

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: Devon Energy Operating Corporation

Address: 20 North Broadway, Suite 1500, Oklahoma City, OK 73102

Contact party: Randy Jackson Phone: (405) 552-4560

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 Refer to Attachment(s) III
If yes, give the Division order number authorizing the project R-2268.

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. Refer to Attachment I

* 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.
Refer to Attachment VI

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.).
- Refer to Attachment VII

*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.

DEC 18 1995

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) This information is on file with the OCD.

* 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. No fresh water wells in this area.

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.

Refer to Attachment XII

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

Refer to Attachment

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: Randy Jackson Title District Engineer

Signature: Randy Jackson Date: 11/28/95

* 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.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: DEVON ENERGY CORP. Well: KEEL - WEST W^E PROJ. - 14 WELLS

Contact: DIANA KEYS Title: ENG. ASST. Phone: 405.552.4511

DATE IN 12-18-95 RELEASE DATE 1-2-96 DATE OUT _____

Proposed Injection Application is for: **WATERFLOOD** Expansion Initial

Original Order: R- 2268 Secondary Recovery Pressure Maintenance

SENSITIVE AREAS **SALT WATER DISPOSAL** Commercial Well

WIPP Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

145 Total # of AOR

12 # of Plugged Wells

Tabulation Complete

HAVE 6 NEED 6 Schematics of P & A's

Cement Tops Adequate

AOR Repair Required

INJECTION FORMATION

Injection Formation(s) GRAYBORG / SAN ANGELES Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION + FRESH WATER MAKE-UP

PROOF of NOTICE

YES Copy of Legal Notice

YES Information Printed Correctly

YES Correct Operators

YES Copies of Certified Mail Receipts

NO Objection Received

N/A Set to Hearing _____ Date

NOTES: Need P&A SCHEMATICS ON ^{WEST} B-4, B-2, B-16, B-28, WEST #3 + KEEL B-1

A-11, B-37, B-1, B-48

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input checked="" type="checkbox"/> Letter	<u>1-8-96</u> Date	Nature of Discussion	<u>P&A SCHEMATICS NEEDED</u>
2nd Contact:	<input checked="" type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	<u>2-6-96</u> Date	Nature of Discussion	<u>REMOVED SOME WELLS FROM APP.</u>
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____



