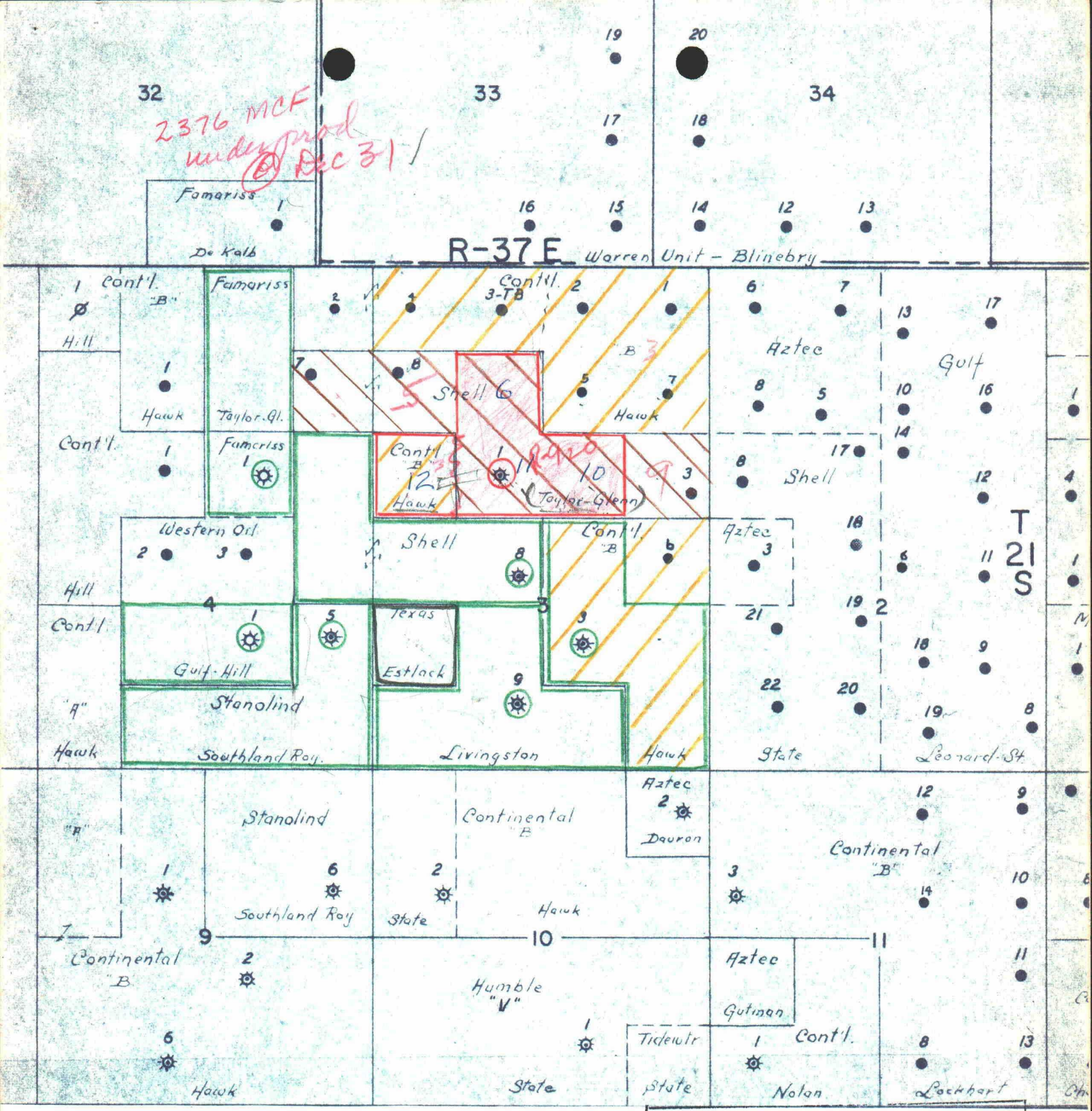


CONTINENTAL OIL COMPANY
LOCATION AND OWNERSHIP PLAT
T-21S, R-37E, Lea County, New Mexico
Scale: 1" = 2000'

