



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

4-29-88

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

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

DHC - R-8929

RE: Proposed:

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

Gentlemen:

I have examined the application for the:

Mobil Prod. TX & NM Inc. Brunson area #6E 10-22-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Blaineby is gas (No RECOMMENDATION)
DIVISION POLICY SHOULD BE ESTABLISHED

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

Mobil Exploration & Producing U.S. Inc.

April 27, 1988

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Sante Fe, New Mexico 87501

Attention: Mr. William J. LeMay

EXCEPTION TO RULE 303(A)
BRUNSON-ARGO LEASE
WELL NO. 6
BLINEBRY & DRINKARD POOLS
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as agent for Mobil Producing Texas & New Mexico, Inc., (MPTM), requests administrative approval to downhole commingle oil production from the Blinebry and Drinkard Pools for the subject well, located in Unit E, Section 10, T-2-S, R-37-E, Lea County, New Mexico.

The well is currently dual completed and flowing from both zones. Due to the five-inch casing we are unable to pump each zone separately with a pump. By commingling both zones downhole and placing the well on pump, it is estimated that production can be increased by 4 BOPD and 200 MCFPD, due to the reduced back pressure on the producing zones caused by pumping. Without downhole commingling, the Drinkard zone will be abandoned.

The subject well meets all prerequisites for commingling as set out in Rule 303(c). The ownership of these zones is common. Both zones produce an intermediate sweet type crude and no problem from the formation of untreatable precipitates in any commingled produced water is expected. No crossflow is anticipated since the common pump will keep fluid levels low. Allocation of production will be submitted with potential test.

In support of this application, the following is submitted:

1. Plat showing offset operators;
2. Form C-116 for both zones;
3. Production decline curves;
4. Well History data;

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(4)

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5. Bottom-hole pressure data;
6. Computation of relative values of hydrocarbons;
7. Data sheet;
8. Present and proposed well sketches;
9. List of Offset Operators.

All offset operators have been notified of this request by copy of this application.

In conclusion, MPTM believes that approval of this application will result in more efficient recovery of hydrocarbons and will extend the productive life of both zones, thereby preventing waste. If any further information is needed, please call (915) 688-1776.

Yours very truly,



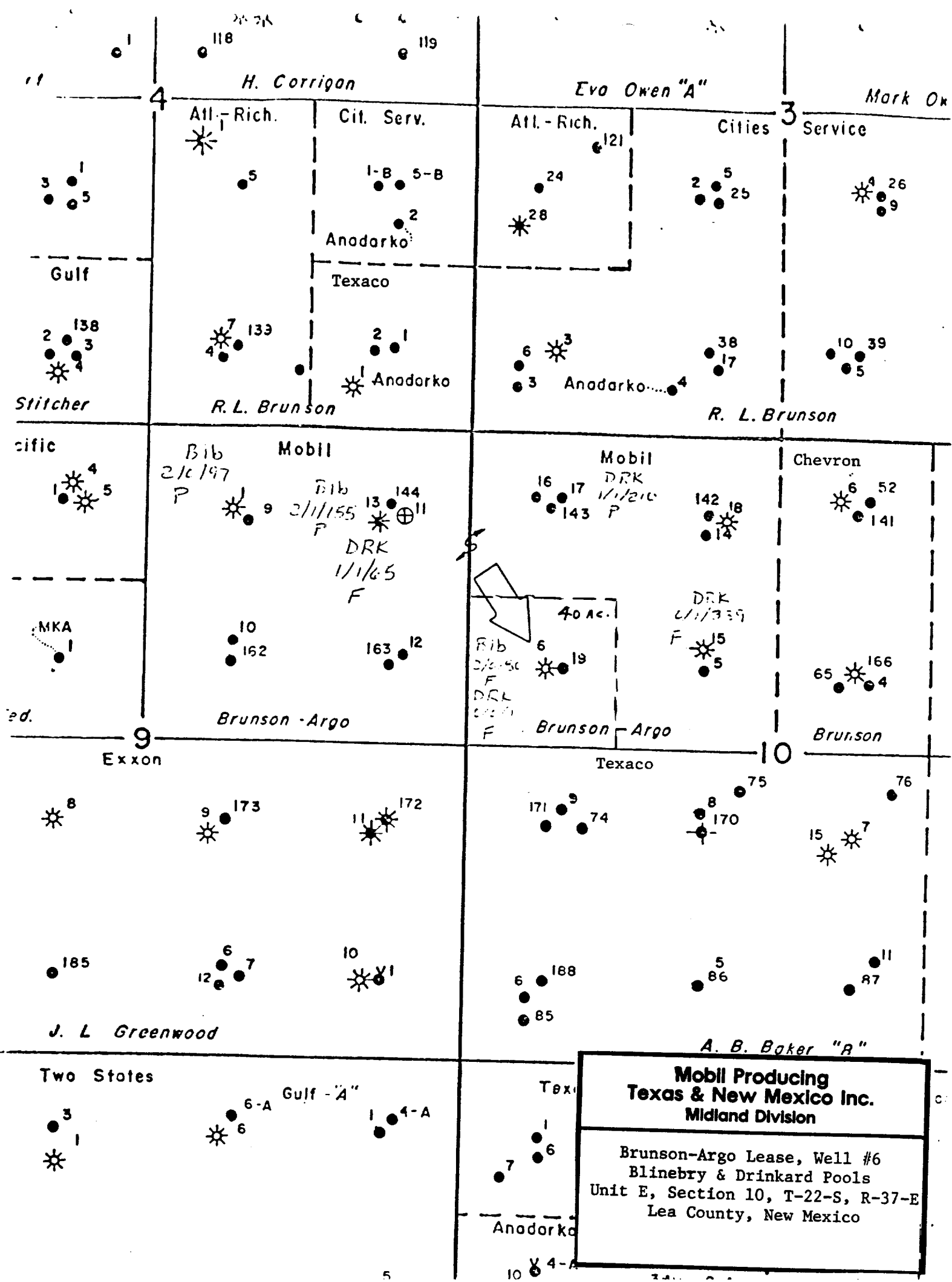
M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

