

OIL CONSERVATION DIVISION
RECEIVED

1994 FEB 21 AM 8 35



Oryx Energy Company
13155 Noel Road
Dallas TX 75240-5067
PO 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

Handy Blinebry

Re: Request to Downhole Commingle the
Upper Glorieta Formation & Upper Blinebry
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 Blinebry 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 Blinebry 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 Blinebry 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

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

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
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.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

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

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

Rod L. Bailey

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:

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 ORXX ENERGY COMPANY		Pod OIL CENTER GLORIETA		County LEA									
Address P.O. BOX 2880, DALLAS, TX 75221-2880		TYPE OF TEST - ()		Scheduled ☐ Special ☒									
LEASE NAME NEW MEXICO "G" STATE	WELL NO. 1	LOCATION U S T R		DATE OF TEST 02/17/94	SIZE OF TEST 24	CHOKE SIZE	TBQ. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	1	PROD. DURING TEST		GAS - OIL RATIO CU.FT/BBL.
		GAS M.C.F.									15 120		
ALLOCATION FACTOR FOR THE GLORIETA AND BLINBRY ZONES WILL BE ALLOCATED BY CALCULATING THE DIFFERENCE BETWEEN WHAT THE WELL PRODUCES JUST PRIOR TO ADDING THE BLINBRY ZONE AND WHAT THE WELL PRODUCES AFTER THE WORKOVER. (REMOVAL OF CIBP @ 5700) C-116 WILL BE SENT AFTER THE BLINBRY 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 line 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.

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 1600
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' PBDT - 5700'

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

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

INTERMEDIATE - 8-5/8", 24 & 32#, K-55, ST&C CSG.
CS $\pm$ 4752', FC $\pm$ 4661', SC $\pm$ 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 $\pm$ 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 $\pm$ 7030', FC $\pm$ 6983', SJ 6637-6650'. CMTD W/
800 SX "C". DID NOT CIRC. TOC $\pm$ 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 PBDT OF $\pm$ 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 4200,
MP 2200, ISIP 2900, 15 MIN SIP 2520. AIR 6.4 BPM.
SWABBED WTR & GAS W/ TR OIL. SET CMT RET @ $\pm$ 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
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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 POST 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 @ $\pm 6655'$ 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 $\pm 5931'$. 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 CO₂ 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 @ $\pm 5700'$.

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 $\pm 5345'$, SN $\pm 5307'$. 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. POTENTIAL TEST.

DATE: January 27, 1994

WELL NAME: NEW MEXICO G STATE #1

FIELD: OIL 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

FIELD

OIL Center

DATE _____

1-26-94

☒

SUGGESTED COMPLETION

DATA ON THIS COMPLETION

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 SXS. PERF 4-WAY
@ 4658' w/ 170 SXS

CTBP @ 5950'

Blinberry (6089-6357)

CIBP @ 6655'

Drink ARD (6692-6920)

CMT Ret @ 4920' w/85 SKS

Drinkable (6934-6996)

5 1/2" 17# N80 @ 7030'
W/800 SKS CMT

$$TD = 7030'$$

2-7/8" 6.5 # J-55 @
± 5345'

GloietA (5179-5293)

CIBP @ 5700'

Blinebury (5795-5827)

$$PBT\Delta = 5700'$$

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

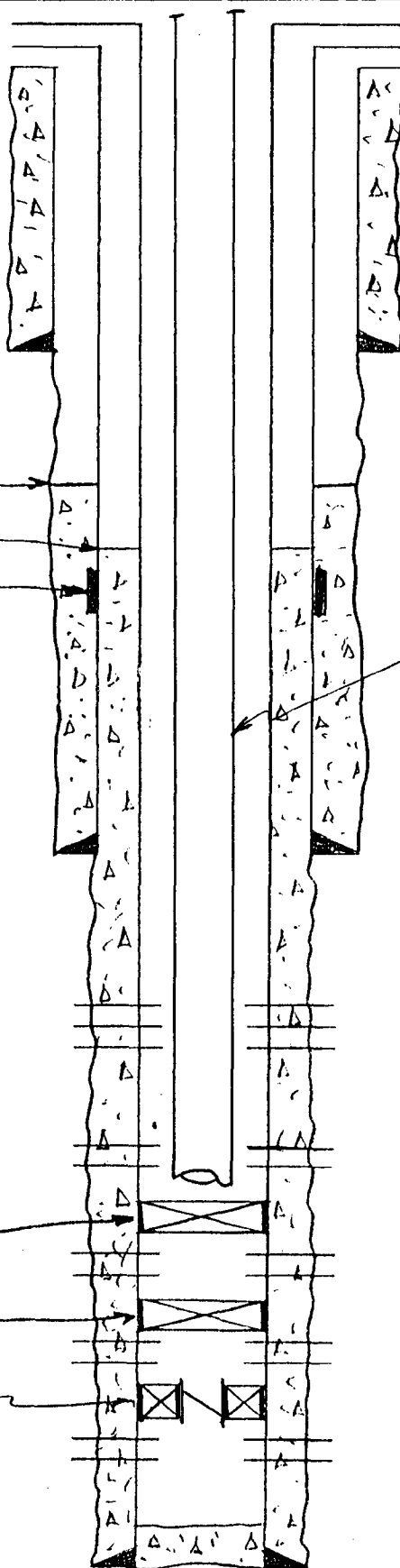
TOC @ 2400' —
TOC @ 3694' TS —
STG COLLAR @ 3838' —
2nd STG w/1200 SKS