NOT INCLUDED IN ATTACHED MAPS
SENT w/ APP SPOTTED ON EAST
DEVELOPERS

✓ H.E. West "B" #5
1980' FNL 1980' FWL
Section 4-17S-31E
Eddy County, NM

✓ H.E. West "B" #39
1980' FNL 1980' FWL
Section 9-17S-31E
Eddy County, NM

~~w/p~~ H.E. West "A" #11
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM

✓ H.E. West "B" #46
1880' FSL 1980' FEL
Section 9-17S-31E
Eddy County, NM

✓ H.E. West "A" #16
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM

~~w/p~~ H.E. West "B" #48
2130' FSL 1980' FEL
Section 10-17S-31E
Eddy County, NM

✓ H.E. West "A" #6
1980' FNL 660' FEL
Section 4-17S-31E
Eddy County, NM

✓ H.E. West "B" #78
660' FNL & 660' FWL
Section 9-17S-31E
Eddy County, NM

✓ H.E. West "B" #1
660' FNL 1980' FEL
Section 10-17S-31E
Eddy County, NM

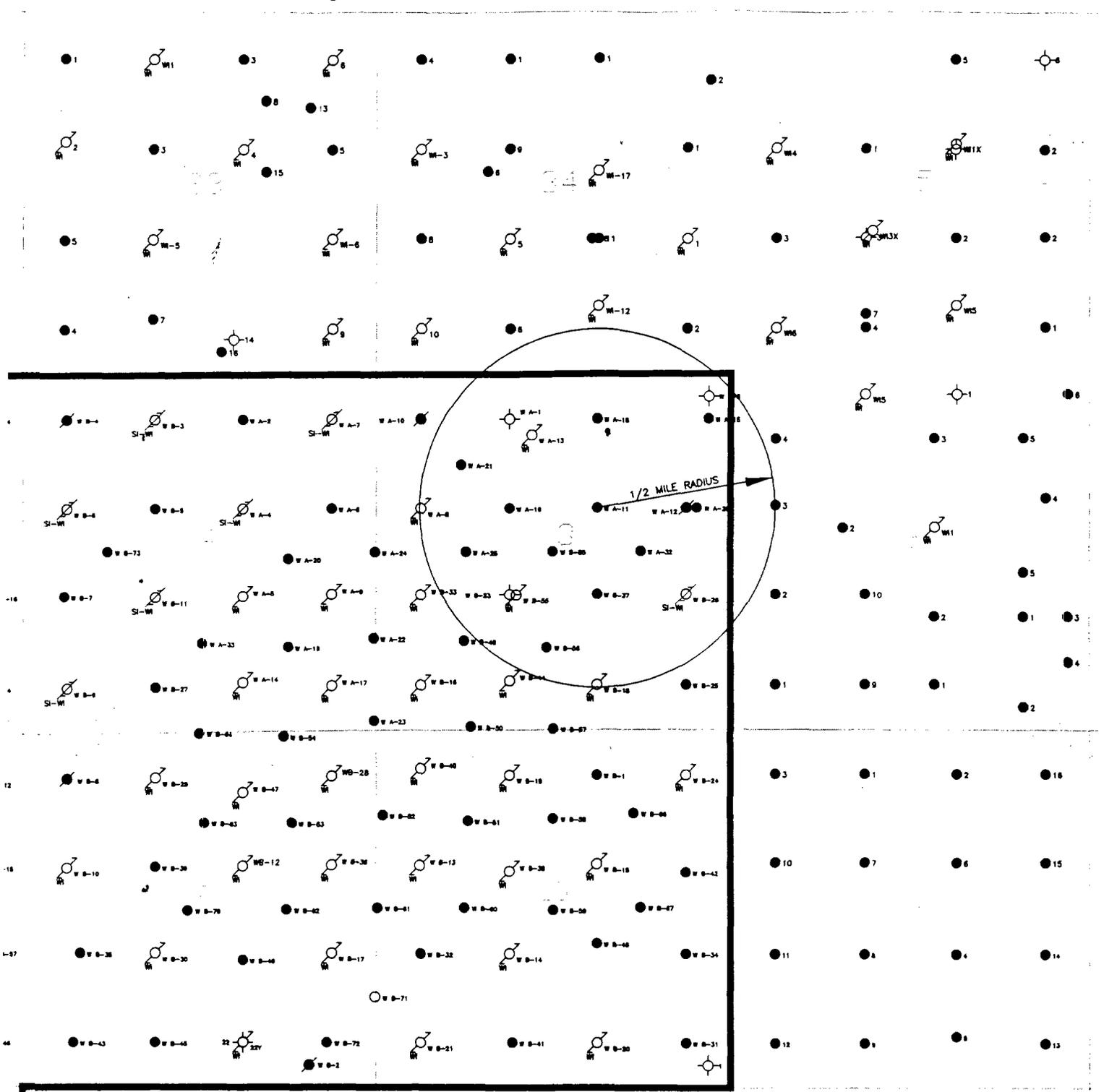
✓ H.E. West "B" #7
660' FWL & 1980' FSL
Section 4-17-31E
Eddy County, NM

