

Roger M. Kirk
Division Administrative Manager
Production Department
Hobbs Division
North American Production

Conoco Inc.
P.O. Box 460
726 East Michigan
Hobbs, NM 88240
(505) 393-4141

October 30, 1984

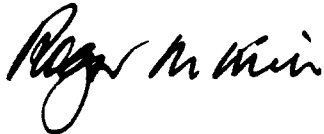
Mr. Dallas McCasland
P. O. Box 206
Eunice, NM 88231

Dear Mr. McCasland:

This is to notify you, as required by rule 701(B) of the NMOCD Rules and Regulations, that Conoco Inc. plans to convert 11 wells in the MCA Unit to Water Injection for the purpose of secondary recovery. Please see the attachment for a list of the wells to be converted.

Also attached for your information and file is a copy of our Application for Authorization to Inject to the New Mexico Oil Conservation Division.

Yours very truly,



Roger M. Kirk
Division Administrative Manager

JRL:tr

Attachments

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Conoco Inc.
Address: P. O. Box 460, Hobbs, NM 88240
Contact party: John R. Lopez Phone: 393-4141
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Roger M. Kirk Title Division Administrative Manager
Signature: *Roger M. Kirk* Date: 10-30-84
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

CONFIDENTIAL

Sent Certified
mail 11/5/84

Roger M. Kirk
Division Administrative Manager
Production Department
Hobbs Division
North American Production

Conoco Inc.
P.O. Box 460
726 East Michigan
Hobbs, NM 88240
(505) 393-4141

October 31, 1984

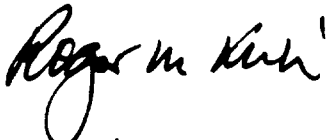
American Petrofina Company of Texas
P.O. Box 2990
Midland, TX 79702

Gentlemen:

This is to notify you, as required by rule 701(B) of the NMOCD Rules and Regulations, that Conoco Inc. plans to convert 11 wells in the MCA Unit to Water Injection for the purpose of secondary recovery. Please see the attachment for a list of the wells to be converted.

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Yours very truly,



Roger M. Kirk
Division Administrative Manager

JRL:tr

Attachments

MCA Unit Wells to be Converted to Water Injection Wells

MCA Unit No. 43	Sec.21, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.122	Sec.27, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.156	Sec.29, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.182	Sec.27, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.202	Sec.26, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.282	Sec.27, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.299	Sec.27, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.311	Sec.26, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.318	Sec.28, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.327	Sec.22, T-17S,R-32E, Lea County, New Mexico
MCA Unit No.346	Sec.27, T-17S,R-32E, Lea County, New Mexico

(CONOCO)

Sent Certified
mail 11/5/84

Donald W. Johnson
Division Manager
Production Department
Hobbs Division
North American Production

Conoco Inc.
P.O. Box 460
726 East Michigan
Hobbs, NM 88240
(505) 393-4141

November 2, 1984

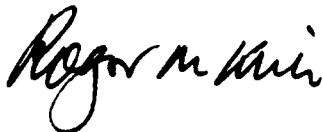
Mid-American Pipeline
Drawer 30070
Hobbs, NM 88240

Gentlemen:

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Yours very truly,



Roger M. Kirk
Division Administrative Manager

JRL:tr

Attachments

Heaving plug—Material _____ Length _____
Explosive—Material _____ Size _____

MCA Unit Well No. 182
Depth set _____
Sec. 27, T-17S, R-32E
Lea County, New Mexico

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5"		Nitroglycerine	220 qts	1-27	3892'-3950'	4070'

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from **0** feet to **4070** feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing **Gas Input Well**, 19____

The production for the first 24 hours was **no test** barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

MARSHALL & SMITH

EMPLOYEES

MARSHALL & SMITH

Johnson

Driller

Bryant

Driller

Davis

Driller

Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand
15	75	60	Red rock
75	135	60	Red rock & gray sand
135	180	45	Gray sand and shale
180	645	465	Red rock
645	655	10	Sand
655	798	143	Red rock (reduced hole @ 760')
798	815	17	Sandy shale
815	900	85	Red rock
900	1010	110	Anhydrite
1010	1055	45	Red rock & anhydrite
1055	1070	15	Red rock
1070	1085	15	Anhydrite
1085	1100	15	Red rock & anhydrite
1100	2070	970	Salt
2070	2140	70	Anhydrite
2140	2145	5	Anhydrite & salt
2145	2575	430	Anhydrite
2575	2600	25	Broken anhydrite
2600	3215	615	Anhydrite
3215	3235	20	Red sand
3235	3295	60	Anhydrite
3295	3320	25	Brown lime
3320	3330	10	Anhydrite & lime
3330	3350	20	Anhydrite
3350	3400	50	Sandy lime

(OVER)

19-17-1-1

RECEIVED

AUG 26 1985

C.D.
HOBBS CPA 'E

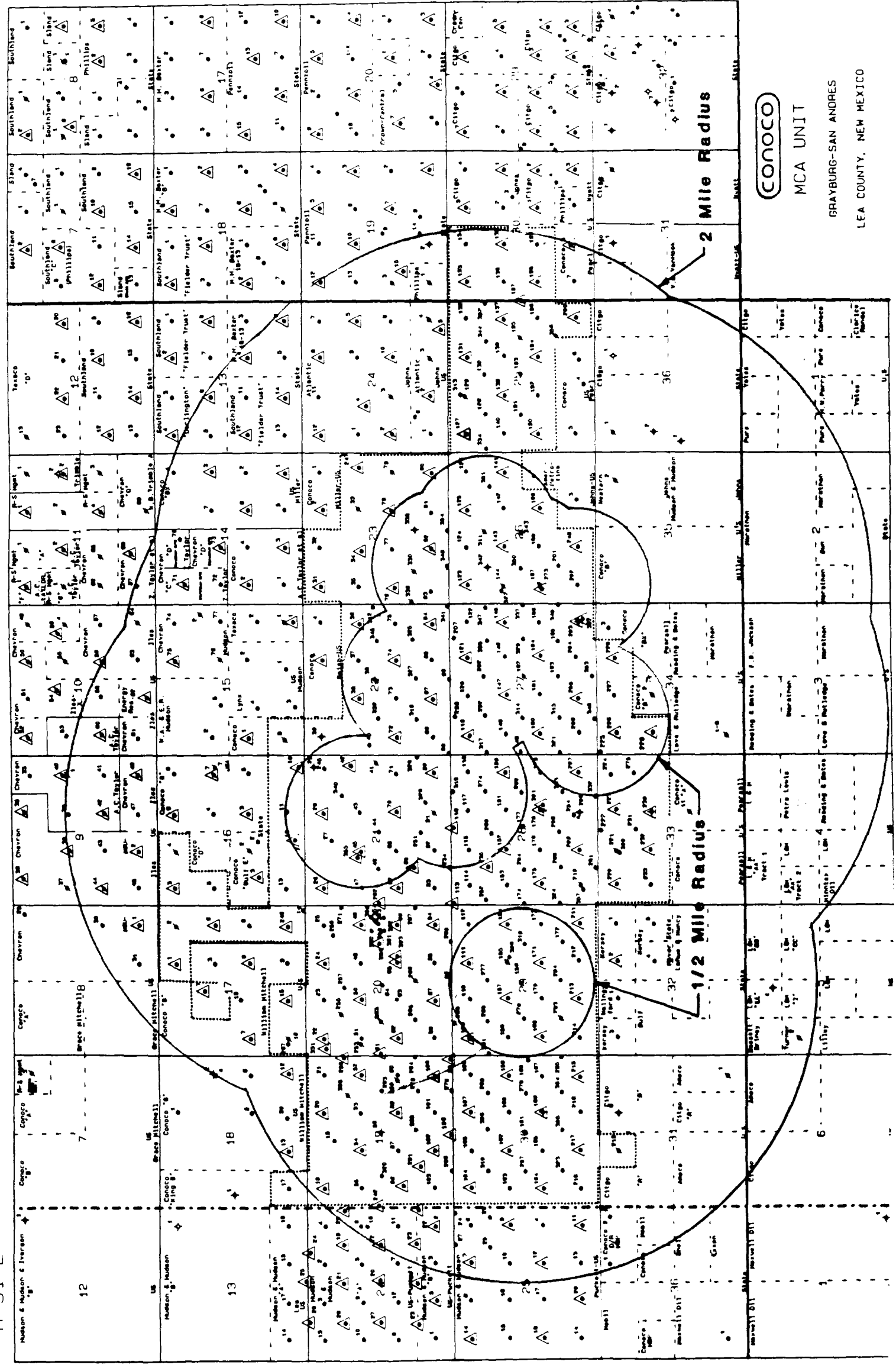
FORMATION RECORD—Continued

DEPTH	FORMATION	TOTAL FEET	FORMATION
3400	3500	10	Anhydrite
3410	3510	10	Sandy lime
3450	3555	65	Anhydrite
3515	3611	26	Sandy lime
3541	3642	21	Anhydrite
3562	3595	33	Brown lime
3595	3620	25	Brown sandy lime
3620	3635	15	Dark gray sandy lime
3635	3665	30	Dark sandy lime
3665	3673	8	Light gray sandy lime
3673	3715	42	Gray and brown lime
3715	3725	10	Sandy lime
3725	3811	86	Gray lime
3811	3882	71	White sandy lime
3882	3930	48	Light brown sand
3930	3950	20	Light sand
3950	4070	120	White lime
	4070		TOTAL DEPTH