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

CTBP @ 5950' —
Blinberry (6089-6357)
CTBP @ 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



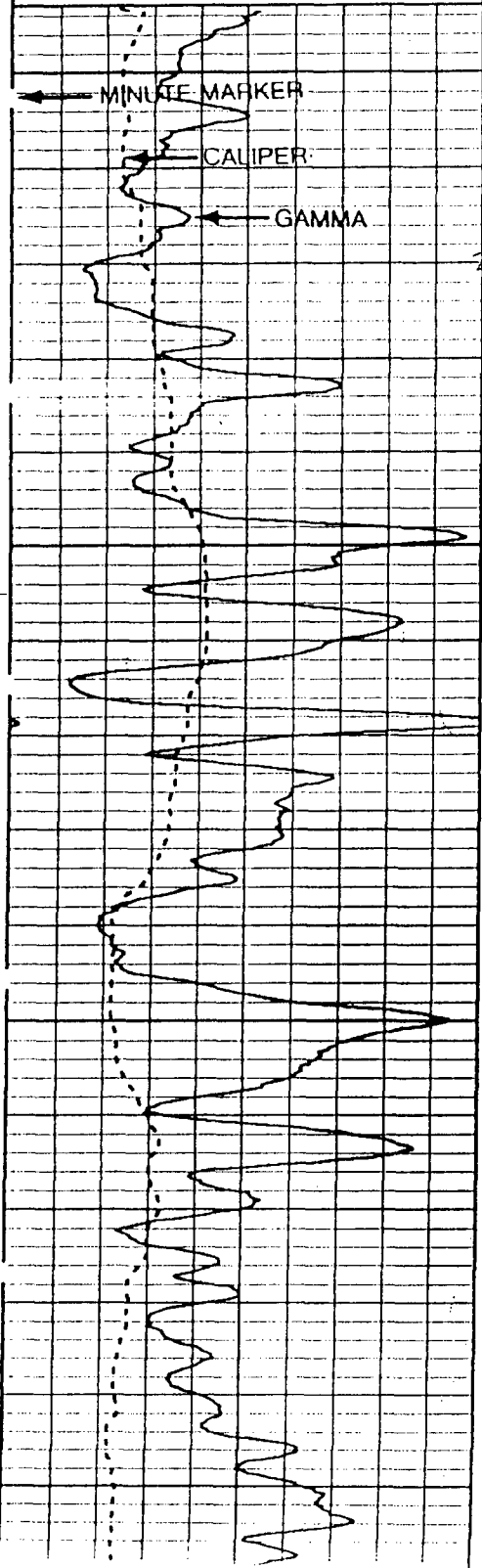
2-7/8" 6.5# J-55 @
± 5850'

Glorieta (5179-5293)

