

RECEIVED

OCT 5 10 37 AM 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mayne & Mertz, Inc.

3. Address and Telephone No.

P. O. Box 183 Midland, TX 79702 (915) 683-1600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FS & WL Sec. 6, T-21-S, R-38-E

Unit 11

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

LC 065525

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Elliott Fields #1

9. API Well No.

30-025-22827

10. Field and Pool, or Exploratory Area

Blinebry

11. County or Parish, State

Lea, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Downhole Commingling

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

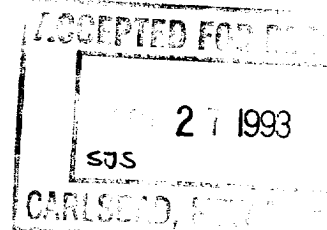
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DOWNHOLE COMMINGLED BLINEBRY, DRINKARD & ABO FORMATIONS

8/26/93 PULLED RODS & PMP. NU BOP & PULLED TBG. RIH & RETRIEVED RBP @ 6450'. RIH W/ PKR & SET @ 6640'. SION.

8/27/93 ACIDIZED DRINKARD & ABO PERFS W/ 6500 GALS 15% NEFE HCL W/ 1840# ROCK SALT. 387 BLTR. RELEASED PKR & POOH. RAN TBG, PMP & RODS. RWTP.

DHC-70



14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title President

Date 10/5/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
HOUSTON, NEW MEXICO 88240

CONTACT RECEIVING
OFFICE FOR NEW
BORNEOES REQUIRED

(See other In-
structions on
reverse side)

MH Rowell District
Mod/Inv Form No.
ND60-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. LC 065525																			
2. NAME OF OPERATOR Mayne & Mertz, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																			
3. ADDRESS OF OPERATOR P. O. Box 183 Midland, TX 79702		7. UNIT AGREEMENT NAME																			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FS & WL At top prod. Interval reported below same At total depth same		8. WELL NO. 1																			
9a. API Well No. 30-025-22827		9b. Area Code & Phone No. 915 683-1600																			
10. DATE STUDDERED 11/1/68		11. DATE T.D. REACHED 12/2/68																			
12. DATE COMPLETION (Ready to prod.) 1/12/69		13. ELEVATION (DP, RKB, RT, GR, ETC.)* 3556' GR																			
14. PERMIT NO.		15. DATE ISSUED 10/24/68																			
16. DATE T.D. REACHED 12/2/68		17. ELEV. Casinghead 3556'																			
18. TOTAL DEPTH, MD & TVD 7460'		19. INTERVALS DRILLED BY 10 - TD																			
20. FLUID BACK T.D., MD & TVD		21. IF MULTIPLE COMPLET., HOW MANY*																			
22. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 6028-6357' Blinebry		23. ROTARY TOOLS CABLE TOOL																			
24. TYPE ELECTRIC AND OTHER LOGS RUN Gammatron, BHC Acoustilog, L/L, ML/L - Cal		25. WAS DIRECTIONAL SURVEY MADE No																			
26. WAS WELL CORED No		27. WAS WELL CORED No																			
28. CASING RECORD (Report all strings set in well)																					
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT FILLED</th></tr></thead><tbody><tr><td colspan="6">See Abo Completion</td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED	See Abo Completion											
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29. LINER RECORD				30. TUBING RECORD																	
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2-3/8"	6390	-																			
31. PERFORATION RECORD (Interval, size and number) 6028'-6357' (62 total shots) Drinkard & Abo perms are below RBP and are not producing.				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. <table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>6028-6357'</td><td>8000 gals gelled 20% NEFE HCL</td></tr></tbody></table>		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	6028-6357'	8000 gals gelled 20% NEFE HCL												
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33. PRODUCTION DATE FIRST PRODUCTION 7/3/93 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) pumping WELL STATUS (Producing or shut-in) producing																					
DATE OF TEST 7/21/93 HOURS TESTED 24 CHOKE SIZE open PROD'N. FOR TEST PERIOD → OIL—BBL. 4 GAS—MCF. 17 WATER—BBL. 7 GAS-OIL RATIO 4250																					
FLOW, TUBING PRESS. CASINO PRESSURE 25 CALCULATED 24-HOUR RATE → OIL—BBL. 4 GAS—MCF. 17 WATER—BBL. 7 OIL GRAVITY-API (CORR.) 39.5																					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) sold				TEST WITNESSED BY																	
35. LIST OF ATTACHMENTS																					

