



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

2-23-84

BRUCE KING  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

DHC-996

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

|     |             |
|-----|-------------|
| MC  | _____       |
| DHC | _____X_____ |
| NSL | _____       |
| NSP | _____       |
| SWD | _____       |
| WFX | _____       |
| PMX | _____       |

Gentlemen:

I have examined the application for the:

Dry Energy Co New Mexico 6 State #1-22 2-215-36E  
Operator \_\_\_\_\_ Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

Jerry Sexton  
Jerry Sexton  
Supervisor, District 1

/ed



Oryx Energy Company  
13155 Noel Road  
Dallas TX 75240-5067  
P.O. Box 2880  
Dallas TX 75221-2880  
214 715 4000

February 16, 1994

State of New Mexico  
Oil Conservation Division  
P.O. Box 2088  
310 Old Santa Fe Tr.  
Santa Fe, New Mexico 87501

Attn: Michael Stogner,  
Hearing Examiner & Petroleum Engineer

Re: Request to Downhole Commingle the  
Upper Glorieta Formation & Upper Blinbry  
Formation  
New Mexico "G" State #1, 650' FSL &  
550' FWL, Sec 2, T21S, R36E  
Lea County, New Mexico

Dear Mr. Stogner,

Oryx Energy Company request administrative approval for an exception to Rule 303-A to permit the downhole commingling of production from the Upper Glorieta Formation and the Upper Blinbry Formation in the above referenced well. The well currently produces 15 BOPD and 120 MCFPD from the Upper Glorieta Formation perforations of 5184 to 5298, and is on artificial lift. Oryx intends to remove a CIBP located at 5700' and open up the Upper Blinbry Formation perfs of 5798 to 5830. When this Formation was originally perforated it produced at a rate of 5 BO and 39 BLW for a ten hour swab test. The formation was then put under the CIBP. Oryx is proposing to allocate the production between the two zones by calculating the difference between what the well currently produces and what the production is after commingling the two zones.

The fluids from each of these zones is compatible and will not result in any precipitates which might damage either zone. The total value of the oil and gas produced will be equal to the value of the same if produced individually. Both zones have identical ownership (working interest, royalty, and overriding royalty).

A plat of the subject lease, a wellbore schematic, a summary of the well's history, a production curve and a C-116 for the Upper Blinbry formation are attached.

All offset operators have been notified by registered mail by a copy of this application. (See attached list)

Sincerely,  
ORYX ENERGY COMPANY

ROD L. BAILEY - PRORATION ANALYST  
(214) 715-4828

Submit 2 copies to Appropriate District Office.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-116  
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

| Operator                                                                                                                                                                                                                                          |  | Pool                                 |  | County                                                                                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
| ORYX ENERGY COMPANY                                                                                                                                                                                                                               |  | OIL CENTER GLORIETA                  |  | LEA                                                                                                                |  |
| Address                                                                                                                                                                                                                                           |  | P.O. BOX 2880, DALLAS, TX 75221-2880 |  | TYPE OF TEST - (X)                                                                                                 |  |
| LEASE NAME                                                                                                                                                                                                                                        |  | WELL NO.                             |  | SCHEDULED <input type="checkbox"/> COMPLETION <input type="checkbox"/> SPECIAL <input checked="" type="checkbox"/> |  |
|                                                                                                                                                                                                                                                   |  | LOCATION                             |  | DATE OF TEST                                                                                                       |  |
|                                                                                                                                                                                                                                                   |  | U S T R                              |  | CHOKE SIZE TBQ. PRESS. DAILY ALLOW- ABLE LENGTH OF TEST HOURS                                                      |  |
|                                                                                                                                                                                                                                                   |  | M 2 21S 36E                          |  | 02/17/94 P                                                                                                         |  |
|                                                                                                                                                                                                                                                   |  |                                      |  | 24 1 15 120 15/1                                                                                                   |  |
| NEW MEXICO "G" STATE                                                                                                                                                                                                                              |  |                                      |  |                                                                                                                    |  |
| 1                                                                                                                                                                                                                                                 |  |                                      |  |                                                                                                                    |  |
| M 2 21S 36E 02/17/94 P                                                                                                                                                                                                                            |  |                                      |  |                                                                                                                    |  |
| 24 1 15 120 15/1                                                                                                                                                                                                                                  |  |                                      |  |                                                                                                                    |  |
| ALLOCATION FACTOR FOR THE GLORIETA AND BLINERY ZONES WILL BE ALLOCATED BY CALCULATING THE DIFFERENCE BETWEEN WHAT THE WELL PRODUCES JUST PRIOR TO ADDING THE BLINERY ZONE AND WHAT THE WELL PRODUCES AFTER THE WORKOVER. (REMOVAL OF CIBP @ 5700) |  |                                      |  |                                                                                                                    |  |
| C-116 WILL BE SENT AFTER THE BLINERY ZONE IS OPENED.                                                                                                                                                                                              |  |                                      |  |                                                                                                                    |  |

INSTRUCTIONS:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

ROD L. BAILEY

Printed name and title

02/18/94

Date

(214) 715-4828

Telephone No.

