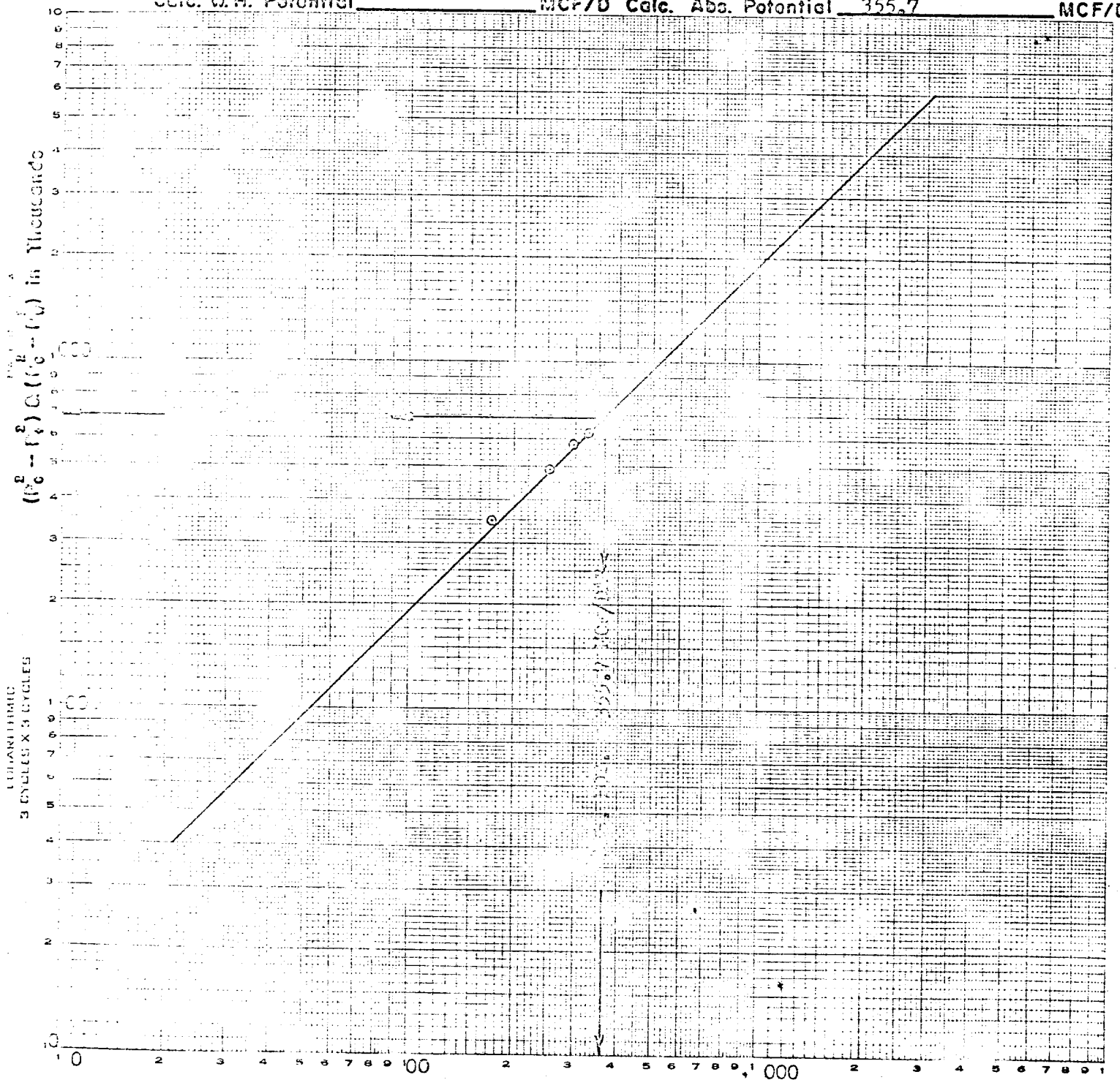
BACK PRESSURE CURVE

Operator DALEPORT OIL CORP Locos DUNCAN FEE Well No. 1

County CHUITA Field LINDSEY Location S8 T13S R31E

Date of Test 7-16-73 Slope "n" 1.000 Limit V.M. Abs.