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Jay L. Mayne TITLE President DATE 8/3/93

(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N. M. OIL FIELD COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

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☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
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660' FS & WL Sec. 6, T-21-S, R-38-E

5. Lease Designation and Serial No.
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7. If Unit or CA, Agreement Designation

8. Well Name and No.
Elliott Fields #1

9. API Well No.
30-025-22827

10. Field and Pool, or Exploratory Area
Blinebry/Drinkard/Wantz Abo

11. County or Parish, State
Lea

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

It is proposed to remove the retrievable bridge plug separating the Blinebry and Drinkard/Abo perforations in order to downhole commingle all zones.

Estimated starting date: August 30, 1993

Aug 3 10 51 AM '93
RECEIVED

DHC-70

14. I hereby certify that the foregoing is true and correct

Signed Jay C. Meyer Title President

Date August 3, 1993

Approved by JONIC 6001 1000 1000
Conditions of approval, if any:

Title PETROLEUM FIELD OFFICER

Date 9/21/93

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

N. M. OIL CONS. COMMISSION

P. O. BOX 1980

HOBBS, NEW MEXICO 88240

N. M. OIL CONS. COMMISSION

P. O. BOX 1980

Form 3160-5
(June 1990)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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- ☐
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-
- ☐
- Other _____
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
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- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

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6/30/93 PULLED RODS, PMP & TBG. RAN GR/CCL FROM 6400' TO 5900'. POOH. RIH W/ SELECT FIRE CSG GUN & PERFERED BLINEBRY FORMATION W/ 2 SPF AS FOLLOWS: 6028', 6034', 6049', 6059', 6082', 6084', 6091', 6093', 6099', 6101', 6108', 6117', 6123', 6125', 6136', 6140', 6142', 6156', 6159', 6162', 6168', 6176', 6185', 6191', 6245', 6266', 6269', 6296', 6298', 6355', 6357' (62 SHOTS TOTAL).

7/02/93 RIH W/ BIT & CSG SCRAPER TO 6582'. POOH. PU RBP & PKR. RIH & SET RBP @ 6450'. TESTED RBP TO 2000 PSI (4884 PSI BHP). HELD OK. SPOTTED 650 GALS UNGELLED 20% NEFE HCL ACID OVER PERFS. PU & SET PKR @ 5931'. BROKE DWN PERFS @ 2000 PSI. ACID FRACED W/ TOTAL OF 1000 GALS UNGELLED & 7000 GALS GELLED 20% NEFE HCL. MTP 4500 PSI. ATP 3300 PSI. MPR 10.3 BPM. APR 7.5 BPM. ISIP, 5 MIN, 10 MIN & 15 MIN SIP'S ALL 1800 PSI. BLED OFF PRESS. 275 BLTR. SION.

7/03/93 SITP 750 PSI. RU SWAB. 57 BBLs TOTAL FLUID SWABBED; APPROX 7 BO & 50 BLW. RD SWAB. REL PKR & POOH. RIH OPEN ENDED W/ COLLAR, SN, 15 JTS TBG (498.21'), TAC & 177 JTS TBG (5877.4'). TAGGED RBP @ 6450'. PU & SET SN @ 6390' (33' BELOW BOT PERF). SET TAC. RUN ROD PMP & RODS. PWOP.