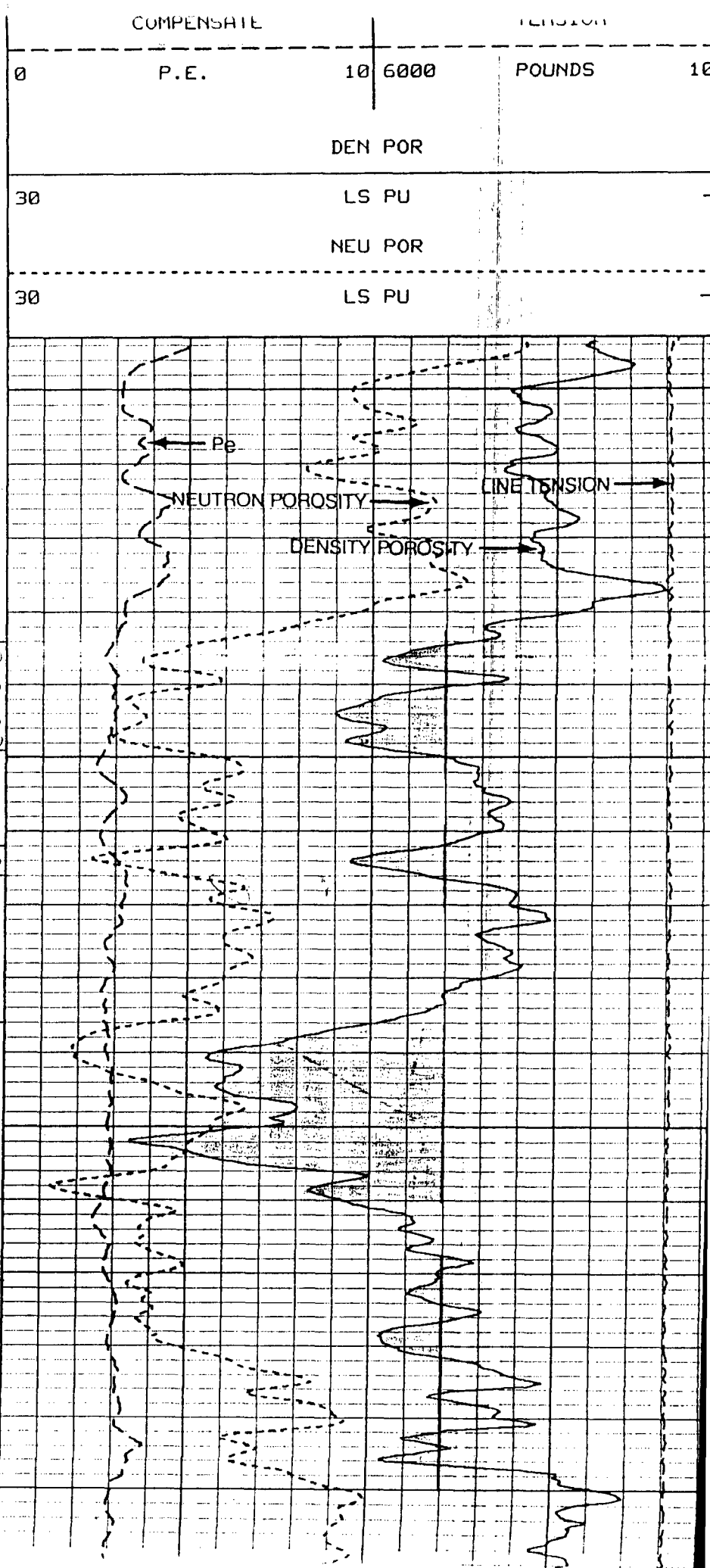
Blinberry (5795-5827)

