

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

ENRON OIL & GAS COMPANY

Red Hills (Bone Spring) Field
Hearing to Amend Special Pool Rules
October 5, 1995

Reservoir Data

Avg. Porosity - 12.0% Recovery Factor - 18%
Avg. Oil Saturation - 60% BO/ac.-ft. Recoverable - 55.86
Formation Volume Factor - 1.80 Decline Type - Hyperbolic
Original Bottom Hole Pressure - approximately 9,400 psia
Bubble point pressure - approximately 3,900 psia

- The Red Hill (Bone Spring) Fields currently has 33 producers on 80 acres spacing units.
- Measured static BHPs upon completions show little or no pressure depletion.

Calculation of Drainage Area for Selected Wells

Well Name	Decline EUR (MBO)	Pay Ft. (>9% Ø)	Drainage Acres	k eff. MD
Diamond "7" State No. 1	232.6	42	99.1	0.130
Diamond "7" State No. 2	286.2	90	56.9	--
Diamond "18" Fed. No. 2	60.3	73	14.8	0.017
Half "6" Fed. No. 1	60.0	39	27.5	0.022
Half "6" Fed. No. 2	137.2	112	21.9	--
Half "6" Fed. No. 3	224.2	54	74.3	--
Half "7" Fed. No. 1	173.7	42	74.0	--
Hallwood "1" Fed. No. 3	149.5	51	52.5	--
Hallwood "12" Fed. No. 3	226.8	92	44.1	0.119
Hallwood "12" Fed. No. 6	262.6	139	33.8	--
Hallwood "12" Fed. No. 7	232.8	23	181.2	--
Red Hills "7" Fed. No. 1	157.4	70	40.3	0.065
Vaca "13" Fed. No. 1	213.8	59	64.9	0.033

Results

- Drainage calculation on thirteen (13) selected wells show a range of 14.8 acres to 181.2 acres with an average of 60.4.
- Measured effective permeabilities range from 0.017 md to 0.130 md with good relationship of permeability to calculated drainage area.
- Of the thirteen (13) selected wells
 - only two (2) will drain 80 acres or more
 - seven (7) will drain between 40 and 80 acres
 - four (4) will drain less than 40 acres

Conclusion

- Many 80 acre spacing units need 2 wells to fully and efficiently drain acreage.
- Enron requests 660 BOPD allowable per 80-acre spacing unit to accommodate new wells initially high producing rates.
- Enron requests 330 feet set backs to allow optimum well locations and avoid burdens of unorthodox location applications due to archeological and surface topography restrictions.

Amendment of the Special Pool Rules is needed to maximize recovery of hydrocarbons and protect correlative rights.

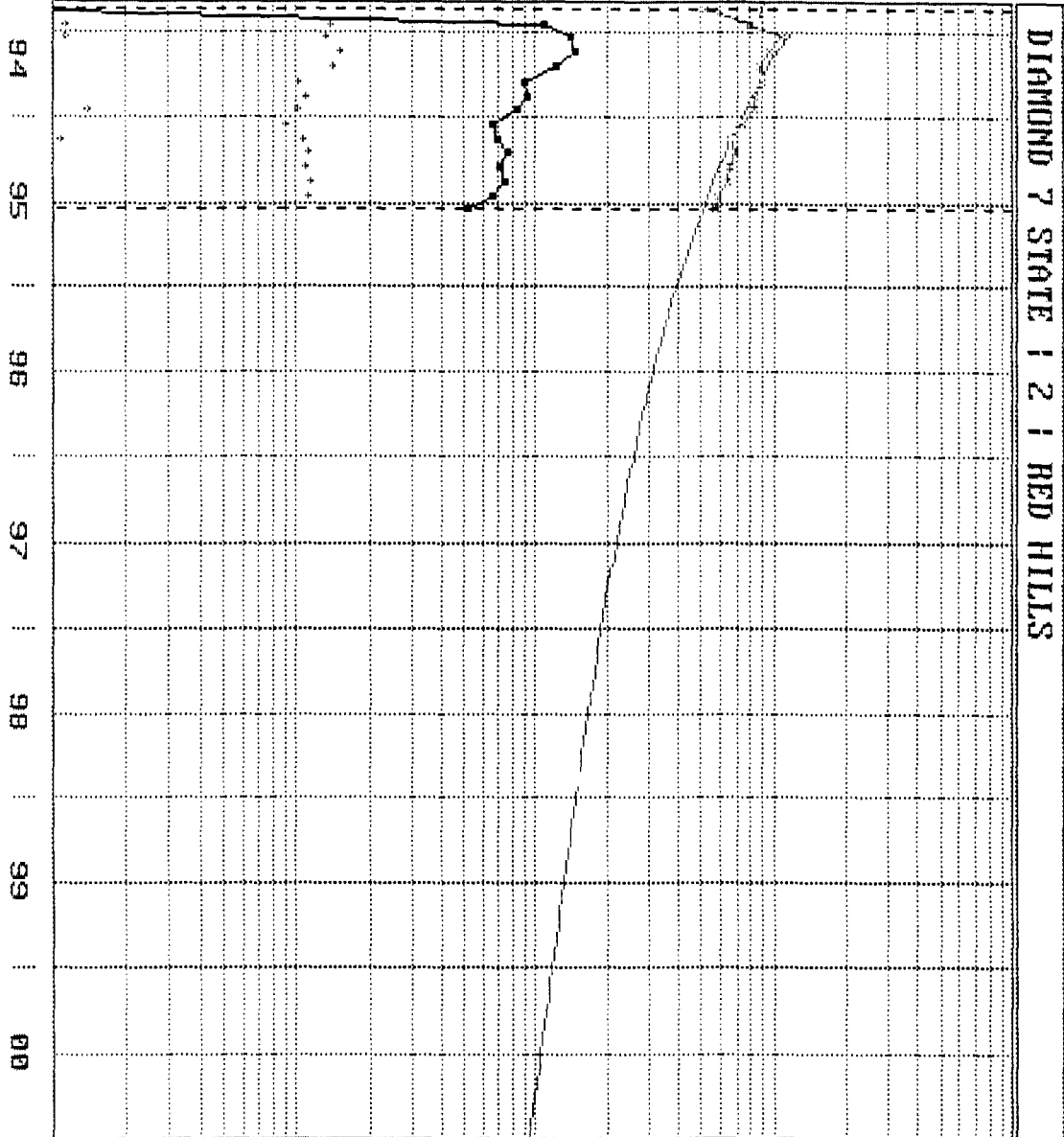
**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11375 Exhibit No. 6