CCS/jlt

cc: NMOCD-Hobbs
Offset Operators

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COBOL OFFICE

BRUNSON HR60 #6 (DRINKARD)

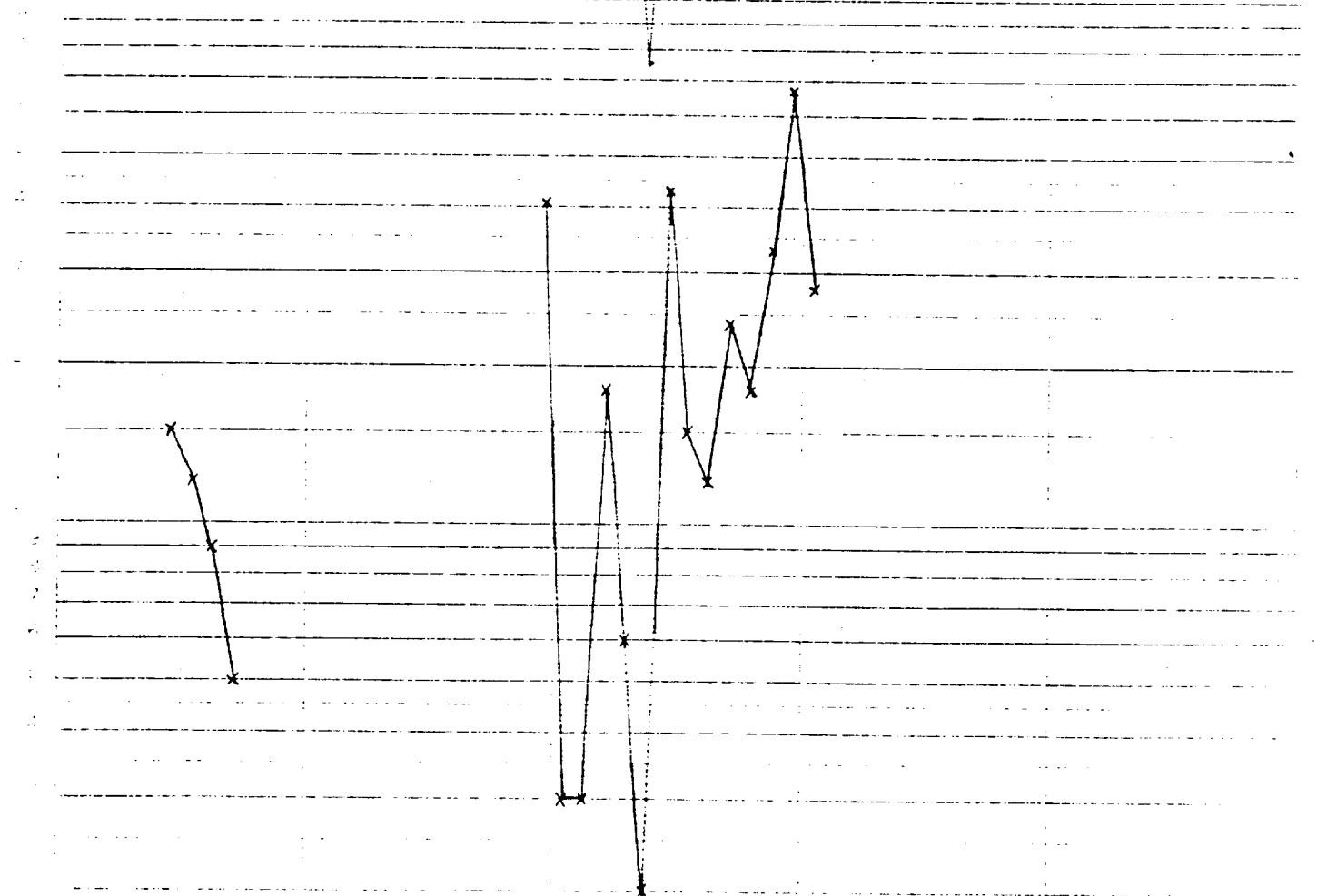
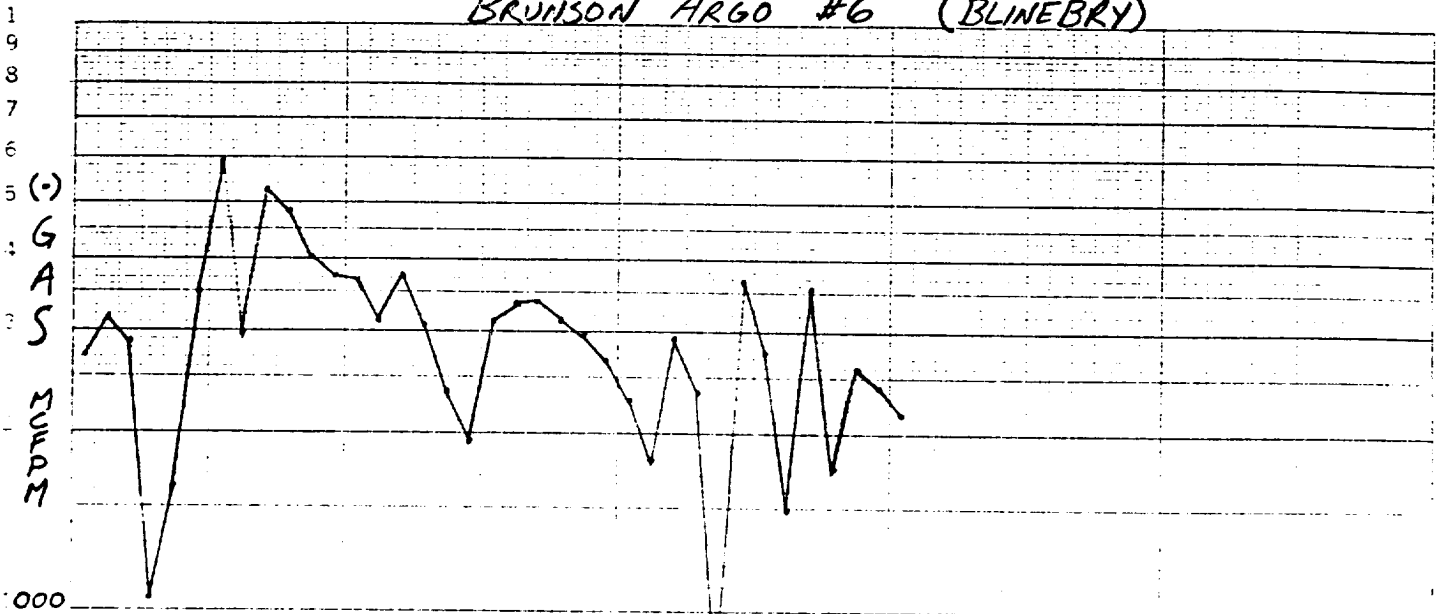
The graph displays gas flow data over a four-year period. The y-axis, labeled 'GAS (MCFPM)', has a scale from 0 to 9. The x-axis marks the years 85, 86, 87, and 88. The data is represented by a hand-drawn line that starts at approximately 2.0 MCFPM in early 1985, drops to about 0.5 MCFPM by mid-1985, and then fluctuates between 0.5 and 1.5 MCFPM through 1986. In early 1987, there is a sharp peak reaching about 1.8 MCFPM, followed by another drop and a final peak of about 1.2 MCFPM. After mid-1987, the data points are sparse, with several 'x' marks indicating specific measurements or events at various levels, including one near 0.5 MCFPM in late 1987 and another near 0.2 MCFPM in early 1988.

