



Chevron U.S.A. Inc.
P.O. Box 670, Hobbs, NM 88240

R. C. Anderson
Division Manager
Production Department
Hobbs Division

OIL CONSERVATION DIVISION
RECEIVED

'90 AUG 13 AM 9 08

August 9, 1990

APPLICATION TO DOWNHOLE COMMINGLE
CHEVRON'S J. F. JANDA (NCT-D) NO. 4
SECTION 2-T21S-R36E
LEA COUNTY, NEW MEXICO

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Gentlemen:

Pursuant to the provisions of Statewide Rule 303-C, Chevron U.S.A. Inc. respectfully requests administrative approval to commingle production within the wellbore from the Oil Center Glorieta and Hardy Tubb-Drinkard pools of the subject well. A recent workover was performed on the well, adding Tubb-Drinkard pay to the formerly single Glorieta producer. Post-job performance indicated lower rates than expected from the Tubb-Drinkard, making a dual completion uneconomical. In addition, the production from the Glorieta is still economical, resulting in the recommendation to commingle.

Fluids from the two zones are presently commingled at the surface in a common battery, with no signs of incompatibility. Bottom-hole pressures are estimated to be within 400 psi and the producing fluid level is consistently at the seating nipple, approximately 1400 feet below the lowerpressured Glorieta perfs. Based on these conditions, we propose to downhole commingle the Glorieta and Tubb-Drinkard.

Enclosed is pertinent data supporting this application as outlined in Rule No. 303-C. If additional information is necessary, please contact Dennis L. Hendrix or Al W. Bohling at (505) 393-4121.

Yours very truly,

R. C. Anderson

R. C. ANDERSON

DLH/sad 08090/03

Attachments

cc: OCD-Hobbs

1. Operator: Chevron U.S.A., Inc., P. O. Box 670, Hobbs, NM 88240
2. Lease, Well, and Location: J.F. Janda (NCT-D) No. 4, 2970' FSL and 660' FWL of Section 2-T21S-R36E, Lea County, N.M.
3. Producing Zones: Glorieta and Hardy Tubb-Drinkard
4. Decline Curve: The Glorieta is expected to decline at 5% per year after an IP of 3 BOPD with 15 MCFGPD. The Tubb-Drinkard is expected to decline at 30% per year after an IP of 3 BOPD with 120 MCFGPD.
5. Bottom Hole Pressure: Glorieta BHP has been estimated at 350 psi at a depth of 5270'. The Tubb-Drinkard BHP has been estimated at 750 psi. Both measurements were calculated from a "combined" buildup test.
6. Fluid Characteristics: The Glorieta and Tubb-Drinkard are presently surface commingled at the Janda 'D' battery. There has been no evidence of fluid incompatibility to date.
7. Well History: Attached with wellbore schematic.
8. Value of Commingled Fluids: The subject fluids and gases are surface commingled and are handled under the same purchaser; therefore, downhole commingling will not affect the price.
9. Current Production: The Glorieta was last tested on 3/10/90, at which time it was producing 3 BOPD, 10 BWPD, and 15 MCFGPD. The Tubb-Drinkard has been temporarily commingled with the Glorieta, but is estimated producing at 3 BOPD, 65 BWPD, and 120 MCFGPD.
10. Recommended Oil and Gas Allocation: Based on expected IP's.

<u>Glorieta</u>		<u>Tubb-Drinkard</u>
50%	OIL	50%
11%	GAS	89%
11. Ownership and Royalty Interests: Ownership of the two pools is common and correlative rights will not be violated.
12. Future Secondary Recovery Operations: Commingling will not jeopardize the efficiency of future secondary recovery operations.
13. Production Methods: The commingled production will be rod-pumped. The fluid level will be monitored to maintain a pumped off condition and eliminate the possibility of crossflow between reservoirs.
14. Copies of this application have been furnished to all offset operators by certified mail.

