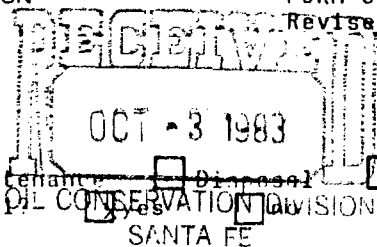


APPLICATION FOR AUTHORIZATION TO INJECT



- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval ☒ Yes ☐ No
- II. Operator: Amoco Production Company
Address: P. O. Box 68, Hobbs, New Mexico 88240
Contact party: D. L. Blazer Phone: (505) 393-1781
- 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 Order No. R-6352.
- 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: Charles M. Herring Title: Administrative Analyst
Signature: *Charles M. Herring* Date: September 21, 1983
- * 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. Logs were filed previously upon completion of drilling operations for each well.

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: La Rue & Mancy

WELL NAME: HANNIFIN Federal #1

LOCATION: 660 FEL X 1980 FNL Sec 13, T-22-S, R-27-E

ELEVATION: 3090 GL _____ DF _____ KB

TD: 3600 PBD: 3421

CASING DATA					
Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
	7"	20 [#]	450	103 sk	CIRC
	4½	9.5	3600	250 sk	UNKNOWN

PRODUCING INTERVAL: Delaware

COMPLETION DATE: _____

CURRENT STATUS: D: A 10-8-74 1. Spot 75SK plug from TD-2290

2. Cut oil string @ 1940

COMMENTS: Spot 25SK plug in oil string

3. Spot 25SK plug @ 453

4. Spot 10SK surface plug

Heavy mud between all plugs

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H



Amoco Production Company

ENGINEERING CHART

SHEET NO.

OF

FILE

APPN

DATE

BY

SUBJECT

La Rue f' Munk

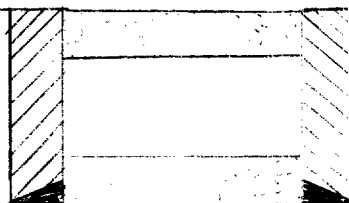
Hannifin Federal #1

660 FEL X 1980 FNL Sec. 13, T22S, R27E
Eddy County NM

ELEV: 3090 GL

DRY & ABANDONED 10-8-74

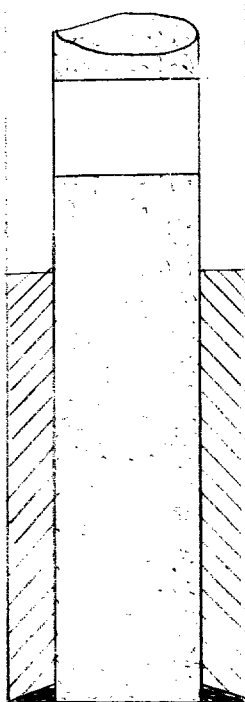
7"-20" CSA 450
CMT w/ 103 SX. CIRC



Spot 103 SX surface

Spot 253X plug @ 453

Heavy mud between
all strings



Cat x Pail 4 1/2 CSZ @ 1940
Spot 253X plug in oil string.

Spot 753X plug from TD-2290

4 1/2"-9.5 CSA 3600
CMT w/ 250 SX
TCMT - UNKNOWN

TD 3600

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Bass Enterprises

WELL NAME: C&K Federal #1

LOCATION: 330 FEL X 1980 FSL Sec 12, T-22-S, R-27-E N.L. I

ELEVATION: 3128 GL _____ DF _____ KB

TD: 3500 PBTD: 3405

CASING DATA					
Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
12 1/4"	8 5/8"	24 #	300	200 SX	CIRC
7 7/8"	5 1/2"	15.5 #	3500	340 SX	UNKNOWN

PRODUCING INTERVAL: Debris

COMPLETION DATE: _____

CURRENT STATUS: DEA 6-25-76 1. Spot 50sx plug between 2340-2240

2. Spot 50sx plug between 1930-2030

COMMENTS: 3. Spot 50sx plug between 225-325

4. Set surface plug.

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H



Amoco Production Company

ENGINEERING CHART

SHEET NO.

OF

FILE

APPN

DATE

8-25-83

BY

JHC

SUBJECT

Bac Enterprises
C/K Federal #1

330FEL X 1980FSL Sec. 12, T22S, R27E U.L. I
Eddy County NM

DRY & ABANDONED 6-25-76

ELEV: 3128 GL

8 5/8" #
CMT w/ 200SX CIRC
Hole Size 12 1/4"

Surface plug

Spot 50SX plug 225-325

Spot 50SX plug 1930-2030

Spot 5000R plug 2340-2240

5 1/2" #
CMT w/ 340SX
TCMT UNKNOWN
Hole Size 7 7/8"

TD 3500
PBD 3405

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Ameco Prod Company

WELL NAME: Old Indian Dr Unit #17

LOCATION: 662FWL X 1973FWL Sec 19, T-22-S, R-28-E u.l.c."

ELEVATION: 3074 GL _____ DF _____ KB

TD: 3450 PBTD: _____

CASING DATA

<u>Hole Size</u>	<u>Size</u>	<u>Wt</u>	<u>Depth</u>	<u>Amt. of Cmt</u>	<u>Toc</u>
12 1/4"	8 5/8	24 #	400	300 SX	CIRC

PRODUCING INTERVAL: Delaware

COMPLETION DATE: 1-3-77 NO SHOW OF OIL OR GAS

CURRENT STATUS: PxA 1-6-77 Load Hole w/ mud before plug.