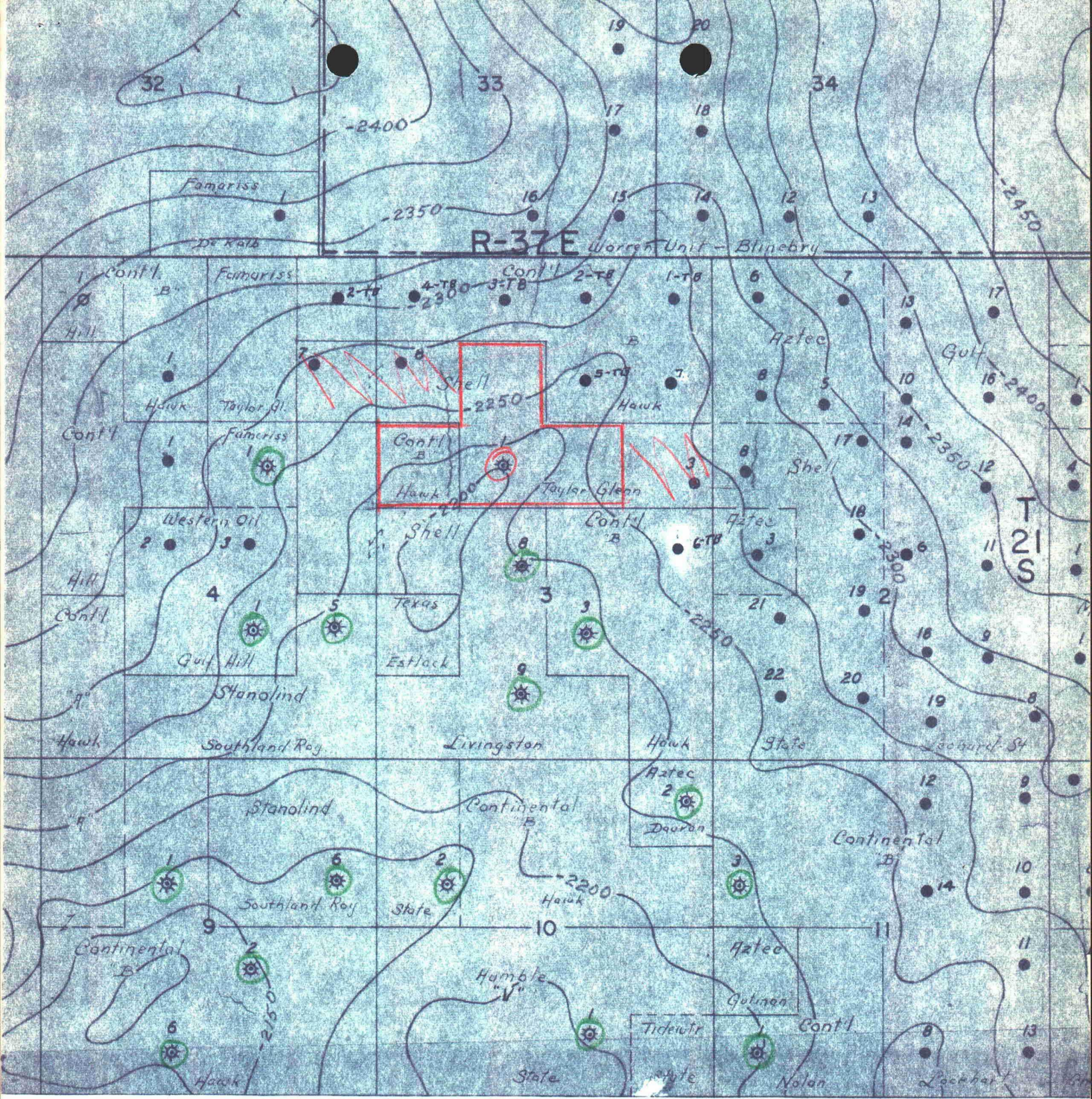
BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 1875