Date (Approx.)	Gas Flow (MCFPM)	Notes
Jan 85	2.0	
Mar 85	1.5	
May 85	0.5	
Jul 85	0.8	
Sep 85	0.8	
Nov 85	1.2	
Jan 86	0.8	
Mar 86	0.7	
May 86	0.6	
Jul 86	0.5	
Sep 86	0.5	
Nov 86	0.8	
Jan 87	0.6	
Mar 87	0.8	
May 87	0.6	
Jul 87	1.8	
Sep 87	0.8	
Nov 87	1.0	
Jan 88	0.9	
Mar 88	0.5	
May 88	0.2	
Jul 88	0.2	
Sep 88	0.2	
Nov 88	0.2	
Jan 89	0.2	
Mar 89	0.2	
May 89	0.2	
Jul 89	0.2	
Sep 89	0.2	
Nov 89	0.2	
Jan 90	0.2	
Mar 90	0.2	
May 90	0.2	
Jul 90	0.2	
Sep 90	0.2	
Nov 90	0.2	
Jan 91	0.2	
Mar 91	0.2	
May 91	0.2	
Jul 91	0.2	
Sep 91	0.2	
Nov 91	0.2	
Jan 92	0.2	
Mar 92	0.2	
May 92	0.2	
Jul 92	0.2	
Sep 92	0.2	
Nov 92	0.2	
Jan 93	0.2	
Mar 93	0.2	
May 93	0.2	
Jul 93	0.2	
Sep 93	0.2	
Nov 93	0.2	
Jan 94	0.2	
Mar 94	0.2	
May 94	0.2	
Jul 94	0.2	
Sep 94	0.2	
Nov 94	0.2	
Jan 95	0.2	
Mar 95	0.2	
May 95	0.2	
Jul 95	0.2	
Sep 95	0.2	
Nov 95	0.2	
Jan 96	0.2	
Mar 96	0.2	
May 96	0.2	
Jul 96	0.2	
Sep 96	0.2	
Nov 96	0.2	
Jan 97	0.2	
Mar 97	0.2	
May 97	0.2	
Jul 97	0.2	
Sep 97	0.2	
Nov 97	0.2	
Jan 98	0.2	
Mar 98	0.2	
May 98	0.2	
Jul 98	0.2	
Sep 98	0.2	
Nov 98	0.2	
Jan 99	0.2	
Mar 99	0.2	
May 99	0.2	
Jul 99	0.2	
Sep 99	0.2	
Nov 99	0.2	
Jan 00	0.2	
Mar 00	0.2	
May 00	0.2	
Jul 00	0.2	
Sep 00	0.2	
Nov 00	0.2	
Jan 01	0.2	
Mar 01	0.2	
May 01	0.2	
Jul 01	0.2	
Sep 01	0.2	
Nov 01	0.2	
Jan 02	0.2	
Mar 02	0.2	
May 02	0.2	
Jul 02	0.2	
Sep 02	0.2	
Nov 02	0.2	
Jan 03	0.2	
Mar 03	0.2	
May 03	0.2	
Jul 03	0.2	
Sep 03	0.2	
Nov 03	0.2	
Jan 04	0.2	
Mar 04	0.2	
May 04	0.2	
Jul 04	0.2	
Sep 04	0.2	
Nov 04	0.2	
Jan 05	0.2	
Mar 05	0.2	
May 05	0.2	
Jul 05	0.2	
Sep 05	0.2	
Nov 05	0.2	
Jan 06	0.2	
Mar 06	0.2	
May 06	0.2	
Jul 06	0.2	
Sep 06	0.2	
Nov 06	0.2	
Jan 07	0.2	
Mar 07	0.2	
May 07	0.2	
Jul 07	0.2	
Sep 07	0.2	
Nov 07	0.2	
Jan 08	0.2	
Mar 08	0.2	
May 08	0.2	
Jul 08	0.2	
Sep 08	0.2	
Nov 08	0.2	
Jan 09	0.2	
Mar 09	0.2	
May 09	0.2	
Jul 09	0.2	

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BRUNSON ARGO #6 (BLINEBRY)



85

86

87

88

WELL HISTORY

LEASE Brunson 1790 WELL NO. 6 FIELD Blinebry & Drinkard

11-8-39	Spudded.
11-29-39	TD 3721'. Complete in Penrose Skelly Grayburg F 60 BO/4 hrs
4-23-48	D/D to 6570' = TD. PBTD = 6562'. Perf Drinkard 6510'-6540'. 6 SPF. 180 holes. Acidize Drinkard w/7000 gal 20% (3 jobs). TTP 3200 [#] - 2535 [#] , AIR 1.6 BPM - 0.2 BPM.
5-31-48	NMOCD Pot: F 84 BO/18 1/2 hr, 2 1/4" ck, TP 100-40 [#] , CP 650 [#] , GOR 2267/1, Gvty 37.5°, 1% BS, 3% acid wtr.
8-8-53	Sg2 6510'-6540' w/20 sx cmt. Perf Drinkard 6466'-6494'. 4 JSPF. 112 holes. Acidize 6466'-94' w/2000 gal 20%. TTP 2800-2100 [#] , AIR 1.55 BPM, ISIP 1000 [#] . Sw oil, wtr, gas. Set Baker CIBP @ 6440'. Cap w/8' cmt. PBTD 6432'. Perf Blinebry 5442'-59', 75'-90', 5508'-15'. 4 JSPF. 156 holes. Perf Tubb 6066'-72', 84'-93', 6118'-6135'. 4 JSPF. 128 holes. Acidize Tubb w/500 gal mud acid + 2000 gal 20%, TTP 2800-2400. AIR 2.7 BPM. Slight show gas. Reacidize Tubb w/1000 gal 20%. TP Vac, AIR 3 BPM. Acidize Blinebry w/500 gal mud acid TTP 750-2750-2000 [#] , AIR 1.7 BPM. Reacidize Blinebry w/2000 gal 20%. TTP 1850-2400-2350 [#] . Flow Test Tubb: F 14 BOPD + 64 BWPD + 377 McFPD, FTP 313 [#] , Gvty 54.5°. Flow test Blinebry: F 32 BOPD + 0 BWPD + 3051 McFPD. FCP 1233 [#] , Gvty 73°. CAOF 5450 McFPD. Acidize Tubb w/4000 gal 20%. AIR 4.8 BPM. TTP Vac. Flow Test Tubb: F 6 BOPD + 54 BWPD + 252 McFPD. FTP 537 [#] . Shut-in TP 1708 [#] . Before w/o: Drinkard 7 BOPD + 0 BWPD + 277 McFPD.
9-1-73	Sg2'd Tubb 6066'-6135' OA w/300 sx cmt. SP 3000 [#] . Drill out to 6562' = PBTD. Perf Drinkard in acid @ 6307', 09', 6313', 25', 27', 35', 38', 41', 44', 54', 57', 70', 74', 76', 78', 85', 90', 92', 94', 97', 99', 6401', 04', 11', 14', 20', 24', 26', 28', 34', 6444'. 1 JSPF. 31 holes. Acidized 3500 gal 15% NEA + 125 BS. TTP 5200-3400, AIR 6 BPM, ISIP 1750 [#] . Perf Drinkard 6466'-6480' 1 JSPF. 14 holes. Acidize Drinkard w/10,000 gal 15% + 150 BS. TTP 2800-6200 [#] , AIR 6.6 BPM, ISIP 1700 [#] .