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-183  
Revised 1-1-89

**DISTRICT I**

P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**

P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**

1000 Rio Brazos Rd., Aztec, NM 87410

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

**WELL API NO.**

30-025-30100

**5. Indicate Type of Lease**

STATE ☒

FEE ☐

**6. State Oil & Gas Lease No.**

**7. Lease Name or Unit Agreement Name**

NEW MEXICO "G" STATE

**1. Type of Well:**

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

**2. Name of Operator**

ORYX ENERGY COMPANY

**3. Address of Operator**

P.O. BOX 2880, DALLAS, TX 75221-2880

**8. Well No.**

1

**9. Pool name or Wildcat**

OIL CENTER GLORIETA

**4. Well Location**

Unit Letter M : 650 Feet From The SOUTH Line and 550 Feet From The WEST Line  
County

Section 2

Township 21S

Range 36E

NMPM LEA

**10. Elevation (Show whether DF, RKB, RT, GR, etc.)**

3561 KB

**11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☒

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

**12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.**

DRILL OUT CIBP @ 5700'. COMMINGLE GLORIETA ZONE WITH BLINEBRY PERFS.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE

PRORATION ANALYST

DATE 02/14/94

TYPE OR PRINT NAME ROD L. BAILEY

TELEPHONE NO. 214 715-4828

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO "G" STATE #1  
LEA COUNTY, NEW MEXICO  
OFFSET OPERATOR LISTING

CHEVRON U.S.A.  
P.O. BOX 3108  
FARMINGTON, NEW MEXICO 87499

AMOCO PRODUCTION COMPANY  
P.O. BOX 3092  
HOUSTON, TEXAS 77253

EXXON COMPANY U.S.A.  
P.O. BOX 1500  
MIDLAND, TEXAS 79702

NEW MEXICO "G" STATE NO. 1  
WELL HISTORY

LOCATION: 650' FSL & 550' FWL, SEC 2, T-21-S, R-36-E, UNIT "M",  
HARDY DRINKARD FIELD, LEA COUNTY, NEW MEXICO

ELEVATION: KB - 3561' GL - 3544.8'

DEPTHS: TD - 7030' CS - 7030' PBD - 5700'

SPUD DATE: 10/15/87 COMPLETED: 03/23/88

CSG DATA: SURFACE - 13-3/8", 54.5#, K-55, ST&C CSG.  
CS ±1350', FC ±1312'. CMTD W/ 1425 SX "C".  
CIRC CMT TO SURFACE.

INTERMEDIATE - 8-5/8", 24 & 32#, K-55, ST&C CSG.  
CS ±4752', FC ±4661', SC ±3838'.  
CSG STUCK 147' OFF BTM. PERF'D 4-WAY SQZ HOLES  
@ 4658'. CMT 1st STAGE 175 SX. OPEN SC. PUMP  
70 BBLs 9# BRINE, EST CIRC TO SURF. CMTD 2nd  
STAGE W/ 1200 SX. DID NOT CIRC CMT TO SURFACE.  
TOC ±2400' VIA TEMP SURVEY. DO CMT TO CS. SQZ  
SHOE JT & OH TO 2000 PSI W/ 170 SX CMT BELOW PKR.

PRODUCTION - 5-1/2", 17#, N-80, LT&C, "B" COND CSG.  
CS ±7030', FC ±6983', SJ 6637-6650'. CMTD W/  
800 SX "C". DID NOT CIRC. TOC ±3694' VIA TEMP  
SURVEY.

DST'S AVAILABLE:  
DST #1: RESULTS HELD TIGHT.

LOGS AVAILABLE:

1. WELEX GR/SDDS-NEUTRON LOG DATED 11/13/87 FROM 7029'-SURF.
2. WELEX GR/DIGL DATED 11/13/87 FROM 7029-5150'.
3. WELEX GR/ACOUSTIC VELOCITY LOG DATED 11/13/87 FROM 7023-5150'.
4. NL McCULLOUGH GR/CCL DATED 12/02/87 FROM 7018-5100'.