Submitted by: Enron Oil & Gas Company

Hearing Date: October 5, 1995

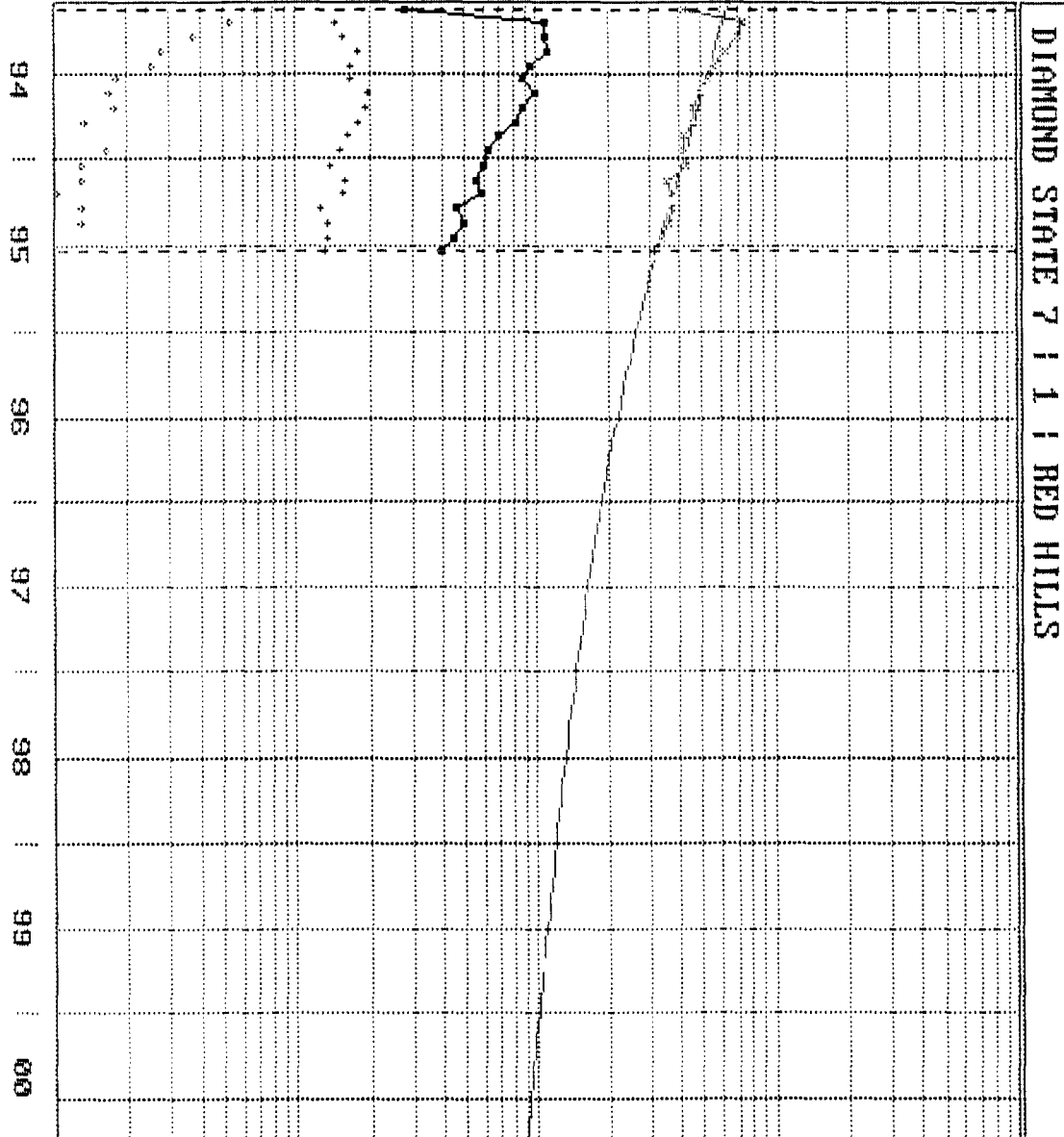
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 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL



Prop 1312	
☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m	☒ RateTime ☒ Semi Log
EUR	286,225
Cum	113,026
Rem	173,199
Rem%	60.5%
Yrs	12.17
Date	8/1/1995
Act	0
Qmo	4,872
Q	4899.4
n	0.8
De	44.537
Qab	200

Major = OIL

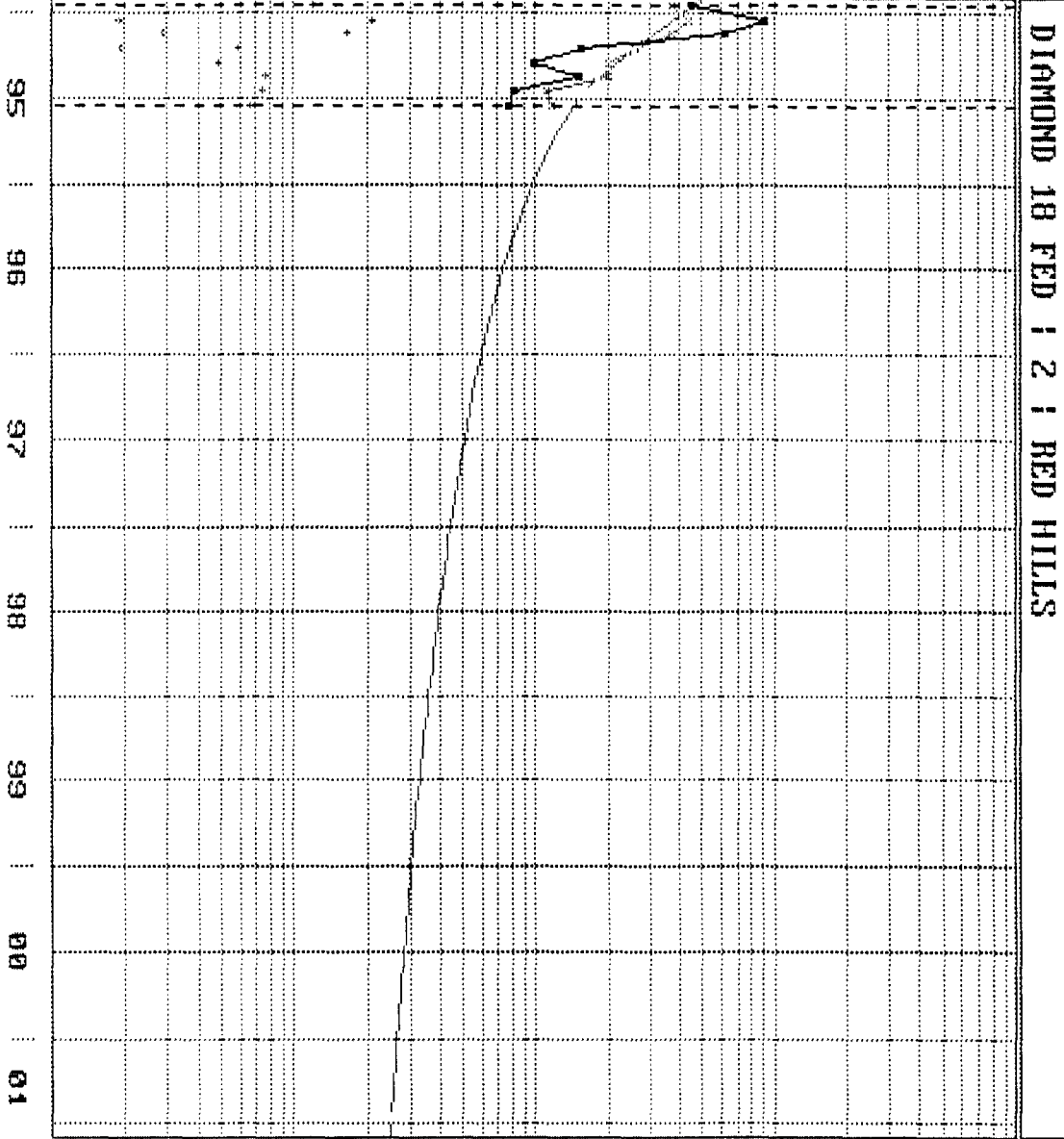
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 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL



Prop 1263		RateTime Semi Log	
☒	OIL /m	EUR	232,615
☐	GAS /m	Cum	83,784
☐	GAS/OIL	Rem	148,831
☐	WATER /m	Rem%	64.0%
		Yrs	14.33
		Date	8/1/1995
		Act	0
		Qmo	3,152
		Q	3155.3
		n	0.98
		De	38.082
		Qab	201

Major = OIL

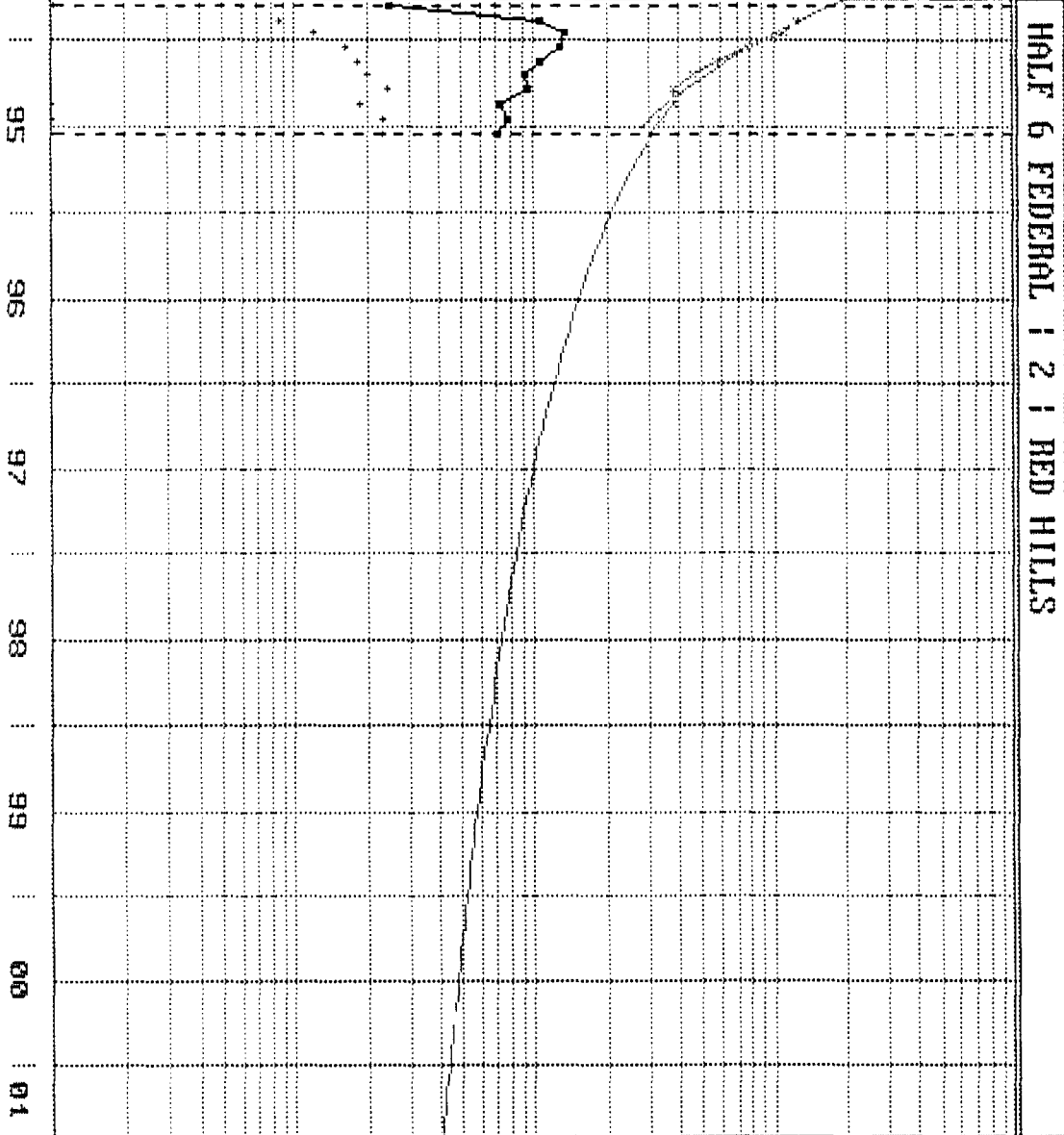
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Prop 1492		☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	60,290	
Cum	20,720	
Rem	39,570	
Rem%	65.6%	
Yrs	7.83	
Date	8/1/1995	
act	0	
Qmo	1,343	
Q	1375.7	
n	1.3	
De	65.581	
Qab	201	