R-33-E

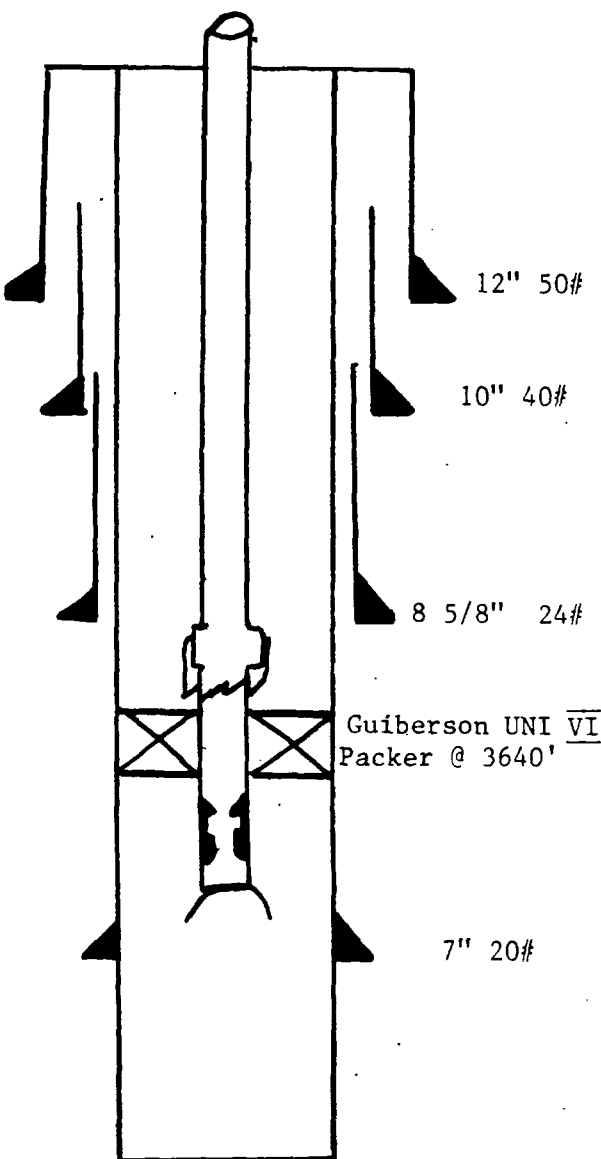
R-32-E

R-31-E



INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
OPERATOR LEASE
43 1980' FNL & 1980' FEL 21 17-S 32-E
WELL NO. PORTAGE LOCATION SECTION TOWNSHIP RANGE
Lea County, New Mexico

SchematicTabular DataSurface Casing

Size 10\"/>

Intermediate Casing

Size 8 5/8\"/>

Long string

Size 7\"/>

Injection interval

3740 feet to 4092 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8, 4, 7# lined with Plastic set in a
 (material)
Guiberson UNI VI packer at 3640 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh-San Andres
- Name of field or Pool (if applicable) Baish-Maljammar-Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
Yes. Perf 7\"/>
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates 2350, Queen 3100, Paddock 5300, ABO 8900, Wolfcamp 9700.

RECEIVED

AUG 26 1985

U.S. DEPT. OF JUSTICE
HON. J. EDGAR HOOVER

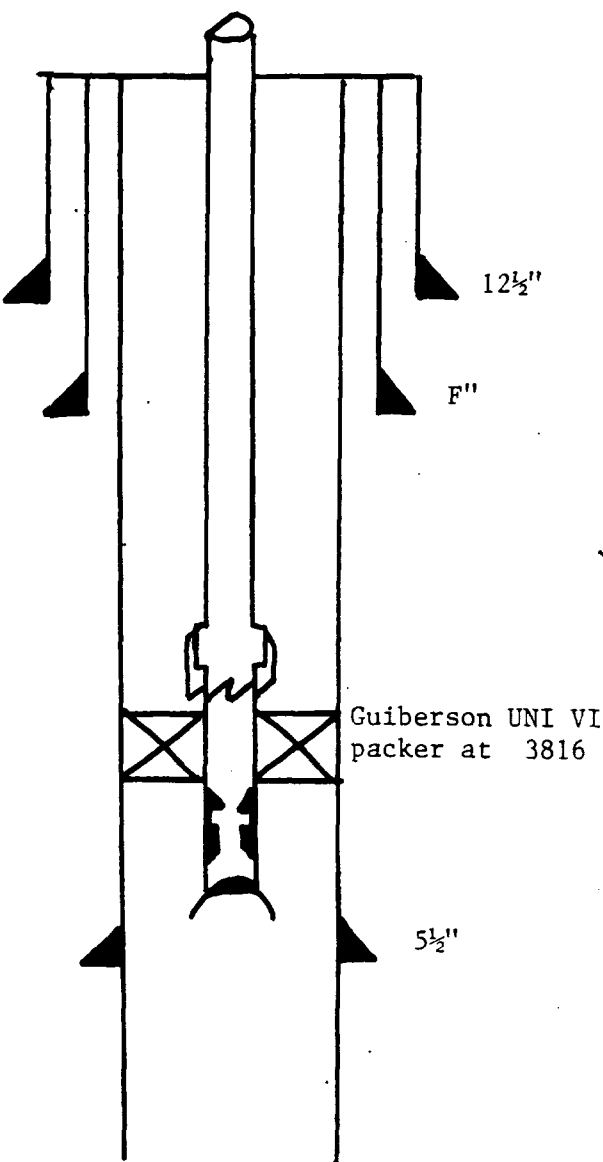
INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
OPERATOR LEASE

122 660' FNL & 660 FEL 27 17-S 32-E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Lea County, New Mexico

Schematic



Tabular Data

Surface Casing

Size 12 1/2" @ 30' " Cemented with 20 sx.
TOC surface feet determined by circ.
Hole size N/A

Intermediate Casing

Size 7" @ 2385' " Cemented with 160 sx.
TOC feet determined by
Hole size N/A

Long string

Size 5 1/2" @ 3547 " Cemented with 150 sx.
TOC 845 feet determined by Temp. Survey
Hole size N/A
Total depth 4089

Injection interval

3916 feet to 4089 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8, 4, 7# lined with Plastic set in a
(material)
Guiberson UNI VI packer at 3816 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh-San Andres
- Name of field or pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producing Oil Well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No

INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
OPERATOR LEASE
156 2580' FNL 2595' FWL 29 17-S 32-E
WELL NO. PORTAGE LOCATION SECTION TOWNSHIP RANGE
Lea County, New Mexico

SchematicTabular DataSurface Casing

Size 8 5/8" @ 939 " Cemented with 50 sx.
 TOC _____ feet determined by _____
 Hole size N/A

Intermediate Casing

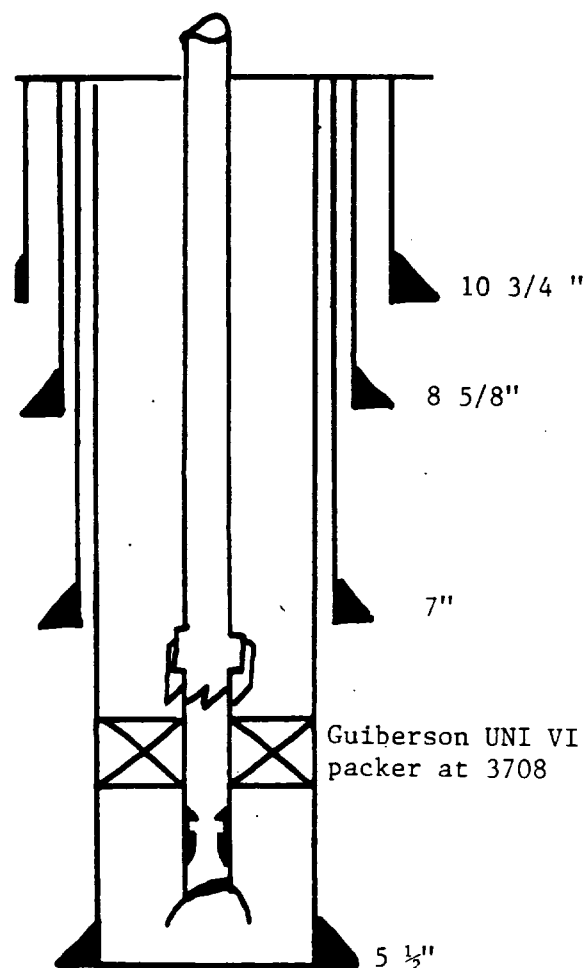
Size 7" @ 3698 " Cemented with 300 sx.
 TOC Surface feet determined by Circ.
 Hole size N/A

Long string

Size 5 1/2" @ 4050 " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size N/A
 Total depth 4050

Injection interval

3808 feet to 3921 feet
 (perforated or open-hole, indicate which)



Tubing size 2 3/8, 4, 7# lined with Plastic set in a
 (material)
Guiberson UNI VI packer at 3708 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

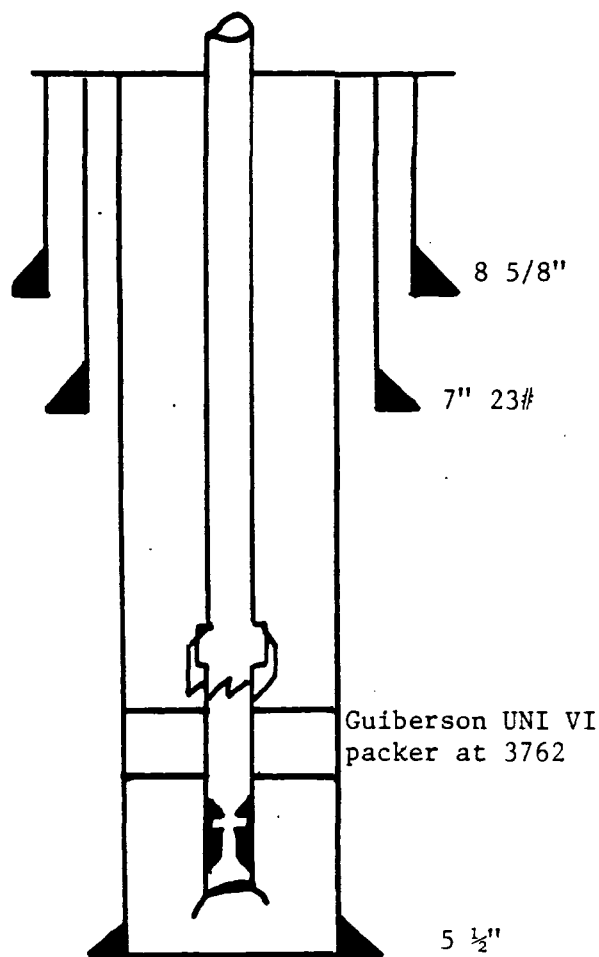
- Name of the injection formation Grayburgh - San Andres
- Name of field or pool (if applicable) Baish - Maljamar- Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
shut in 11-78
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No

INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
OPERATOR LEASE

182 2615' FSL & 2570 FEL 27 17-S 32-E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Lea County, New Mexico