WELL HISTORY:

12/01/87 BEGAN COMPLETION. DO TO PBD OF ±7015'.  
PERF DRINKARD SET I 6934-6996', 1 JSPF, SELECTIVE, TOTAL 40 HOLES.  
ACDZ W/ 6000 GALS 20% NEFE HCL + 60 RCN BS. BDP 3000, MP 420C,  
MP 2200, ISIP 2900, 15 MIN SIP 2520. AIR 6.4 BPM.  
SWABBED WTR & GAS W/ TR OIL. SET CMT RET @ ±6920' VIA WL.  
SQZ W/ 200 SX, DISP 85 IN FORM, REV OUT 110 SX.

12/09/87 PERF DRINKARD SET IIB & III 6692-6900', 1 JSPF, SELECTIVE, TOTAL  
102 HOLES. PFT STIMULATE PERFS IN CIRC MODE, BROKE PERFS 3800 PSI.  
SPOT 10,000 GALS 20% NEFE HCL TO TOOL. ROUND TRIP TOOL THRU PERFS.  
ISIP 2050, 15 MIN 1570. 9 HRS SWAB TR OIL, 144 BLAW, SLIGHT GAS,  
FL SURF-6100'. SDFN. 10 HRS SWAB TR OIL, 85 BLAW, SLIGHT GAS,  
FL 3600-6300', FE 3 BPH. RAN BASE TEMP LOG.

New Mexico "G" State No. 1  
Well History  
Page Two (2)

WELL HISTORY: (cont'd)

12/09/87 ACDZ PERFS 6692-6900' W/ 8000 GALS 20% NEFE HCL + 153 RCN BS (DROP CLUSTERS OF 10). BDP 3100, MP 4600, MP 3400, ISIP 2600, 15 MIN SIP 1650, AIR 5.5 BPM, GOOD BALL ACTION. RAN PCST TREATMENT TEMP LOGS - MAJOR TREATMENT ZONE 6665-6860'. 11 HRS SWAB 0 BO, 220 BLAW, GOOD GAS, FL 1800-5000', 1% OC LAST FEW RUNS. 9 HRS SWAB TR OIL, 75 BLAW, 105 BW, GOOD GAS BLOW. SET CIBP @ ±6655' VIA WL, BUMP BAIL 2 SX ON TOP.

01/14/88 PERF BLINEBRY SET I 6089-6357', 1 JSPF, SELECTIVE, TOTAL 26 HOLES. ACDZ PERFS 6242-6357' W/ 2000 GALS 15% NEFE HCL + 21 RCN BS. BDP 3200, MP 4300, MP 3600, ISIP 2400, 15 MIN SIP 1950, AIR 4.6 BPM. RESET RBP & PKR. ACDZ PERFS 6089-6117' W/ 2000 GALS 15% NEFE HCL + 20 RCN BS. BDP 4600, MP 5100, MP 4200, ISIP 2800, 15 MIN SIP 1950, AIR 4.4 BPM. 9 HRS SWAB 1 BO, 69 BLAW, FL 200-5950', FE 1-1/2 BPH, 1% OC. SD FOR WEEKEND. 3-1/2 HRS SWAB TR OIL, 29 BLAW, NO GAS, FL 3700-5600'. SET CIBP VIA WL @ 5950'. DUMP 2 SX CMT ON TOP. PBTD ±5931'. PERF BLINEBRY 5795-5803, 5807-5815 & 5824-27', 1 JSPF, TOTAL 22 HOLES. ACDZ PERFS 5795-5827' W/ 3300 GALS 15% NEFE HCL + 35 RCN BS. BDP 3100, MP 3150, MP 2760, ISIP 2140, 15 MIN SIP 1860, AIR 4.9 BPM. 2 HRS SWAB 0 BO, 51 BLAW, STRONG CONTINUOUS GAS, FL SURF-4800'. SDFN. 5 HRS SWAB 4 BO, 10 BLAW, STRONG GAS, FL 3000-5600', FE 1/4 BPH, 90% OC. 1/2 HR SWAB 5 BO, 2 BLAW, STRONG GAS.