Major = OIL

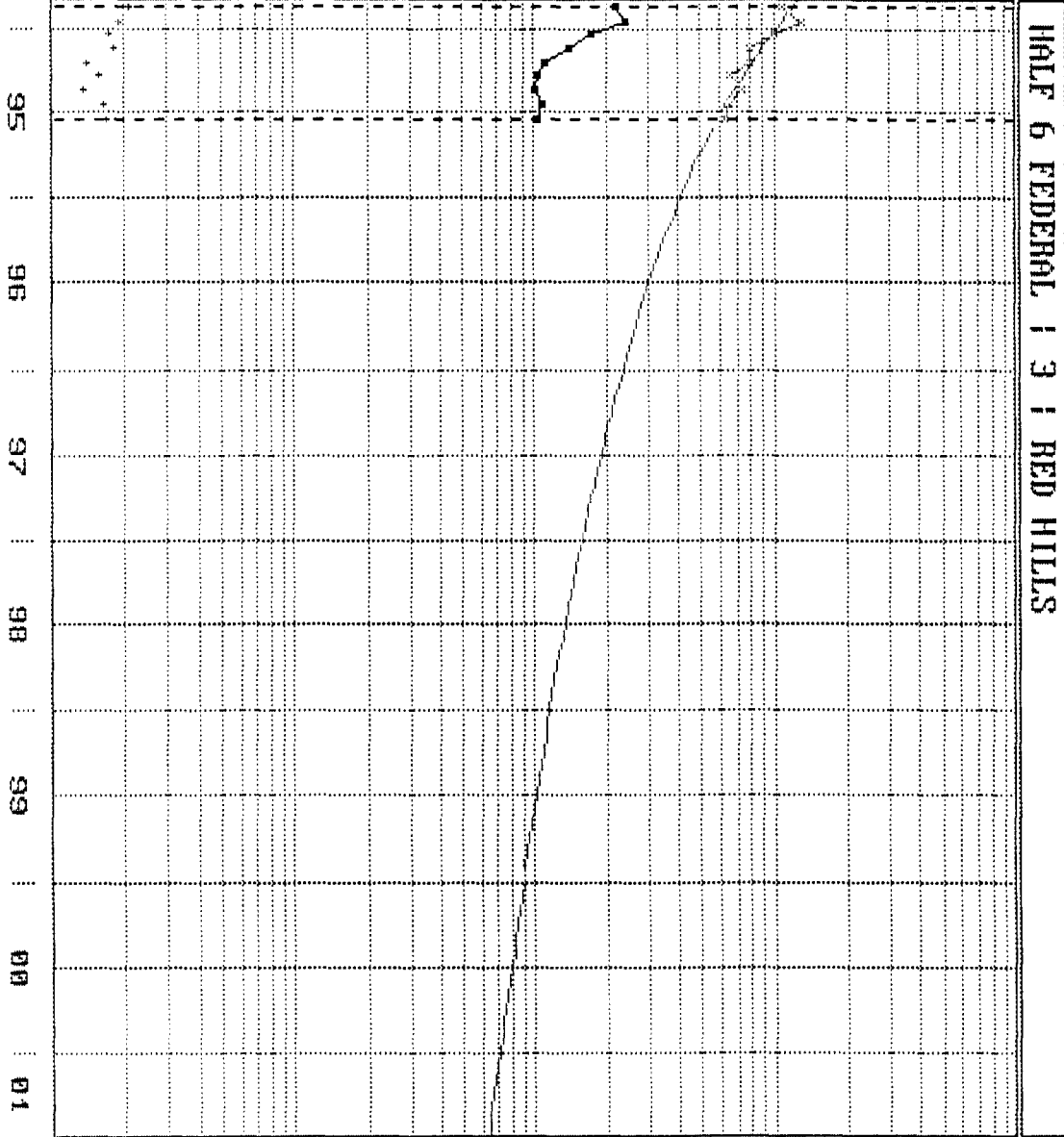
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 100 1000 10000 100000
 100 1000 10000 100000
 10 100 1000 10000
 • WATER
 • GAS/OIL
 • GAS
 • OIL



Prop 1470		☒ • OIL /m ☐ • GAS /m ☐ • GAS/OIL ☐ • WATER /m
EUR	137,245	RateTime Semi Log
Cum	55,495	
Rem	81,750	
Rem%	59.6%	
Yrs	10.17	
Date	8/1/1995	
act	0	
Qmo	2,929	
Q	3000.4	
n	0.98	
De	65.08	
Qab	200	

Major = OIL

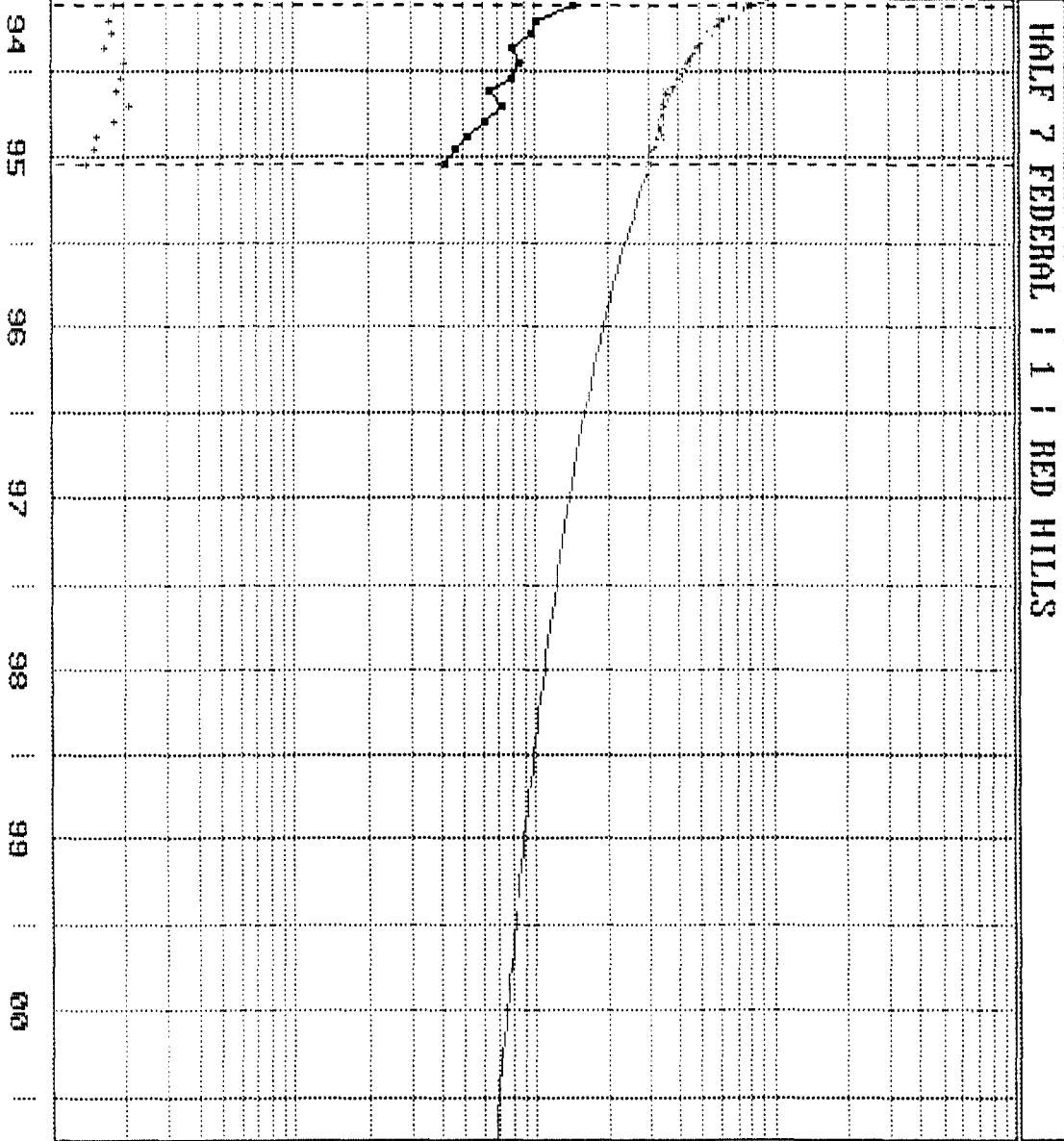
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 10 100 1000 10000 OIL