SchematicTabular DataSurface Casing

Size 8 5/8" @ 1085 " Cemented with 100 sx.
TOC Surface feet determined by circ.
Hole size N/A

Intermediate Casing

Size 7" @ 3862 " Cemented with 238 sx.
TOC 772 feet determined by Temp. Survey
Hole size N/A

Long string

Size 5" @ 4077 " Cemented with sx.
TOC feet determined by
Hole size N/A
Total depth 4077

Injection Interval

3862 feet to 4077 feet
(perforated or open-hole, indicate which)

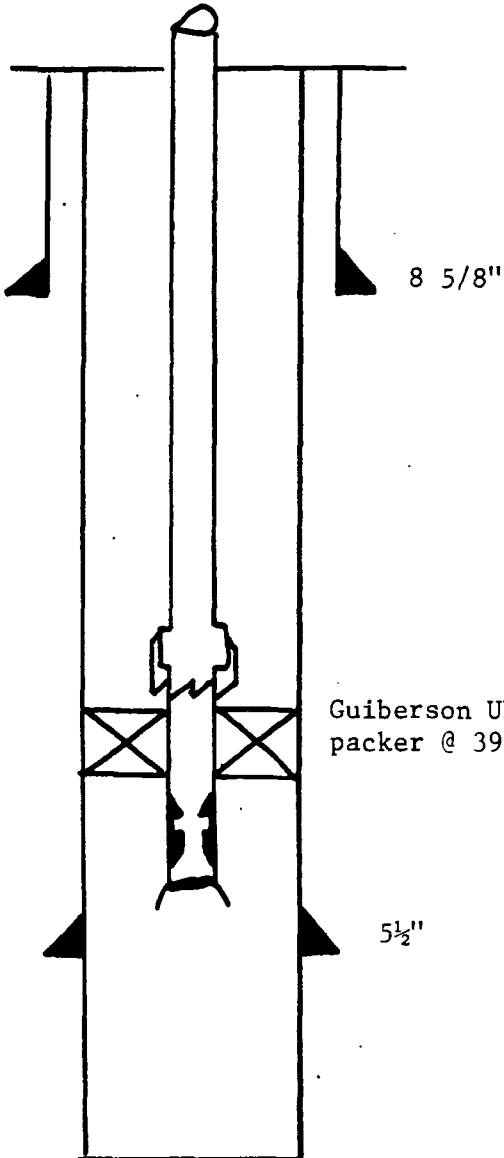
Tubing size 2 3/8", 4, 7# lined with Plastic (material) set in a
Guiberson UNI VI packer at 3762 feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of field or pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producing oil well
shut-in 6/76
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No

INJECTION WELL DATA SHEET

Operator <u>Conoco, Inc.</u>		MCA Unit		
LEASE				
202	660' FSL & 660 FWL	26	17-S	32-E
WELL NO.	PORTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Lea County, New Mexico				

SchematicTabular DataSurface Casing

Size 8 5/8" @ 22' " Cemented with 25 sx.
 TOC Surface feet determined by circ.
 Hole size N/A

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5 1/2" @ 3486 " Cemented with 100 sx.
 TOC .2400 feet determined by Temp. Survey
 Hole size N/A

Total depth 4300'

Injection interval

4020 feet to 4170 feet
 (perforated or open-hole, indicate which)

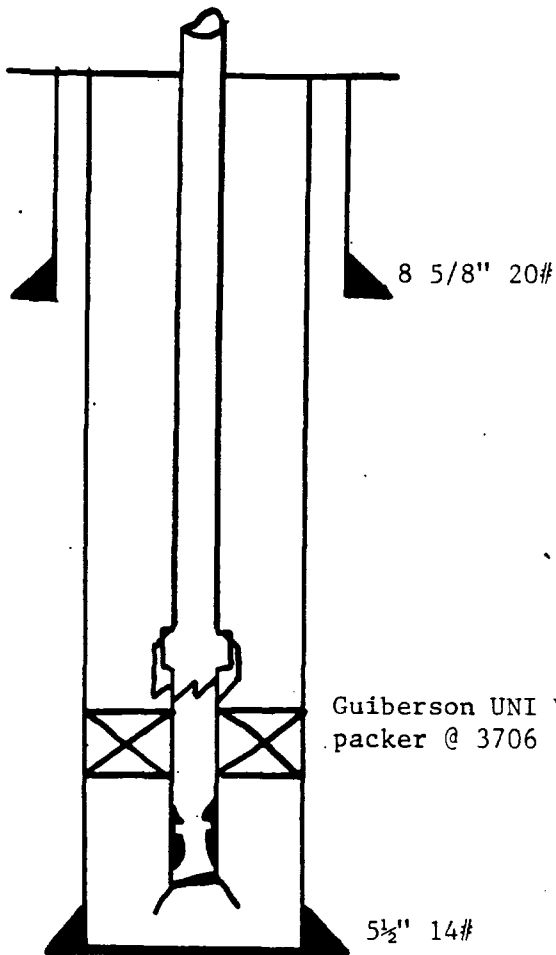
Tubing size 2 3/8, 4, 7# lined with Plastic set in a
 (material)
Guiberson UNI VI packer at 3920 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of Field or Pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing Oil Well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No

INJECTION WELL DATA SHEET

Conoco Inc.		MCA Unit		
OPERATOR		LEASE		
282	1295' FNL & 2615' FWL	27	17-S	32-E
WELL NO.	PORTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Lea County, New Mexico				

SchematicTubular DataSurface Casing

Size 8 5/8" @ 900' " Cemented with 900 sx.
 TOC Surface feet determined by circ.
 Hole size N/A

Intermediate Casing

Size 8 5/8" 20# " Cemented with sx.
 TOC feet determined by
 Hole size

Long string

Size 5 1/2 @ 4185 " Cemented with 400 sx.
 TOC 2100' feet determined by Temp. Survey
 Hole size N/A

Total depth 4185'

Injection interval

Guiberson UNI VI
 packer @ 3706 3806 feet to 4037 feet
 (perforated or open-hole, indicate which)

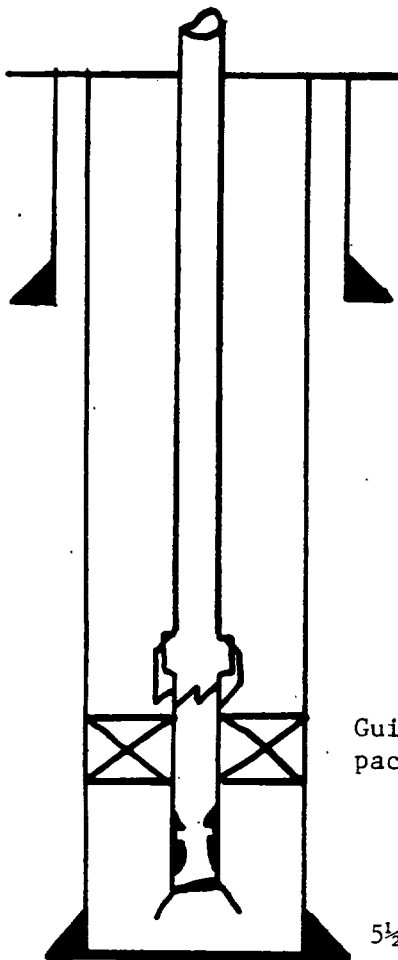
Tubing size 2 3/8, 4, 7# lined with Plastic set in a
 (material)
Guiberson UNI VI packer at 3706 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of Field or Pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Queen 3200

INJECTION WELL DATA SHEET

Conoco Inc. OPERATOR		MCA Unit LEASE	
299	175' FNL & 1295' FWL	27	17-S
WELL NO.	FOUNTAIN LOCATION	SECTION	TOWNSHIP
Lea County, New Mexico			32-E
			RANGE

Schematic

8 5/8" 20#

Guiberson UNI VI
packer @ 3765

5 1/2" 14#

Tubular DataSurface Casing

Size 8 5/8" @ 850' " Cemented with 425 sx.

TOC Surface feet determined by circ.

Hole size N/A

Intermediate Casing

Size " Cemented with sx.

TOC feet determined by

Hole size

Long string

Size 5 1/2" @ 4200' " Cemented with 300 sx.

TOC 2300 feet determined by Temp. Survey

Hole size N/A

Total depth 4200

Injection Interval3865 feet to 4130 feet
(perforated or open-hole, indicate which)

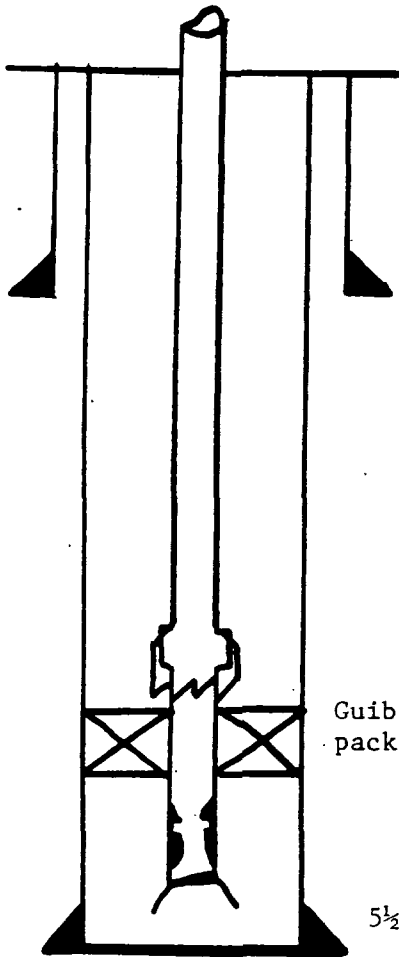
Tubing size 2 3/8. 4, 7# lined with Plastic (material) set in a
Guiberson UNI VI packer at 3765 feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of Field or Pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in thin aren. Yates 2350. Queen 3100. Paddock 5300. ABO 8900. Wolfcamp 9700

INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
 OPERATOR LEASE
 311 1295' FNL & 2615 FWL 26 17-S 32-E
 WELL NO. PORTAGE LOCATION SECTION TOWNSHIP RANGE
 Lea County, New Mexico

SchematicTubular DataSurface Casing

Size 8 5/8" @ 1000' " Cemented with 500 sx.
 TOC Surface feet determined by circ.
 Hole size N/A