1 Spot 45SX plug between 3230-3530

2 Spot 45SX plug between 2340-2440

COMMENTS: 3 Spot 65SX in & out 8 5/8 CSg 350-450

4 Spot 10SX plug at surface

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H



Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE P-25-83

BY JAC

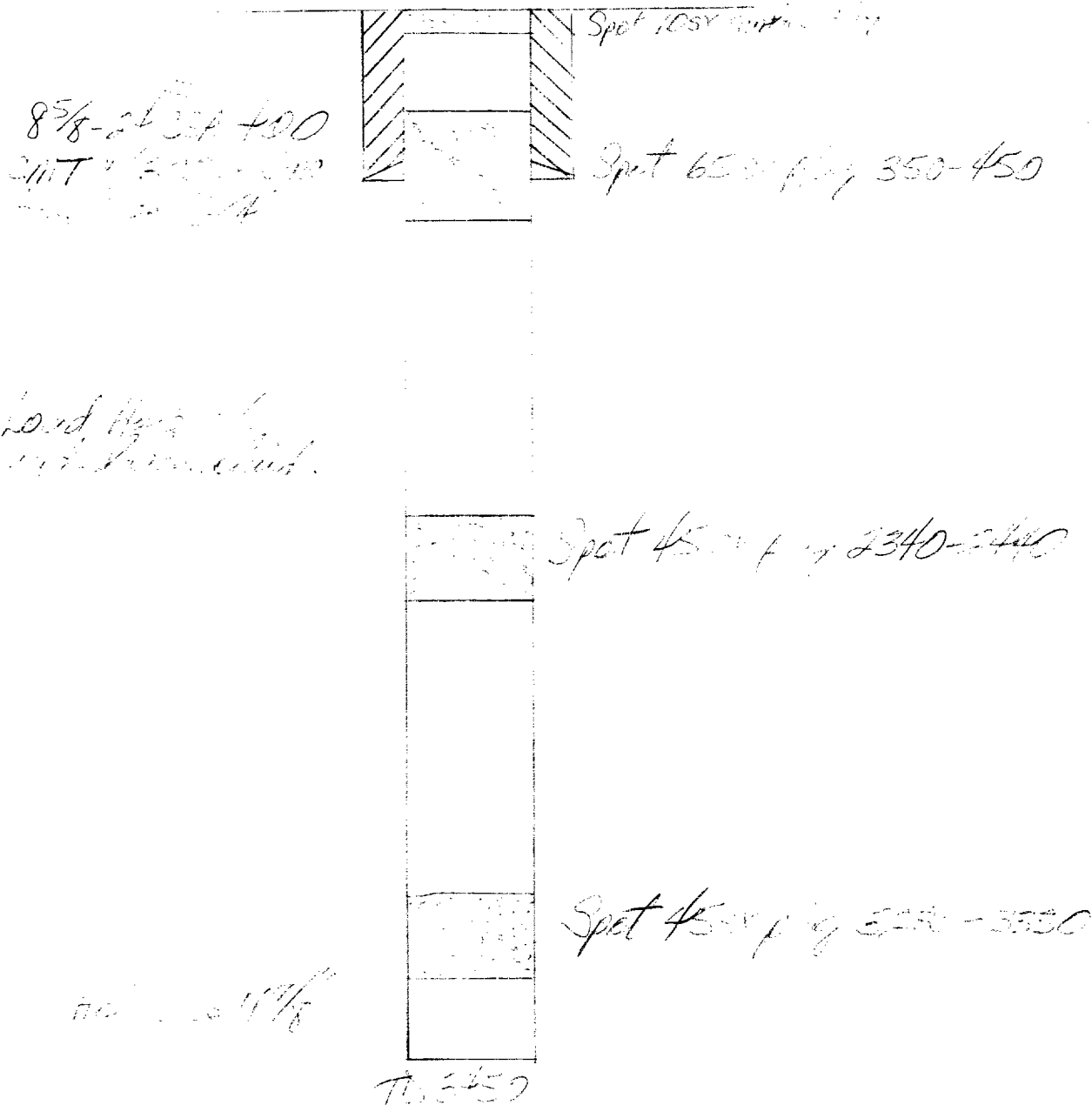
SUBJECT Amoco Production Company

Old Indian Draw Unit #17

660 FNL Y 1973 FNL L-2, T-2, P-2E
Eddy County NM

EE-1-30-45L

FXA: 1-6-77



PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Production Company

WELL NAME: Old Indian Draw Unit #33

LOCATION: 2324FNLX2230FEL Sec 7, T-22-S, R-28-E

ELEVATION: 3101 GL DF KB

TD: 3550 PBD:

CASING DATA

Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
12 1/4"	8 5/8"	24"	400	325	CIRC
7 7/8"					

PRODUCING INTERVAL: Depleted

COMPLETION DATE: 6-27-77 1. Load hole with mud column fluid

2. Spot 45sx plug 3330-3230

CURRENT STATUS: PxA 3. Spot 45sx plug 2480-2380

4. Spot 100sx plug 480-380 (in part 8 5/8" csg)

COMMENTS: TD 3550. NO show of oil in ga. 5. Spot 10sx plug at surface

* Note: Must attach a wellbore schematic for all PxA wells illustrating details.

LWS/yaj
738/H



Amoco Production Company

ENGINEERING CHART

SHEET NO.

OF

FILE

APPN

DATE

8-25-83

BY

JAC

SUBJECT

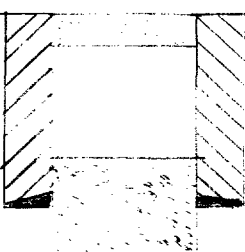
Amoco Production Company
Old Indian Draw Unit #33

2324 FNL X 2230 FEL Sec. 7, T22S, R28E
Eddy County, NM

ELEV: 3101

FXA 6-27-77

8 5/8" $\pm$ CSA 400
CMT 1 1/2" 325SX CIRC



Spot 10SX Surface Plug
Spot 100SX plug, 480-380

LOGGED HOLE w/
MUD-LOGGED FLUID

Spot 45SX plug 2480-2380

Hole size 7 7/8

Spot 45SX plug 3330-3230

TD 5550

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR:

Amoco Production Company

WELL NAME:

Old Indian Draw #36

LOCATION:

660 FSL X 990 FEL Sec 7, T-22-S, R-28-E

ELEVATION:

3100

GL

DF

KB

TD:

3450

PBTD:

CASING DATA

Hole Size

Size

Wt

Depth

Amt. of Cmt

Toc

12 1/4"

7 5/8"

24#

432

300

CIRC 100X

7 7/8"

PRODUCING INTERVAL:

Depleted

COMPLETION DATE:

8-4-77

CURRENT STATUS:

PXA 8-5-77

1. Load hole w/ mud-laden fluid

2. Spot 45 sx plug 3400-3300

3. Spot 45 sx plug 2520-2425

COMMENTS:

4. Spot 100 sx plug 475-375 (in front 8 5/8" csx)

set at 432

5. Spot 10 sx surface plug

* Note:

Must attach a wellbore schematic for all PXA wells illustrating details.