- CONTINUED -

WELL HISTORY

LEASE Brunson Argo

WELL NO. 6 FIELD Blinebry & Drinkard

9-20-73	Frac Drinkard w/30000 gal 9 [#] gelled SW + 30000 [#] 20/40 Ottawa sand, TTP 5400-5600, AIR 18.1 BPM, ISIP 2200 [#] , 15 min 1400 [#] . Set Baker Model D pkr @ 6250'. Perf Blinebry in acid @ 5534', 37', 44', 50', 84', 91', 5600', 07', 14', 17', 32', 5641', 43', 47', 49', 52', 62', 65', 75', 79', 84', 86, 88', 91', 5734', 39', 42', 5744', 48', 54', 58', 69', 73', 76', 79', 5814', 16', 31', 5834'. 135 PF. 39 holes. Acidize Blinebry 5442'-5834' OA w/10,000 gal 15% NEA + 250 [#] Benzoic acid. TTP 1850-2250 [#] , AIR 6 BPM, ISIP 1100 [#] , 9 min vac.
10-30-73	NMOCD Pot: Drinkard F 580 + 6 BW + 640 McFPD, 48/64" CK, Gvty 62.6°, TP 220 [#] NMOCD Pot: Blinebry F 680 + 11 BW + 690 McFPD, 48/64" CK, Gvty 55°, CP 205 [#] .
9-15-76	Pump 1000 sx cmt down 9 5/8" - 7" annulus to stop wtr flow. Drinkard: F 1 BOPD + 1 BWPD + 330 McFPD 1" CK, TP 115 [#] . Blinebry: F 0 BOPD + 0 BWPD + 500 McFPD, 1" CK, CP 115 [#] .

R.W. Petty 1-22-88

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JARREL SERVICES, INC.
Box 1230
Hobbs, New Mexico 88240