Intermediate Casing

Size 8 5/8" 24# " Cemented with sx.
 TOC feet determined by
 Hole size

Long string

Size 5 1/2 @ 4325 " Cemented with 300 sx.
 TOC 2860 feet determined by Temp. Survey
 Hole size N/A
 Total depth 4325

Injection interval

Guiberson UNI VI 3979 4190
 packer @ 3879 feet to feet
 (perforated or open-hole, indicate which)

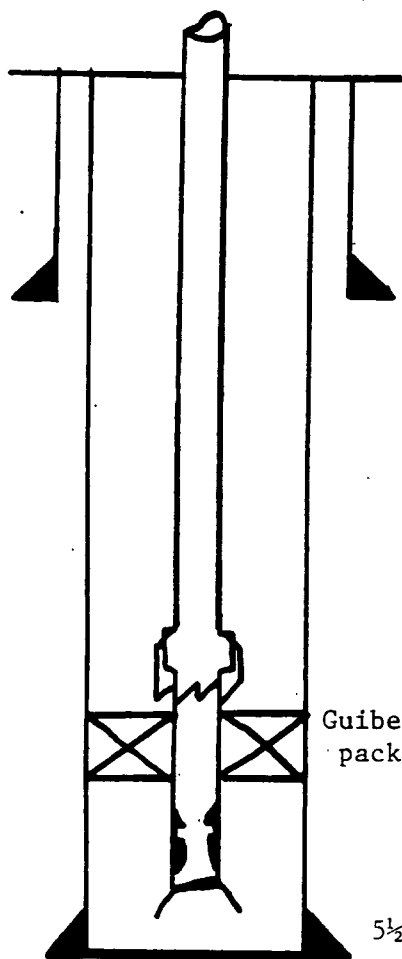
Tubing size 2 3/8, 4, 7# lined with Plastic set in a
 (material)
 Guiberson UNI VI packer at 3879 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of field or Pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
shut - in 11-28-83
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. none

INJECTION WELL DATA SHEET

Conoco Inc. MCA Unit
 OPERATOR LEASE
 318 25' FNL & 1295' FEL 28 17-S 32-E
 WELL NO. PORTAGE LOCATION SECTION TOWNSHIP RANGE
 Lea County, New Mexico

SchematicTabular DataSurface Casing

Size 8 5/8 @ 888' " Cemented with 450 sx.

TOC Surface feet determined by circ.

Hole size N/A

Intermediate Casing

Size " Cemented with sx.

TOC feet determined by

Hole size

Long string

Size 5 1/2 @ 4200 " Cemented with 300 sx.

TOC 2540 feet determined by Temp. Survey

Hole size N/A

Total depth 4200'

Injection interval

3809 feet to 4099 feet
(perforated or open-hole, indicate which)

Guiberson UNI VI
packer @ 3709'

5 1/2" 14#

Tubing size 2 3/8. 4, 7# lined with Plastic set in a
(material)

Guiberson UNI VI packer at 3709 feet
(brand and model)

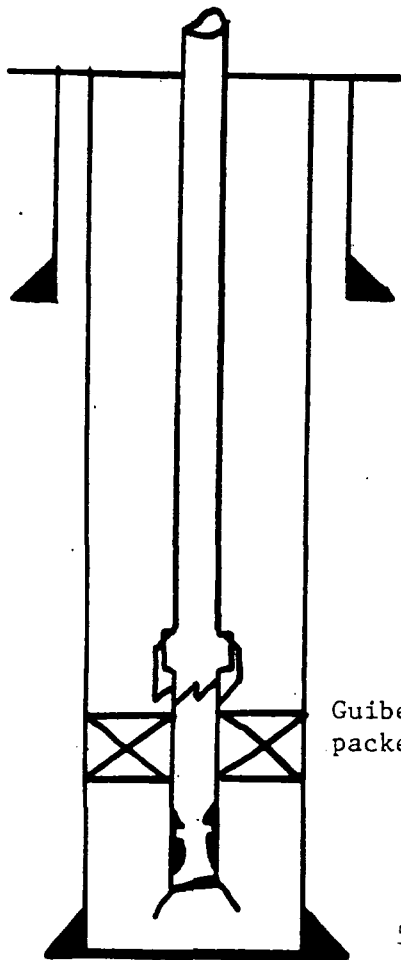
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of field or Pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates 2350, Queen 3100, Paddock 5300, ABO 8800, Wolfcamp 9700

INJECTION WELL DATA SHEET

Conoco Inc.		MCA Unit		
OPERATOR		LEASE		
327	1225' FSL & 2615 FEL	22	17-S	32-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Lea County, New Mexico				

Schematic

Guiberson UNI VI
packer @ 3704

5½" 14#

Tubular DataSurface Casing

Size 8 5/8 @ 850' " Cemented with 425 sx.

TOC Surface feet determined by circ.

Hole size N/A

Intermediate Casing

Size " Cemented with sx.

TOC feet determined by

Hole size

Long string

Size 5½ @ 4200' " Cemented with 475 sx.

TOC 1770 feet determined by Temp. Survey

Hole size 4200'

Total depth

Injection interval

3804 feet to 3953 feet
(perforated or open-hole, indicate which)

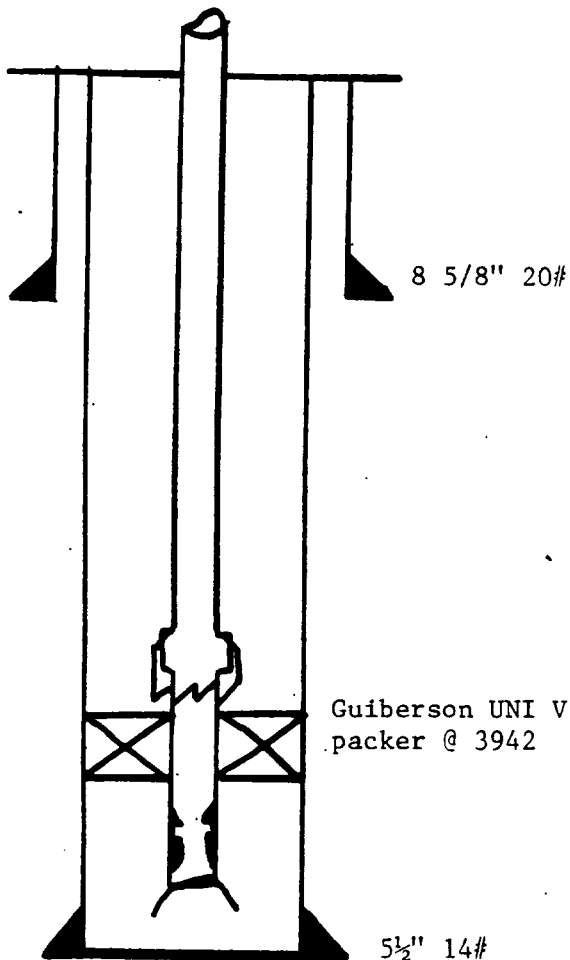
Tubing size 2 3/8. 4, 7# lined with Plastic set in a
(material)
Guiberson UNI VI packer at 3704 feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of field or pool (if applicable) Baish - Maljamar - Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates 2350, Queen 3100, Paddock 5300, ABO 8800, Wolfcamp 9700

INJECTION WELL DATA SHEET

Conoco Inc.		MCA Unit	
OPERATOR	LEASE		
346	55' FSL & 1200' FWL	27	17-S 32-E
WELL NO.	FOUNTAIN LOCATION	SECTION	TOWNSHIP RANGE
Lea County, New Mexico			

SchematicTabular DataSurface Casing

Size 8 5/8 @ 1010' Cemented with 300 sx.
 TOC Surface feet determined by circ.
 Hole size N/A

Intermediate Casing

Size _____ Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5 1/2 @ 4425 Cemented with 350 sx.
 TOC 2525 feet determined by Temp. Survey
 Hole size N/A

Total depth 4425

Injection interval

4042 feet to 4267 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8", 4, 7# lined with Plastic set in a
 (material)
Guiberson UNI VI packer at 3942 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburgh - San Andres
- Name of Field or Pool (if applicable) Baish Maljamar- Pearsall
- Is this a new well drilled for injection? ☒ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Queen 3400

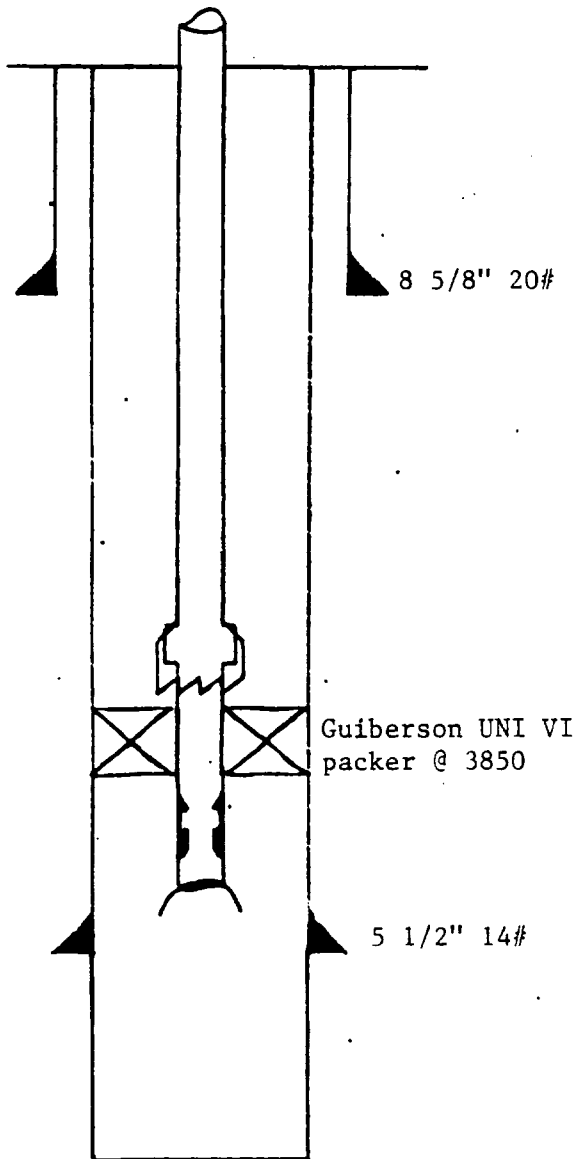
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INJECTION WELL DATA SHEET

Conoco Inc.		MCA Unit		
OPERATOR		LEASE		
349	75' FSL & 1295' FWL	23	T-17S	R-32E
WELL NO.	FOUNTAIN LOCATION	SECTION	TOWNSHIP	RANGE
Lea County, New Mexico				

SchematicTabular DataSurface Casing

Size 8 5/8 @ 860' Cemented with 500 ex.
 TOC Surface feet determined by circ.
 Hole size 12 1/4"

Intermediate Casing

Size _____ Cemented with _____ ex.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5 1/2 @ 4250' Cemented with 225 ex.
 TOC 2903 feet determined by Temp. Survey
 Hole size N/A
 Total depth 4250

Injection interval

3959 feet to 4120 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8", 4.7# lined with plastic set in a
 (material)
Guiberson UNI VI packer at 3850 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Grayburg-San Andres
- Name of field or pool (if applicable) Baish-Maljamar-Pearsall
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates-2350; Queen-3100'; Paddock-5300'; Abo-8800'; Wolfcamp-9700'

INJECTION WELL DATA SHEET

Conoco Inc.