LWS/yaj
738/H



Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE 8-25-83

BY JR

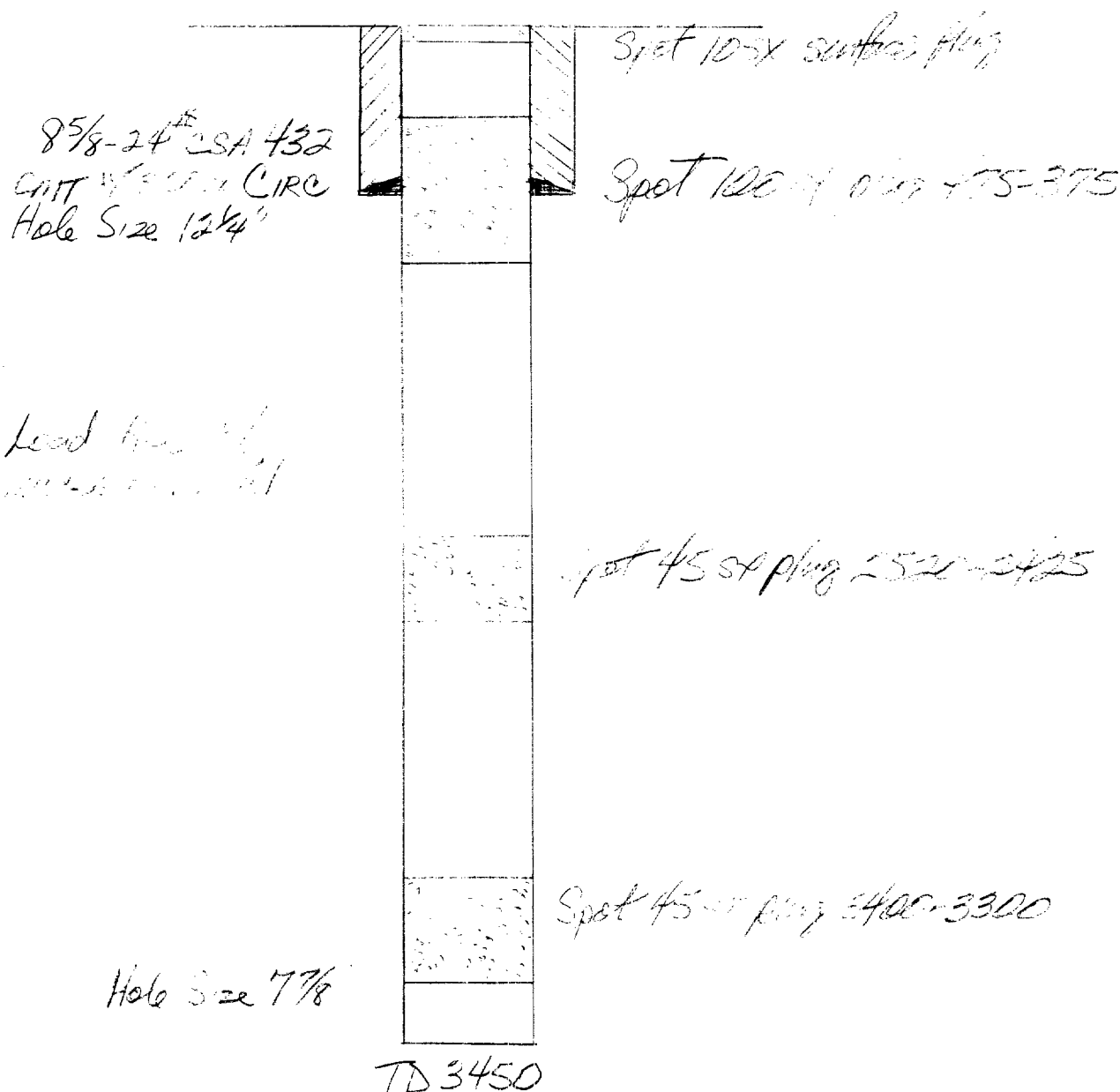
SUBJECT Amoco Production Company

Old Indian Drive Unit #36

660FSL X 990FEL Sec 7, T22S, R28E
Eddy County, NM

PXA: 8-5-77

ELEV. 3100





Amoco Production Company

ENGINEERING CHART

SHEET NO.

OF

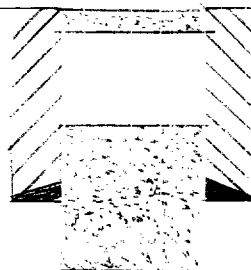
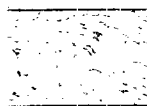
FILE

APPN

DATE

BY

SUBJECT

*Amoco Production Company**Old Indian Draw Unit #34**949FEL x 2325FNL Sec. 7, T22S, R28E
Eddy County, NM**PXA 7-18-77**ELEV: 3105**8 5/8-24 C3A 395
CMT w/ 3000SK. CIRC
Hole Size 12 1/4"**Spot 10sx surface plug**Spot 75sx plug 450-350**Spot 45sx plug 2500-2400**Spot 45sx plug 3375-3275**Hole Size 7 1/8"**TD 3452*

PERTINENT DATA FOR WELLS
WITHIN AREA OF REVIEW

OPERATOR: Amoco Prod. Company
WELL NAME: Shel Jordan Draw Unit #34
LOCATION: 949FEL X 2325FNL Sec 7, T-22-S, R-28-E
ELEVATION: 3105 GL _____ DF _____ KB
TD: 3452 PBTB: _____

CASING DATA					
Hole Size	Size	Wt	Depth	Amt. of Cmt	Toc
12 1/4"	8 5/8"	24 #	395	300 SX	CIRC 40 SX
7 7/8"					

PRODUCING INTERVAL: Debris

COMPLETION DATE: 7-16-77

CURRENT STATUS: PXA 7-18-77 1. Spot 45 SX plug 3375-3275

2. Spot 45 SX plug 2500-2400

COMMENTS: 3. Spot 75 SX plug 450-350 (in & out 8 5/8 CSG)

4. Spot 10 SX surface plug

* Note: Must attach a wellbore schematic for all PXA wells illustrating details.

LWS/yaj
738/H

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,
on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

September 23, 19 83

_____, 19 ____

_____, 19 ____

_____, 19 ____

that the cost of publication is \$ 7.05,
and that payment thereof has been made
and will be assessed as court costs.

E. C. Cantwell

Subscribed and sworn to before me this

28 day of September, 19 83

Dwella Taylor

My commission expires 5-27-84

Notary Public

September 23, 1983
To Whom It May Concern:
Amoco Production Company (APC) has
applied to the NMOC for administra-
tive approval to convert 1 SWD well, located in
Section 7 and 18, Township 36N, Range 28E, County of Eddy, New Mexico, to water injection.
purpose of these proceedings
paid secretary, recording
on our Old Indian Reservation
will be initiated and
Formation of an oil and gas
BWIPD will be initiated
presence of all interested parties
concerning this project, and
to Mr. D. J. Taylor, Notary Public
Amoco Production Company
P.O. Box 96, Dallas, NM 88001, (505) 383-1341. Interested parties may
file objections or request for hearing
with the Oil Conservation Division,
P.O. Box 2688, Santa Fe, New Mexico
87501, within 15 days.

P 267 164 400
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		<i>C&K Petroleum, Inc.</i>	
STREET AND NO.		<i>3900 Capital Bank Plaza</i>	
P.O., STATE AND ZIP CODE		<i>Houston, TX 77002</i>	
POSTAGE		\$1.22	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	.75 ¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	.60 ¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$2.57	
POSTMARK OR DATE			
			

PS Form 3800, Apr. 1976

P 267 164 398
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		<i>Delta Drilling Company</i>	
STREET AND NO.		<i>P.O. Box 2012</i>	
P.O., STATE AND ZIP CODE		<i>Tyler, TX 75710</i>	
POSTAGE		\$1.22	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	.75 ¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	.60 ¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$2.57	
POSTMARK OR DATE			
			

PS Form 3800, Apr. 1976

P 267 164 399
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		<i>C.E. LaRue & B.N. Mancy Jr.</i>	
STREET AND NO.		<i>P.O. Box 196</i>	
P.O., STATE AND ZIP CODE		<i>Artesia, NM 88210</i>	
POSTAGE		\$1.22	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	.75 ¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	.60 ¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$2.57	
POSTMARK OR DATE			
			