01/23/88 HOWCO FRAC BLINEBRY PERFS 5795-5827' W/ 14,000 GALS VERSAGEL 1300 + 6000 GALS CO<sub>2</sub> W/ 33,800# 20/40 SD, 4 PPG MAX DN 2-7/8" TBG. BDP 3770, MxP 4650, MnP 4210, ISIP 2700, 15 MIN SIP 2000, AIR 14 BPM. 4 HRS F 0 BO, 102 BLAW & STRONG GAS. SDFN. 4 HRS SWAB TR OIL, 38 BLAW, CONTINUOUS GAS, FL SURF-5660', 1-1/2 BPH FE. SDFN. 10 HRS SWAB 5 BO, 39 BLAW, FAIR GAS, FL 5650', FE 2 BPH. SDFN. 1/2 HR SWAB 5 BO, 6 BLAW, FAIR GAS, FL 5600'. SET CIBP @ ±5700'.

01/27/88 SPOT 4 BBLS 15% NEFE HCL FROM 5300-5128'. PERF GLORIETA 5179-5293', 1 JSPF, SELECTIVE TOTAL 65 HOLES. ACDZ W/ 8000 GALS 20% NEFE HCL IN ONE STAGE + 100 1.1 SP GR RCN BS. BDP 0, MxP 4200, MnP 1200, ISIP VAC, AIR 6 BPM, BALL ACTION 1200-4210'. 3-3/4 HRS SWAB TR OIL, 53 BLAW W/ CONTINUOUS GAS BLOW, FL 2700-5050'. SDFN. 1-1/2 HRS F 15 BO, 0 BW, 3/4" CHK, 150# TP - 0. 6 HRS SWAB 7 BO, 8 BLAW, FL 2700-5000', FE 1-1/2 BPH. SDFN. 2 HRS SWAB 8 BO, 0 BLAW, FL 4000-5000', FE 1-1/2 BPH.

02/02/88 RAN BHP. 630 PSI @ 5241', 522# @ SURF. RAN PUMPING SETUP. TS ±5345', SN ±5307'. SI WELL TO WO SURFACE COMMINGLING & PRODUCTION FACILITIES.

New Mexico State "G" No. 1  
Well History  
Page Three (3)

|          |                                                                                 |
|----------|---------------------------------------------------------------------------------|
| 03/20/88 | 24 HRS P 112 B0, 10 BW, 170 MCF, 1-1/2 x 86 x 13.                               |
| 03/21/88 | 24 HRS P 90 B0, 10 BW, 150 MCF, 1-1/2 x 86 x 13.                                |
| 03/22/88 | 24 HRS P 73 B0, 3 BW, 122 MCF, 1-1/2 x 86 x 13.                                 |
| 03/23/88 | 24 HRS P 62 B0, 3 BW, 120 MCF, 1-1/2 x 86 x 13, FL 347' OSN.<br>POTENTIAL TEST. |

DATE: January 27, 1994

**WELL NAME:** NEW MEXICO G STATE #1  
**FIELD:** O L CENTER  
**LOCATION:** 650' FSL & 550' FWL SEC 2 T21S - R36E UT "M"  
LEA COUNTY, NEW MEXICO

### DATA

**Permanent Zero Point:** ..... ZERO = KB = 16.2' AGL  
**PBTD:** ..... CIBP @ 5700'  
**Casing Size, Weight, Depth:** ..... 5 1/2" 17# N-80 @ 7030'  
..... CIBP'S @ 5700', 5950', 6655', 6920'  
**Tubing Size, Weight, Type, Depth:** ..... 2-7/8" 6.5# J-55 @ 5345'  
**TOC:** ..... 3694' TS  
**Perfs (Formation & Depth):** ..... GLORIETA (5179-93, 5207-11, 5231-55, 5265-77, 5287-5293)  
..... CIBP @ 5700'  
..... BLINEBRY (5795-5803, 5807-15, 5824-27)

### PROCEDURE

1. MIRU.
2. POH W/ SUCKER RODS & PUMP.
3. ND WELLHEAD.
4. NU BOP.
5. POH W/ 2-7/8" 6.5# J-55 TBG.
6. RIH W/ 4-3/4" RB, DC'S, ON 2-7/8" 6.5 J-55 TBG. TAG & DRILL OUT CIBP @ 5700'. CLEAN OUT TO  $\pm$  5900'. POH.
7. RIH W/ 2-7/8" 6.5# J-55 TBG & PUMPING SETUP TO  $\pm$  5850'.
8. ND BOP.
9. NU WELLHEAD.
10. RIH W/ PUMP ON SUCKER ROD STRING.
11. POP.