MCA Unit

OPERATION

LEASE

350

2615' FSL & 1295' FWL

26

T-17S

R-32E

WELL NO.

FOUNTAIN LOCATION

SECTION

TOWNSHIP

RANGE

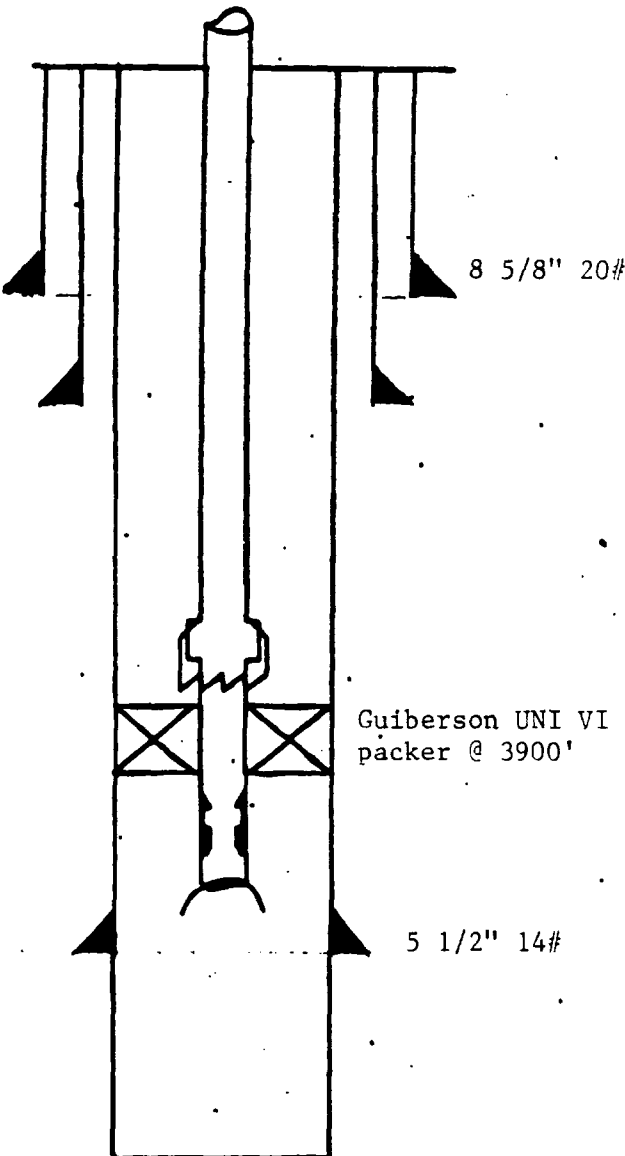
Lea County, New Mexico

SchematicTabular DataSurface CasingSize 8 5/8 @ 920 Cemented with 510 ex.TOC Surface feet determined by circ.Hole size 12 1/4"Intermediate Casing

Size _____ Cemented with _____ ex.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 5 1/4 @ 4350 Cemented with 325 ex.TOC 2500' feet determined by Temp. SurveyHole size 7 5/8"Total depth 4350'Injection interval4024 feet to 4244 feet
(perforated or open-hole, indicate which)Tubing size 2 3/8\" 4.7# lined with plastic (material) set in aGuiberson UNI VI packer at 3900 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Grayburg-San Andres2. Name of field or Pool (if applicable) Baish-Maliamar-Pearsall3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? Producing oil well4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used) NO5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates-2350; Queen-3100; Paddock-5300; Abo-8800; Wolfcamp-9700

MCA Unit No.	Type	Prod/Inj Interval	Size	Casing		Cement		Date Drilled	Location	TD/PBD	Record of Completion
				Depth	Sacks	TOC					
*156	SI	3808' - 3921'	10-3/4" 8-5/8" 7"	58' 939' 3698"	50 50 300	N/A		01/07/49	2580' FNL & 2595' FWL, Sec. 29, T17S, R32E	4050'	04/10/49
158	Oil	3740' - 3765'	8-5/8" 7"	903' 3447'	50 100		2147'	06/21/46	1980' FNL & 660' FWL, Sec. 29, T17S, R32E	3992'	06/27/46
169	Inj.	3773' - 3900'	8-5/8" 7" 4-1/2"	990 3488' 3735'	50 100 325		3500'	02/11/41	1980' FSL & 660' FWL, Sec. 29, T17S, R32E	4080'	04/13/41
290	Oil	3724' - 4028'	8-5/8" 5-1/2"	770' 4080'	425 400		3500'	07/05/71	1295' FNL & 1295' FWL, Sec. 29, T17S, R32E	4080'/4073'	08/02/71
270	Oil	3747' - 3993'	8-5/8" 5-1/2"	740' 4130'	375 350		2100'	02/13/71	2615' FNL & 1345' FWL, Sec. 29, T17S, R32E	4030'/4102'	03/03/71
293	Oil	3844' - 4104'	8-5/8" 5-1/2"	825' 4185'	400 300		2280'	05/08/71	1345' FSL & 1345' FWL, Sec. 29, T17S, R32E	4185'	05/26/71
110	Oil	3711' - 3738'	8-5/8" 7"	920' 3479'	50 100		2100'	07/16/40	660' FNL & 1980' FEL, Sec. 29, T17S, R32E	4028'	09/20/40
157	Inj.	3725' - 4003'	8-5/8" 7" 4-1/2"	910' 3492' 4012'	50 100		2192'	08/13/40	1980' FNL & FWL, Sec. 29, T17S, R32E	4031'	09/30/40

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
170	Oil	3803' - 3930'	8-5/8" 7"	990' 3482'	50 100	2000'	12/10/40	1980' FSL & 1980' FWL, Sec. 29, T17S, R32E	4046'	02/02/41
213	Inj.	3880' - 4010'	8" 7" 4-1/2"	1067' 3547' 3839'	50 100 225	1200'	08/09/41	660' FSL & FWL, Sec. 29, T17S, R32E	4170'	10/06/41
96	Oil	3722' - 3753'	10-3/4" 5-1/2"	60' 3653'	50 250	1850'	10/15/48	25' FSL & 2590' FWL, Sec. 20, T17S, R32E	4048'	01-10-49
277	Oil	3745' - 4033'	8-5/8" 5-1/2"	750' 4083'	375 300	2450'	03/27/71	1295' FNL & 2615' FWL, Sec. 29, T17S, R32E	4083'/4080'	04/17/71
294	Oil	3856' - 3990'	8-5/8" 5-1/2"	900' 4147'	500 300	2200'	07/21/71	1345' FSL & 2615' FWL, Sec. 29, T17S, R32E	4150'/4125'	08/02/71
111	Inj.	3724' - 3761'	8-5/8" 7" 4-1/2"	1922' 3541' 3660'	100 150 300	1600'	12/01/39	660' FNL & 1980' FEL, Sec. 29, T17S, R32E	4070'	01/30/40
155	Oil SI	3736' - 3780'	8-5/8" 7"	880' 3539'	50 150	1589'	03/03/40	1980' FNL & FEL, Sec. 29, T17S, R32E	4015'	05/04/40
171	Inj.	3806' - 3940'	8" 7" 4-1/2"	1010' 3505' 3784'	50 100 300	500'	02/20/41	1980' FSL & FEL, Sec. 29, T17S, R32E	4140'	05/03/41
212	Oil	3845' - 3990'	8-5/8" 7" 5"	1255' 3525' 3794'	50 100 275	2000'	07/07/41	660' FSL & 1980' FEL, Sec. 29, T17S, R32E	4070'	08/28/41

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PRD	Record of Completion
			Size	Depth	Sacks	TOC				
308	Oil	3739' - 4049'	8-5/8" 5-1/2"	784' 4100'	400 300	2540'	04-13-72	1980' FNL & 1780' FEL, Sec. 29, T17S, R32E	4100'/4075'	05-09-72
319	Oil	3785' - 4031'	8-5/8" 5-1/2"	800' 4125'	400 350	2100'	07/30/72	2615' FNL & 1345' FEL, Sec. 29, T17S, R32E	4125'/4075'	08/21/72
172	Oil	3846' - 3988'	10-3/4" 8-5/8" 7"	58' 511-1025' 3565'	50 50 100	2000'	07/08/49	1295' FSL & 1345' FEL, Sec. 29, T17S, R32E	4050'	09/08/49
154	Inj.	3750' - 3805'	8-5/8" 7" 4-1/2"	860' 3560' 3703'	50 100 300	2400'	06/07/40	1980' FNL & 666' FEL, Sec. 29, T17S, R32E	4082'/4082'	08/02/40
173	Oil	3770' - 3917'	8-5/8" 7"	992' 3535'	50 100	2235'	12/02/40	1980' FSL & 660' FEL, Sec. 29, T17S, R32E	4250'/4020'	02/15/41
*43	Oil	3740' - 4092'	12" 10" 8-5/8" 7"	834' 1870-2270 2237-2408 3645'	25 25 50 101	1800'	10/26/35	1980' FNL & 1980' FEL, Sec. 21, T17S, R32E	4119'/4018'	12/08/35
355	Inj.	3716' - 3738'	13-3/8" 9-5/8" 5-1/2"	179' 4198' 4162'- 11,813'	160 3370 1850	4860'	11/01/54	1780' FNL & FWL, Sec. 21, T17S, R32E	12,780'/4094'	04/19/54