OFFSET OPERATORS

Rasmussen, Inc.
310 W. Texas - Bldg. of the Southwest
Midland, TX 79701

Oryx Energy
P. O. Box 1861
Midland, TX 79702-1861

Texas Crude
P. O. Box 122389
Ft. Worth, TX 76121-2389

Shell Western E&P
P. O. Box 576
Houston, TX 77001

Amoco Production Co.
P. O. Box 3092
Houston, TX 77253

Certified Mail - Return Receipt Requested

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

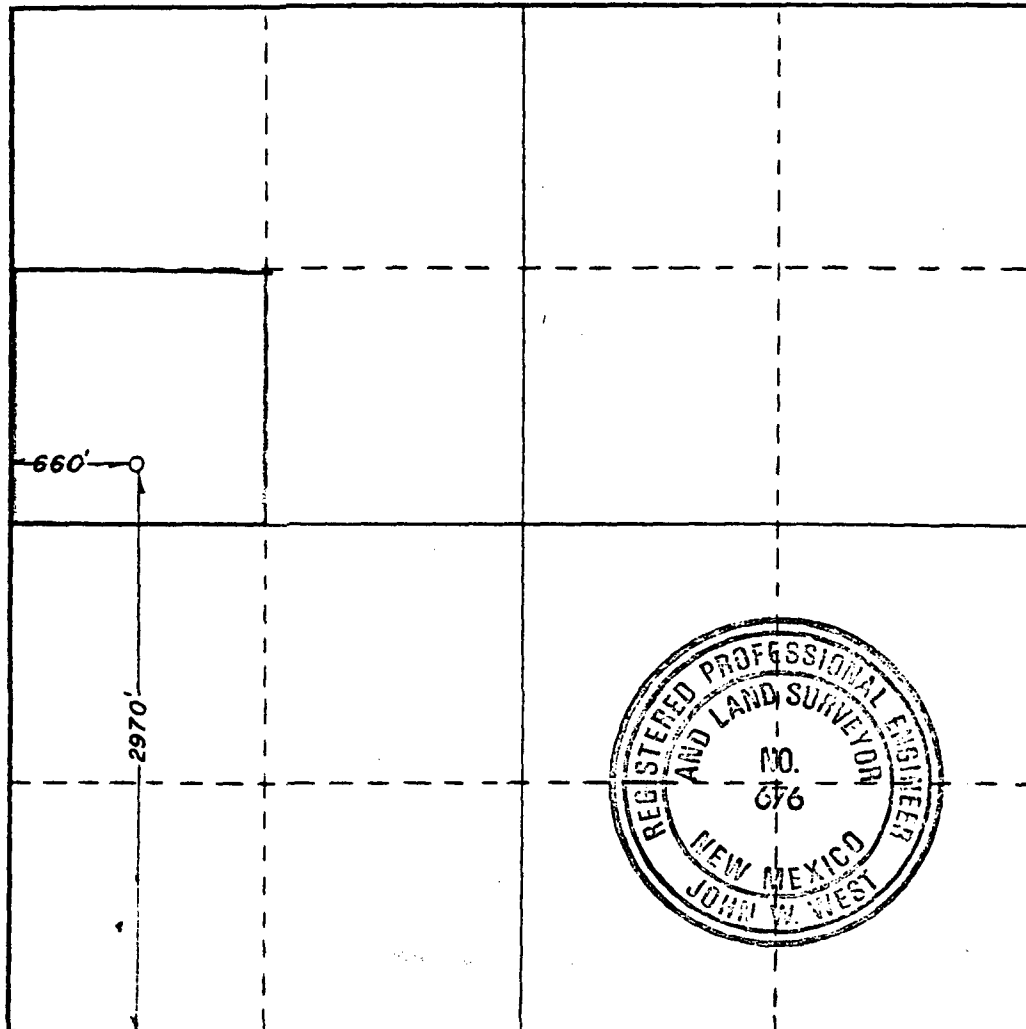
Operator: GULF OIL CORP.		Lease J.F. JANDA NCT-D		Well No. 4
Unit Letter A	Section 2	Township 21 SOUTH	Range 36 EAST	County LEA
Actual Footage Location of Well: 2970 feet from the SOUTH line and 660 feet from the WEST line				
Ground Level Elev. 3521.3'	Producing Formation Glorieta	Pool Oil Center Morieta	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