## WELL COMPLETION SKETCH

UN-5036 4 A

WELL

New Mexico G State #1

FIELD

Oil Center

DATE

1-26-94



PRESENT COMPLETION



SUGGESTED COMPLETION

## PERMANENT WELL BORE DATA

Zero = KB = 16.2' AGL

13-3/8 54.5 # K-55 @  
1350' w/ 1425 SKS  
CIRC TO SURF

TOC @ 2400'

TOC @ 3694' TS

STG COLLAR @ 3838'

2nd STG w/ 1200 SKS

8-5/8" 244 32 # K-55 @  
4752' 1st STG w/  
175 SKS, PERF 4-WAY  
@ 4658' w/ 170 SKS

CIBP @ 5950'

Blindery (6089-6357)

CIBP @ 6655'

Drink ARB (6692-6920)

CMT RET @ 6920' w/ 85 SKS

Drink ARB (6934-6996)

5 1/2" 17 # N-80 @ 7030'  
w/ 800 SKS CMT

TD = 7030'

## DATA ON THIS COMPLETION

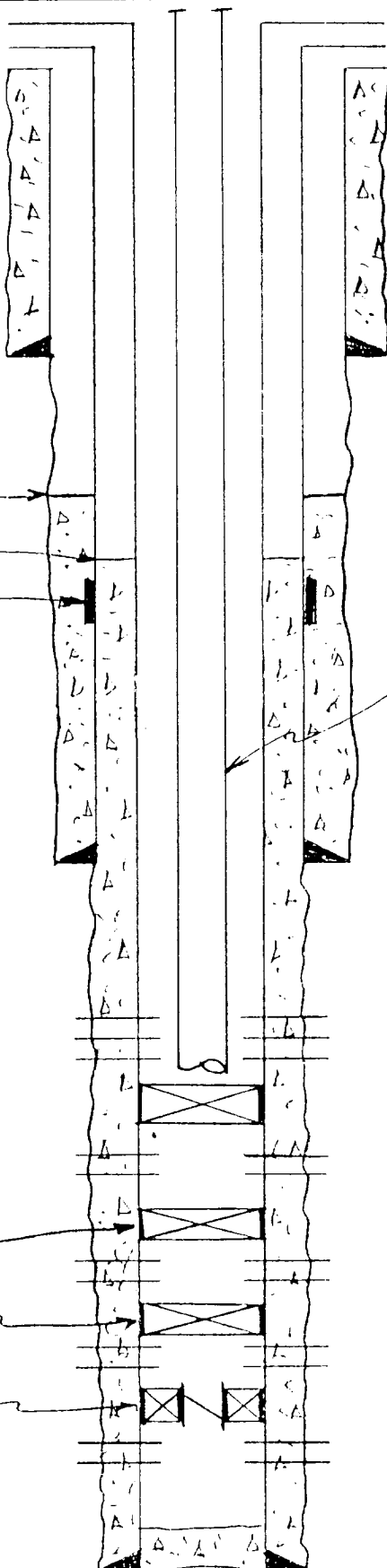
2-7/8" 6.5 # J-55 @  
± 5345'

Glorieta (5179-5293)

CIBP @ 5700'

Blindery (5795-5827)

PBTD = 5700'



## WELL COMPLETION SKETCH

UN-5036-4 A

WELL

New Mexico G State #1

FIELD

Oil Center 2

DATE

1-26-94

PRESENT COMPLETION



SUGGESTED COMPLETION

## PERMANENT WELL BORE DATA

Zero = KB = 16.2' AGL

13-3/8 54.5 # K-55 @  
1350' w/1425 SKS  
CIRC TO SURF

TOC @ 2400' —  
TOC @ 3694' TS —  
STG COLLAR @ 3838' —  
2<sup>nd</sup> STG w/1200 SKS

8-5/8" 244 32 # K-55 @  
4752' 1<sup>st</sup> STG w/  
175 SKS. PERF 4-WAY  
@ 4658' w/170 SKS

CTBP @ 5950' —  
Blinberry (6089-6357)  
CTBP @ 6655' —  
Drinkard (6692-6920)  
CMT RET @ 6920' w/85 SKS —  
Drinkard (6934-6996)  
5 1/2" 17 # N-80 @ 7030'  
w/800 SKS CMT

TD = 7030'