Calc. W.M. Potential MCF/D Calc. Abs. Potential 355.7 MCF/D



Q in MCF/Dcy

ABS. SLOPE (n) = 1.000 LIMITED

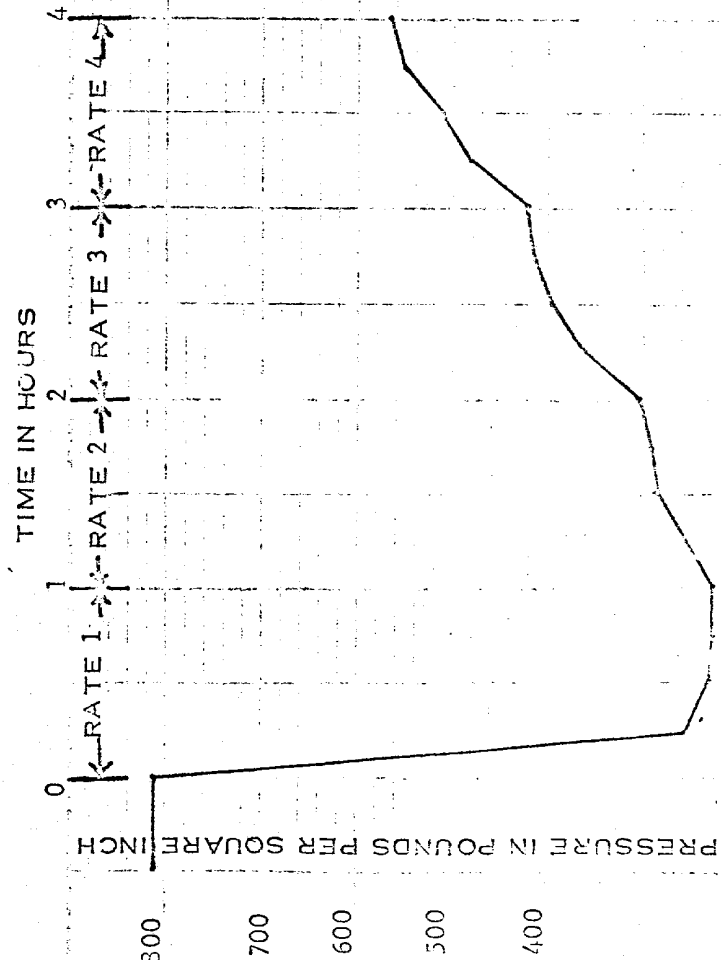
ABS. POT. = 327.1 $\left(\frac{682.6}{627.8} \right) = 355.7$ MCF/DAY

TEST DATE: JULY 16, 1973
 TEST DEPTH: 2515 FEET.
 ELEMENT NO.: 25624-N
 RANGE: 0-2000#
 CLOCK NO. 10835
 RANGE: 0-72 HRS.
 TEST OPERATOR M. HOMMASON

TIME
 1:30 P.M.
 1:45 P.M.
 2:30 P.M.
 2:45 P.M.
 3:30 P.M.
 3:45 P.M.
 4:30 P.M.
 4:45 P.M.
 5:30 P.M.

CUM. HRS./MIN.
 00HRS. 00MIN.
 00 15
 01 00
 01 15
 02 00
 03 15
 03 00
 04 15
 04 00

PSIG @ CENTER PERFS. 2515 FEET.
 813 GUAGE REACHED 2515 FEET
 257 RATE 1
 221 END RATE 1
 250 RATE 2
 307 END RATE 2
 362 RATE 3
 422 END RATE 3
 482 RATE 4
 564 END RATE 4
 CHOKE @ 24/64
 CHOKE @ 18/64
 CHOKE @ 12/64
 CHOKE @ 6/64
 GUAGE OUT END TEST



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 ARTERIA, NEW MEXICO

DALPORT OIL CORPORATION

FOUR POINT BACK PRESSURE TEST
 DUNCAN FIELD, NO. 1