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
45	Inj.	3751' - 3807' 3974' - 3948'	10-3/4" 8-5/8" 7"	2301' 3050' 3821'	300 78 80		10/22/36	1980' FNL & FWL, Sec. 21, T17S, R32E	4181'	12/12/36
69	Oil	3945' - 4131'	8-5/8" 5-1/2"	868' 3610'	50 150	1900'	01/03/45	1980' FSL & 1980' FWL, Sec. 21, T17S, R32E	4136'	01/14/45
12	Inj.	3495' - 3733'	8-1/2" 7" 2-3/8"	842 3605' 3505'	100	2305'	12/18/41	330' FSL & 2310' FWL, Sec. 16, T17S, R32E	4122'/4000'	02/13/41
27	Oil	3784' - 3816'	8-5/8" 7"	2833' 3826'	375 N/R	2900'	03/30/30	990' FNL & 2310' FWL, Sec. 21, T17S, R32E	4169'	07/03/30
44	Oil	3750' - 3875'	8-5/8" 7"	880' 3814'	65 200	1900'	08/31/46	2615' FNL & 2615' FWL, Sec. 21, T17S, R32E	4124'/4050'	11/19/46
251	Oil	3778' - 4170'	8-5/8" 5-1/2"	825 4250'	575 350	2500'	01/19/70	1100' FSL & 2600' FWL, Sec. 21, T17S, R32E	4250'	02/27/70
11	Oil	3930' - 4070'	12-1/2" 7"	42' 3635'	25 570	2200'		1980' FEL & 660' FSL, Sec. 16, T17S, R32E	4125'/4100'	
28	Inj.	3726' - 4090'	12-1/2" 8-5/8" 4-1/2"	800' 2996' 4117'	20 140 200	2900'	07/22/29	660' FNL & 1980' FEL, Sec. 21, T17S, R32E	4117'	10/31/29

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
70	Inj.	3757' - 4136'	12-1/2" 10" 7"	870' 2286' 3757'	NC 300 100		05/12/45	1980' FSL & FEL, Sec. 21, T17S, R32E	4144'	05/17/45
328	Oi1	3761' - 4010'	8-5/8" 5-1/2"	850' 4200'	425 300	2800'	10/14/72	950' FSL & 1650' FEL, Sec. 21, T17S, R32E	4200'/4050'	10/29/72
340	Oi1	3771' - 3893'	8-5/8" 5-1/2"	851' 4175'	425 375	2550'	07/07/73	1345' FNL & 1345' FEL, Sec. 21, T17S, R32E	4175'/4039'	08/17/73
245	Oi1	3894' - 4127.5'	8-5/8" 5-1/2"	891' 4130'	500 475	1800'	07/20/68	660' FNL & 500' FEL, Sec. 21, T17S, R32E	4130'	08/28/68
42	Inj.	4070' - 4090'	12" 8-5/8" 7" 4-1/2"	843' 2950' 3555' 3700'	NC 20 300		09/24/34	1650' FNL & 330' FEL, Sec. 21, T17S, R32E	4135'/4085'	01/17/35
46	Oi1	3730' - 3955'	10-3/4" 7" 5" TOL 3605'	55' 3647' 4080'	50 250	1900'	10/13/48	2615' FNL & 1295' FWL, Sec. 21, T17S, R32E	4120'	01/17/49
92	Oi1	3869' - 4082'	8-5/8" 7"	888' 3552'	50 150	2000'	02/22/46	660' FSL & 1980' FWL, Sec. 21, T17S, R32E	4082'	02/23/46

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PRD	Record of Completion
			Size	Depth	Sacks	TOC				
115	Oil	3740' - 4070'	8-1/4" 7"	902' 3552'	50 125	2000'	09/20/45	660' FNL & 2010' FWL, Sec. 28, T17S, R32E		09/28/45
116	Inj.	3775' - 3823'	10-3/4" 7"	308' 3735'	119 570	1025'	11/21/49	75 FNL & 2560' FEL, Sec. 28, T17S, R32E	4119'	12/20/49
260	Oil	3778' - 4088'	8-5/8" 5-1/2"	820' 4110'	350 250	2500'	08/05/70	1410' FNL & 2550' FWL, Sec. 28, T17S, R32E	4110'/4110'	08/23/70
91	Oil-St	2345' - 3130'	8-5/8" 7"	889' 3573'	50 150	1623'	10/07/40	660' FSL & 1980' FEL, Sec. 21, T17S, R32E	3530'	12/17/40
117	Oil	3744' - 4115'	12-1/2" 5-1/2" 4"	31 3552' 3663'	15 200 200	2000'	02/02/44	660' FNL & 1980' FEL, Sec. 28, T17S, R32E	4140'	02/12/44
151	Oil	3770' - 4106'	12-1/2" 5-1/2"	20' 3555'	14 300	2200'	07/31/40	1980' FNL & 1980' FEL, Sec. 28, T17S, R32E	4112'	09/02/40
*318	Oil	3809' - 4099'	8-5/8" 5-1/2"	888' 4200'	450 300	2540'	07/22/72	25' FNL & 1295' FEL, Sec. 28, T17S, R32E	4200'/4152'	08/24/72
274	Oil	3783' - 4098'	8-5/8" 5-1/2"	900 4190'	375 300	2000'	03/18/71	1295' FNL & 1295' FEL, Sec. 28, T17S, R32E	4190'/4146'	04/01/71

WELLS IN AREA OF REVIEW - MCA UNIT

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
280	Oil	3810' - 4080'	8-5/8" 5-1/2"	905' 4175'	450 300	2680'		2565' FNL & 1345' FEL, Sec. 28, T17S, R32E	4175'/4130'	
29	P&A	3775' - 4020'	20" 15-1/2" 12-1/2" 8-5/8" 6-5/8"	20' 321' 821' 3003' 3590'	NC		11/04/25	250' FNL & 250' FEL, Sec. 21, T17S, R32E	4140'/3836'	07/16/26
41	SI	3755' - 3900'	10-3/4" 8-5/8" 5-1/2"	74' 842' 3719'	60 425	1273'	11/28/51	2530' FNL & 215' FEL, Sec. 21, T17S, R32E	4160'	02/23/52
71	Oil	3770' - 4015'	8-5/8" 5-1/2"	970' 3635'	50 150	2500'	11/12/45	1980' FSL & 660' FEL, Sec. 21, T17S, R32E	4145'/4073'	11/12/45
326	Oil	3819' - 4153'	8-5/8" 5-1/2"	900' 4250'	450 300	2111'	10/06/72	50' FEL & 1245' FSL, Sec. 21, T17S, R32E	4250'/4192'	10/24/72
90	Inj.	3930' - 4124'	12-1/2" 7" 4-1/2"	20' 3590' 3890'	25 450 275	2400'	10/28/40	660' FSL & FEL, Sec. 21, T17S, R32E	4154'	12/20/40
118	Oil	3874' - 4125'	12-1/2" 5-1/2"	23' 3548'	15 200	2300'	10/07/45	660' FNL & 660' FEL, Sec. 28, T17S, R32E	4125'	10/21/45

MGA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/P BD	Record of Completion
			Size	Depth	Sacks	TOC				
150	Inj.	3708' - 4103'	12-1/2" 5-1/2" 4-1/2"	21' 3545' 3793'	15 300 125	2127'	08/12/40	1980' FNL & 660' FEL, Sec. 28, T17S, R32E	4150'	09/24/40
207	Inj.	3853' - 4094'	12-1/2" 5-1/2" 4-1/2"	21' 3586' 3858'	15 300 130	50'	03/30/45	660' FSL & 660' FEL, Sec. 28, T17S, R32E	4125'	04/02/46
224	Oil	3900' - 4170'	8-5/8" 5-1/2"	24' 3547'	15 150	290'	01/07/41	560' FNL & 660' FEL, Sec. 33, T17S, R32E	4209'	02/15/41
275	Oil	3947' - 4149'	8-5/8" 5-1/2"	1005' 4230'	500 300	2540'	04/03/71	1345' FNL & 660' FEL, Sec. 33, T17S, R32E	4230'/4196'	04/18/71
89	Oil	3820' - 3870'	8-5/8" 7"	948' 3746'	75 160	2000'	10/09/46	25' FSL & 50' FWL, Sec. 22, T17S, R32E	4160'	08/22/47
317	Oil	3814' - 4110'	8-5/8" 5-1/2"	884' 4200'	450 300	2100'	07/12/72	1295' FNL & 75' FWL, Sec. 27, T17S, R32E	4200'/4175'	07/30/72
149	Oil	3852' - 4040'	8-5/8" 7"	1020' 3827'	100 175	2000'	11/18/46	2600' FNL & 25' FWL, Sec. 27, T17S, R32E	4088'	01/30/47
327	Oil	3909' - 4102'	8-5/8" 5-1/2"	926' 4175'	450 300	1600'	11/14/72	1345' FSL & 75' FWL, Sec. 27, T17S, R32E	4175'/4145'	12/01/72

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MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/P BD	Record of Completion
			Size	Depth	Sacks	TOC				
225	Oil	4009' - 4098'	8-5/8"	1144' 7"	1675'	08/15/46	25' FNL & 25' FWL, Sec. 34, T17S, R32E	4139'	10/16/46	
40	Oil	3714' - 3900' 3946' - 4070'	10-3/4"	80'	95	06/15/52	2310' FNL & 330' FWL, Sec. 22, T17S, R32E	4100'	07/19/52	
			7"	2289'	125					1500'
			5" lnc	2167'-						
				4084'	120					
72	Inj.	4070' - 4095'	8-5/8"	942'	50	01/23/42	1980' FSL & 660' FWL, Sec. 22, T17S, R32E	4102'	04/01/42	
			7"	3625'	150					2500'
			4-1/2" lnc	3414-372'	50					3414-372'
88	Oil	3916' - 4145'	12-1/2"	29' 7"	25 450	04/17/45	660' FSL & 660' FWL, Sec. 22, T17S, R32E	4145'	04/30/45	
119	Inj.	3894' - 4150'	12-1/2"	23' 5-1/2"	25 200	09/09/45	660' FNL & FWL, Sec. 27, T17S, R32E	4150'	10/02/45	
148	Oil	3830' - 4034'	12-1/2"	20' 5-1/2"	23 250	03/18/40	1980' FNL & 660' FWL, Sec. 27, T17S, R32E	4140'	04/29/40	
180	Inj.	3860' - 4081'	8-5/8"	288' 5-1/2"	50 250	07/17/40	1980' FSL & 660' FWL, Sec. 27, T17S, R32E	4170'	09/14/40	
			4-1/2"	3822'	300'					