PS Form 3800, Apr. 1976

P 267 164 401
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

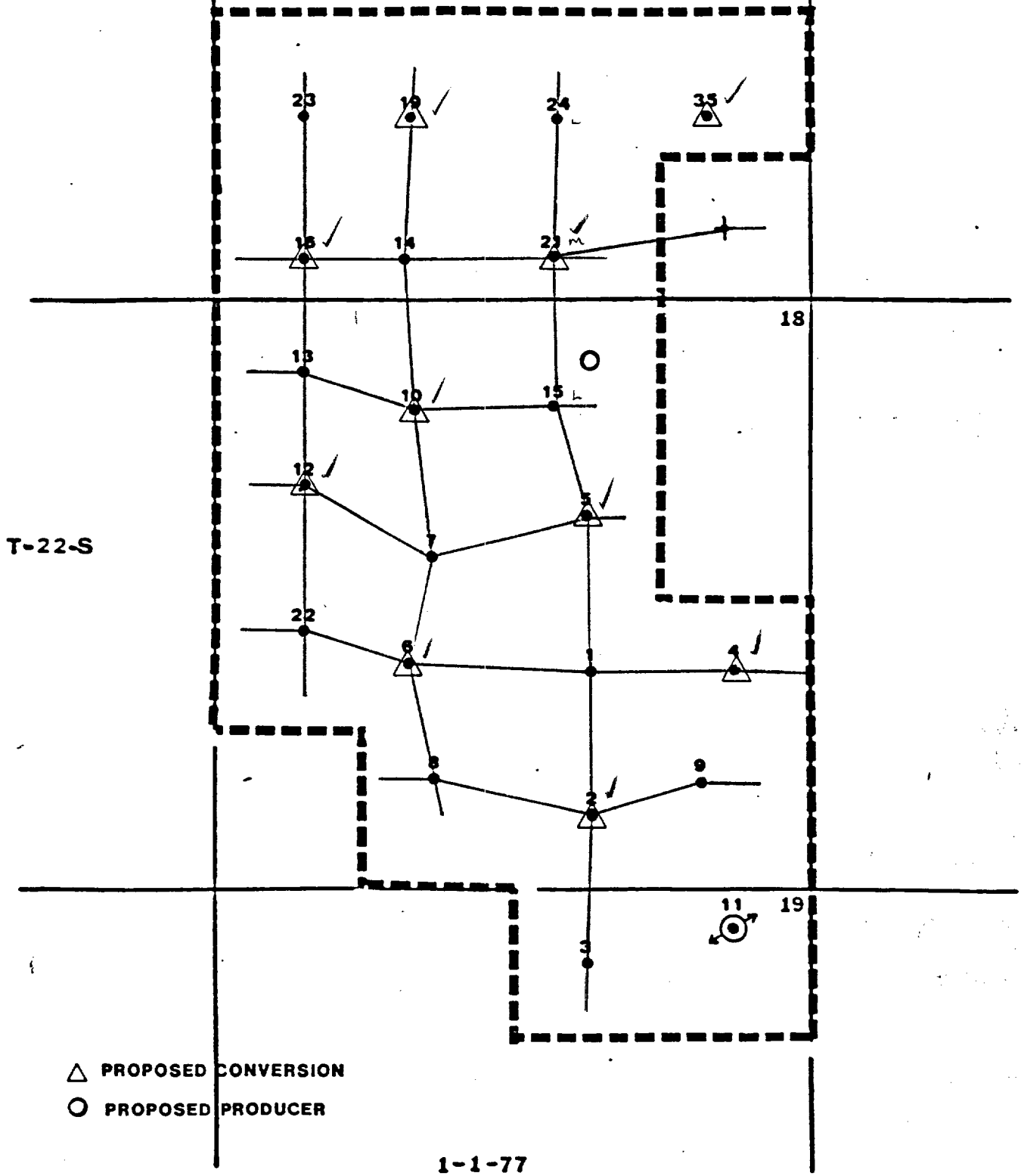
SENT TO		<i>Cass Enterprises Prod. Co.</i>	
STREET AND NO.		<i>P.O. Box 2760</i>	
P.O., STATE AND ZIP CODE		<i>Midland, TX 79702</i>	
POSTAGE		\$1.22	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	.75 ¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	.60 ¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$2.57	
POSTMARK OR DATE			
			