R.D. Pitre

Name

R.D. PITRE

Position

AREA ENGINEER

Company

GULF OIL CORP

Date

8-15-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

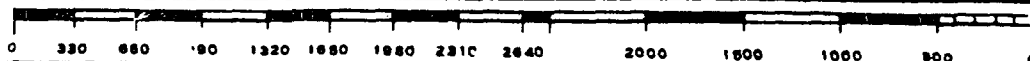
3-28-'84

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**

RONALD J. EIDSON, 3239



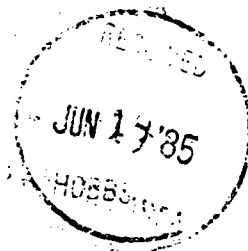


THE PERMIAN CORPORATION

1509 W. WALL P. O. BOX 3119
MIDLAND, TEXAS 79702

915-683-4711

June 18, 1985



Mr. R. C. Anderson
Gulf Oil Corporation
P.O. Box 670
Hobbs, New Mexico 88240

RE: Gulf Oil Corporation operated
J.F. Janda NCT-D Lease
Lea County, New Mexico

Dear Bob:

Jim Baker in Gulf's Midland office has informed Permian that oil from the Hardy (Tubb & Drinkard), Eunice Monument (Grayburg-San Andres) and Oil Center (Glorieta) are being commingled on the above captioned lease. Please note your records that Permian will continue to purchase oil from all of these formations under Permian Lease No. 563031. Should you have any questions, please advise.

Yours very truly,

THE PERMIAN CORPORATION
Steve Whiteside
Steve Whiteside

SW/lh

cc: Jim Baker
Gulf Oil Products
P.O. Box 1150
Midland, Texas 79702

Gulf Gas Tied In By Phillips Pet to their (LP) gathering line.

Field or Pool Oil Center Glanita

Lease	Well No.	Station No.	Date Meter In Service	Date of Initial Delivery	Unit Sec. Tn. Rge.	County
J.F. JANDA NCT-D	4	45064		7-26-84	M-2-21S-36E	Lea