Well 6 Federal 13 Red Hills		Prop 1471
☒ OIL /m		
☐ GAS /m		
☐ GAS/OIL		
☐ WATER /m		
☒ Rating	☒ Semi Log	
EUR	224,226	
Cum	76,172	
Rem	148,054	
Rem%	66.0%	
Yrs	10.83	
Date	8/1/1995	
fact	0	
Qmo	5,597	
Q	5693.3	
n	0.7085	
De	58.089	
Qab	200	

Major = OIL

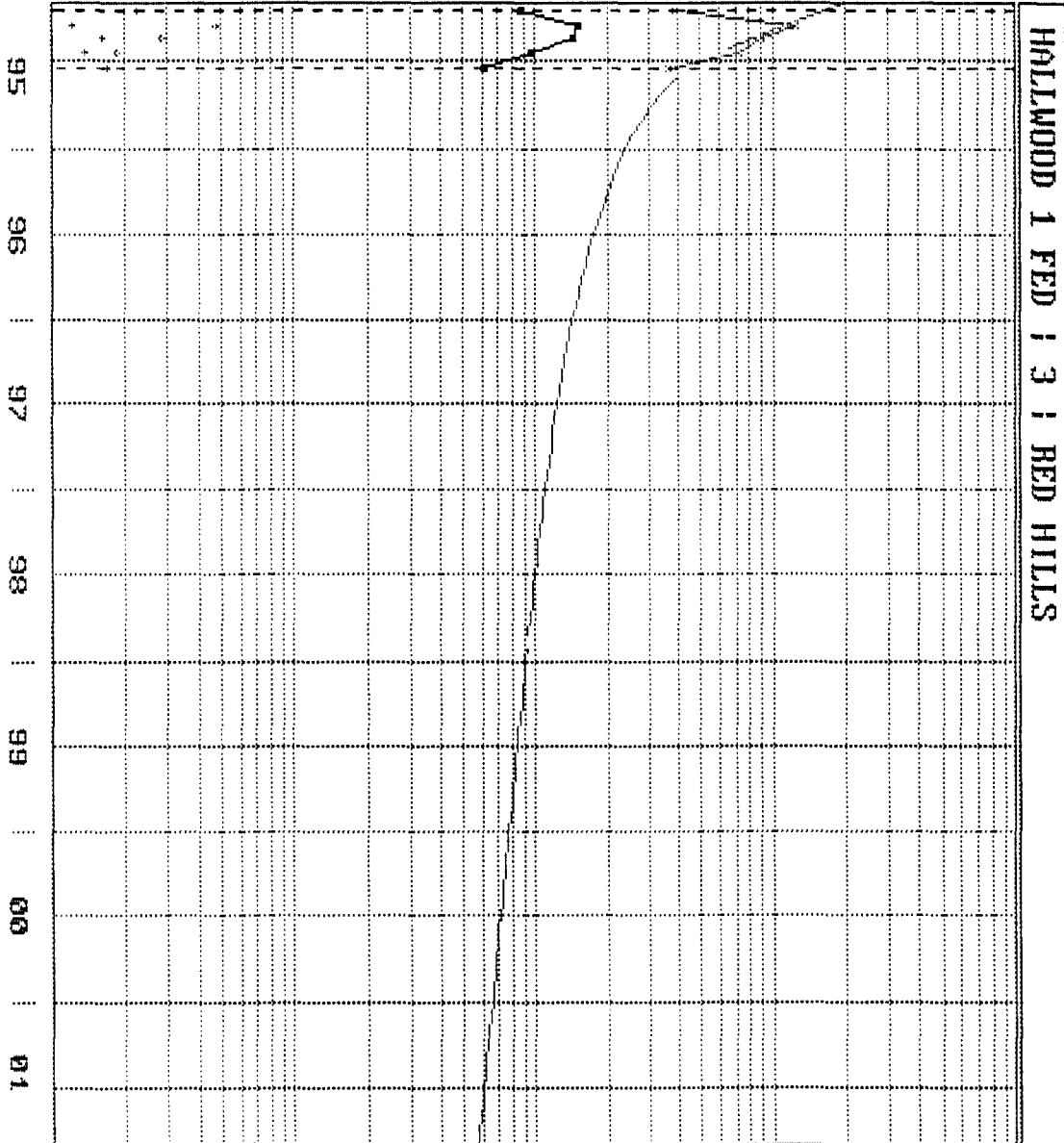
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 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL



Prop 1330		☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	173,654	Rate Time Semi Log
Cum	52,680	
Rem	120,974	
Rem%	69.7%	
Yrs	12.92	
Date	8/1/1995	
fact	0	
Qmo	2,958	
Q	2976.2	
n	1.0063	
De	45.46	
Qab	200	