Legend

Shell Oil Co., Taylor-Glenn Lease
Present Gas Proration Unit
Unit Well Taylor-Glenn No. 1
Blinebry Gas Well

Continental Oil Co., ~~Hawk B-3 Lease~~
Proposed Gas Proration Unit
Offsetting Gas Proration Unit
Terry Blinebry Oil Well

Case No. _____
Exhibit No. _____



CONTINENTAL OIL COMPANY
STRUCTURE MAP
T-21S, R-37E, Lea County, N. M.
CONTOURED ON BLINEBRY MARKER
Contour Interval: 25' Scale: 1" = 2000'

Legend
Proposed Unit
Unit Well
Offset Gas Well

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. _____
CASE NO. _____

Cont'l

Case No. 1875
Exhibit No. 2

GAS WELL
BACK PRESSURE CURVE

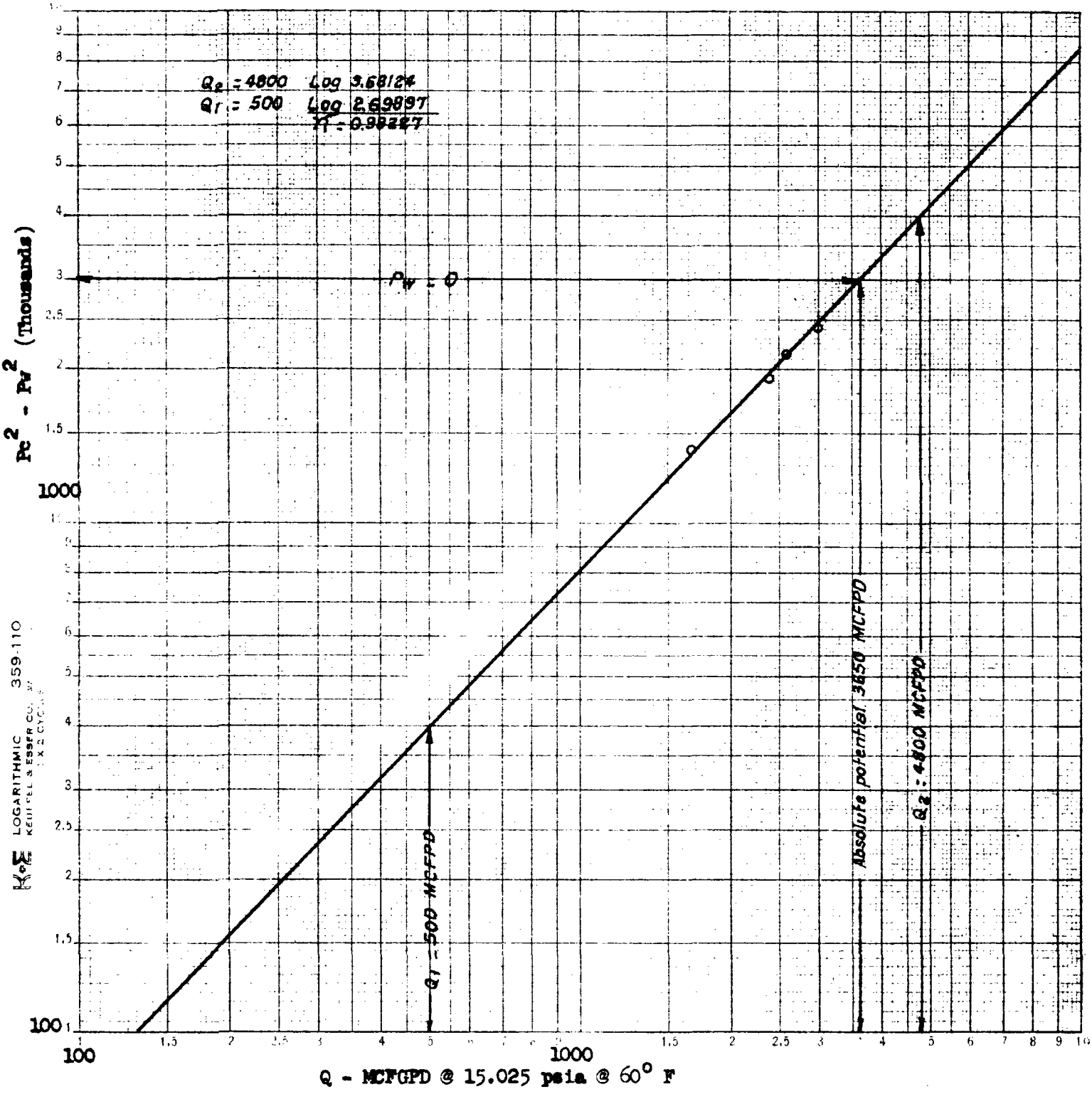
County Lea, N. Mex. Field Blinebry Gas

Operator Shell Oil Company

Lease Taylor-Glenn Well No. 1

Volume 3650 MCF/24 hr.

Date February 24, 1959



NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Blinebry Gas** Formation **Blinebry** County **Lea, N. M.**

Initial ____ Annual ____ Special **X** Date of Test **Feb. 13-20, 1959**

Company **Shell Oil Company** Lease **Taylor-Glenn** Well No. **1**

Unit **K** Sec. **3** Twp. **21 S** Rge. **37 E** Purchaser **El Paso Natural Gas Company**

Casing **5 1/2"** Wt. **17#** I.D. **4.892** Set at **8060** Perf. **5816** To **5850**

Tubing **2 3/8"** Wt. **4.7#** I.D. **1.995** Set at **6705** Perf. **6622** To **6627**

Gas Pay. From **5816** To **5850** L **5816** xG **Mix 0.791** -GL **4600** Bar.Press. **13.2**

Producing Thru: Casing **X** Tubing ____ Type Well **G. O. Dual**
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: **May 22, 1956** Packer **5899** Reservoir Temp. **100° F**