14. I hereby certify that the foregoing is true and correct

Signed

Title

President

Date

August 3, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

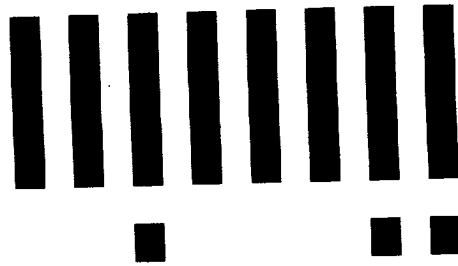
ACCEPTED FOR RECORD

21 1993

CARLSBAD, NEW MEXICO

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*See instruction on Reverse Side



LTR



Job separation sheet

Mayne & Mertz

P. O. Box 183, Midland, Texas 79702, (915) 683-1600

August 3, 1993

New Mexico Oil Conservation Division
Attn: Mr. David Catanach
P. O. Box 2088
Santa Fe, NM 87584-2088

DAC-70
9-17-93

Re: Application for Exception to Rule 303-A
Elliott Fields Lease, Well No. 1
Unit U, Sec. 6, T-21-S, R-38-E
Lea County, New Mexico

Gentlemen:

Mayne & Mertz, Inc. requests an exception to Rule 303-A to permit downhole commingling of the Blinebry, Drinkard and Wantz Abo pools within the subject well. Production from the Drinkard and Wantz Abo is currently being downhole commingled by authority received October 8, 1970 through Administrative Order No. DHC-70.

The Blinebry pool was recently completed in this well and is being selectively produced with a retrievable bridge plug between the zones. We believe this well remains qualified for downhole commingling under provisions of Rule 303-C with the addition of the Blinebry pool. The attached information provides support in this regard.

This lease is Federal Lease No. LC-065525. A copy of this application is being submitted to United States Bureau of Land Management. All offset operators have been notified in writing of this proposed commingling.

Very truly yours,



Taylor Mayne

TM/ev
Attach.

cc: U.S. Bureau of Land Management
Attn: Mr. Adam Salameh
P. O. Box 1778
Carlsbad, NM 88221-1778

Offset Operators

**APPLICATION TO DOWNHOLE COMMINGLE
BLINEBRY, DRINKARD and WANTZ ABO POOLS**

ELLIOTT FIELDS No. 1

OPERATOR: Mayne & Mertz, Inc.
P. O. Box 183
Midland, TX 79702

LOCATION: Unit U, Section 6, T-21-S, R-38-E
Lea County, New Mexico

DEPTH: 7417' (lowermost perforation)

ESTIMATED BOTTOMHOLE PRESSURES:

Drinkard/Abo	297 psi
Blinebry	340 psi

LIFT STATUS: All zones must be rod pumped.

ZONE CLASSIFICATIONS: All zones are classified as "oil".

FLUID COMPATIBILITY: Combining the fluids will not result in the formation of precipitates which might damage any of the reservoirs (see attached compatibility report).

OWNERSHIP: Ownership of all zones is common.

ECONOMICS:	Blinebry only -	(4BOPD)(\$16/BO)	=	\$64.00
		(17MCFPD)(\$1.25/MCF)	=	<u>21.25</u>
		Total Revenue	=	\$83.25 /D
	All Zones Commingled -	(8BOPD)(\$16/BO)	=	\$128.00
		(25MCFPD)(\$1.25/MCF)	=	<u>31.25</u>
		Total Revenue	=	\$159.25 /D

PRODUCTION ALLOCATION:	<u>BOPD</u>	<u>% of Total</u>	<u>Proposed Allocation</u>
Drinkard	1.2	15%	15%
Wantz Abo	2.8	35%	35%
Blinebry	<u>4</u>	<u>50%</u>	<u>50%</u>
Total	8	100%	100%

Production from each zone is expected to have a similar decline rate.

U.S. MI
Will N. Torry, et al 3

Spot

D.M. U.S.
McCloskey

R318

Not. Res. (Elliott) (Kirby Prod)
Bravo Oper Co
Moranco

Marshall
E. Winston
(Macpherson
Emer. et
etal, Del. 79152

(C.A. Schellinger)
7-1-92

"McNeill"

1-A
P192
Marshall E.
Winston
to 7879

Marshall
E. Winston
McNeill

Amerado

A.R. Co. Mi.