Major = OIL

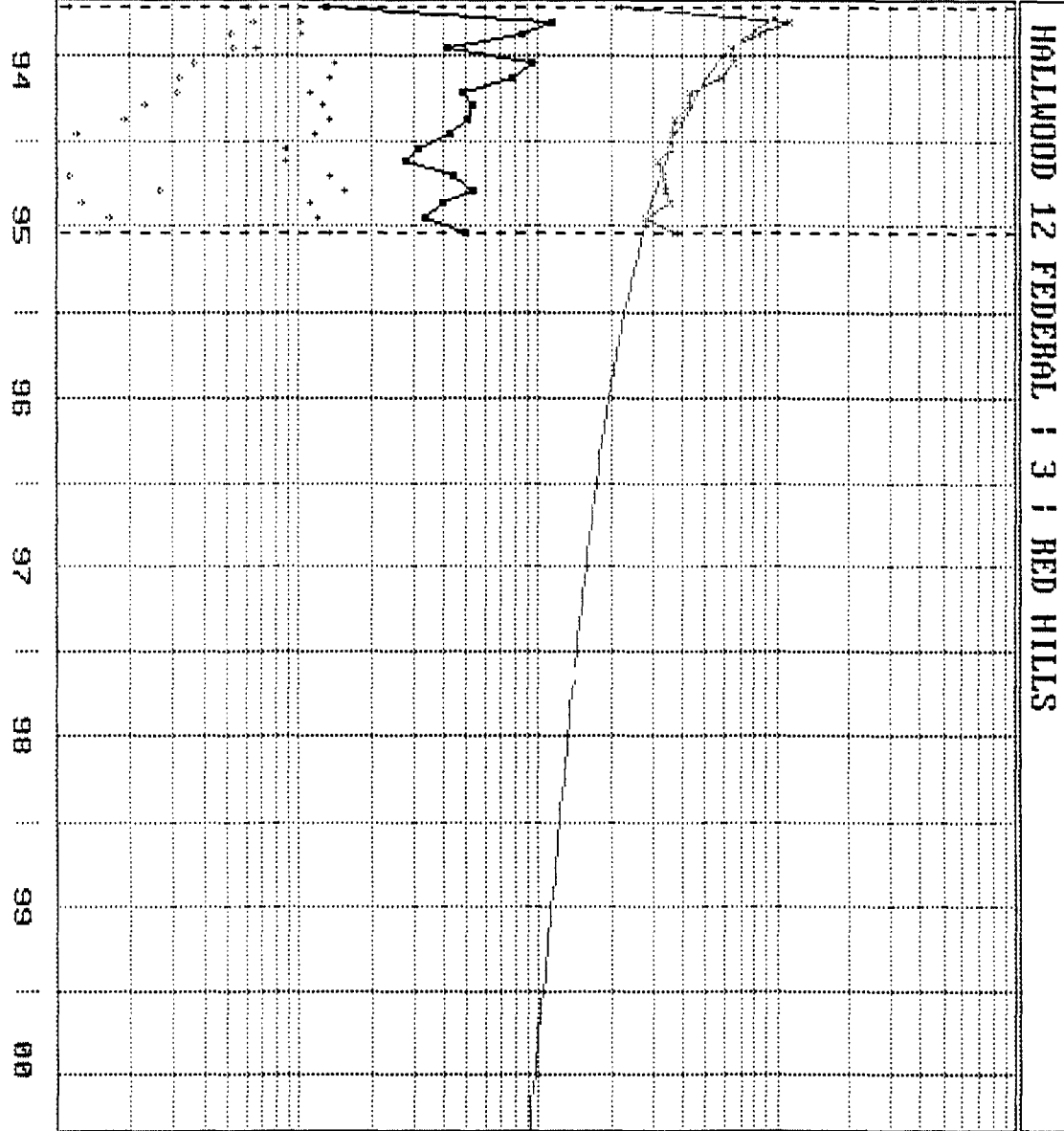
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 1000 10000 1000000 1e+06 GAS/OIL
 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL



Prop 1547		☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	149,515	RateTime Semi Log
Cum	36,214	
Rem	113,301	
Rem%	75.8%	
Yrs	11.92	
Date	8/1/1995	
act	0	
Qmo	3,778	
Q	4000.2	
n	1.7	
De	86.182	
Qab	231	

Major = OIL

100 1000 10000 100000 WATER
 100 1000 10000 100000 GAS/OIL
 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL

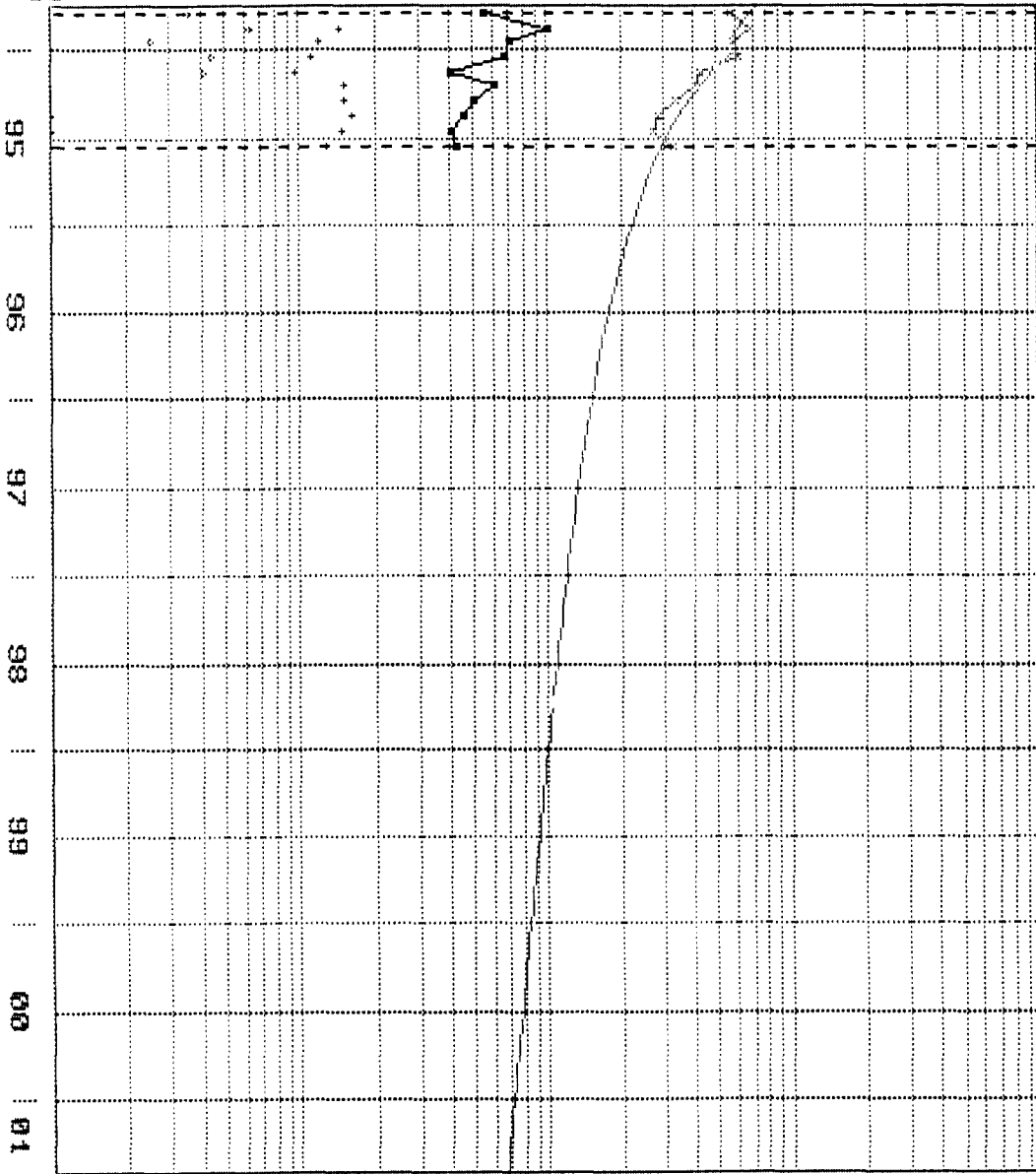


Prop 1276		☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	226,767	RateTime Semi Log
Cum	80,084	
Rem	146,683	
Rem%	64.7%	
Yrs	14.67	
Date	8/1/1995	
fact	0	
Qmo	2,686	
Q	2682.6	
n	1.5	
De	34.965	
Qab	200	