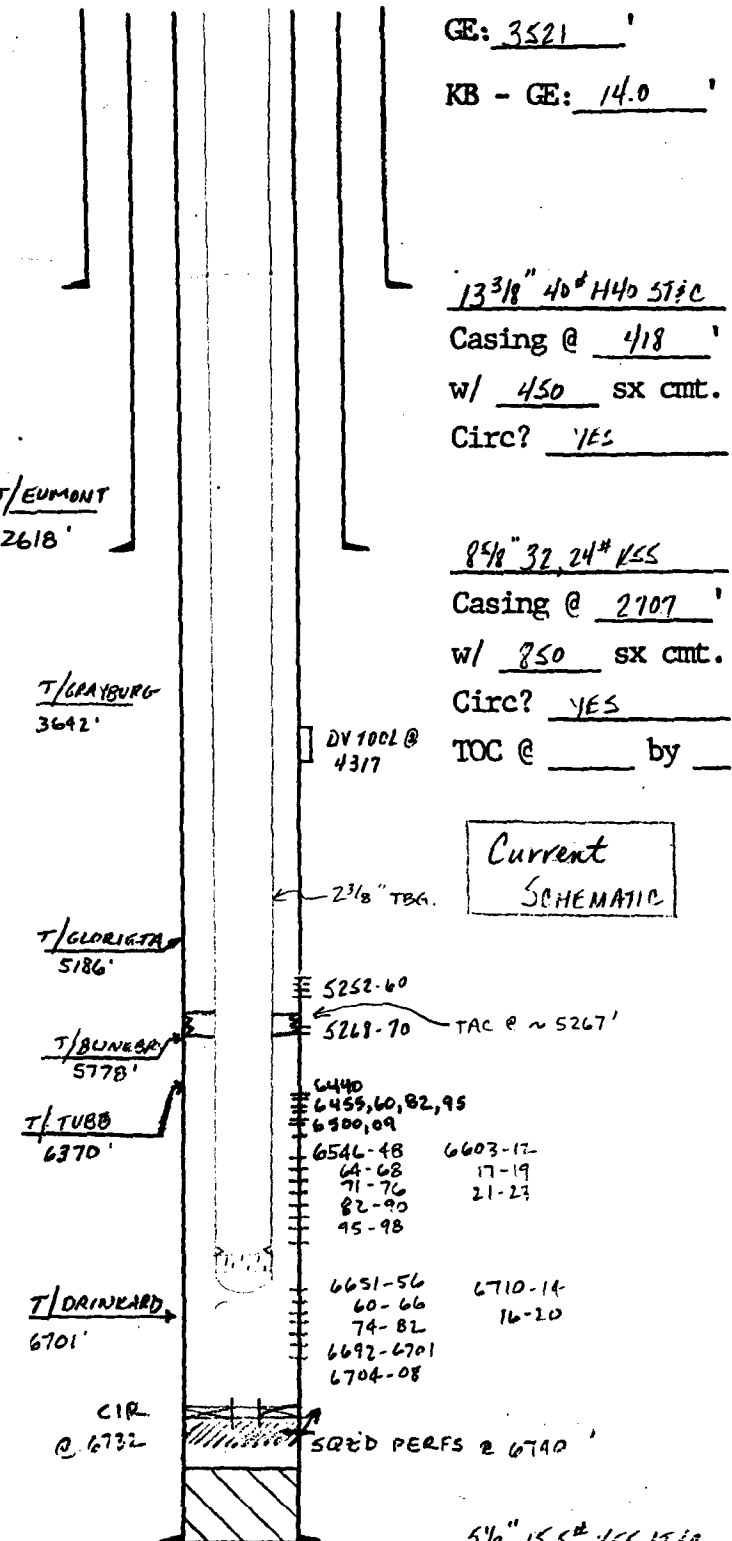
New well connect
to existing BATTERY

Ben Mott - Midland (send to Patti for remailing)
C. W. Hassen
J. K. Ripley (2)
Hobbs Area File
Betty Kemper
Well Tester's File

A complete explanation of any change in status or disposition of a well from completion to plug and abandon, inclusive, is needed.

WELL DATA SHEET

LEASE: J.F. JANDA (NCT-D) WELL NO.: 4 FIELD: HARDY TUBB-DRINKARD
 LOCATION: 2970 FEET FROM S LINE, 660 FEET FROM W LINE. CHEVRON W.I.: 100 %
 SECTION: 2 TOWNSHIP: 21S RANGE: 36E UNIT: M, COUNTY: LFA STATE: NM



5 1/2" 15.5# KSS LTIC
 Casing @ 6793
 w/ 1700 sx cmt.
 Circ? YES
 TOC @ by

Initial Completion Data:

Date: 8/1/84

LOST FLUID TO HOLE FROM 4692-6794

PERF 5252-60, 5268-70 w/ 2 SPK (GLORIA)

SPK 250 GAL 15% NEFE HX ACROSS PERFS.

DISPLACE ACID INTO PERFS. 1-2 BPM @ 2000-2400 PSI

ACQ PERFS w/ 4000 GAL 15% NEFE w/ 21 BALL SEALERS.

SWABBED AND FLOWED FOR APPROX 1 WEEK. 36 80 + 218 BW PWD

Initial Prod/Inj: P 42 BW + 143 BW + 146 MCF

Subsequent Operations:

SEP 1988 - TBA PARTED. FISHED ALL BUT 25' MUD ANCHOR. W/ BPOB AND STANDING VALVE.

MAR 1990 - Cleaned out to PSTD. Perf'd Sancee holes @ 6735 + 6440', but CN pump into. Perf. w/ 4" csj. guns, 1 SPK: 6440-6720' (TUBB-DRKD). Acq. w/ 7225 gals. 20% McF₂HCl w/ 300 1.1 SG ball sealers. ISIP = 2280 psi. 15 min = 1640 psi. Swabbed. FRAC new perfs w/ 85,122 GALS. 40# gelled wtr. w/ 257,171 lbs. 12/20 Ottawa sd. 25 BPM @ 5500 psi. ISIP = 3916. 15 min SIP = 3745 psi. Flowed well back. clo sand to 6730'. Tube well up to pump.

4-90 - Tag for fill. Land H₂ @ 6634'. Well ppg. 2 BOPD, 85 BWPD, 175 MCFPD. FLE S.N.