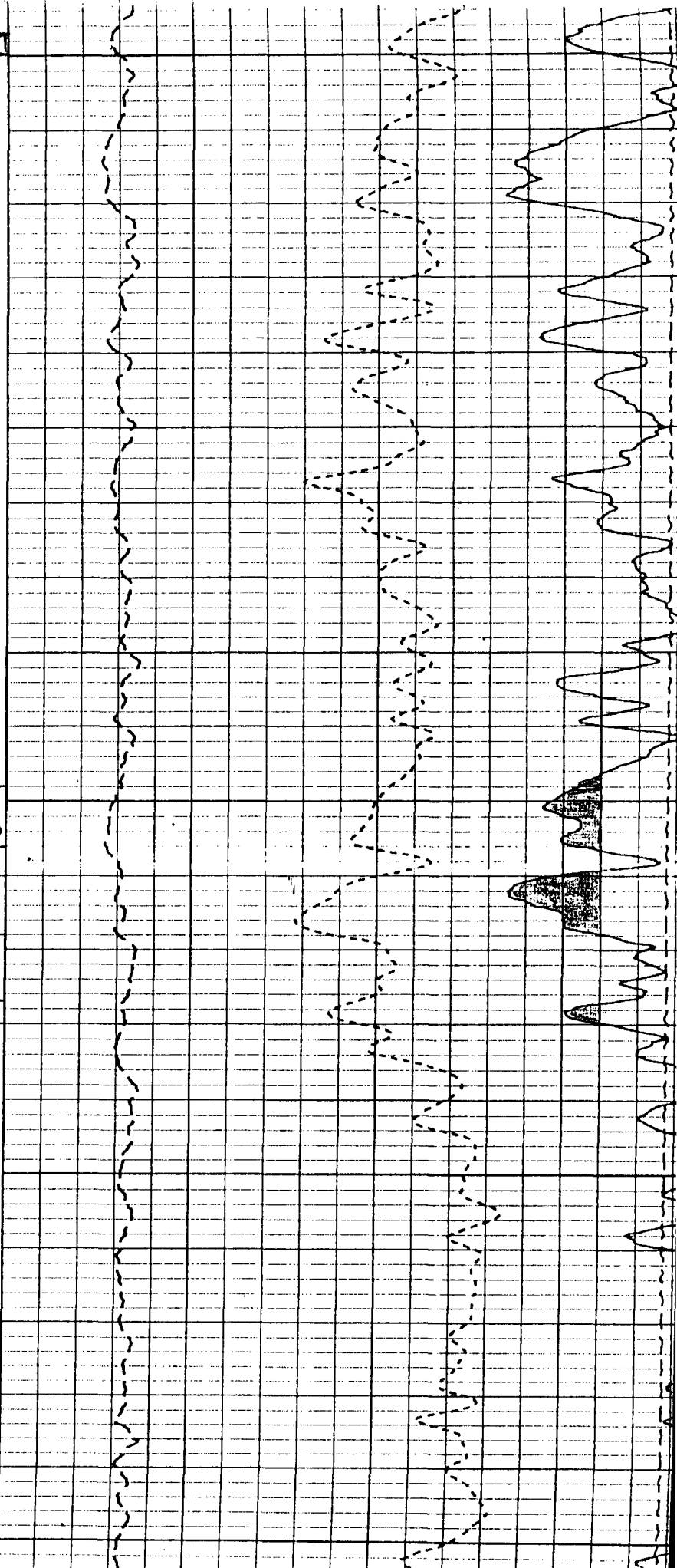
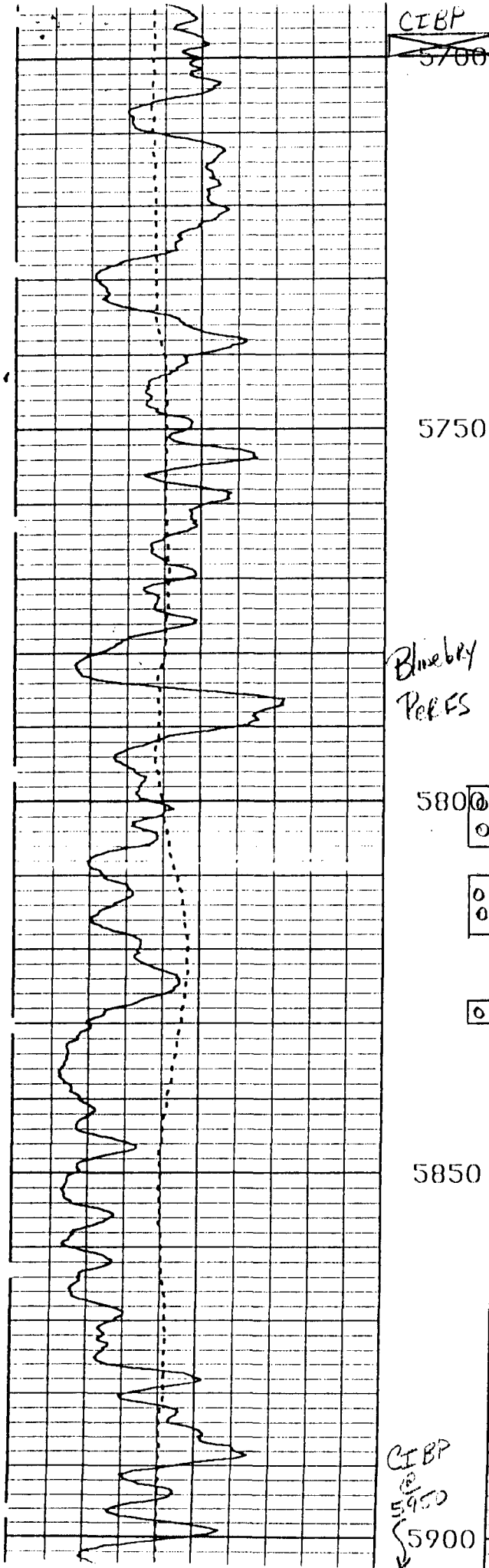
PBTD = 5950'

