

Enron
LG-4235

Kirklin
Lead-St
TO 5345
DA 10-24-59

Gulf Fed
C 5340
O/A 8-23-74
Enron
28881

State
Morr
DISC
TO 15,400
(Amoco)
Enron
HBC #12
LG-359
32

36

Enron
Diamond-
St
TO 15,560
1 Mil
2.5M

P.R. Bass
Fed. Muse
TO 5332
DA 9-6-61

(HNG)
Diamond-St
54-36
TO 15,410

TO 15,360
1 Mil
"Diamond-Fed"
2706
U.S. MI
Diamond E. Half (S)

"Oillon"
TO 15,275
38.3 Mil
"Jenniston"
etc / J.P. Knight, 1/4
A.B. Knight, Jr, 1/4
Leta Oillon

PITCH-FORK RANCH
TO 15,160
2 1/2 Mil
(HNG)
"Madera-St"
Diamond 5-
Fed.
TO 5583
D/A 17-2-85
State

State

Enron
Hallwood "1"
F621
Fed. Com.
TO 15,535
3.6 Mil.
Guinoco, et al
30400

Enron
14437 (HNG Oil)
Morrow
Disc.
16 Mil
9.7 Mil
TO 15,660

Enron
14497
Diamond 5-Fed.
TO 15,700
Sam Edg
CASS-Fed
TO 5359
D/A 7-69

Enron
HBP
19859
"Hallwood-Fed"
U.S.

Enron
HBP
18640
U.S. MI
Diamond E. Half (S)
Enron
HBP
30400
"Fed-Half" F205 U.S. "Fed-Half"

Enron
HBP
18640
U.S. MI
Diamond E. Half (S)
Enron
HBP
18640
U.S.
Enron
HBP
30400
(HNG)
Half-Fed
TO 15,350
U.S.

Enron
F358
(Guinoco, et al)
30400
12
F190
"Hallwood-
Fed."

Enron
14437
Enron
F285
F607
E-1924
"Diamond-Fed."
Enron
HBP
19525
"Red Hills 7-Fed."
U.S.
Enron
HBP
19625
"Red Hills 7-Fed"
State

Enron
14457
Enron
(Myco Ind.)
Langway Dr.
Fed.
TO 15,700
Enron
HBP
18640
U.S.
Enron
HBP
19625
Hill E. Meeker
Muse-Fed.
TO 5457
DA 7-26-67
U.S.

Enron
Yaca Fed.
TO 12600
F65
Enron
30400
F777
"Hallwood-Fed"
State U.S. MI

Enron
19625
"Red Hills 7-Fed"
State

Enron
HBP
18640
U.S. MI
State

Enron
19623
F426
F422

Enron
HBP
24490

D.E. Gonzales
12-1-2004
94108
30000

**BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico**

Case No. 11291 Exhibit No. 1

Submitted by: Enron Oil & Gas Company

Hearing Date: June 1, 1995

"Diamond
Fed"
U.S.M.I.
Diamond
E. Half
Inc. (S)

U.S.M.I.
Diamond
E. Half, Inc. (S)
Stone Pet.
Javelina
TO 15,825
(Morr. Disc)
1 3/4 Mil
Ataka Disc.