(C. Schellinger)

Elliott Oil,

Fullerton Oil, oper.

etal

Mayer, Mertz

Elliott Fields #1

"Elliott Fields"

40 Acres

(Duq)

Will Torry, S et al

JH Hendrix

Exxon

(Bl. D. sc)

P. Mills

(F135)

Terry

Elliott Fed

"Wantz Fed"

Elliott Oil

Elliott

Exxon

Exxon

U.S. Blndt

U.S. Blndt

TIA

TIA

Level

Level

(P/B)

(P/B)

Conoco, et al

Conoco, et al

092098

092098

Lockhart Fed

Lockhart Fed

Shell

Shell

Shell

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Yates Pet. et al

Yates Pet. et al

9-1-93

9-1-93

7-135 200

7-135 200

U.S. M.I.

U.S. M.I.

Yates Pet. et al

Yates Pet. et al

9-1-93

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7-135 200

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U.S. M.I.

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State (S)

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Yates Pet. et al

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7-135 200

7-135 200

U.S. M.I.

U.S. M.I.

State (S)

State (S)

JH Hendrix

Gulf-Bunin

N.B. Bunin (S)

06000

06000

BC & O Oil

BC & O Oil

06000

06000

06000

Aztec (Elliott) Oil

Aztec (Elliott) Oil

Not Res

Not Res

Not Res

Elliott

Elliott

Elliott

Elliott

Elliott

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

DISTRICT II
P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
P.O. Drawer DD, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 874

GAS - OIL RATIO TEST

Operator						Pool								County					
Mayne & Mertz, Inc.						Drinkard - Wantz Abo - Blinebry						Lea							
Address						TYPE OF TEST-(X)							Scheduled	Completion	Special	GAS - OIL RATIO CU.FT/BBL			
P. O. Box 183 Midland, TX 79702												DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	WATER BBL'S.	PROD. DURING TEST GRAV. OIL	OIL BBL'S.	GAS M.C.F.		
LEASE NAME						LOCATION			DATE OF TEST		STATUS	CHOKER SIZE	T.B.G. PRESS.						
						U	S	T	R										
<u>Drinkard Pool</u>																			
Elliott Fields	1	U	6	21-S	38-E	6/22/93	P	Open	25		24		0.6	40.2	1.2	2.4		2000	
<u>Wantz Abo Pool</u>																			
Elliott Fields	1	U	6	21S	38-E	6/22/93	P	Open	25		24		1.4	40.2	2.8	5.6		2000	
<u>Blinebry Pool</u>																			
Elliott Fields	1	U	6	21-\$	38-E	7/21/93	P	Open	25		24		7	39.5	4	17		4250	
						*SPECIAL	TEST:	REQUEST FOR DOWNHOLE COMMINGLING	TOTAL		9					8	25		3125

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 Elizabeth Maynard

President

Printed name and title

8/3/93

(915) 683-1600

Telephone No.