GAMMA		
0	API	100
CALIPER		
6	INCHES	16



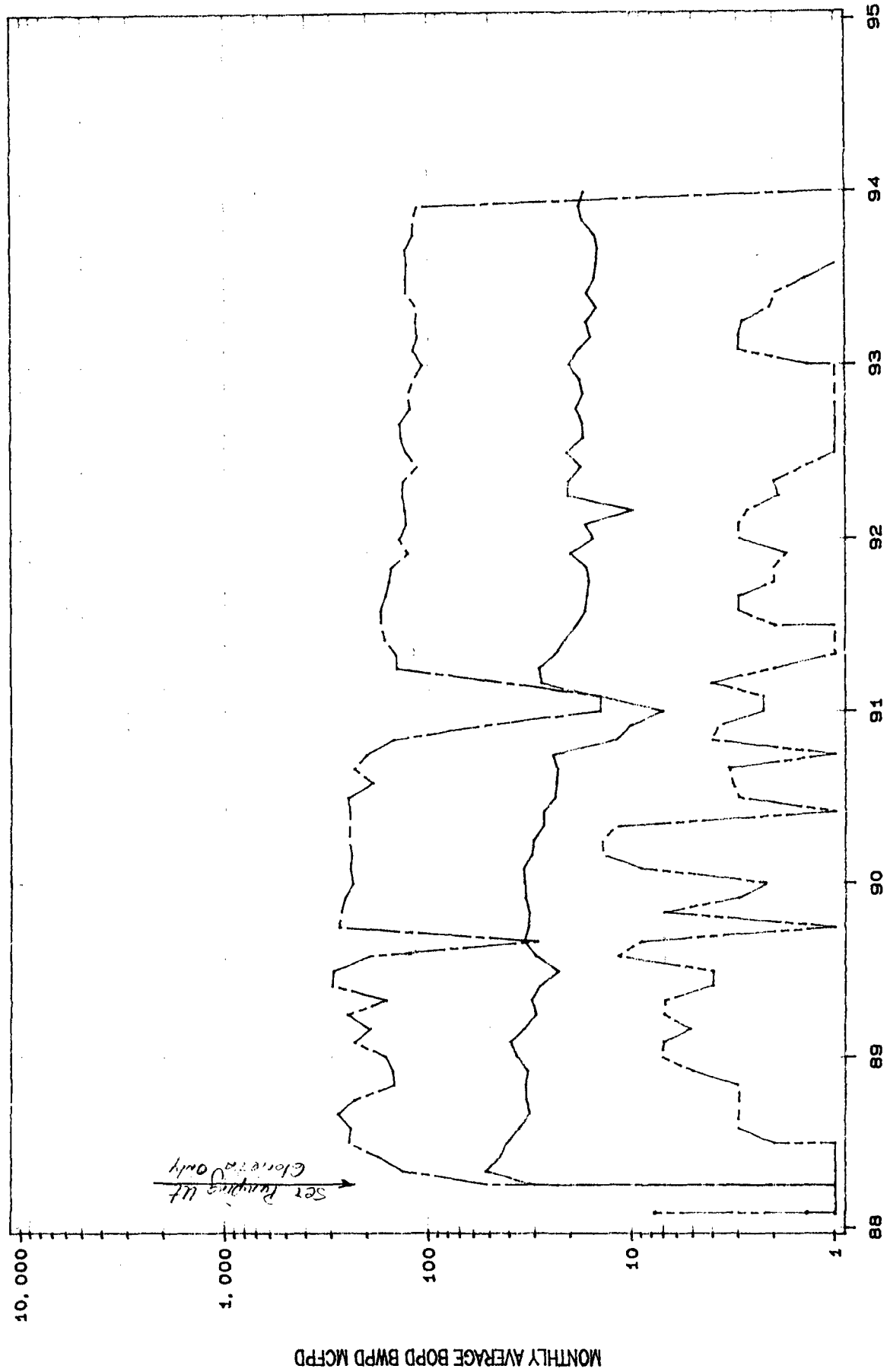
5150
Current
Glorieta



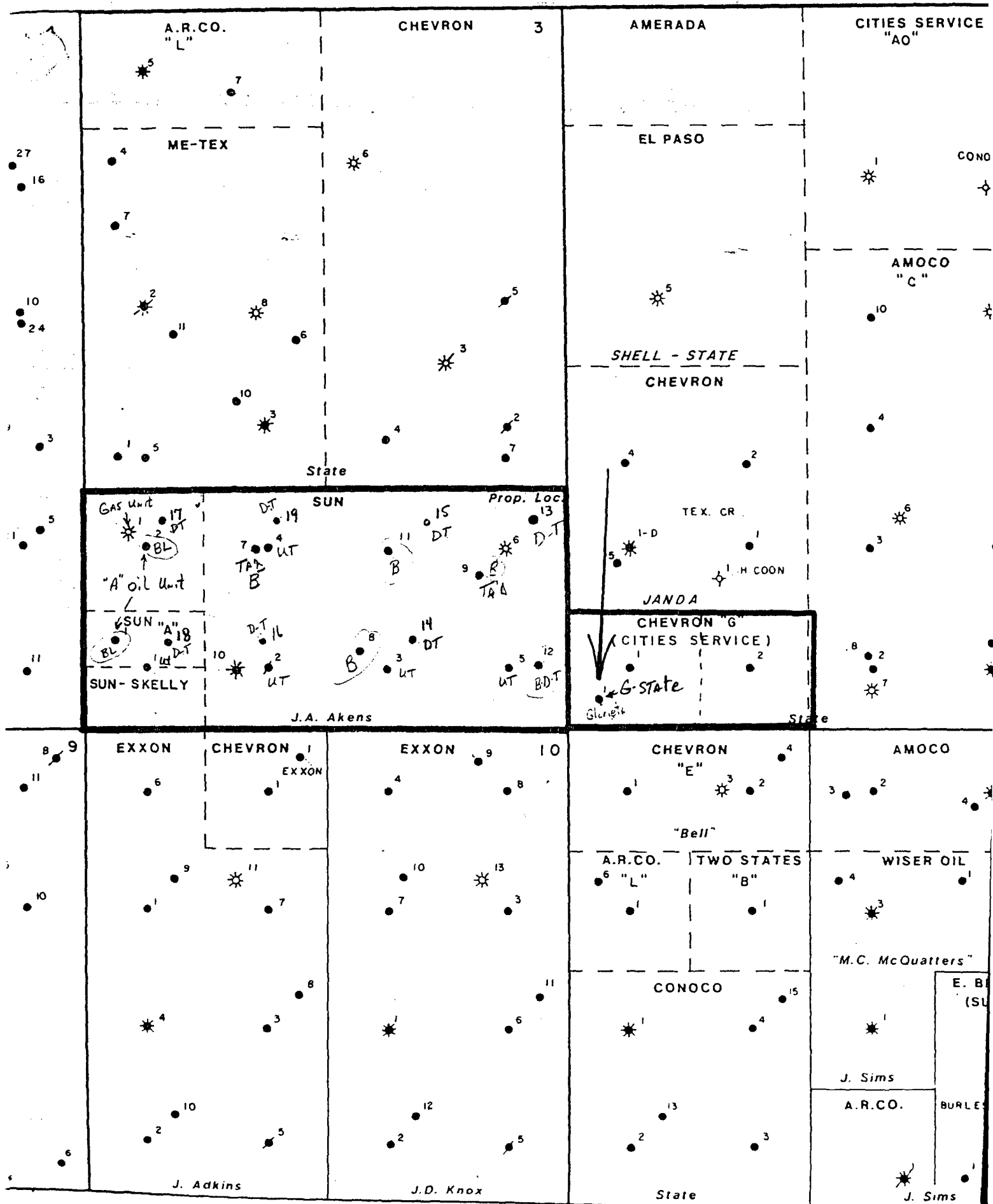


545596

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



OIL PRODUCTION 51 MBW 17 BOPD
GAS PRODUCTION 343 MMCF 1 MCFPD
WATER PRODUCTION 7 MBW 0 BWPD





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

RECEIVED

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

94 FEB 25 PM 8 39

2-23-94

BRUCE KING
GOVERNOR

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

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

RE: Proposed:

MC _____
DHC X _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX _____

DHC-996

Gentlemen:

I have examined the application for the:

Dryx Energy Co New Mexico G 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