Major = OIL

100 1000 10000 100000 WATER
 100 1000 10000 100000 GAS/OIL
 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL

RED HILLS 7 FED : 1 : RED HILLS



Prop 1344

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

RateTime
Semi Log

EUR 157,423

Cum 45,361

Rem 112,062

Rem% 71.2%

Yrs 10.42

Date 8/1/1995

fact 0

Qmo 2,837

Q 2872.5

n 1.5

De 53.6

Qab 315

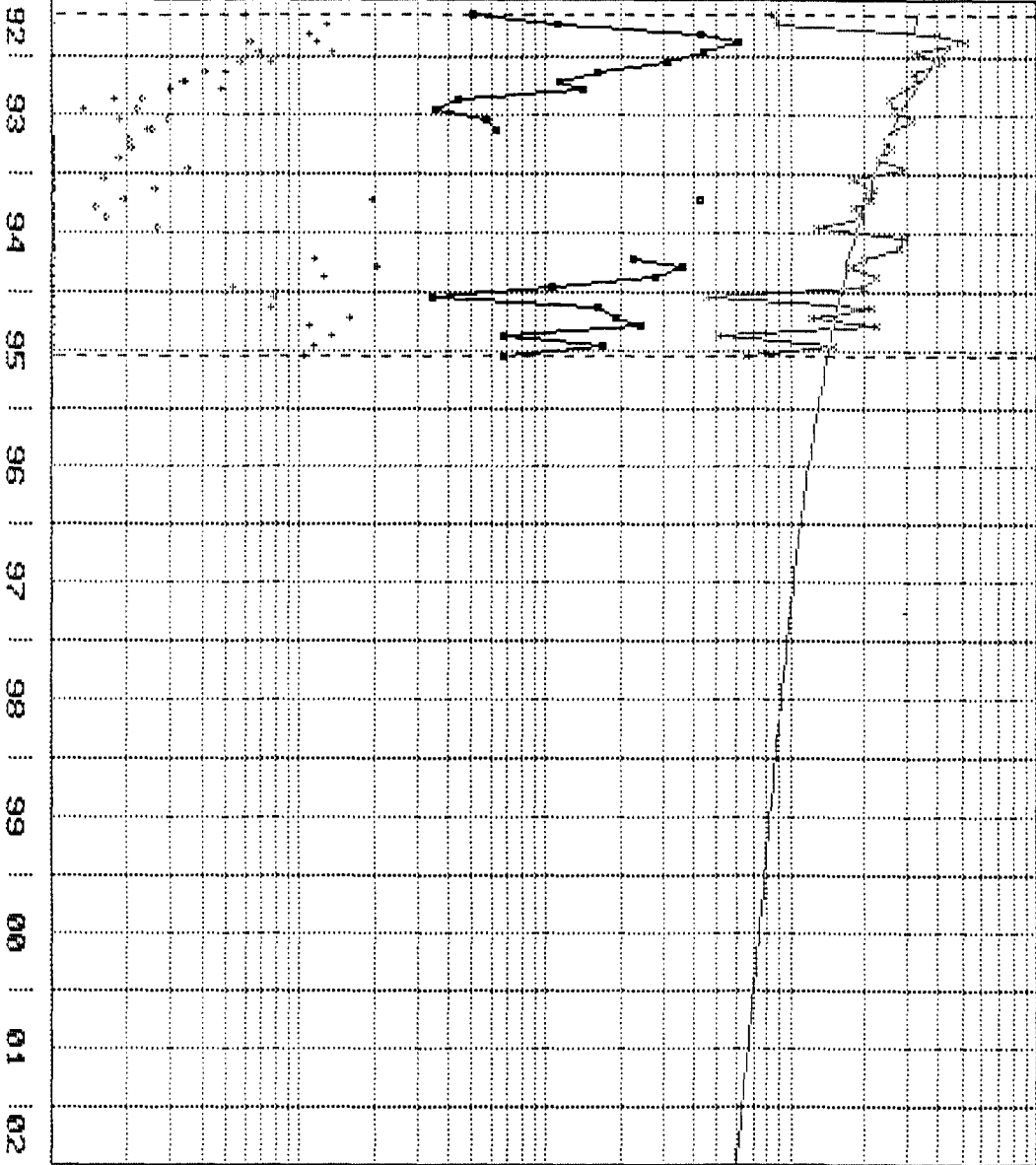
Major = OIL

VACA 13 FED : 1 : RED HILLS

Prop 1029

• WATER
• GAS/OIL
• GAS
• OIL

1000000 100000 10000 1000 100
100000 10000 1000 100 10
100 10 1



● OIL /m
○ GAS /m
○ GAS/OIL
○ WATER /m

RateTime
Semi Log

EUR 213,838

Cum 82,334
Rem 131,504
Rem% 61.5%
Yrs 23.83

Date 8/1/1995

Fact 0
Qmo 1,419

Q 1404.2

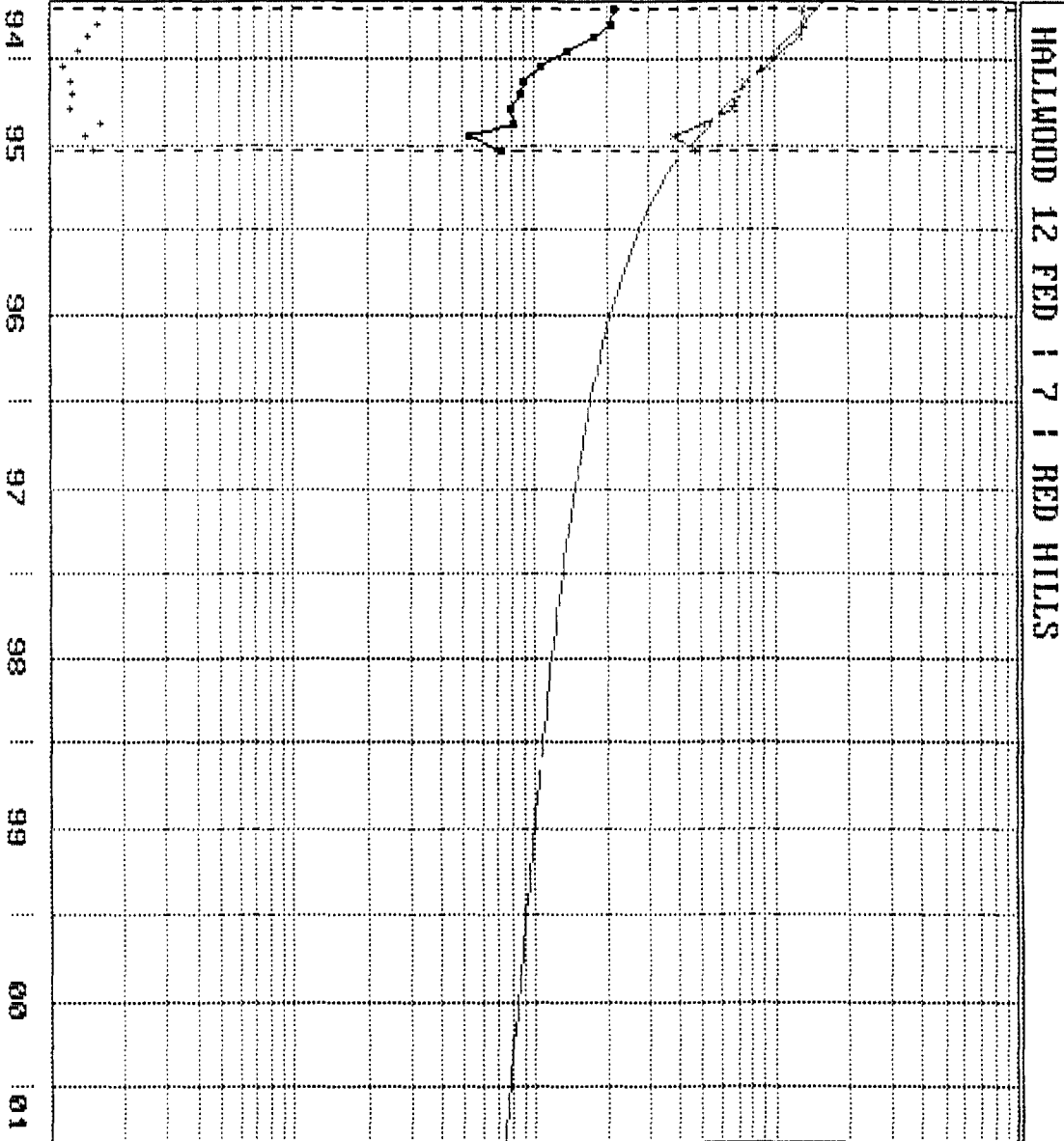