SUMMARY COMPLETION REPORT - BLINEBRY FORMATION

ELLIOTT FIELDS NO. 1

- 6/30/93 PULLED RODS, PMP & TBG. RAN GR/CCL FROM 6400' TO 5900'. POOH. RIH W/ SELECT FIRE CSG GUN & PERFED BLINEBRY FORMATION W/ 2 SPF AS FOLLOWS: 6028', 6034', 6049', 6059', 6082', 6084', 6091', 6093', 6099', 6101', 6108', 6117', 6123', 6125', 6136', 6140', 6142', 6156', 6159', 6162', 6168', 6176', 6185', 6191', 6245', 6266', 6269', 6296', 6298', 6355', 6357' (62 SHOTS TOTAL).
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- 7/03/93 SITP 750 PSI. RU SWAB. 57 BBLs TOTAL FLUID SWABBED; APPROX 7 BO & 50 BLW. RD SWAB. REL PKR & POOH. RIH OPEN ENDED W/ COLLAR, SN, 15 JTS TBG (498.21'), TAC & 177 JTS TBG (5877.4'). TAGGED RBP @ 6450'. PU & SET SN @ 6390' (33' BELOW BOT PERF). SET TAC. RUN ROD PMP & RODS. PWOP. 465 BLTR.
- 7/04/93 PMPD 0 BO, 108 BLW IN 16.5 HRS. 357 BLTR.
- 7/05/93 PMPD 0 BO, 138 BLW. 219 BLTR.
- 7/06/93 PMPD 0 BO, 117 BLW. 102 BLTR.
- 7/07/93 PMPD 40 BO, 67 BLW. 35 BLTR.
- 7/08/93 PMPD 12 BO, 35 BLW & 11 BNW. 0 BLTR.
- 7/09/93 PMPD 7 BO, 12 BW, 17 MCF.
- 7/10/93 6 BO, 10 BW, 17 MCF.
- 7/11/93 6 BO, 6 BW, 17 MCF.
- 7/12/93 6 BO, 5 BW, 17 MCF. WELL DOWN 18 HRS DUE TO BAD WEATHER.
- 7/13/93 7 BO, 18 BW, 17 MCF.
- 7/14/93 4 BO, 7 BW, 17 MCF.
- 7/15/93 3 BO, 8 BW, 17 MCF. WELL DOWN DUE TO BAD WEATHER.
- 7/16/93 8 BO, 22 BW, 17 MCF.
- 7/17/93 7 BO, 10 BW, 17 MCF.
- 7/20/93 4 BO, 4 BW, 17 MCF.
- 7/21/93 4 BO, 7 BW, 17 MCF.