Remarks or Additional Data:

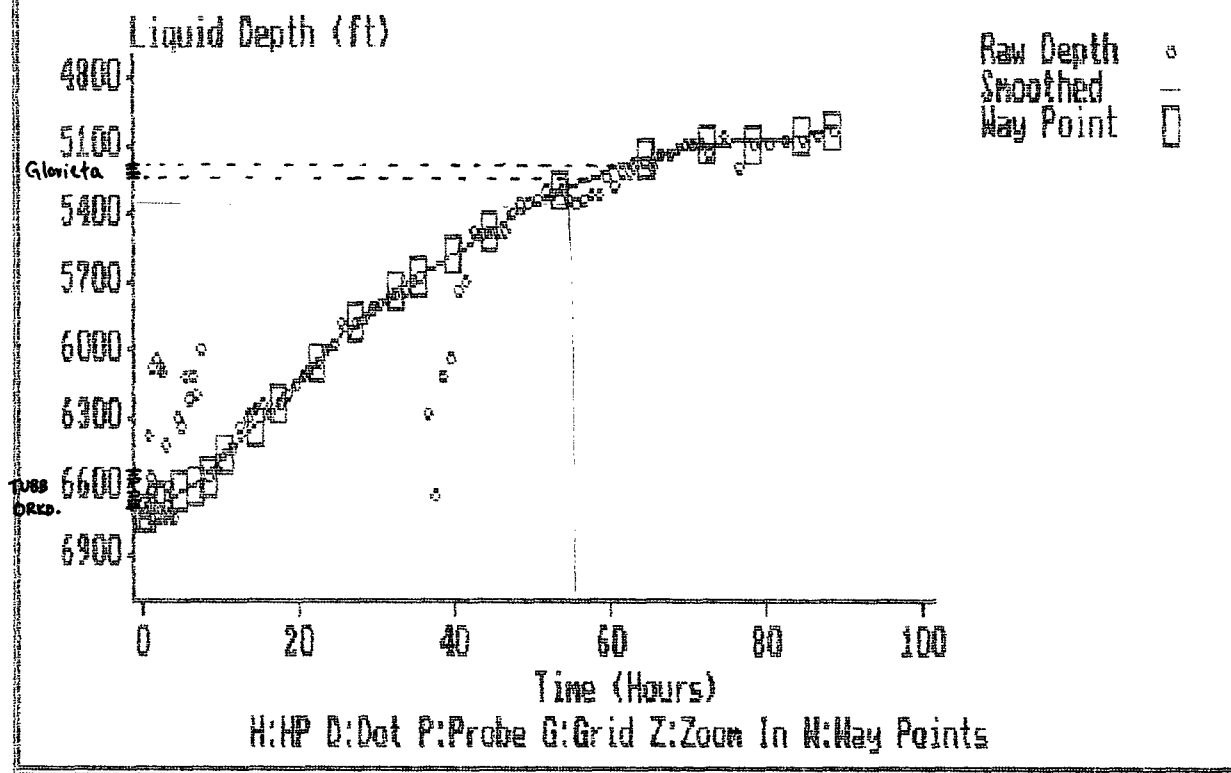
TBA DETAIL:

ROD DETAIL:

171 X'S 2 3/8" JSS TBG	1 1/4" x 16' PR
BAVIE TAC	2 - 7/8" x 2' RODS
41 JG. TBA	2 - 7/8" x 4' RODS
SN	98 - 7/8" x 25' D RODS
PERF SUB	173 - 3/4" x 25' D RODS
MA W/ BPOB	1 - 3/4" x 2' PWD
	2" x 1 1/2" x 16' PUMP
	1" x 6" ANCHOR