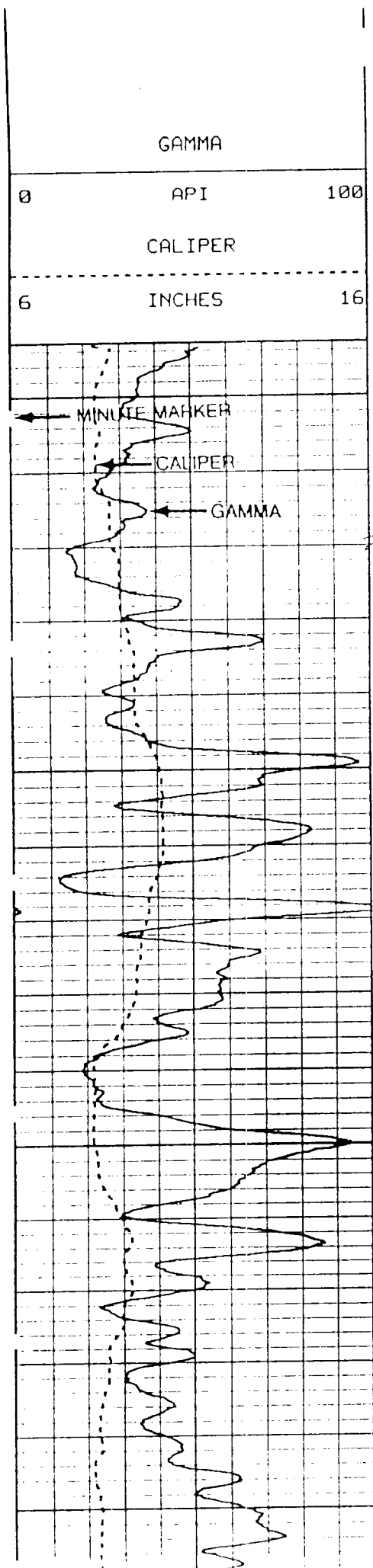
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2-7/8" 6.5 # J-55 @  
± 5850'

Glorieta (5179-5293)

Blinberry (5795-5827)

PBTD = 5950'



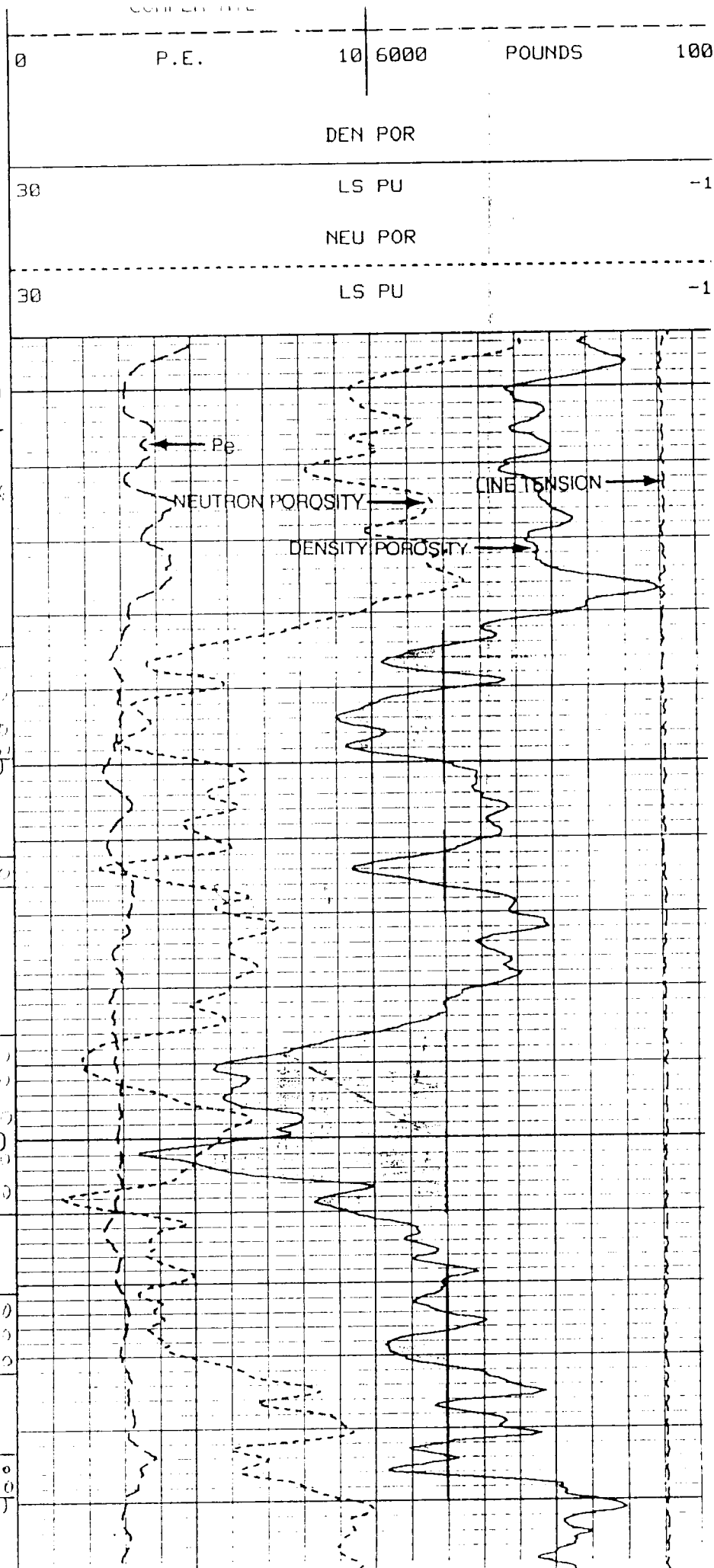
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*Gloria*