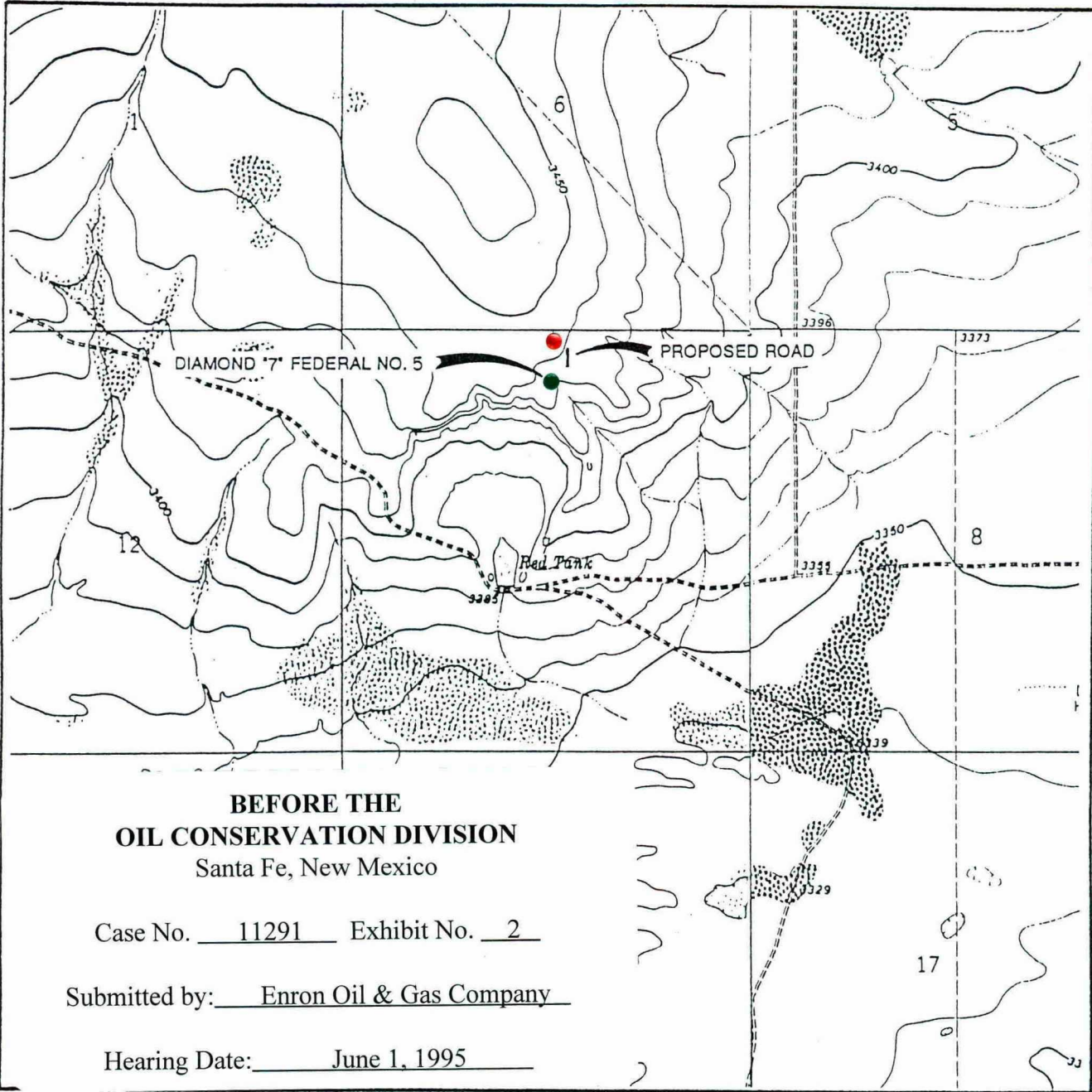
PITCH-FORK
U.S.

Enron
HBP

Enron
3-1-85
Gonzales

D Gonzales

LOCATION VERIFICATION MAP



**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11291 Exhibit No. 2

Submitted by: Enron Oil & Gas Company

Hearing Date: June 1, 1995

SCALE: 1" = 2000'

SEC. 7 TWP. 25-S RGE. 34-E

SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 660' FNL & 2530' FEL

ELEVATION 3433'