Present Prod/Inj: 6-75-135 (OWC)Last Update: 7-90 DLNPBD: 6748TD: 6794

Oil Center New Mexico J.F. Janda(N)
Liquid Depth



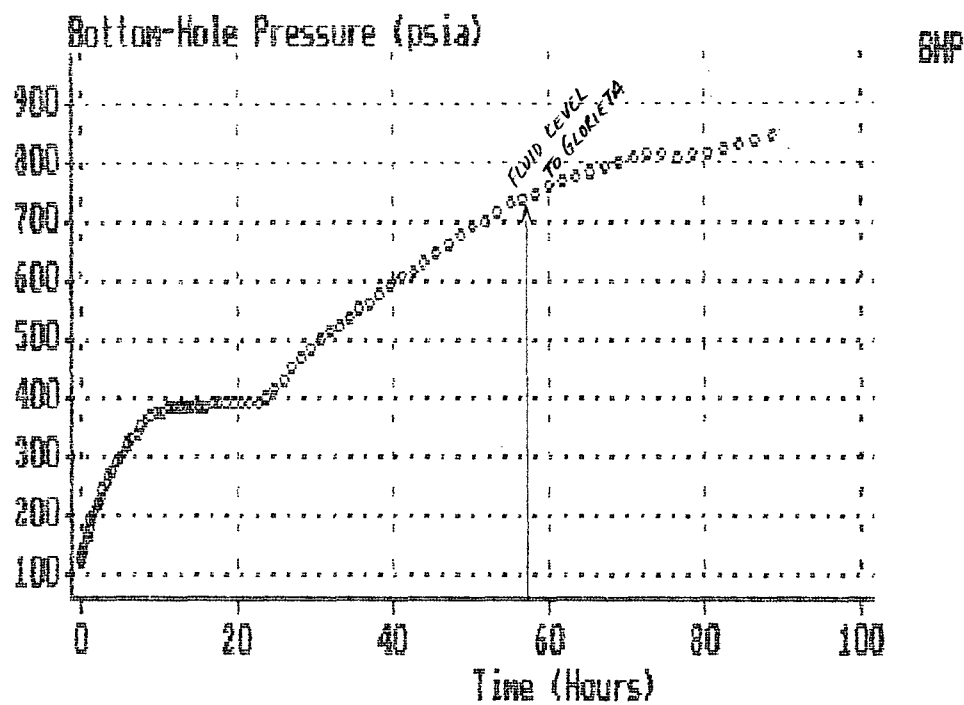
PLOT 1

FLUID LEVEL

VS.

TIME

Oil Center New Mexico J.F. Janda(N
BHP



H:MP D:Dot P:Probe G:Grid Z:Zoom In

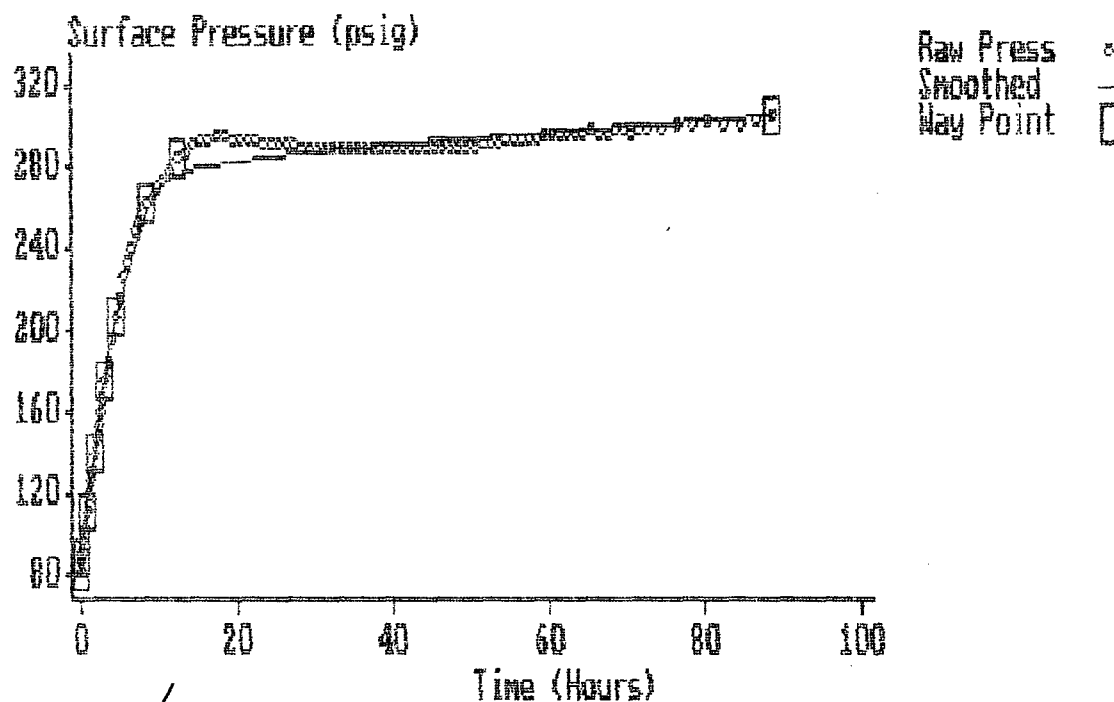
PLOT 2

BHP

VS.