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps **Flange**

No.	Flow Data (~~Prover~~) (Line) Size	(~~Choke~~) (Orifice) Size	Press. **Line** psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								1725		72
1.	4	1.500	603	25.0	83			1259		24
2.	4	1.500	621	49.0	82			1031		24
3.	4	1.500	607	59.3	80			917		24
4.	4	1.500	619	79.2	86			748		24
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure Pf psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia	Oil Prod Bbls/Hrs
1.	13.99	124.10	616.2	0.9786	0.9245	1.066	1674	46.22
2.	13.99	176.25	634.2	0.9795	0.9245	1.069	2385	91.92
3.	13.99	191.73	620.2	0.9813	0.9245	1.066	2591	90.21
4.	13.99	223.75	632.2	0.9759	0.9245	1.067	3011	88.40
5.								

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **30,500** cf/bbl.
Gravity of Liquid Hydrocarbons **49** deg.
F_c **1.812** $(1-e^{-s})$ **0.271**

Specific Gravity Separator Gas **0.702**
Specific Gravity Flowing Fluid **0.784**
P_c **1738.2** P_c^2 **3021.3**

No.	~~P_w~~ P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	1272.2	1618.5	3.033	9.20	2.49	1621.0	1400.3	1273.2	73.2
2.	1044.2	1090.4	4.322	18.68	5.06	1095.5	1925.8	1046.7	60.2
3.	930.2	865.3	4.695	22.04	5.97	871.3	2150.0	933.5	53.7
4.	761.2	579.4	5.456	29.77	8.07	587.5	2433.8	766.5	44.1
5.									

Absolute Potential: **3650** MCFPD; n **0.98**
COMPANY **Shell Oil Company**
ADDRESS **Box 845, Roswell, New Mexico**
AGENT and TITLE **A. L. Ellerd, Gas Tester**
WITNESSED ____
COMPANY ____

REMARKS

1875

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.