OPERATOR ENRON OIL AND GAS COMPANY

LEASE DIAMOND '7', FEDERAL NO.5

U.S.G.S. TOPOGRAPHIC MAP BELL LAKE AND WOODLEY FLAT, NM

CONTOUR INTERVAL 10'
WTC 44096

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

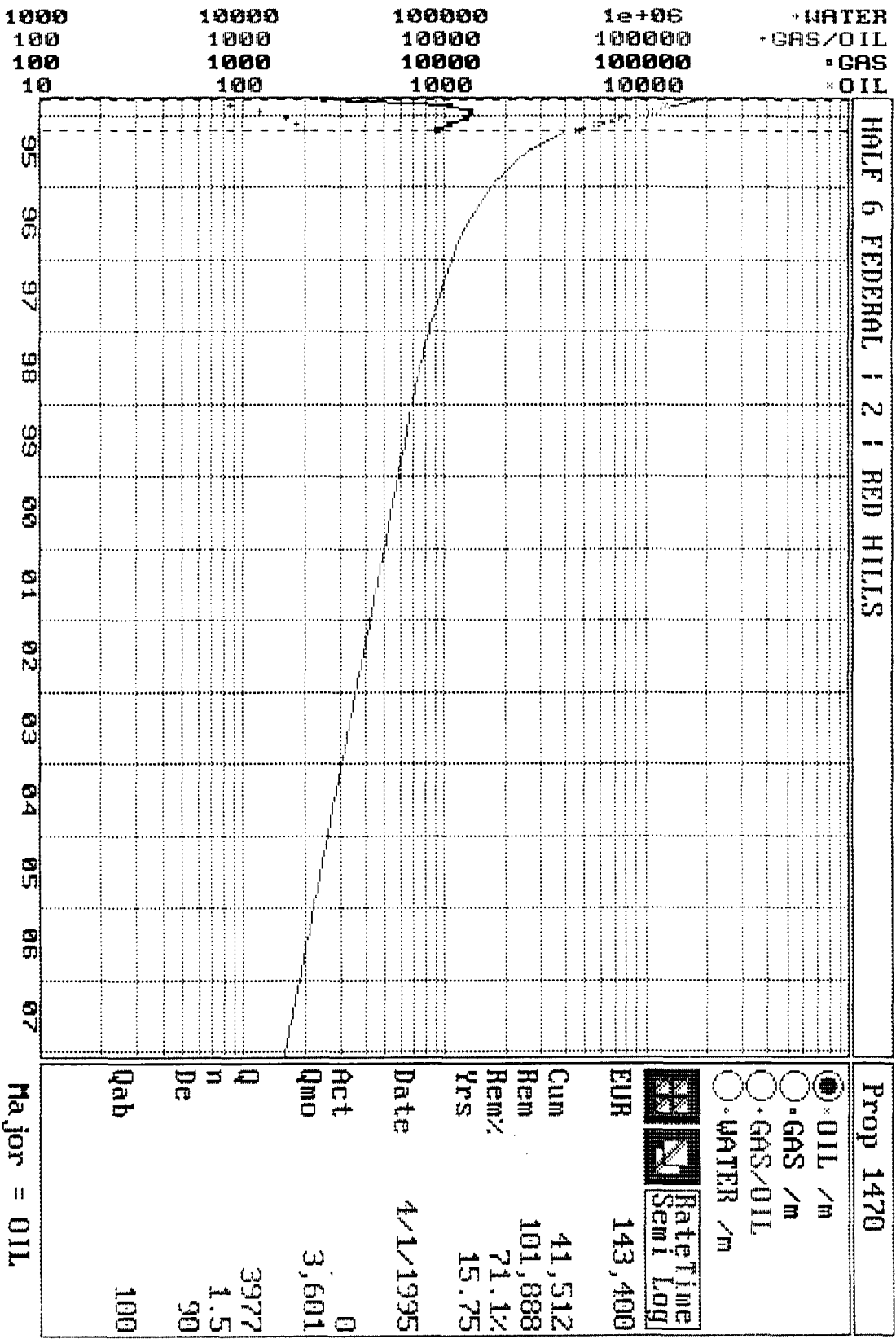
LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

**BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico**

Case No. 11291 Exhibit No. 5

Submitted by: Enron Oil & Gas Company

Hearing Date: June 1, 1995



Prop 1470

- OIL /m
- GAS /m
- GAS/OIL
- WATER /m

RateTime
Semi Log

EUR 143,400

Cum Rem 41,512
Rem 101,888
Rem% 71.1%
Yrs 15.75

Date 4/1/1995

fact 0
Qmo 3,601

Q 3977
n 1.5
De 90

Qab 100

Major = OIL

ENRON OIL & GAS COMPANY
Unorthodox Location Hearing
Diamond "7" Federal No. 5
Red Hills (Bone Spring) Field

Reservoir Data

Avg. Porosity - 12%	Recovery Factor - 15%
Avg. Oil Saturation - 60%	BO/ac-ft. Recoverable - 46.55
Formation Volume Factor - 1.80	

Calculation of Drainage Radii

Well	Decline EUR (MBO)	Pay ft. (> 9% Ø)	Drainage Acres	Drainage Radii
Half "6" Fed. No. 1	92.2	45	44	781'
Half "6" Fed. No. 2	143.4	112	28	623'
Half "6" Fed. No. 3	247.1	59	90	1,117'
Diamond "7" Fed. No. 2	127.0	17	160	1,489'
Diamond "7" St. No. 1	200.5	43	100	1,178'

Relevant Factors

- Half "6" Fed. No. 1 has lower permeability than rest of the field based on initial producing rate.
- Diamond "7" Fed. No. 1 has sand behind pipe but needs to produce remaining Morrow and Wolfcamp reserves.
- Diamond "7" Fed. No. 1 Bone Spring sand DST'd very low permeability based on low FPs and SIs. Data was in wellbore storage regime.
- Diamond "7" Fed. No. 5 should encounter higher permeability than the Diamond "7" Fed. No. 1 and is located to recover reserves not produced by offset wells.

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11291 Exhibit No. 6

Submitted by: Enron Oil & Gas Company

Hearing Date: June 1, 1995