TIME

Oil Center New Mexico J.F. Janda(N
Surface Pressure



H:HP D:Dot P:Probe G:Grid Z:Zoom In W:Way Points

PLOT 3

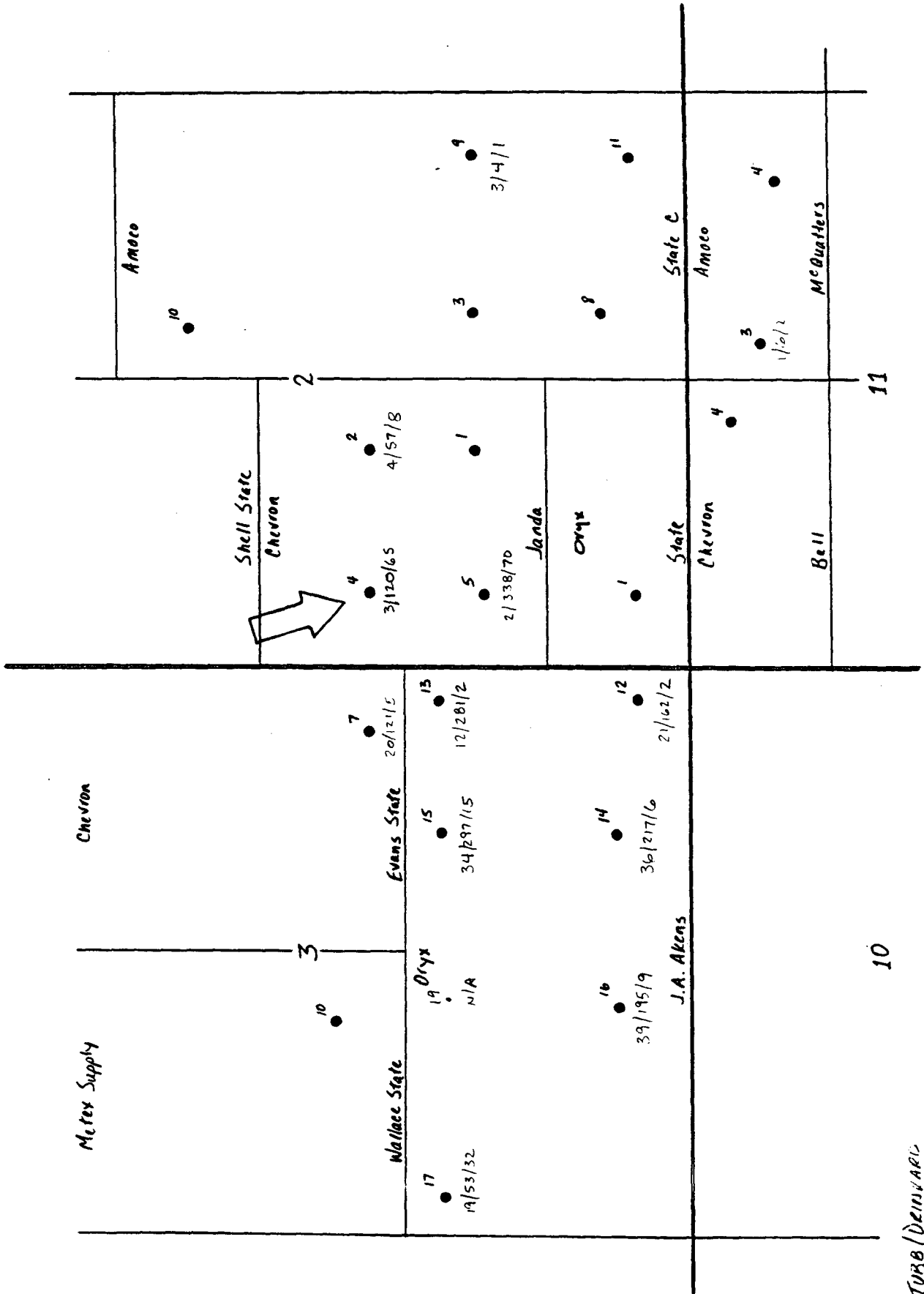
SURFACE PRESSURE

VS.