PS Form 3800, Apr. 1976

R-28-E

7

PROPOSED 5-SPOT WATERFLOOD PATTERN



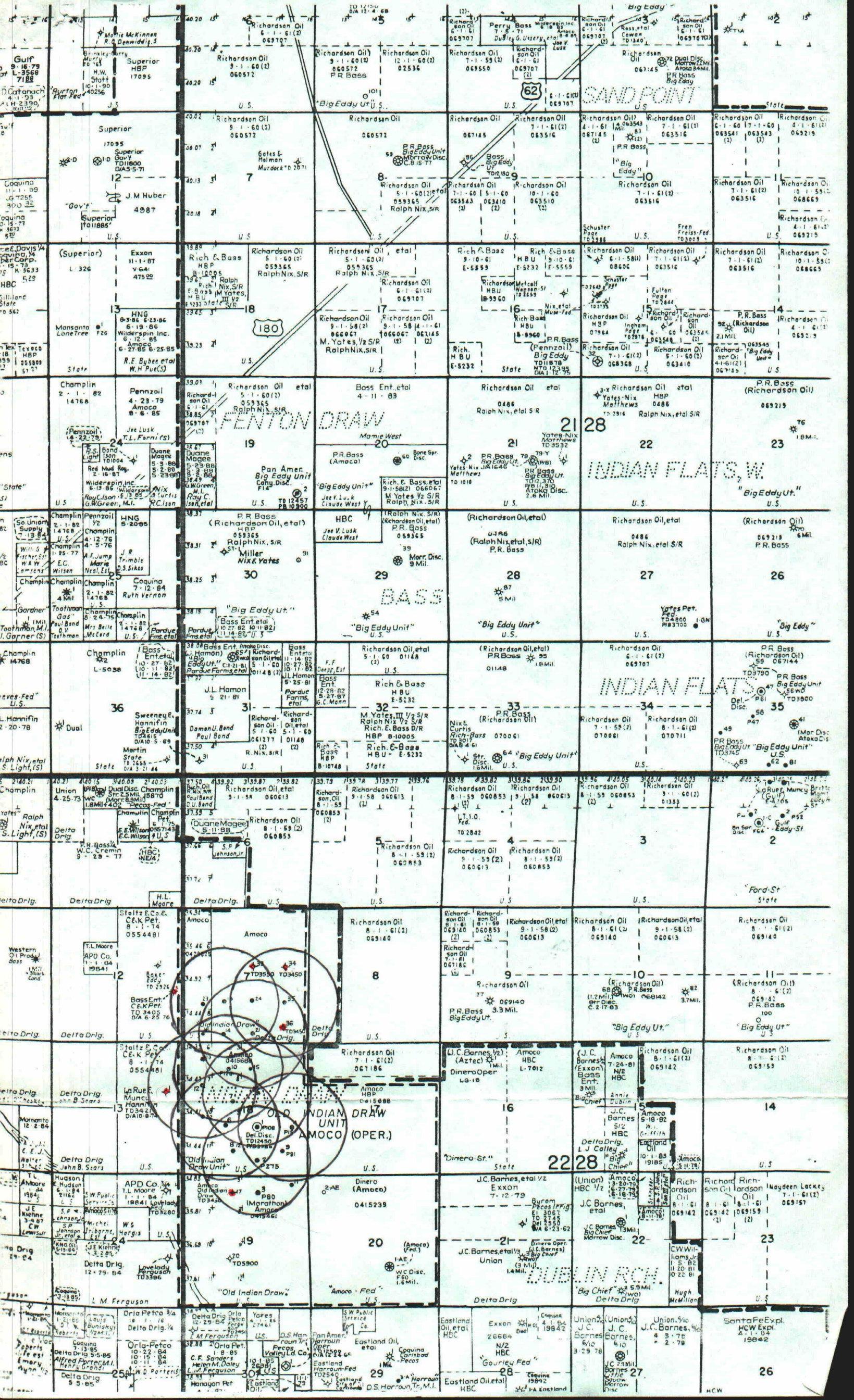
Amoco Production Company

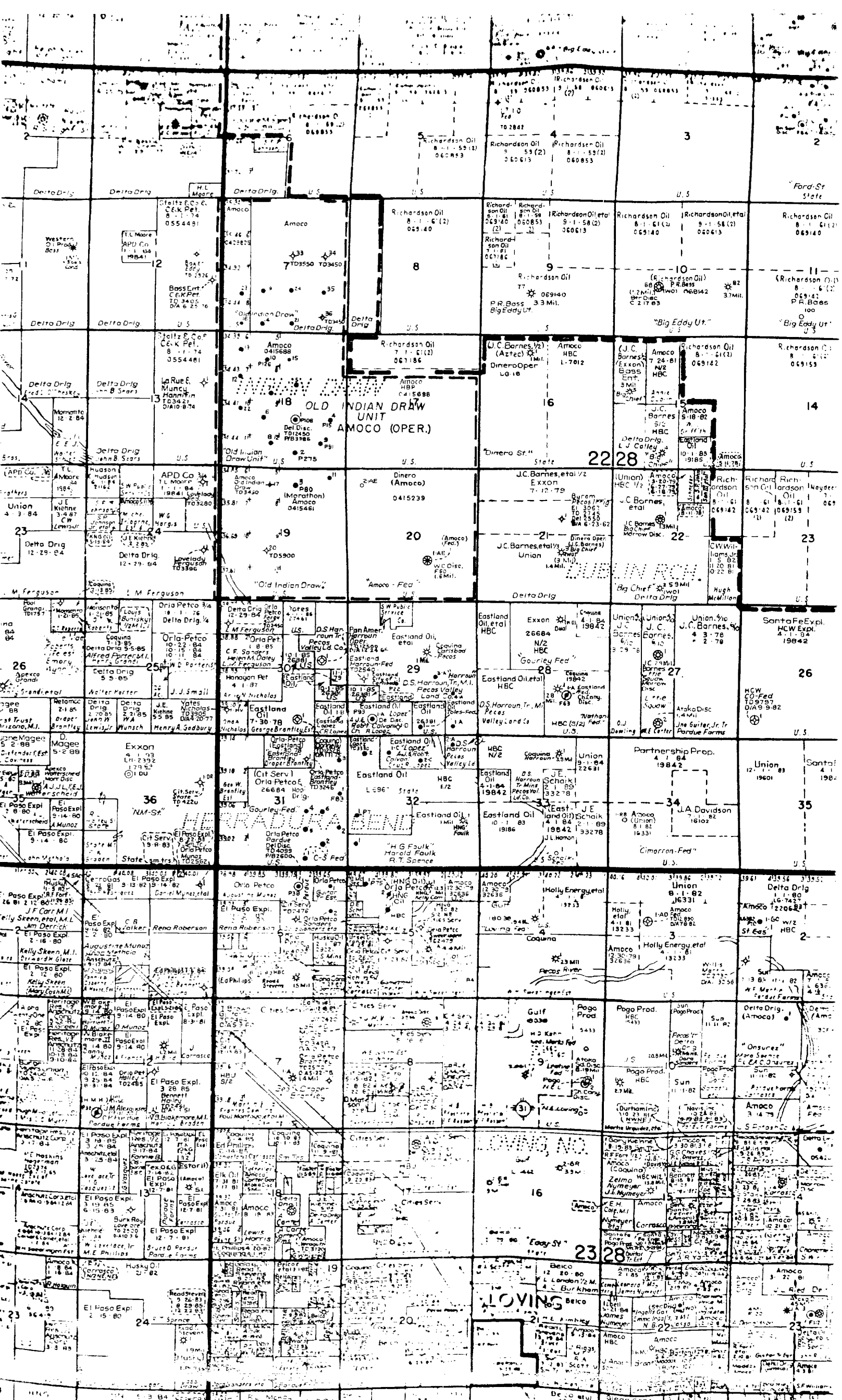
SCALE: 1" = 1/4 mile

6-9-82

OLD INDIAN DRAW UNIT

DRG.
NO.





VII.

1. Average = 250 BWIPD
Maximum = 300 BWIPD
2. Closed System
3. Average 450 PSI, Maximum 500 PSI
4. Source of Injection water - Old Indian Draw Unit No. 37 (Delaware Formation water) water analysis from OIDU No. 15 attached.
5. N/A

VIII.

1. Lithology - Well-sorted, fine-grained quartz
2. Geological name - Permian System, Guadalupian Series, Delaware Mountain Group, Bell Canyon Formation.
3. Thickness - Approximately 1000'
4. Depth - Approximately 3300'
5. Underground drinking water source
Rustler Formation - Bottom at 200'

IX. Proposed Stimulation Program

The stimulation of these injection wells will consist of pumping approximately 100 gallons of 7-1/2% Hydrochloric acid per foot of perforated interval down tubing and below a packer. The acid will contain 1 gallon per thousand (gallons of acid) of corrosion inhibitor, 1 gal./1000 clay stabilizer, 1 gal./1000 non emulsifier, and 5 gals./1000 of iron sequestering agent. The acid will be pumped at a maximum of 2 barrels per minute and 500 PSI surface treating pressure.

XI. Chemical Analysis of fresh water from at least two wells within one mile of unit.

None found.



Byron Jackson Inc.

SUBJECT: Old Indian Draw #15
DEPTH:
FORMATION:

Company Amoco Farm _____ Well No. 15

Location Old Indian Draw County Eddy State NM Date 6-21-83

Pool _____ Date Sampled 6-21-83 Submitted by Butch Mason

SPECIFIC GRAVITY: 1.087

pH: 5.35

PRINCIPAL CONSTITUENTS

RADICAL	PARTS PER MILLION	REACTING VALUE	
		EQUIVALENTS PER MILLION	PER CENT
SODIUM	40467	1760.3	42.9
CALCIUM	3761	187.7	4.6
MAGNESIUM	1118	91.9	2.2
Iron	285	10.2	.3
CHLORIDE	69917	1971.7	48.0
SULPHATE	3450	71.8	1.8
BICARBONATE	404	6.6	.2

PRIMARY SALINITY: 85.8

PER CENT TOTAL REACTING VALUE

SECONDARY SALINITY: 13.8

PER CENT TOTAL REACTING VALUE

SECONDARY ALKALINITY: .4

PER CENT TOTAL REACTING VALUE

General Remarks:

Ca/Cl = 5.4%

Resistivity = .07 Ohm Meters @ 70 degrees

LAB. NO. 32051DISTRICT CarlsbadANALYZED BY Loyd TolarDISTRIBUTION Mark Urness

Signed

INJECTION WELL DATA SHEET

Amoco Production Company Old Indian Draw Unit

OPERATOR LEASE

2 660' FSL x 1980' FEL 18 22-S 28-E

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data

Surface Casing

Size 8 $\frac{5}{8}$ " Cemented with 275 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 $\frac{1}{2}$ "

Intermediate Casing

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

Long string

Size 5 $\frac{1}{2}$ " Cemented with 960 sx.
 TOC Unknown feet determined by _____
 Hole size 7 $\frac{7}{8}$ "
 Total depth 3401'

Injection interval

3219 feet to 3237 feet
 (perforated or open-hole, indicate which)

8 $\frac{5}{8}$ " CSA
 361'
 TCMT
 (UNKNOWN)

5 $\frac{1}{2}$ " CSA
 3401'

2 $\frac{3}{8}$ " 7BG.

BAKER LOK-SET PSA 3120'

PERFS: 3219-33' x 3259' 87'

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3120 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 - no productive oil or gas zones are present within the well's area of review

Amoco Production Company Old Indian Draw Unit
 OPERATOR LEASE
 4 1980' FSL x 660' FEL 18 22-S 28-E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tubular Data

Surface Casing

Size 8 $\frac{5}{8}$ " Cemented with 380 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 $\frac{1}{4}$ "

Intermediate Casing

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

Long string

Size 5 $\frac{1}{2}$ " Cemented with 700 sx.
 TOC Surface feet determined by Circulation
 Hole size 7 $\frac{7}{8}$ "
 Total depth 3463'

Injection interval

3266 feet to 3376 feet
 (perforated or open-hole, indicate which)

8 $\frac{5}{8}$ " CSA
 429'

5 $\frac{1}{2}$ " CSA
 3463'

2 $\frac{3}{8}$ " TBG

BAKER LOK-SET PSA 3167'

PERFS 3266'-86' x 3316'-26'

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3167 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 2490'-2504' plugged w/ 100 sacks of cement
3376'-3400' plugged w/ 100 sacks of cement
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
No other productive oil or gas zones are present
within the well's area of review.