10000
1000

1000
100

GAS-mcf
OIL-bbl

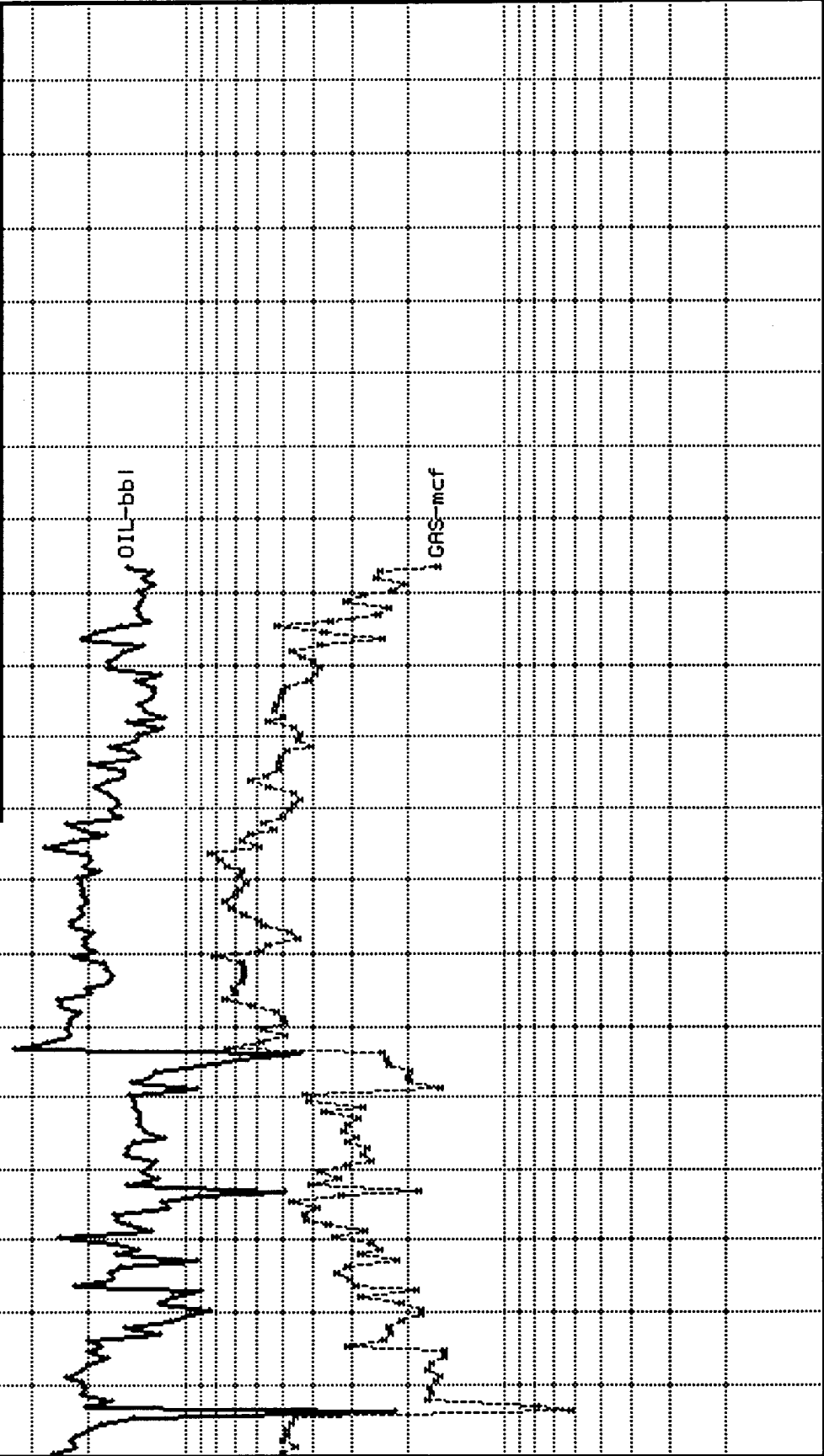
100
10

10

LEASE : ELLIOTT FIELDS
FIELD : WANTZ (ABO) & DRINKARD
COUNTY: LEA
OPERATOR: MAYNE & MERTZ INC

STATE : NM

WELL NO. : 000001



81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 0
DATE

TRETOLITE

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713 558-5200 • Fax: 713 589-4737

Reply to: P.O. Box 5250
Hobbs, New Mexico 88241
505 393-6711 Phone
505 393-0700 Fax

WATER ANALYSIS REPORT

Company : MAYNE & MANTX Date : 08-02-93
Address : Date Sampled : 07-23-93
Lease : ELLIOTT FIELD Analysis No. : 271
Well : #1 *Blinberry (new zone)*
Sample Pt. : UNKNOWN

ANALYSIS	mg/L	* meq/L
1. pH	6.2	
2. H ₂ S	NK	
3. Specific Gravity	1.115	
4. Total Dissolved Solids	10,145.3	
5. Suspended Solids	NK	
6. Dissolved Oxygen	NR	
7. Dissolved CO ₂	NR	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO ₃)		
10. Methyl Orange Alkalinity (CaCO ₃)	219.0	
11. Bicarbonate	HCO ₃ 267.2	HCO ₃ 4.4
12. Chloride	Cl 114651.7	Cl 3333.6
13. Sulfate	SO ₄ 1400.0	SO ₄ 29.2
14. Calcium	Ca 9547.1	Ca 476.4
15. Magnesium	Mg 3286.7	Mg 270.4
16. Sodium (calculated)	Na 57942.8	Na 2520.3
17. Iron	Fe 65.5	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO ₃)	37373.6	

PROBABLE MINERAL COMPOSITION

*milli equivalents per liter

476	*Ca	*HCO ₃	4
270	*Mg	*SO ₄	29
2520	*Na	*Cl	3234

Saturation Values Dist. Water @ 15°C

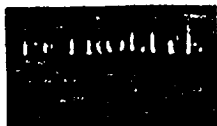
CaCO₃ 13 mg/L
CaSO₄ * 2H₂O 2090 mg/L
BaSO₄ 2.4 mg/L

Compound	Eq. Wt.	meq/L	mg/L
Ca(HCO ₃) ₂	81.0	4.4	355
CaSO ₄	68.1	29.2	1984
CaCl ₂	55.5	442.9	24575
Mg(HCO ₃) ₂	73.2		
MgSO ₄	60.2		
MgCl ₂	47.6	270.4	12872
NaHCO ₃	84.0		
Na ₂ SO ₄	71.0		
NaCl	58.4	2520.3	147289