TIME



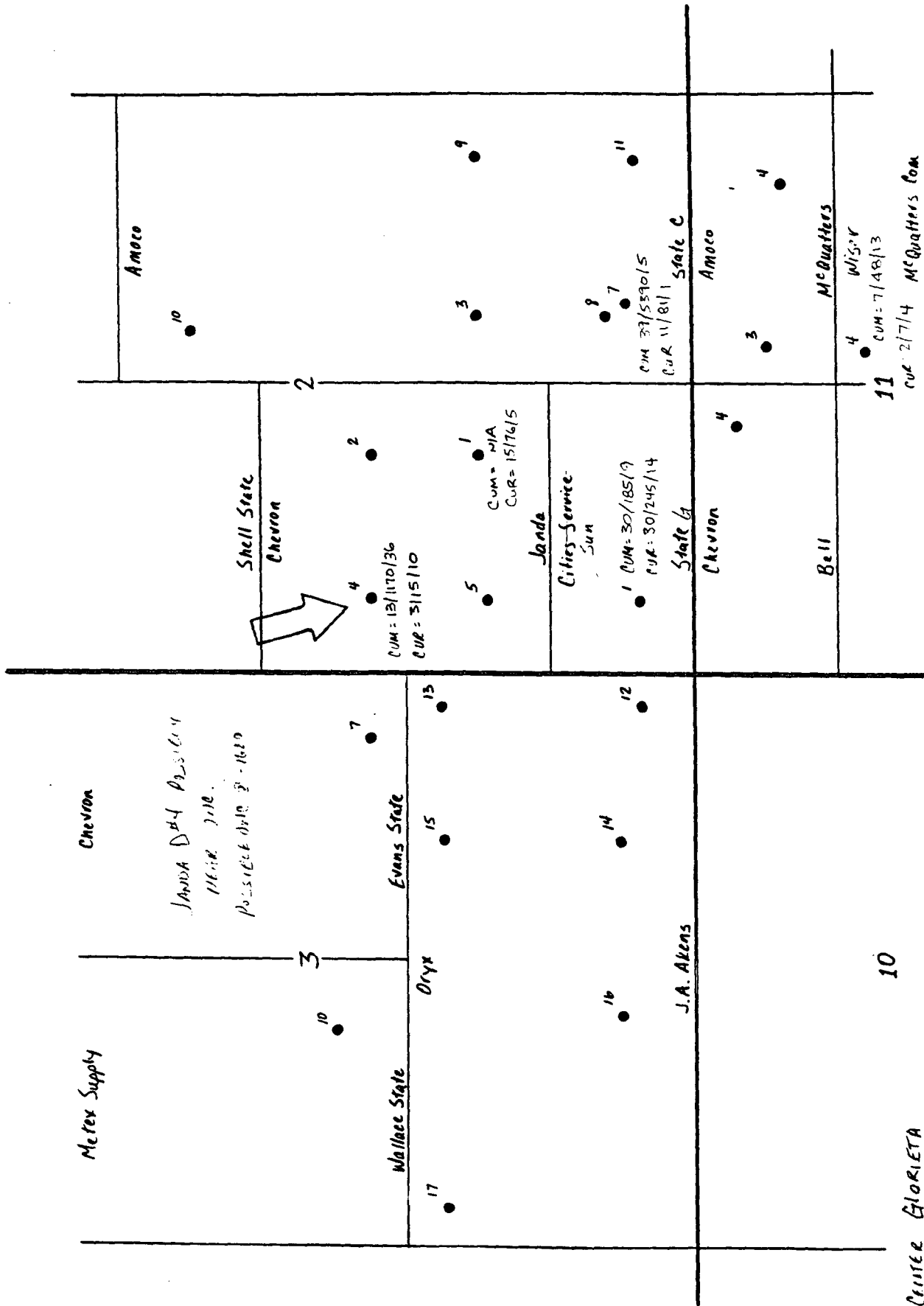
Hardy Field



T215-R36E

CURRENT PRODUCTION - JULY 1990

BORE/MOED/BWED



1215-R36E





OIL CONSERVATION DIVISION STATE OF NEW MEXICO

RECEIVED
ENERGY AND MINERALS DEPARTMENT

'90 AUG 20 AM 9 46
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

8-10-90

GARREY CARRUTHERS
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 _____

Gentlemen:

I have examined the application for the:

Chevron USA Inc. J.F. Janda NCT-D #4-M 2-21-36
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