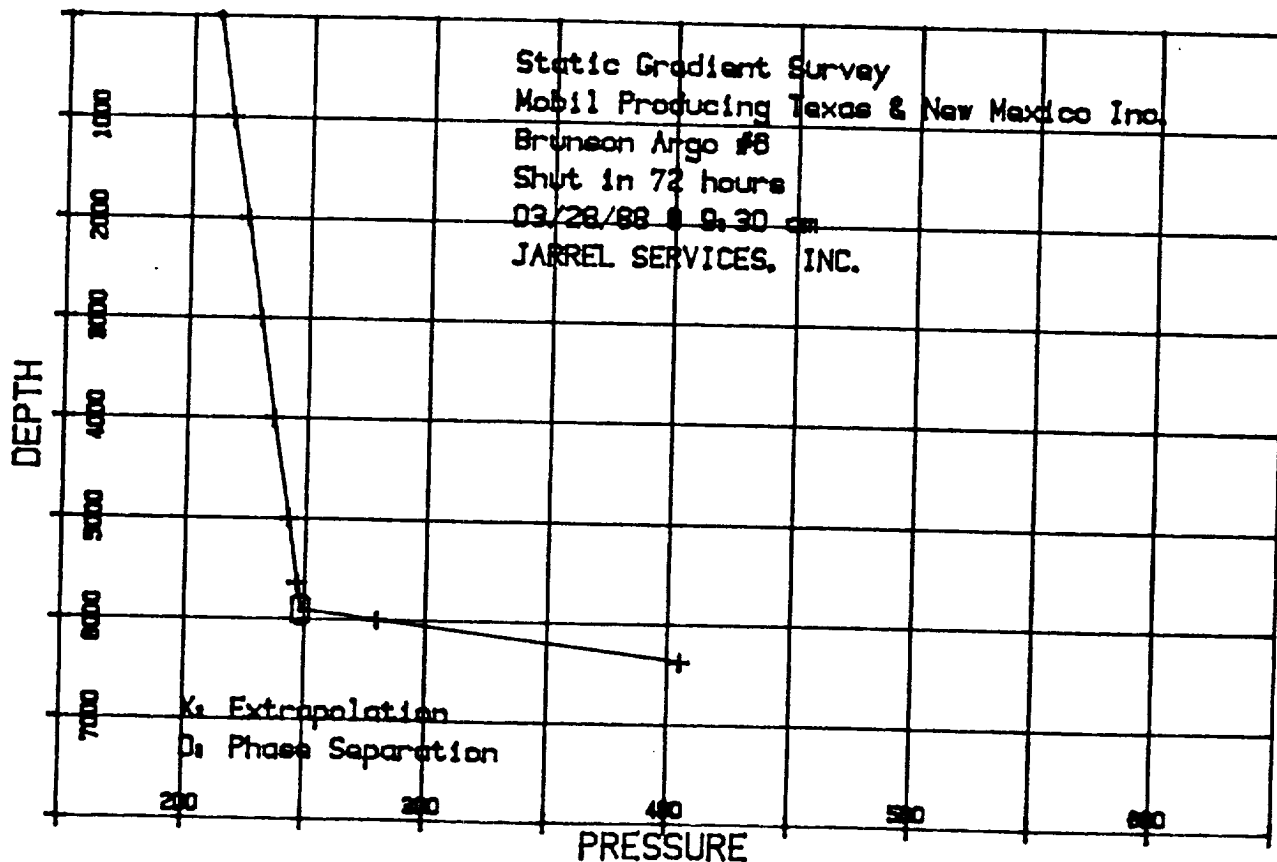
<<Static Gradient Survey>>

COMPANY: Mobil Producing Texas & New Mexico Inc. Date: 03/28/88 @ 9:30 am
LEASE: Brunson Argo CONTACT: Bill Gossett
FIELD: Brunson WELL: #6
COUNTY: Lea ZONE: Blinbry/Drinkard
STATUS: Shut in 72 hours STATE: New Mexico
PERFORATIONS FROM: 5442 ft OPERATOR: Harrah
DEPTH: 6376 ft TD: 6444 ft
TEMPERATURE: 107°F

TABULAR DATA

DEPTH (ft)	PRESSURE (psi)	GRADIENT (psi/ft)	EXPLANATIONS
0	211		
1000	217	0.006	
2000	224	0.007	
3000	230	0.006	
4000	236	0.006	
5000	243	0.007	
5637	247	0.006	Midpoint of Blinbry perms
5906	249	0.006	<=Phase separation
6000	280	0.332	
6376	405	0.332	Midpoint of Drinkard perms

NOTE: Explanations are included to clarify calculated data points.



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EXHIBIT "B"

COMPUTATION OF RELATIVE VALUES OF THE HYDROCARBON PRODUCTIVE BEFORE AND AFTER DOWNHOLE COMMINGLING (STATEWIDE RULE 303-C-2-H)

Lease and Well No. Brunson-Argo Well No. 6

	<u>UPPER POOL</u>	<u>LOWER POOL</u>	<u>COMMINGLED</u>
Pool Name	Blinebry	Drinkard	
Gravity, API	40.2	37.4	38.9
Selling price/BBL/MCF	\$16.50/\$1.50	\$16.50/\$1.50	\$16.50/\$1.50
	Proposed	Proposed	
Daily Production/BBL/MCF	1/65 (3/150)	.5/0.0 (2.5/115)	4.5/265
Daily Income	\$114 (\$274.50)	\$8.25 (\$213.75)	\$471.75

TOTAL DAILY INCOME (POOLS SEPARATED) \$ 122.25

Net difference realized from downhole commingling based on current well test=
\$349.50.

REMARKS:

Due to the 5" Casing we are unable to pump each zone separately. Commingling
will allow us to produce both zones with a pump -- thus reducing back pressure.
Without downhole commingling, the Drinkard zone will be abandoned.