REMARKS: KNOX SERVICES
JERRY WHITE / FILE

Respectfully submitted,
ROZANNE JOHNSON

Petrolite Oilfield Chemicals Group



JERRY WHITE
Sales Representative

Petrolite Division
Petrolite Corporation
Southeastern New Mexico District
5624 Lovington Hwy
Hobbs, NM 88040 0140

Office (505) 392-6711
Mobile (505) 389-7260
Home (505) 392-6911

SCALE TENDENCY REPORT

Company : MAYNE & MANTX Date : 08-02-93
Address : Date Sampled : 07-23-93
Lease- : ELLIOTT FIELD Analysis No. : 671
Well : #1 *Blinebry (new zone)* Analyst : ROZANNE JOHNSON
Sample No. : UNKNOWN

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling-Tendency

S.I. =	0.4	at	60 deg.	F or	16 deg.	C
S.I. =	0.5	at	80 deg.	F or	27 deg.	C
S.I. =	0.5	at	100 deg.	F or	38 deg.	C
S.I. =	0.6	at	120 deg.	F or	49 deg.	C
S.I. =	0.6	at	140 deg.	F or	60 deg.	C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S =	1670	at	60 deg.	F or	16 deg.	C
S =	1848	at	80 deg.	F or	27 deg.	C
S =	1962	at	100 deg.	F or	38 deg.	C
S =	2014	at	120 deg.	F or	49 deg.	C
S =	2050	at	140 deg.	F or	60 deg.	C

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Respectfully submitted,
ROZANNE JOHNSON

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505 392-3759 Fax

WATER ANALYSIS REPORT

Company : MAYNE & MANTX Date : 08-02-93
Address : Date Sampled : 07-23-93
Lease : ELLIOTT FIELD Analysis No. : 873
Well : #2 Abo / Drinkard (old zones)
Sample Pt. : UNKNOWN

ANALYSIS		mg/L	* meq/L	
-----		-----	-----	
1.	pH	6.7		
2.	H ₂ S	NR		
3.	Specific Gravity	1.115		
4.	Total Dissolved Solids	182688.9		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO ₂	NR		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaCO ₃)			
10.	Methyl Orange Alkalinity (CaCO ₃)	122.0		
11.	Bicarbonate	HCO ₃ 148.8	HCO ₃	2.4
12.	Chloride	Cl 112887.2	Cl	3184.4
13.	Sulfate	SO ₄ 700.0	SO ₄	14.6
14.	Calcium	Ca 10717.4	Ca	534.8
15.	Magnesium	Mg 3452.0	Mg	284.0
16.	Sodium (calculated)	Na 54776.5	Na	2382.6
17.	IRON	Fe 7.0		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO ₃)	40976.8		

PROBABLE MINERAL COMPOSITION

milli equivalents per Liter				Compound	Equiv wt X meq/L = mg/L		
-----	-----	-----	-----	-----	-----	-----	-----
535	*Ca <-----	*HCO ₃	2	Ca (HCO ₃) ₂	81.0	2.4	198
-----	/----->		-----	CaSO ₄	68.1	14.6	992
284	*Mg ----->	*SO ₄	15	CaCl ₂	55.5	517.8	28732
-----	<-----/		-----	Mg (HCO ₃) ₂	73.2		
2383	*Na ----->	*Cl	3184	MgSO ₄	60.2		
-----			-----	MgCl ₂	47.6	284.0	13520
Saturation Values Dist. Water 20 C				NaHCO ₃	84.0		
CaCO ₃		13 mg/L		Na ₂ SO ₄	71.0		
CaSO ₄ * 2H ₂ O		2090 mg/L		NaCl	58.4	2382.6	135240
BaSO ₄		2.4 mg/L					

REMARKS: KNOX SERVICES
----- JERRY WHITE / FILE

SCALE TENDENCY REPORT

Company	: MAYNE & MANTX	Date	: 08-02-93
Address	:	Date Sampled	: 07-23-93
Lease	: ELLIOTT FIELD	Analysis No.	: 672
Well	: #2 <i>Abo / Drinkard</i>	Analyst	: ROZANNE JOHNSON
Sample Pt.	: UNKNOWN <i>(old zones)</i>		