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
206	Oil	3705' - 4003'	8-5/8" 5-1/2" 4-1/2"	294' 3592' 3615'	50 250 125		2000'	06/27/49	660' FSL & 660' FWL, Sec. 27, T17S, R32E	4073' 06/29/49
226	Inj.	3940' - 4194'	8-5/8" 7" 4-1/2"	1154' 3545' 3907'	100 150	1600'	02/25/41	660' FNL & FWL, Sec. 34, T17S, R32E	4286'/4253'	04/22/41
229	Inj.	3650' - 4250'	8" 5-1/2" 4-1/2"	15' 1000' 4170'	15 500 250	3700'	07/29/44	1980' FNL & 660' FWL, Sec. 34, T17S, R32E	4440'	08/01/44
338	Oil	3708' - 4088'	8-5/8" 5-1/2"	846' 4150'	425 450	1950'	03/10/73	2615' FSL & 1295' FWL, Sec. 22, T17S, R32E	4150'/4109'	03/25/73
316	Oil	3816' - 4132'	8-5/8" 5-1/2"	883' 4200'	450 300	2600'	07/13/72	1295' FSL & 1295' FWL, Sec. 22, T17S, R32E	4200'/4152'	07/22/72
292	Oil	3850' - 4161'	8-5/8" 5-1/2"	916' 4200'	475 300	2675'	01/06/71	1295' FNL & 1295' FWL, Sec. 27, T17S, R32E	4200'/4180'	11/25/71
314	Oil	3832' - 4035'	8-5/8" 5-1/2"	946' 4250'	500 300	2100'	06/01/72	2615' FNL & 1295' FWL Sec. 27, T17S, R32E	4250'/4250'	06/18/72
315	Oil	3962' - 4190'	8-5/8" 5-1/2"	995' 4260'	475 300	2140'	06/08/72	1345' FSL & 1295' FWL, Sec. 27, T17S, R32E	4260'/4249'	06/30/72

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MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
*346	Oil	4042' - 4267'	8-5/8" 5-1/2"	1010' 4425'	300 350	2525'	09/07/73	55' FSL & 1200' FWL, Sec. 27, T17S, R32E	4925'/4393'	09/27/73
39	Inj.	3590' - 4070'	8-5/8" 7"	815' 3568'	50 150	1618'	06/19/44	1980' FNL & FWL, Sec. 22, T17S, R32E	4090'	09/13/44
73	Oil	3719' - 4108'	8-5/8" 7" 5-1/2"	958' 3456' 3565'	50 150 250	1900'	02/25/44	1980' FSL & 1980' FWL, Sec. 22, T17S, R32E	4112'	05/20/44
87	Inj.	3844' - 4090'	12-1/2" 7" 4-1/2"	25' 3606' 3777'	25 250 275	2880'	08/19/44	660' NSL & 1980' EWL, Sec. 22, T17S, R32E	4145'	08/31/44
120	Oil	3850' - 3950'	12-1/2" 5-1/2"	21 3536'	14 250	2500'	12/08/43	660' FNL & 1980' FWL, Sec. 27, T17S, R32E	4152'/4119'	01/01/49
147	Inj.	3830' - 4100'	12-1/2" 5-1/2"	20' 3543'	25 250	2100'	05/19/42	1980' FNL & 1980' FWL, Sec. 27, T17S, R32E	4150'	06/08/42
181	Oil	3935' - 4086'	12-1/2" 5-1/2"	21' 3582'	25 200	2600'	03/26/50	1980' FSL & 1980' FWL, Sec. 27, T17S, R32E	4094'	03/27/50
205	Inj.	3983' - 4083'	8-5/8" 5-1/2"	307' 3510'	50 250	1728'	10/20/40	660' FSL & 1980' FWL, Sec. 27, T17S, R32E	4230'/4147'	12/02/40
227	Oil	4045' - 4150'	8-5/8" 7"	1135' 3743'	50 100	2443'	06/15/41	660' FNL & 1980' FSL, Sec. 34, T17S, R32E	4171'	08/13/41

WELLS IN AREA OF REVIEW - MCA UNIT

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
38	PA	3782' - 3867'	8-5/8" 7"	898' 3699'	50 150	1820'		2555' FNL & 2615' FWL, Sec. 22, T17S, R32E	4102'/3472'	
			5-1/2"	3679-3904'	20					
*327	Oil	3804' - 3953'	8-5/8" 5-1/2"	850 4200'	425 475	1770'	11/14/72	1225' FSL & 2615' FEL, Sec. 22, T17S, R32E	4200'/4164'	12/01/72
86	Oil	3801' - 3970'	8-5/8" 5-1/2"	143' 4099'	100 710	2000'	12/01/55	25' FSL & 2612' FWL, Sec. 22, T17S, R32E	4100'/4039'	12/18/55
*282	Oil	3806' - 4037'	8-5/8" 5-1/2"	900' 4185'	900 400	2100'	08/04/71	1295' FNL & 2615' FWL, Sec. 27, T17S, R32E	4185'/4136'	08/23/71
*182	SI	3862' - 4077'	8-5/8" 7"	1085' 3862'	100 238	772'	11/19/47	2615' FSL & 2570' FEL, Sec. 27, T17S, R32E	4077'	01/25/48
183	Oil	3990' - 4075'	8-5/8" 7"	32' 3733'	100 250	2000'	12/13/47	1295' FSL & 2615' FEL, Sec. 27, T17S, R32E	4205'	12/19/48
			5"	3000-3741'						
353	Oil	4048' - 4241'	8-5/8" 5-1/2"	980' 4350'	550 450	2440'	11/08/73	175' FSL & 2615' FWL, Sec. 27, T17S, R32E	4300'/4300'	12/02/73
37	Oil	3677' - 4107'	8-5/8" 7"	933' 3635'	50 150	1685'	06/12/44	1980' FNL & 1980' FEL, Sec. 22, T17S, R32E	4139'/4118'	08/11/44
74	Inj.	3740' - 4104'	12-1/2" 7" 4-1/2"	25' 3596' 3715'	25 250 325	1000'	05/22/40	1980' FSL & 1980' FEL, Sec. 22, T17S, R32E	4112'	07/10/40

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
85	Oil	3940' - 4093'	12-1/2"	20'	20	2600'	02/23/40	660' FSL & 1980' FEL, Sec. 22, T17S, R32E	4093'	04/10/40
			7"	3535'	400	2600'				
121	Inj.	3855' - 4073'	13-1/4"	21'	20	2690'	01/20/40	660' FWL & 1980' FEL, Sec. 27, T17S, R32E	4099'/4088'	03/12/40
			7"	20'	400	2690'				
146	Oil	3815' - 3885'	12-1/2"	21'	15	2300'	01/05/46	1980' FNL & 1980' FEL, Sec. 27, T17S, R32E	4100'	01/12/46
			5-1/2"	3529'	250	2300'				
184	Inj.	3849' - 4046'	12-1/2"	20'	25	2378'	12/23/47	1980' FSL & 1980' FEL, Sec. 27, T17S, R32E	4180'	12/23/47
			5-1/2"	3566'	250	2378'				
			4-1/2"	3835'						
204	Oil	4044' - 4125'	10-1/2"	30'	25	2600'	05/20/40	660' FSL & 1980' FEL, Sec. 27, T17S, R32E	4270'	07/13/40
			5-1/2"	3552'	200	2600'				
228	Inj.	3969' - 4349'	8-5/8"	221'			04/04/41	660' FNL & 1980' FEL, Sec. 34, T17S, R32E	4350'	05/09/41
			5-1/2"	3545'						
			4-1/2"	3950'	200					
345	Oil	3782' - 4036'	8-5/8"	870'	450		08/29/73	2515' FSL & 1345' FEL, Sec. 22, T17S, R32E	4150'/4070'	09/20/73
			5-1/2"	4112'	325	2200'				
325	Oil	3803' - 4015'	8-5/8"	864'	450		09/06/72	1345' FSL & 1295' FEL, Sec. 22, T17S, R32E	4175'/4127'	09/24/72
			5-1/2"	4175'	300	1800'				
307	Oil	3832' - 4042'	8-5/8"	850'	425		04/05/72	25' FNL & 1345' FEL, Sec. 27, T17S, R32E	4140'/4070'	04/21/72
			5-1/2"	4140'	300	1850'				

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
335	Oil	3842' - 4076'	8-5/8" 5-1/2"	893' 4136'	450 425	2100'	12/13/73	1345' FNL & 1295' FEL, Sec. 27, T17S, R32E	4125'/4103'	03/02/73
329	Oil	3889' - 4128'	8-5/8" 5-1/2"	940' 4215'	450 400	2300'	11/06/72	2615' FSL & 1345' FEL, Sec. 27, T17S, R32E	4215'/4170'	11/22/72
185	Oil	4029' - 4212'	8-5/8" 5-1/2"	66' 4265'	100 1500		08/17/54	1345' FSL & 1345' FEL, Sec. 27, T17S, R32E	4265'/4232'	09/05/54
75	Oil	3852' - 3900'	12-1/2" 7" 4-1/2"	20' 3540' 3980'	20 400 450	2100'	03/25/40	1980' FSL & 660' FEL, Sec. 22, T17S, R32E	4054'/4000'	05/15/40
84	Inj.	3949' - 4011'	12-1/2" 7" 4-1/2"	20' 3554' 3775'	20 400 350	449'	11/07/39	660' FSL & 660' FEL, Sec. 22, T17S, R32E	4129'/4105'	01/03/40
*122	Oil	3916' - 4089'	12-1/2" 7" 5-1/2"	30' 2385' 3547'	20 160 150	845'	03/09/50	660' FNL & 660' FEL, Sec. 27, T17S, R32E	4089'	03/10/50
145	Inj.	3950' - 4100'	12-1/2" 7" 4-1/2"	20' 3540' 3818'	20 400 325	1530' 300'	01/11/40	1980' FNL & 660' FEL, Sec. 27, T17S, R32E	4091'	02/22/40
186	Oil	3856' - 4094'	12-1/2" 5-1/2"	20' 3555'	25 200	2600'	03/09/40	1980' FSL & 660' FEL, Sec. 27, T17S, R32E	4195'	05/13/40