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EXHIBIT "A"
DATA SHEET

APPLICATION FOR EXCEPTION TO RULE 303(a) NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS ALLOWING DOWNHOLE COMMINGLING OF DUALY COMPLETED OIL WELLS BY ADMINISTRATIVE PROCEDURE (ORDER NO. R-3845)

1. Lease Name Brunson-Arco
2. Well No. 6
3. Well Location: Unit E, 660 feet from West line,
1980 feet from North line of Section 10,
Township 22-S Range 37-E, Lea County,
New Mexico
4. Upper Zone Blinebry
5. Completion Interval 5442 - 5834' O.A.
6. Lower Zone Drinkard
7. Completion Interval 6307 - 6494' O.A.
8. Current Productivity Test Summary

	<u>Blinebry</u> (Upper Zone)		<u>Drinkard</u> (Lower Zone)	
Producing Method	F	Proposed Pump	F	Proposed Pump
Oil Bbl./day	1	3	0.5	2.5
Gas Mcf/day	65	150	0	115
Water Bbl/day	0	0	0	0
GOR	65000	50,000	0	46,000
Allowable (GAS) MCF/Day	NMOCD Sets		852'	

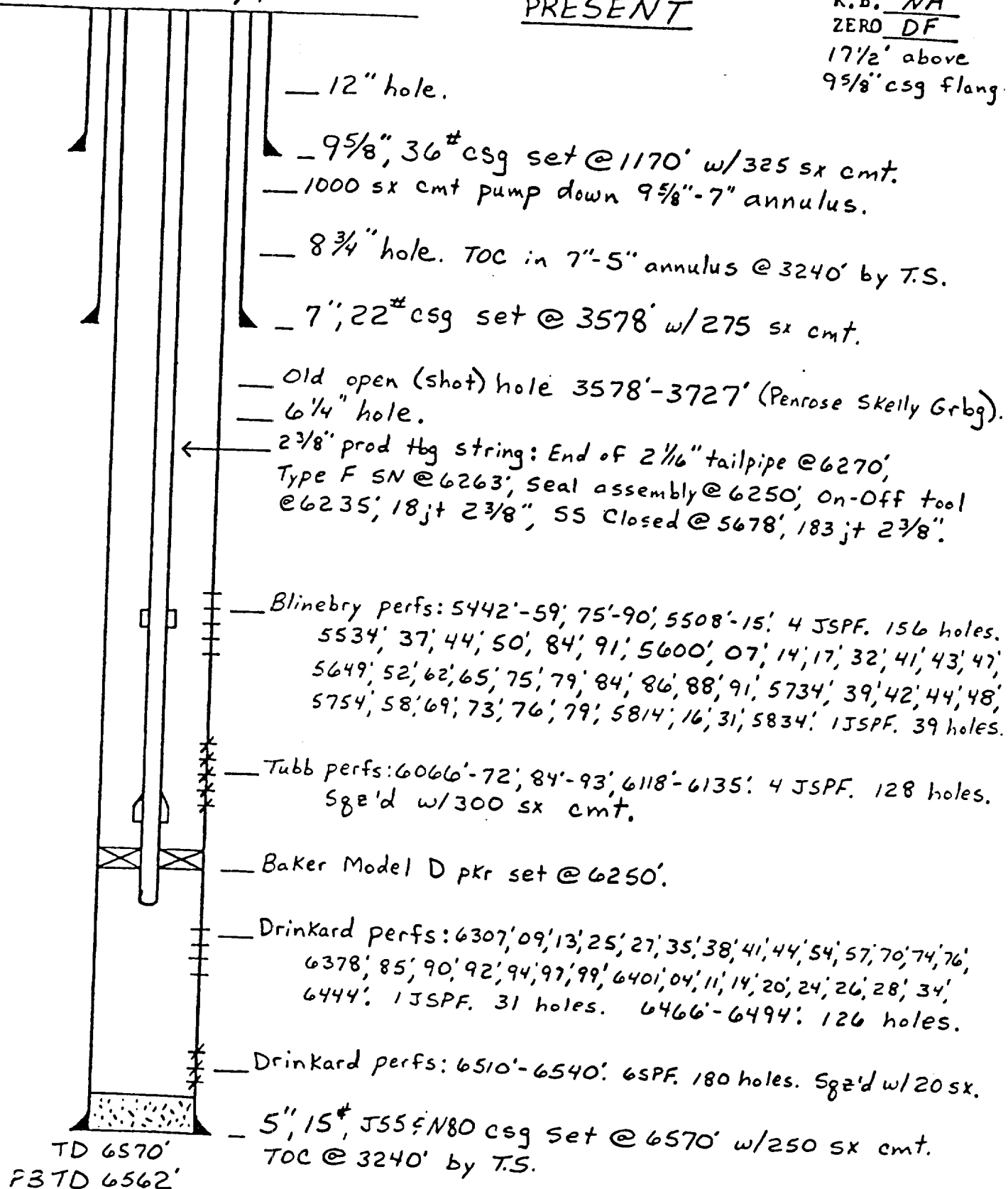
9. Bottom-hole Pressure of Upper Zone 881 PSI @ 5588'
10. Bottom-hole Pressure of Lower Zone 405 PSI @ 6376'
11. Fluid Characteristics of Each Zone Both zones produce an intermediate sweet type crude. Expect no problems from the formation of untreatable precipitates in the commingled produced water that may occur.

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DATE 1-22-88WELL NO. 6LEASE Bruce on Argo FIELD Blinebry & DrinkardLOCATION 660' FWL & 1980' FNLE - Sec 10, T22S, R37ELea County, NMSIGNED R.W. PettyPRESENTG.L. 3402 1/2'D.F. 3420'K.B. NAZERO DF

17 1/2' above

9 5/8" csg flang.