INJECTION WELL DATA SHEET

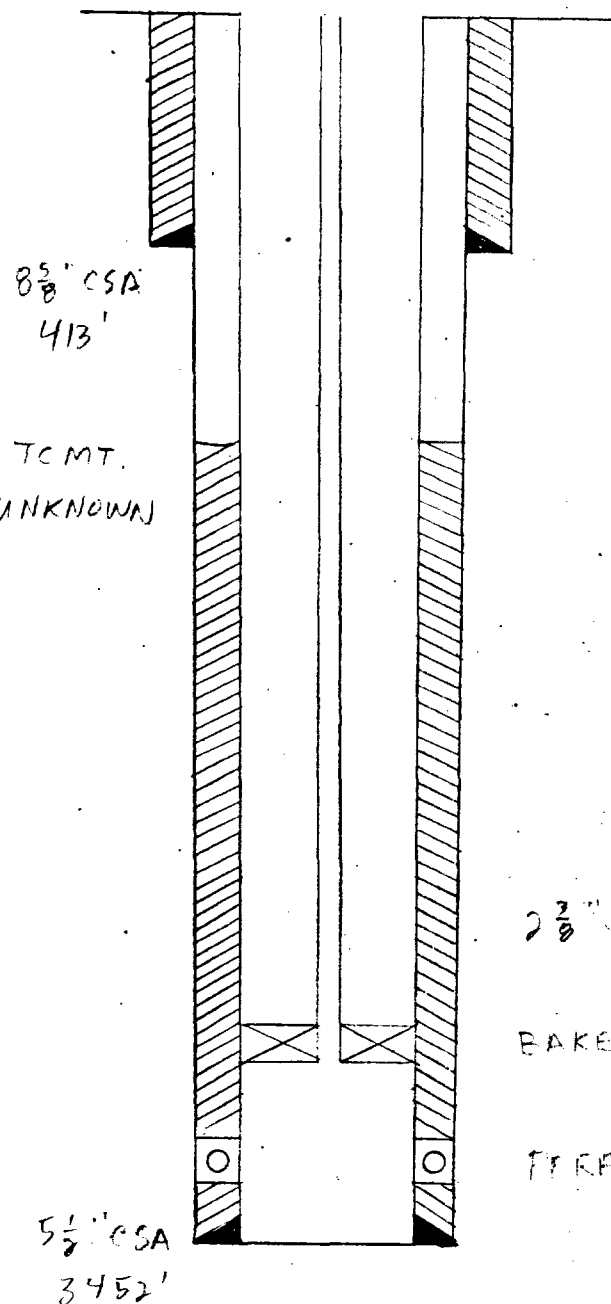
Amoco Production Company Old Indian Draw Unit

OPERATOR LEASE

5 1980' FNL x 1980' FEL 18 22-S 28-E

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size 8 5/8 " Cemented with 350 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 1/4 "

Intermediate Casing

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

Long string

Size 5 1/2 " Cemented with 1000 sx.
 TOC Unknown feet determined by _____
 Hole size 7 7/8 "

Total depth 3452'

Injection interval

3232 feet to 3503 feet
 (perforated or open-hole, indicate which)

2 3/8" TBG

BAKER LOK-SET PSA 3/38

TRRS : 3232-50' x 3278-75'

Tubing size 2 3/8 " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3183 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 other productive oil or gas zones are present

INJECTION WELL DATA SHEET

Amoco Production Company		Old Indian Draw Unit		
OPERATOR	LEASE			
6	2002 FSL x 1721' FWL	18	22-S	28-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data

Surface Casing

Size 8 $\frac{5}{8}$ " Cemented with 350 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 $\frac{1}{4}$ "

Intermediate Casing

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

Long string

Size 5 $\frac{1}{2}$ " Cemented with 700 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 7 $\frac{7}{8}$ "
 Total depth 3450

Injection interval

2227 feet to 3256 feet
 (perforated or open-hole, indicate which)

8 $\frac{5}{8}$ " CSA
 388'

TCMT.
 UNKNOWN

2 $\frac{3}{8}$ " TBS

BAKER LOK SET PSA 3093'

PERFS : 3192 - 3206' x 3237 - 56'

5 $\frac{1}{2}$ " CSA
 3418'

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)

Baker Lok Set
 (brand and model)

packer at 3093 feet

(or describe any other casing-tubing seal).

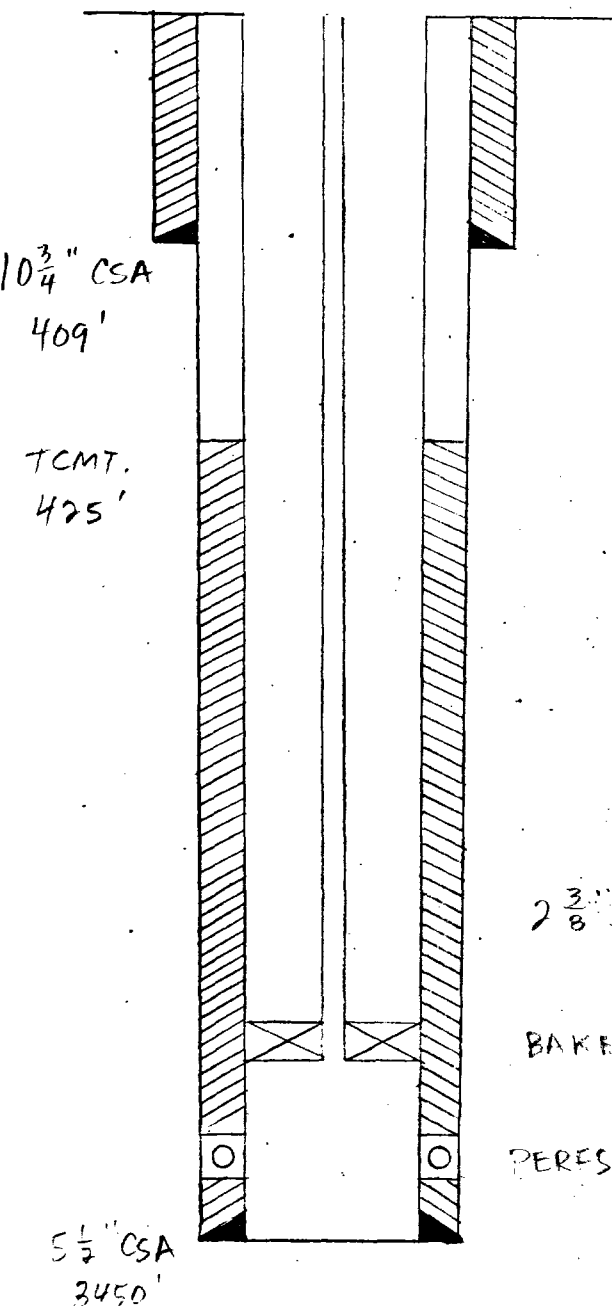
Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 other productive or gas zones are present within the well's zone of review.

