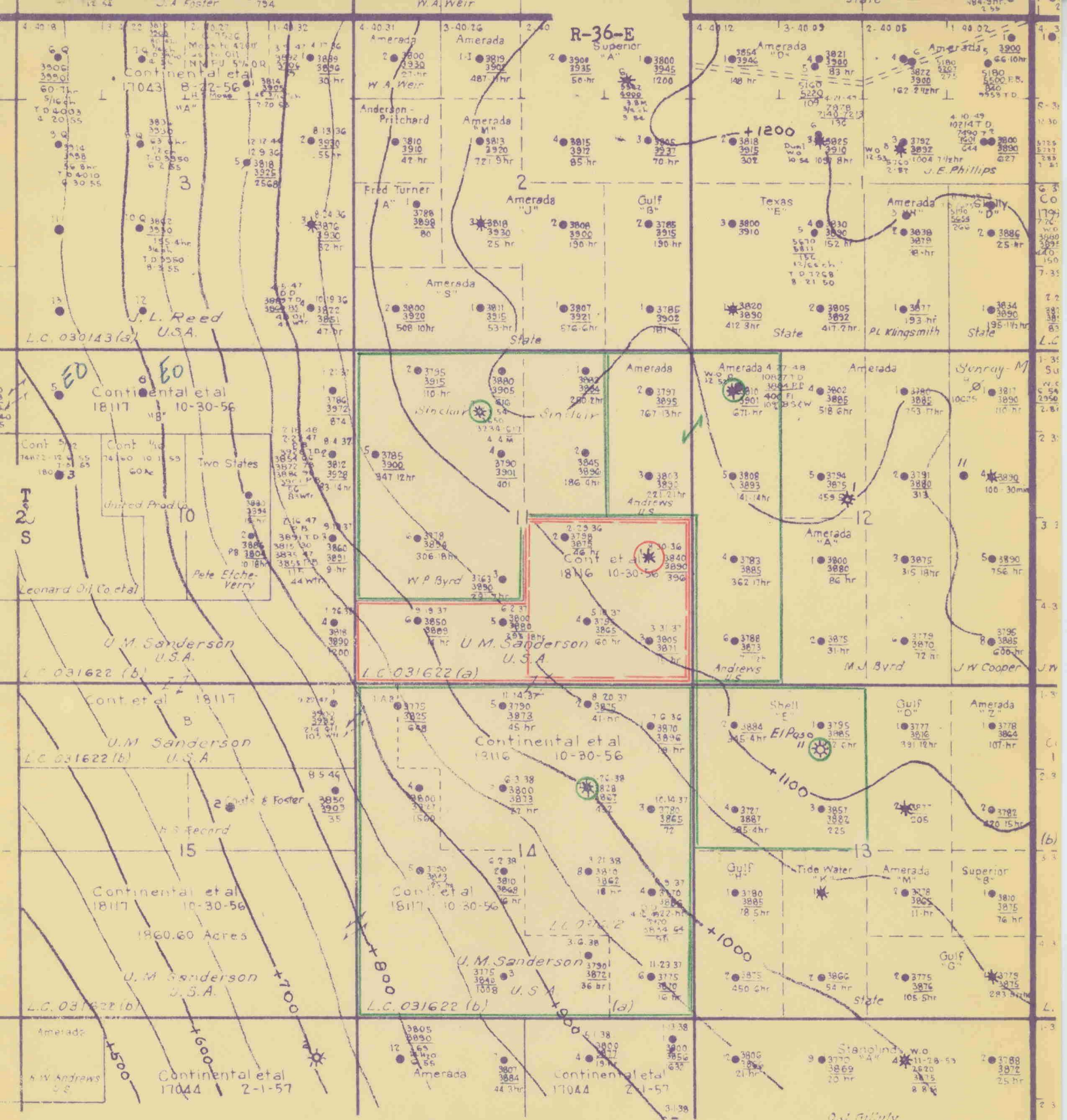




CONTINENTAL OIL COMPANY

scale: 1" - 2000' 50' contours on top of Yates

Subject Gas Well
Acreage Now Assigned to Well
Acreage Proposed for Well

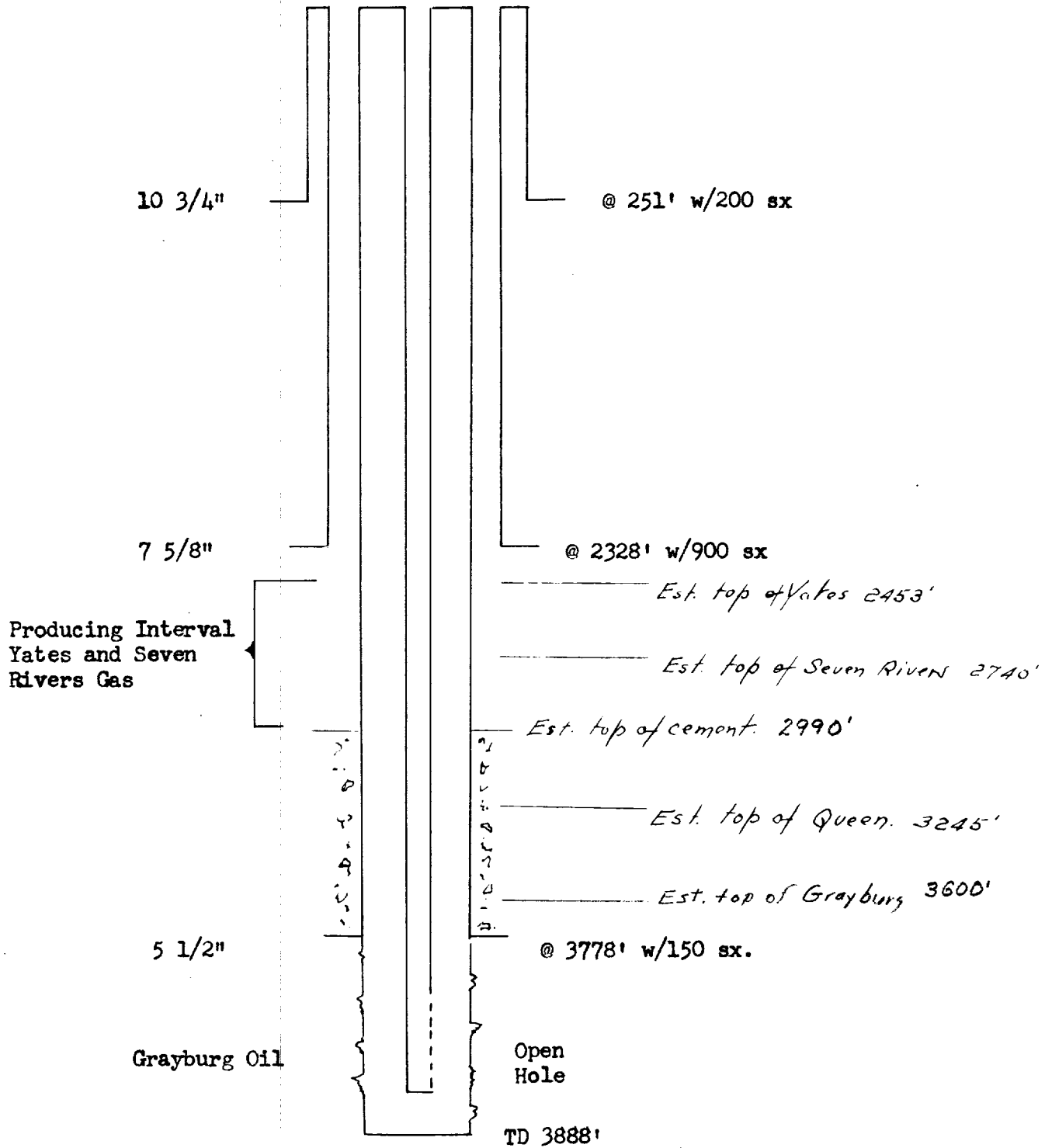
Offset Gas Well
Offset Gas Unit

Jan. '57

CASE 1230
EXHIBIT 1

CONTINENTAL OIL COMPANY
SANDERSON A-11 NO. 1
Bradenhead Gas Well

Elev. 3573'



Case 1230
Exhibit 2

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Eumont Formation Yates and Seven Rivers County Lea
Initial _____ Annual _____ Special X Date of Test 9-21-56
Company Continental Oil Company Lease Sanderson A-11 Well No. 1
Unit I Sec. 11 Twp. 20 Rge. 36 Purchaser EPNG
Casing 5 1/2 Wt. 17 I.D. - Set at 3778 Perf. - To -
Tubing 2 1/2 Wt. 6.5 I.D. - Set at - Perf. - To -
Gas Pay: From 2453 To 3000 L 2453 xG .670 -GL 1644 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Bradenhead
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-30-36 Packer - Reservoir Temp. 90°

OBSERVED DATA

Tested Through ~~(KROGER)~~ ~~(KROGER)~~ (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Proven) (Line) Size	(Standard) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								830		72
1.	4	1,500	593	58	74			584		23
2.	4	1,500	616	35	74			613		25
3.	4	1,500	608	25	74			616		24
4.	4	1,250	601	.64	74			758		24
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure * psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	13.99	185.46		.9868	.9463	1.067	2587
2.	13.99	146.84		.9868	.9463	1.067	2048
3.	13.99	123.29		.9868	.9463	1.067	1720
4.	9.643	19.61		.9868	.9463	1.067	188
5.							

*Note - L-10 chart used.

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio - cf/bbl. Specific Gravity Separator Gas -
Gravity of Liquid Hydrocarbons - deg. Specific Gravity Flowing Fluid -
F_c Not applicable (1-e^{-s}) Not applicable P_c 843.2 P_c 711.0

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	597.2	356.6	-	-	-	356.6	354.4	597.2	.71
2.	626.2	392.1	-	-	-	392.1	318.9	626.2	.74
3.	629.2	395.9	-	-	-	395.9	315.1	629.2	.75
4.	771.2	594.7	-	-	-	594.7	116.3	771.2	.91
5.									