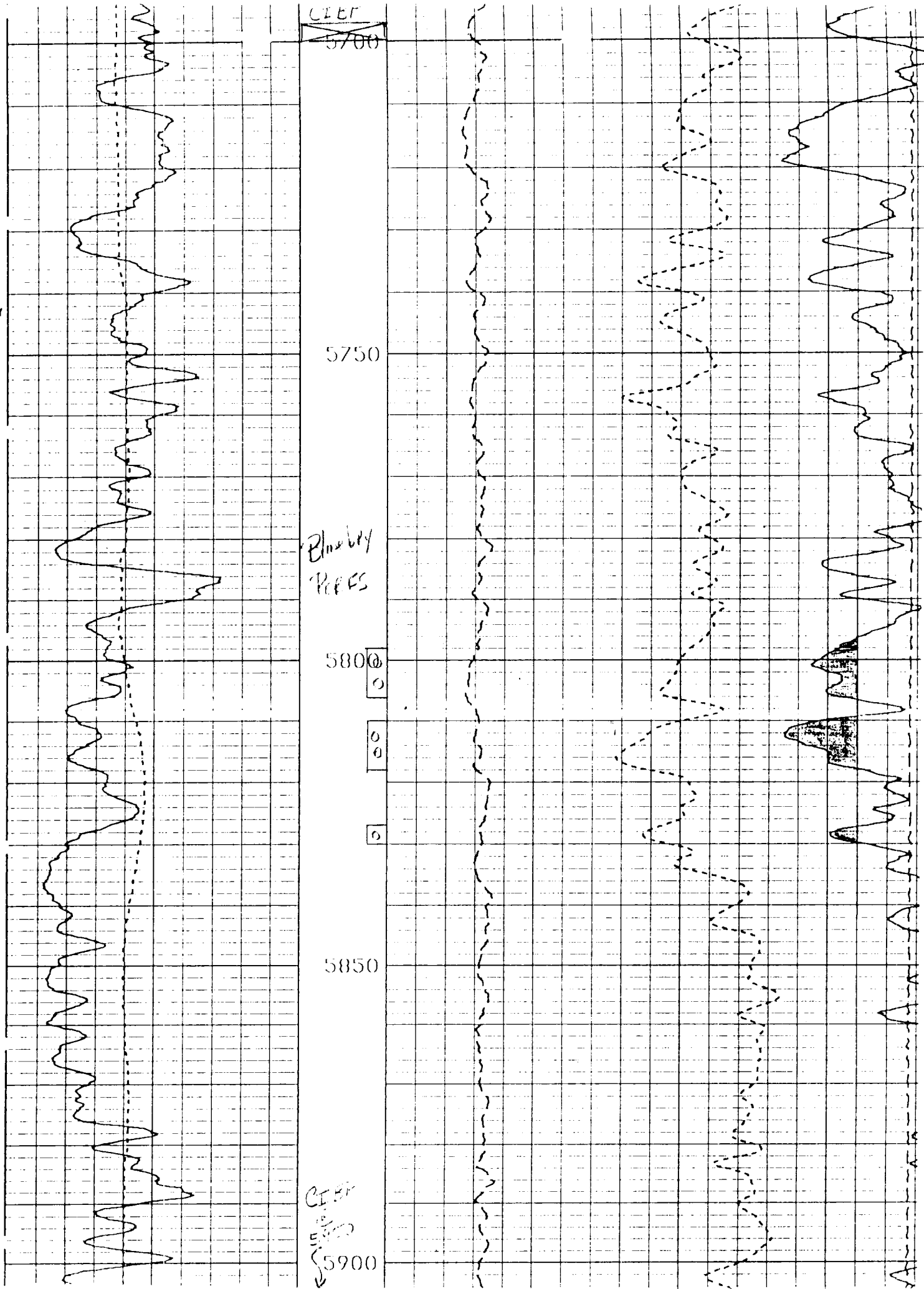
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5200