INJECTION WELL DATA SHEET

Amoco Production Company		Old Indian Draw Unit		
OPERATOR	LEASE			
10	997' FNL x 1785' FNL	18	22-S	28-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 10 $\frac{3}{4}$ " Cemented with 450 sx.
 TOC Surface feet determined by Circulation
 Hole size 14 $\frac{3}{4}$ "

Intermediate Casing

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

Long string

Size 5 $\frac{1}{2}$ " Cemented with 750 sx.
 TOC 425 feet determined by Temperature Survey
 Hole size 7 $\frac{3}{8}$ "
 Total depth 3450'

Injection interval

3210 feet to 3289 feet
 (perforated or open-hole, indicate which)

2 $\frac{3}{8}$ " TBG.

BAKER LOK-SET PSA 3111'

PERES: 3210'-28' x 3250'-89'

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3111 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 other productive oil or gas zones are present within the well's zone of influence.

INJECTION WELL DATA SHEET

Amoco Production Company Old Indian Draw Unit

OPERATOR LEASE

12 1658' FNL x 794' FNL 18 22-S 28-E

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data

Surface Casing

Size $10\frac{3}{4}$ " Cemented with 450 sx.
 TOC Surface feet determined by Circulation
 Hole size $14\frac{3}{4}$ "

Intermediate Casing

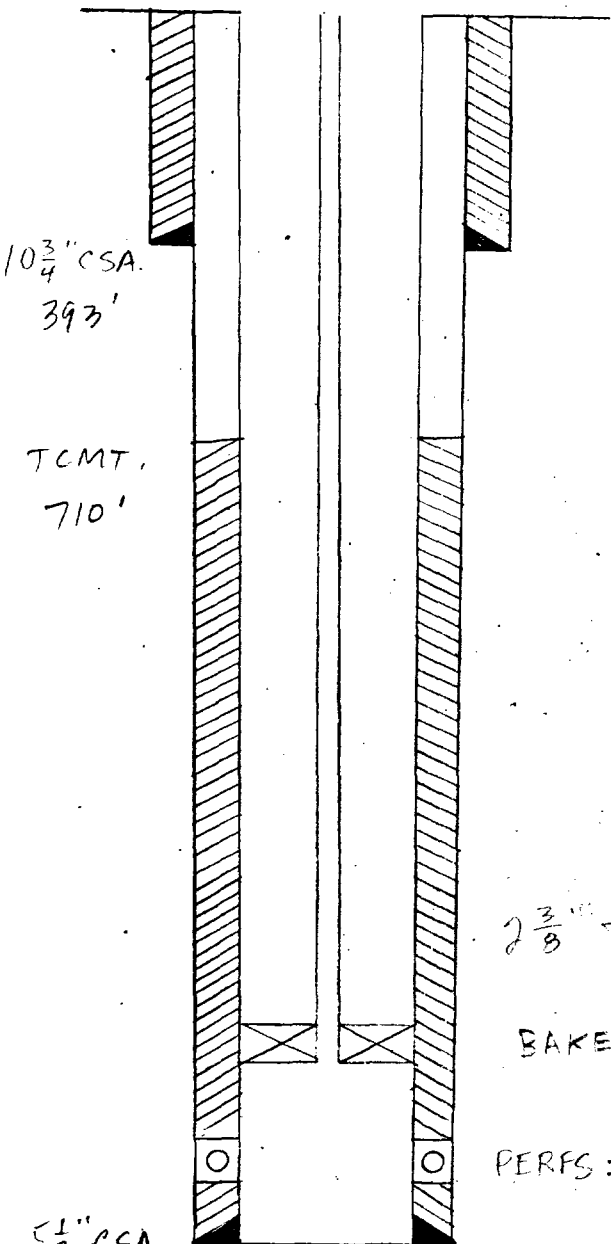
Size " Cemented with sx.
 TOC feet determined by
 Hole size

Long string

Size $5\frac{1}{2}$ " Cemented with 800 sx.
 TOC 710' feet determined by Temperature
 Hole size $7\frac{7}{8}$ " Survey
 Total depth 3450'

Injection interval

3170 feet to 3239 feet
 (perforated or open-hole, indicate which)



$2\frac{3}{8}$ " TBG

BAKER LOK-SET PSA 3071'

PERFS: 3170-82' x 3215'-39'

Tubing size $2\frac{3}{8}$ " lined with plastic set in a
 Baker Lok-Set (material)
 (brand and model) packer at 3071 feet

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production

- 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 other productive oil or gas zones are present within the well bore or in the area.

INJECTION WELL DATA SHEET

Amoco Production Company

Old Indian Draw Unit

OPERATOR

LEASE

16
WELL NO.330' FSL x 794' FWL
FOOTAGE LOCATION7
SECTION22-S
TOWNSHIP28-E
RANGE

Schematic

Tabular Data

Surface Casing

Size 8 $\frac{5}{8}$ " " Cemented with 300 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 $\frac{1}{4}$ "

Intermediate Casing

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

Long string

Size 5 $\frac{1}{2}$ " " Cemented with 700 sx.
 TOC Surface feet determined by Circulation
 Hole size 7 $\frac{3}{8}$ "
 Total depth 3450'

Injection interval

3224 feet to 3296 feet
 (perforated or open-hole, indicate which)

8 $\frac{5}{8}$ " CSA
 413'

2 $\frac{3}{8}$ " TBC.

BAKER LOK-SET PSA

PERFS 3224'-34' x 3270'-96'

5 $\frac{1}{2}$ " CSA
 3450'

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3125 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production

- 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 other productive oil or gas zones are present within the well's area of review.

Amoco Production Company Old Indian Draw Unit

OPERATOR LEASE

19 1750 FUEL & 1357 FSL 7 22-S 28-E

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data

Surface Casing

Size 8 $\frac{5}{8}$ " " Cemented with 300 sx.
 TOC Surface feet determined by Circulation
 Hole size 12 $\frac{1}{4}$ "

Intermediate Casing

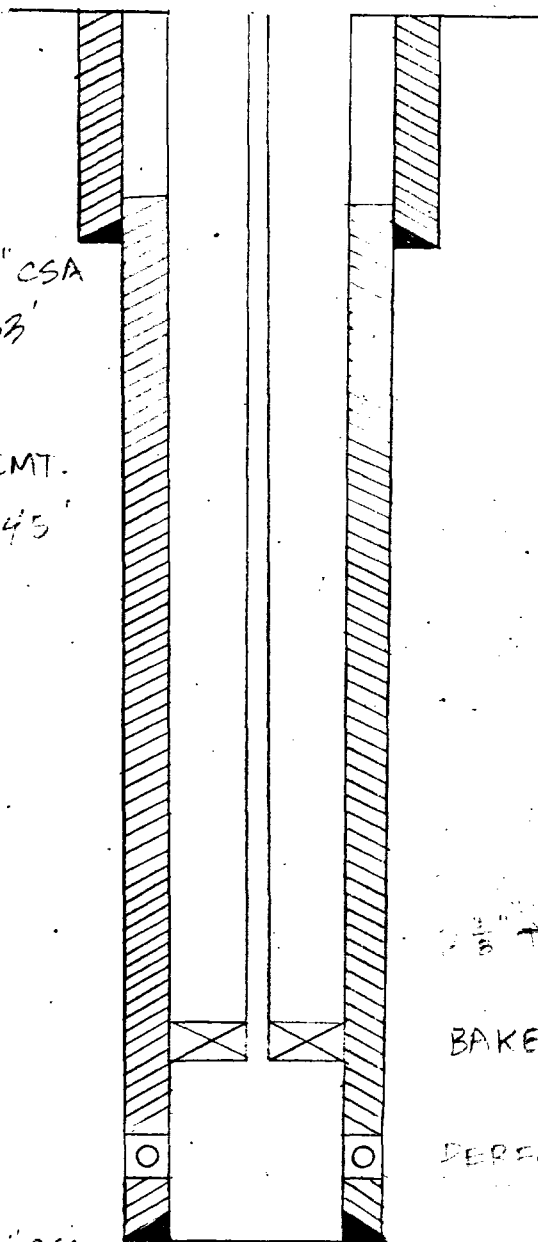
Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5 $\frac{1}{2}$ " " Cemented with 125 sx.
 TOC 345 feet determined by Temperature
 Hole size 7 $\frac{7}{8}$ " Survey
 Total depth 5900'

Injection interval

3260 feet to 3336 feet
 (perforated or open-hole, indicate which)



2 $\frac{1}{8}$ " TBG

BAKER LOK SET PSA 3161

PERFS: 3260'-76" x 3308'-36"

Tubing size 2 $\frac{3}{8}$ " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3161 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 other production oil or gas zones are present within the well's area of review.