n 1.5

De 18.66

Qab 100

Major = OIL

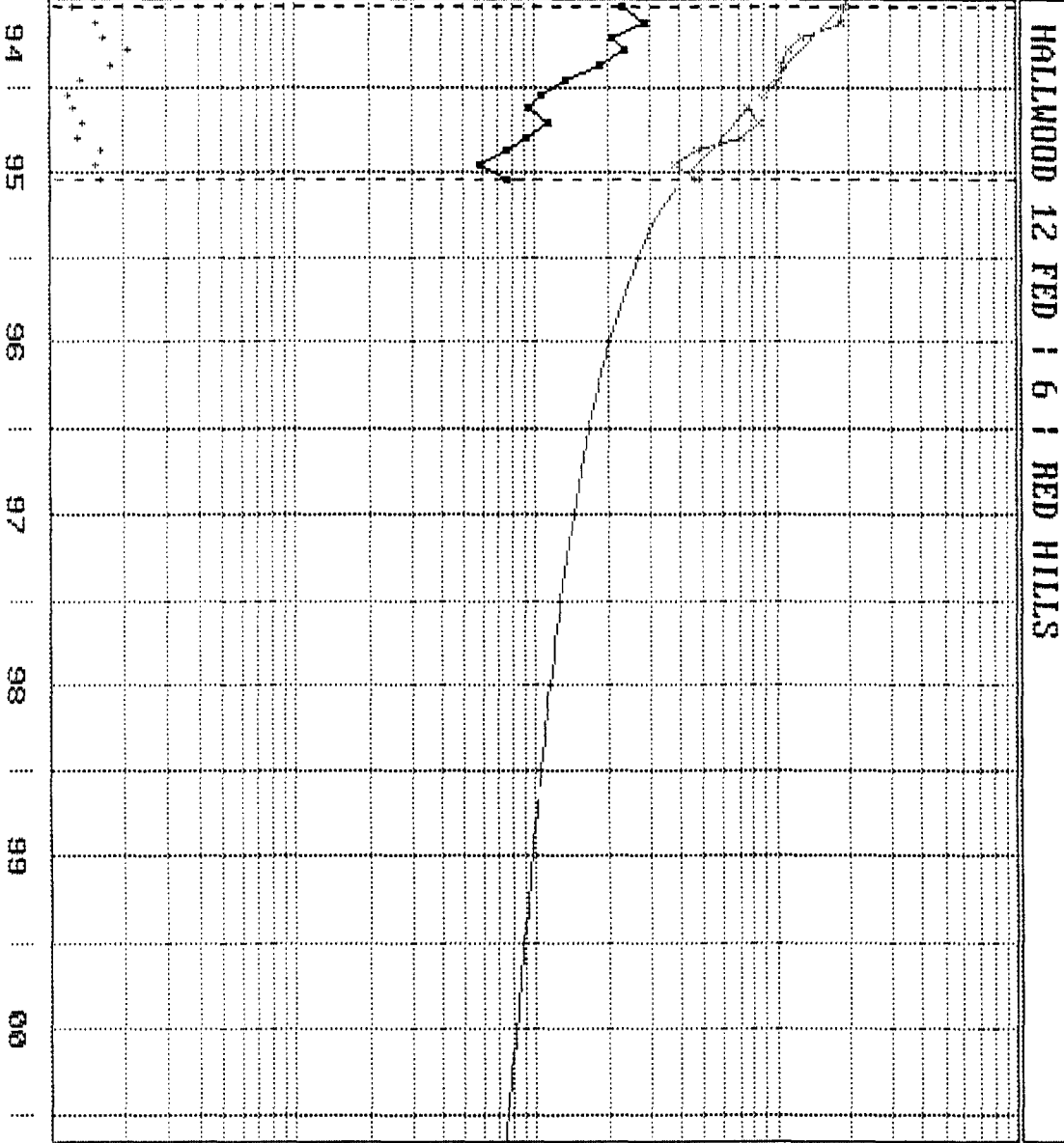
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 1000 10000 100000 1e+06 GAS/OIL
 100 1000 10000 100000 GAS
 10 100 1000 10000 OIL



Prop 1337	☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	232,782
Cum	94,416
Rem	138,366
Rem%	59.4%
Yrs	13.83
Date	8/1/1995
Act	0
Qmo	3,893
Q	4011.3
n	1.5
De	70.52
Qab	200

Major = OIL

10000 100000 1000000 1e+08
 1000 10000 100000 1e+06
 100 1000 10000 100000
 10 100 1000 10000
 * WATER
 * GAS/OIL
 * GAS
 * OIL



Well 1325		☒ OIL /m ☐ GAS /m ☐ GAS/OIL ☐ WATER /m
EUR	262,558	RateTime Semi Log
Cum	127,903	
Rem	134,655	
Rem%	51.3%	
Yrs	13.67	
Date	8/1/1995	
Act	0	
Qmo	3,785	
Q	3898.6	
n	1.5	
De	70.26	
Qab	200	

Major = OIL