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
203	Inj. P&A	3990' - 4055'	8-5/8" 5-1/2"	249' 3522'	50 250	2332'	06/18/40	660' FSL & 660' FEL, Sec. 27, T17S, R32E	4152'	10/12/40
302	Inj.	4101' - 4350'	8-5/8" 4-1/2"	990' 4400'	550 400	2400'	11/26/72		4400'/4359'	12/02/72
341	Oil	3854' - 4031'	8-5/8" 5-1/2"	846' 4150'	450 350	2300'	07/17/73	100' FSL & 150' FEL, Sec. 22, T17S, R32E	4150'/4105'	08/03/73
347	Oil	3871' - 4116'	8-5/8" 5-1/2"	916' 4175'	425 350	2350'	09/16/73	1245' FNL & 160' FEL, Sec. 27, T17S, R32E	4175'/4130'	10/06/73
337	Oil	3974' - 4210'	8-5/8" 5-1/2"	900 4200'	500 450	2300'	03/02/73	2615' FNL & 25' FEL, Sec. 27, T17S, R32E	4280'/4225'	03/25/73
348	Oil	4075' - 4191'	8-5/8" 5-1/2"	929' 4400'	500 430	2500'	09/25/73	1345' FSL & 25' FEL, Sec. 27, T17S, R32E	4400'/4348'	10/10/73
336	SI	3877' - 4043'	8-5/8" 5-1/2"	904' 4200'	400 500	2720'	02/22/73	1345' FSL & 125' FWL, Sec. 23, T17S, R32E	4200'/4103'	03/07/73
83	Oil	3900' - 4072'	10-3/4" 7"	106' 4151'	125 1350	1200'	08/31/58	660' FSL & 560' FWL, Sec. 23, T-17S, R32E	4153'/4120'	09/14/58
322	Oil	3964' - 4091'	8-5/8" 5-1/2"	945' 4250'	500 300	1900'	08/14/72	1880' FNL & 560' FWL, Sec. 26, T17S, R32E	4250'/4220'	08/30/72
273	Inj.	4042' - 4213'	7-5/8" 4-1/2"	1030' 4260'	450 325	2300'	04/01/71	1980' FSL & 560' FWL, Sec. 26, T17S, R32E	4260'/4254'	04/25/71

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
187	Inj.	3960' - 4063'	8-5/8" 5-1/2"	282' 3559'	50 250	1779'		1980' FSL & 660' FWL, Sec. 26, T17S, R32E	4073'	
*202	Oil	4020' - 4161'	8-5/8" 5-1/2"	22' 3486'	25 100	2400'		660' FSL & 660' FWL, Sec. 26, T17S, R32E	4300'/4161'	
123	Inj.	3774' - 4000'	12-1/2" 5-3/4" 4-1/2"	20' 3525' 3891'	16 200 175	2311'	08/18/39	660' FNL & FWL, Sec. 26, T17S, R32E	4058'/4050'	10/15/39
144	SI	2810' - 2815' 3475' - 3490'	12-1/2" 5-1/2"	70 3536'	25 200	2295'	06/04/40	1980' FNL & 660' FWL, Sec. 26, T17S, R32E	4139'/3496'	06/16/40
*349	Oil	3959' - 4120'	8-5/8" 5-1/2"	860' 4250'	500 225	2903'	10/04/73	75' FSL & 1295' FWL, Sec. 23, T17S, R32E	4250'/4203'	10/23/73
342	P&A	3953' - 4124'	8-5/8" 5-1/2"	927' 4240'	500 43	2250'	07/26/73	1225' FNL & 1295' FWL, Sec. 26, T17S, R32E	4040'/4190'	08/18/73
*350	Oil	4024' - 4244'	8-5/8" 5-1/2"	920' 4350'	510 325	2500'	10/13/73	2615' FSL & 1295' FWL, Sec. 26, T17S, R32E	4350'/4317'	10/30/73
201	Oil	4076' - 4131'	8-5/8" 5-1/2"	1187' 3896'	75 100	2300'	08/07/48	1295' FSL & 1370' FWL, Sec. 26, T17S, R32E	4310'/4310'	10/10/48
82	Inj.	3850' - 4104'	12-1/2" 5-1/2"	21' 3568'	25 200	2142'	12/21/39	660' FSL & 1980' FWL, Sec. 23, T17S, R32E	4160'	02/23/40

WELLS IN AREA OF REVIEW - MCA UNIT

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
124	SI	4000' - 4080'	8-1/4" 5-3/4"	1025' 3553'	50 100	2200'	04/18/40	660' FNL & 1980' FWL, Sec. 26, T17S, R32E	4165'/3696'	06/18/40
143	Inj.	3961' - 4075'	8-5/8" 5-1/2"	21' 3640'	10 200	2690'	06/18/41	1980' FNL & FWL, Sec. 26, T17S, R32E	4083'/4077'	10/01/41
188	Oil	4028' - 4192'	8" 5-1/2"	21' 3482'	25 250	2300'	04/06/41	1980' FSL & 1980' FWL, Sec. 26, T17S, R32E	4318'/4272'	05/23/41
124	SI	4000' - 4080'	8-1/4" 5-3/4"	1025' 3553'	50 100	2200'	04/18/40	660' FNL & 1980' FWL, Sec. 26, T17S, R32E	4165'/3696'	06/18/40
339	PGA		8-5/8" 5-1/2"	970' 4225'	500 450	1017'	03/18/73	1295' FSL & 2615' FWL, Sec. 23, T17S, R32E	4225'/4186'	03/30/73
249	Inj.	4146' - 4200'	8-5/8" 7" 5-1/2" 4-1/2"	31' 32' 3802' 4101'		2871'	660' FSL & 1980' FWL, Sec. 26, T17S, R32E	4358'/4218'		
354	Oil	3944' - 4143'	8-5/8" 5-1/2"	963' 4275'	500 200	2500'	11/28/73	75' FSL & 2615' FEL, Sec. 23, T17S, R32E	4275'/4242'	12/14/73
*311	SI	3979' - 4190'	8-5/8" 5-1/2"	1000' 4325'	500 300	2860'	05/09/72	1295' FWL & 2615' FWL, Sec. 26, T17S, R32E	4325'/4310'	06/07/72
343	Oil	4073' - 4279'	8-5/8" 5-1/2"	930' 4375'	500 325	3106'	08/04/73	2565' FNL & 2615' FWL, Sec. 26, T17S, R32E	4375'/4320'	08/25/73

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PRD	Record of Completion
			Size	Depth	Sacks	TOC				
339	P&A	3708' - 4088'	8-5/8" 5-1/2"	846' 4150'	425 450	1950'		2615' FSL & 1295' FWL, Sec. 22, T17S, R32E	4150'/4109'	
81	Oil	3970' - 4215'	8-5/8" 7" 4-1/2"	1177' 3800' 3918'	50 250 75	2000' 3250'	10/19/43	660' FSL & 1980' FEL, Sec. 23, T17S, R32E	4253'/4203'	12/30/43
125	Inj.	4022' - 4144'	8-5/8" 7"	1179' 3737'	50 100	2437'	12/24/42	660' FNL & 1980' FEL, Sec. 26, T17S, R32E	4174'	03/04/43
142	Oil	4110' - 4175'	8-1/4" 7"	985' 3636'	50 200	2300'	12/02/41	1980' FNL & 1980' FEL, Sec. 26, T17S, R32E	4180'/4104'	01/25/42
189	Inj.	4106' - 4280'	8-5/8" 7"	1062' 3734'	50 100	2434'	08/17/40	1980' FSL & FWL, Sec. 26, T17S, R32E	4280'	12/04/40
351	Oil	4020' - 4266'	8-5/8" 5-1/2"	966' 4350'	520	2500'	10/22/73	1485' FNL & 1225' FEL, Sec. 26, T17S, R32E	4350'/4320'	11/15/73
126	Oil	4000' - 4195'	8-5/8" 7"	1050' 3797'	100 100	2500'	08/18/41	660' FNL & FEL, Sec. 26, T17S, R32E	4236'/4152'	10/28/41
141	Inj.	1070' - 4190'	10-3/4" 7" 4-1/2"	122' 3836' 3990'	70 500 300	1463'	06/14/43	1980' FNL & 660' FEL, Sec. 26, T17S, R32E	4275'	08/25/43
*299	Oil	3865' - 4130'	8-5/8" 5-1/2"	850' 4200'	425 300	2300'	12/06/71	175' FNL & 1295' FWL, Sec. 27, T17S, R32E	4200'/4170'	12/27/71

MCA Unit No.	Type	Prod/Inj Interval	CASING		CEMENT		Date Drilled	Location	TD/PBD	Record of Completion
			Size	Depth	Sacks	TOC				
76	Inj.	3850'-4060'	8-5/8"	979'	75		1948	1910' FSL & 590' FWL, Sec 23, T-17S, R-32E	4120'	6/48
			7"	3601'	150	2500'				
			4-1/2"	3829'	225	100'				
77	Prod.	3678'-4125'	10"	20'	12		4/17/41	1980' FSL & 1980' FWL, Sec 23, T-17S, R-32E	4125'	6/9/41
			5-1/2"	3481'	250	2200'				
78	Inj.	3940'-4180'	8-5/8"	1173'	75		11/5/43	1980' FSL & 1980' FEL, Sec 23, T-17S, R-32E	4238' / 4210'	3/44
			7"	3750'	250	2400'				
330	Prod.	3771'-4075'	8-5/8"	928'	475		10/22/72	1295' FSL & 1295' FWL, Sec 23, T-17S, R-32E	4200' / 4166'	11/13/72
			5-1/2"	4200'	550	2100'				