INJECTION WELL DATA SHEET

Amoco Production Company		Old Indian Draw Unit		
OPERATOR	LEASE			
21	330156 x 2283' ECL	7	22-S	28-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data

Surface Casing

Size 3 3/8 " Cemented with 500 sx.
 TOC Surface feet determined by Circulation
 Hole size 1 1/2 "

Intermediate Casing

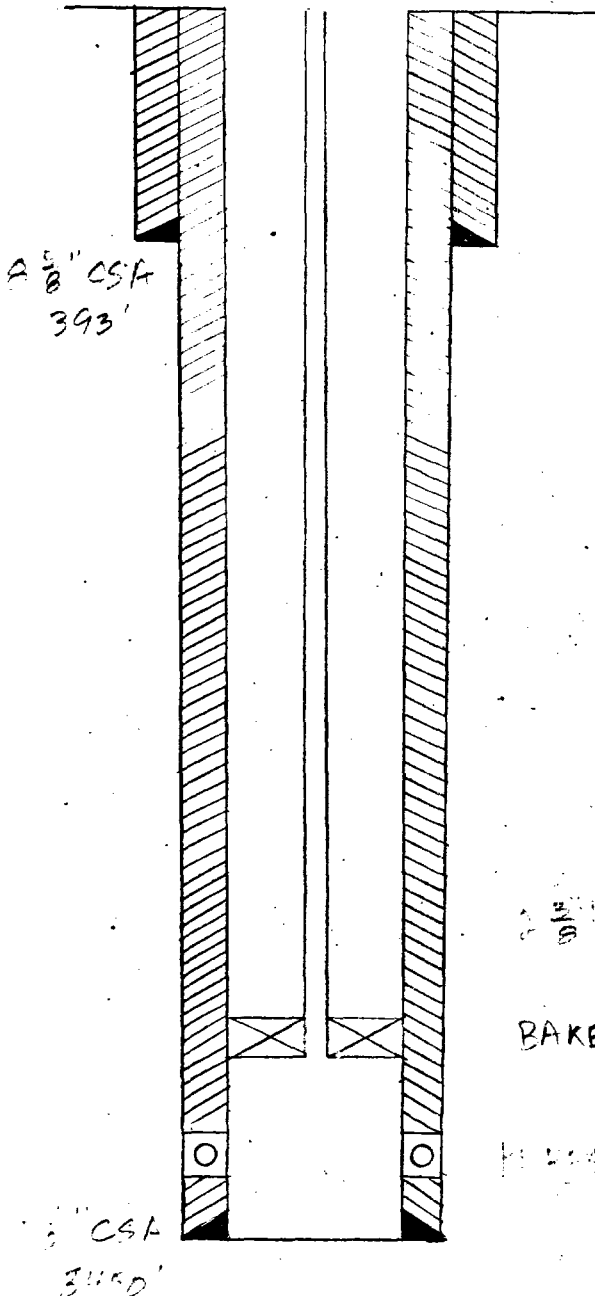
Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5 1/2 " Cemented with 600 sx.
 TOC Surface feet determined by Circulation
 Hole size 7 3/8 "
 Total depth 3450'

Injection interval

3238 feet to 3309 feet
 (perforated or open-hole, indicate which)



BAKER LOK-SET PSA 3139'

PLUG : 3238' 56\" x 3289' - 3309'

Tubing size 2 3/8 " lined with plastic set in a
 (material)
Baker Lok-Set packer at 3139 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production

- 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)

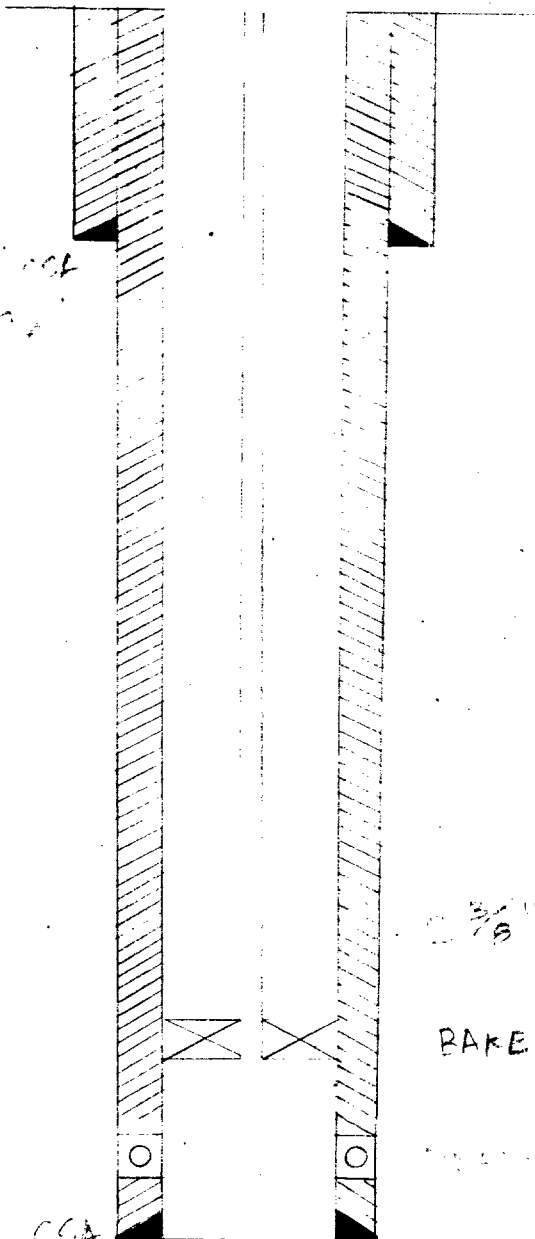
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

No other productive oil or gas zones are present within the well's area of review.

INJECTION WELL DATA SHEET

Amoco Production Company Old Indian Draw Unit
 OPERATOR LEASE
 35 1663 FSL 963 FEL 7 22-S 28-E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size 5 1/8" Cemented with 300 sx.
 TOC 3200 feet determined by Circulation
 Hole size 4 1/2"

Intermediate Casing

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

Long string

Size 5 1/2" Cemented with 300 sx.
 TOC 3200 feet determined by Circulation
 Hole size 7 3/8"
 Total depth 3420'

Injection interval

3284 feet to 3345 feet
 (perforated or open-hole, indicate which)

BAKER LOK-SET PSA 3185'

3284 - 3302' x 3333' - 45'

Tubing size 2 3/8" lined with plastic set in a
 (material)
Baker Lok-Set packer at 3284 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Indian Draw Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
- 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 other productive oil or gas zones are present
within the well's depth or below