5250

5300

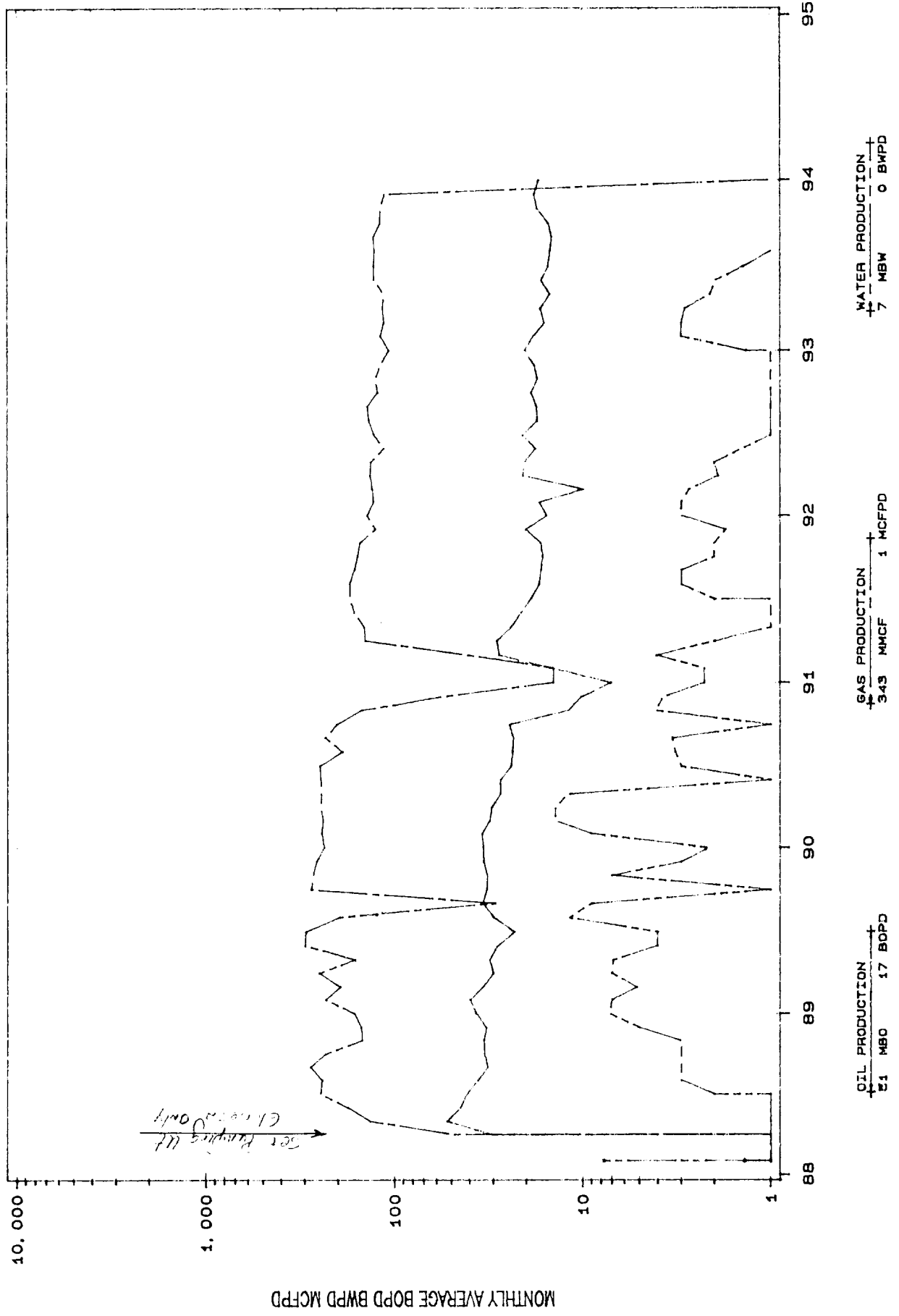




NEW MEXICO -G- STATE # 1  
OIL WELL --- GLORIETA

545596

1



1