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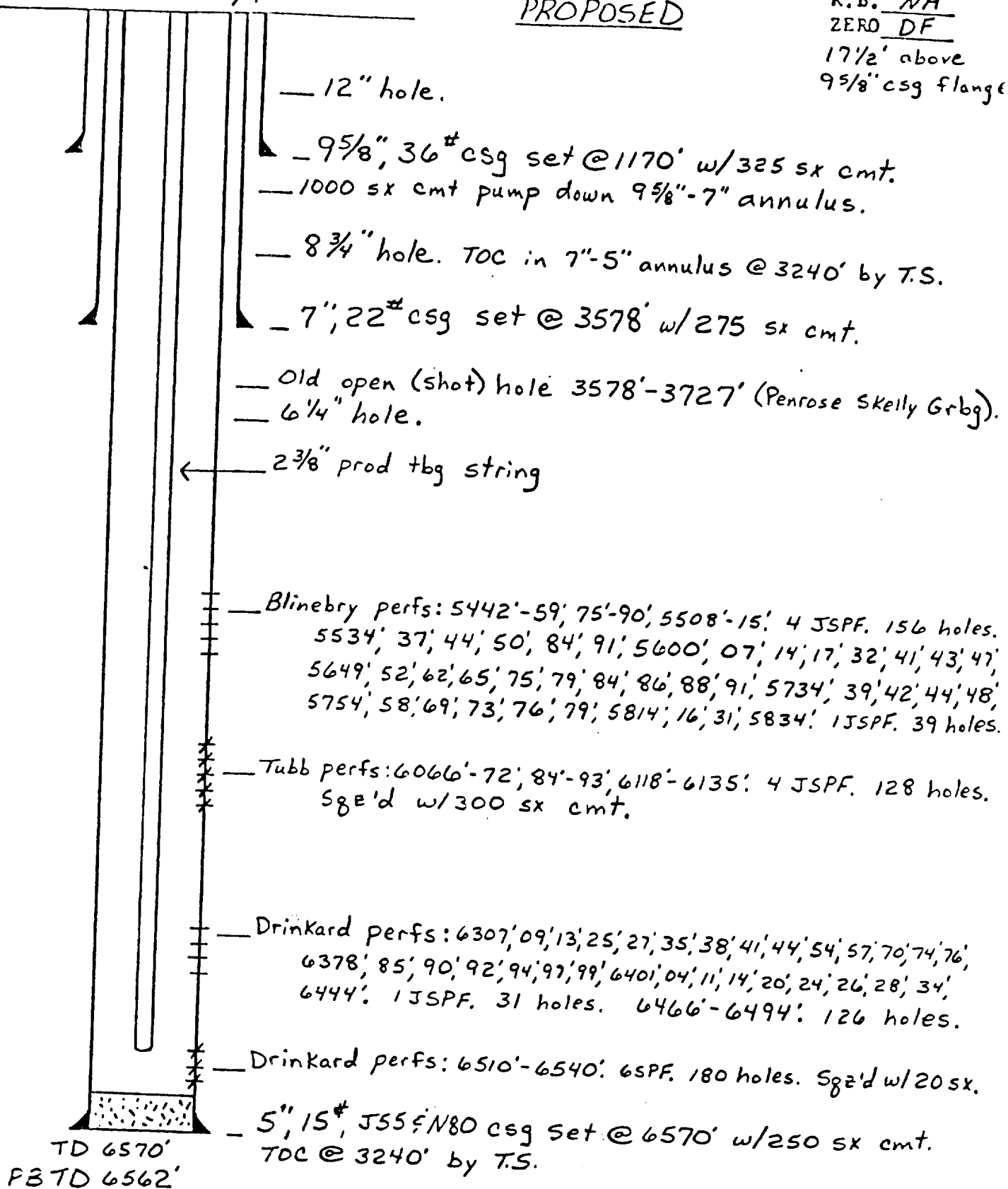
LOCATION 660' F1 - F1980' FNL
E - Sec 10, T22S, R37E
Lea County, NM

SIGNED R.W. Petty

PROPOSED

G.L. 3402 1/2'
D.F. 3420'
K.B. NA
ZERO DF

17 1/2' above
9 5/8" csg flange



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MOBIL PRODUCING TEXAS & NEW MEXICO INC.

**BRUNSON-ARGO LEASE, WELL NO. 6
BLINEBURY AND DRINKARD POOLS
LEA COUNTY, NEW MEXICO**

OFFSET OPERATORS

Cities Service Oil & Gas Producing
P. O. Box 300
Tulsa, Oklahoma 74102

Exxon Company, U.S.A.
P. O. Box 1600
Midland, Texas 79702

Chevron, U.S.A. Inc.
P. O. Box 1150
Midland, Texas 79702

Texaco Producing, Inc.
P. O. Box 3109
Midland, Texas 79702

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