Absolute Potential: 5,150 MCFPD; n 1.00
COMPANY Continental Oil Company
ADDRESS Box 427 - Hobbs, New Mexico
AGENT and TITLE W. D. Howard, Gas Tester
WITNESSED _____
COMPANY _____

REMARKS

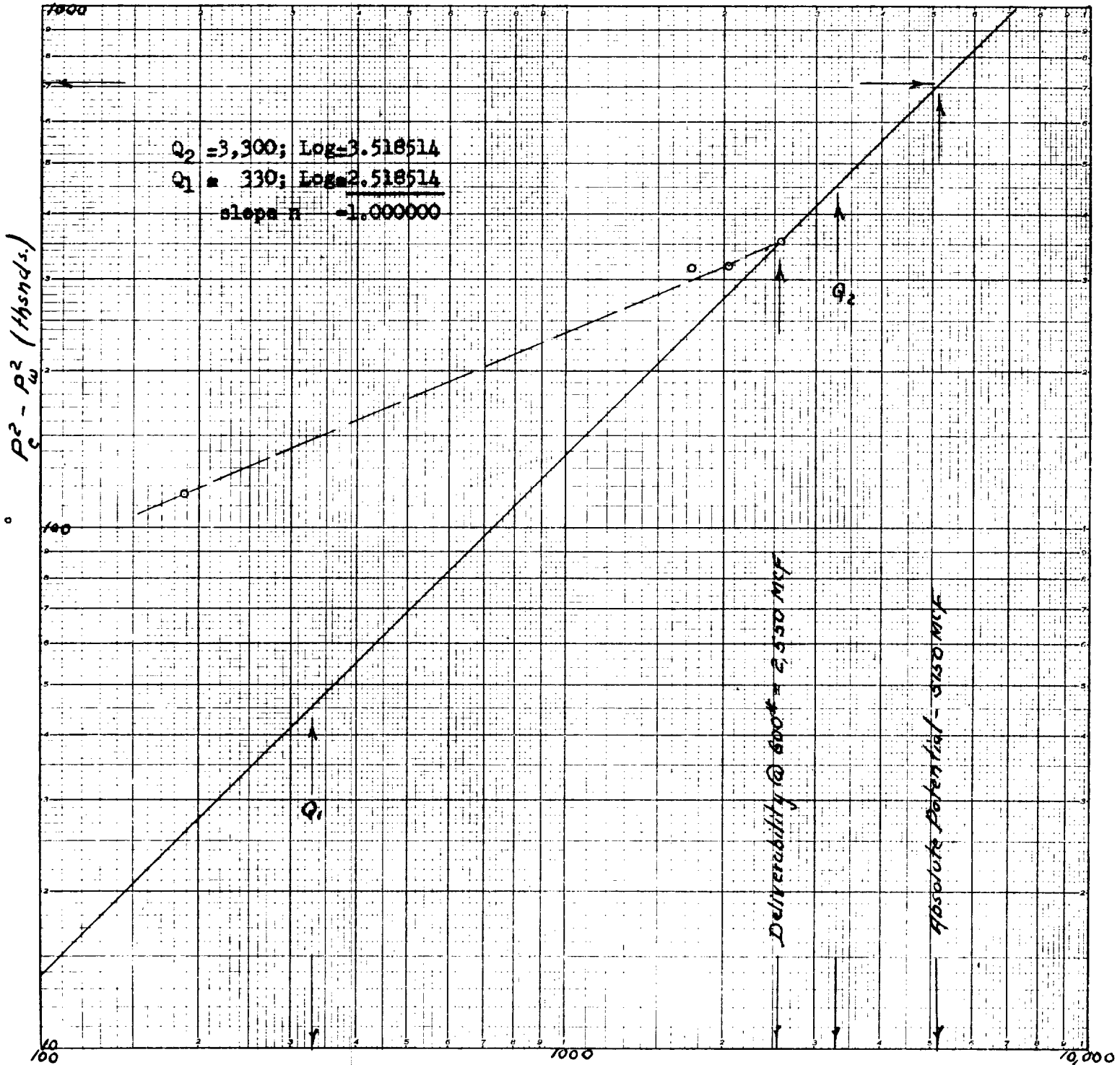
Slope greater than 1.00. Slope of 1.00 drawn thru highest rate of flow per paragraphs 10c and 10d of Back-pressure Manual. Due to Bradenhead flow, water-logging and testing into purchasers pipeline, this well has been extremely difficult to test.

Case "1230
Exhibit "3

COMPANY
WELL
LOCATION
COUNTY
DATE

Continental Oil Co.
Sanderson A-11 No.1
I 11-20S-36E.
Lea
9-21-'56.

NO. 31.291 LOGARITHMIC: 2 BY 2 3/4 INCH CYCLES (BASE SHORT WAY)
CODEX BOOK COMPANY, INC. NORWOOD, MASSACHUSETTS
PRINTED IN U.S.A.



$$Q = \text{MCF/D.} - 15.025 \text{ psia.}$$