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I. =	0.7	at	60 deg.	F or	16 deg.	C
S.I. =	0.7	at	80 deg.	F or	27 deg.	C
S.I. =	0.7	at	100 deg.	F or	38 deg.	C
S.I. =	0.8	at	120 deg.	F or	49 deg.	C
S.I. =	0.8	at	140 deg.	F or	60 deg.	C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S =	1457	at	60 deg.	F or	16 deg	C
S =	1615	at	80 deg.	F or	27 deg	C
S =	1716	at	100 deg.	F or	38 deg	C
S =	1762	at	120 deg.	F or	49 deg	C
S =	1794	at	140 deg.	F or	60 deg	C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

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Hobbs, New Mexico 88241
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505 392-3759 Fax

WATER ANALYSIS REPORT

Company : MAYNE & MANTZ Date : 08-02-93
Address : Date Sampled : 07-23-93
Lease : ELLIOTT FIELD COMPAT Analysis No. : 673
Well : 50% #1 50% #2
Sample Pt. : LABMIX *Abo, Drinkard & Blinbry mixed*

ANALYSIS	mg/L	* meq/L
1. pH	6.4	
2. H2S	NR	
3. Specific Gravity	1.115	
4. Total Dissolved Solids	184916.0	
5. Suspended Solids	NR	
6. Dissolved Oxygen	NR	
7. Dissolved CO2	NR	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)	171.0	
11. Bicarbonate	HCO3 208.6	HCO3 3.4
12. Chloride	Cl 113759.4	Cl 3209.0
13. Sulfate	SO4 1050.0	SO4 21.9
14. Calcium	Ca 10132.2	Ca 505.6
15. Magnesium	Mg 3369.4	Mg 277.2
16. Sodium (calculated)	Na 56359.9	Na 2451.5
17. Iron	Fe 36.5	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO3)	39175.2	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
506 *Ca <----- *HCO3	Ca(HCO3)2	81.0	3.4	277
277 *Mg <----- *SO4	CaSO4	68.1	21.9	1488
2451 *Na <----- *Cl	CaCl2	55.5	480.3	26653
	Mg(HCO3)2	73.2		
	MgSO4	60.2		
	MgCl2	47.6	277.2	13196
	NaHCO3	84.0		
	Na2SO4	71.0		
	NaCl	58.4	2451.5	143265

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

REMARKS: KNOX SERVICES
JERRY WHITE / FILE

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Respectfully submitted,
ROZANNE JOHNSON

5/6

PETROLITE

SCALE TENDENCY REPORT

Company : MAYNE & MANTZ Date : 08-02-93
Address : Date Sampled : 07-23-93
Lease : ELLIOTT FIELD COMPAT Analysis No. : 673
Well : 50% #1 50% #2 Analyst : ROZANNE JOHNSON
Sample Pt. : LABMIX

Abo, Drinkard & Blinebry mixed

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

S.I. =	0.6	at	60 deg. F	or	16 deg. C
S.I. =	0.6	at	80 deg. F	or	27 deg. C
S.I. =	0.6	at	100 deg. F	or	38 deg. C
S.I. =	0.7	at	120 deg. F	or	49 deg. C
S.I. =	0.7	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S =	1556	at	60 deg. F	or	16 deg C
S =	1723	at	80 deg. F	or	27 deg C
S =	1831	at	100 deg. F	or	38 deg C
S =	1880	at	120 deg. F	or	49 deg C
S =	1914	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

OFFSET OPERTORS

Elliott Fields Lease

Carr Well Service
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Conoco Inc.
Petroleum Center Bldg., Ste. 115
501 Airport Drive
Farmington, NM 87401-2967

Marshall & Winston Inc.
P. O. Box 50880
Midland, TX 79710-0880
(915) 684-6373

Exxon Co., U.S.A.
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Midland, TX 79702
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Pete Mills
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Hobbs, NM 88240

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