✓ H.E. West "B" #27
660' FSL 1980' FWL
Section 3-17S-31E
Eddy County, NM

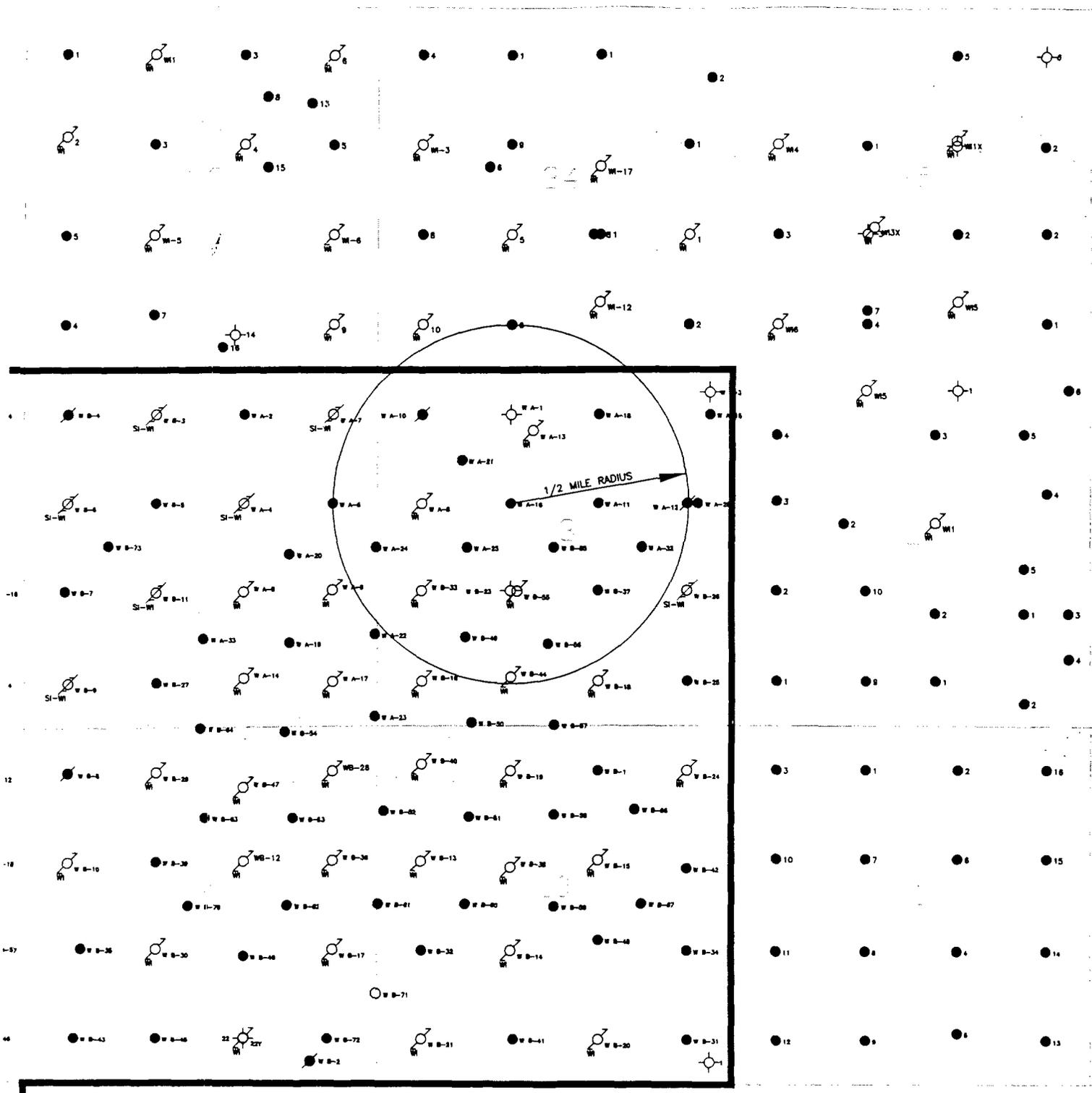
~~w/p~~ H.E. West "B" #35
860' FWL and 1980' FSL
Section 9-17S-31E
Eddy County, NM

✓ H.E. West "B" #32
1980' FSL 660' FWL
Section 10-17S-31E
Eddy County, NM

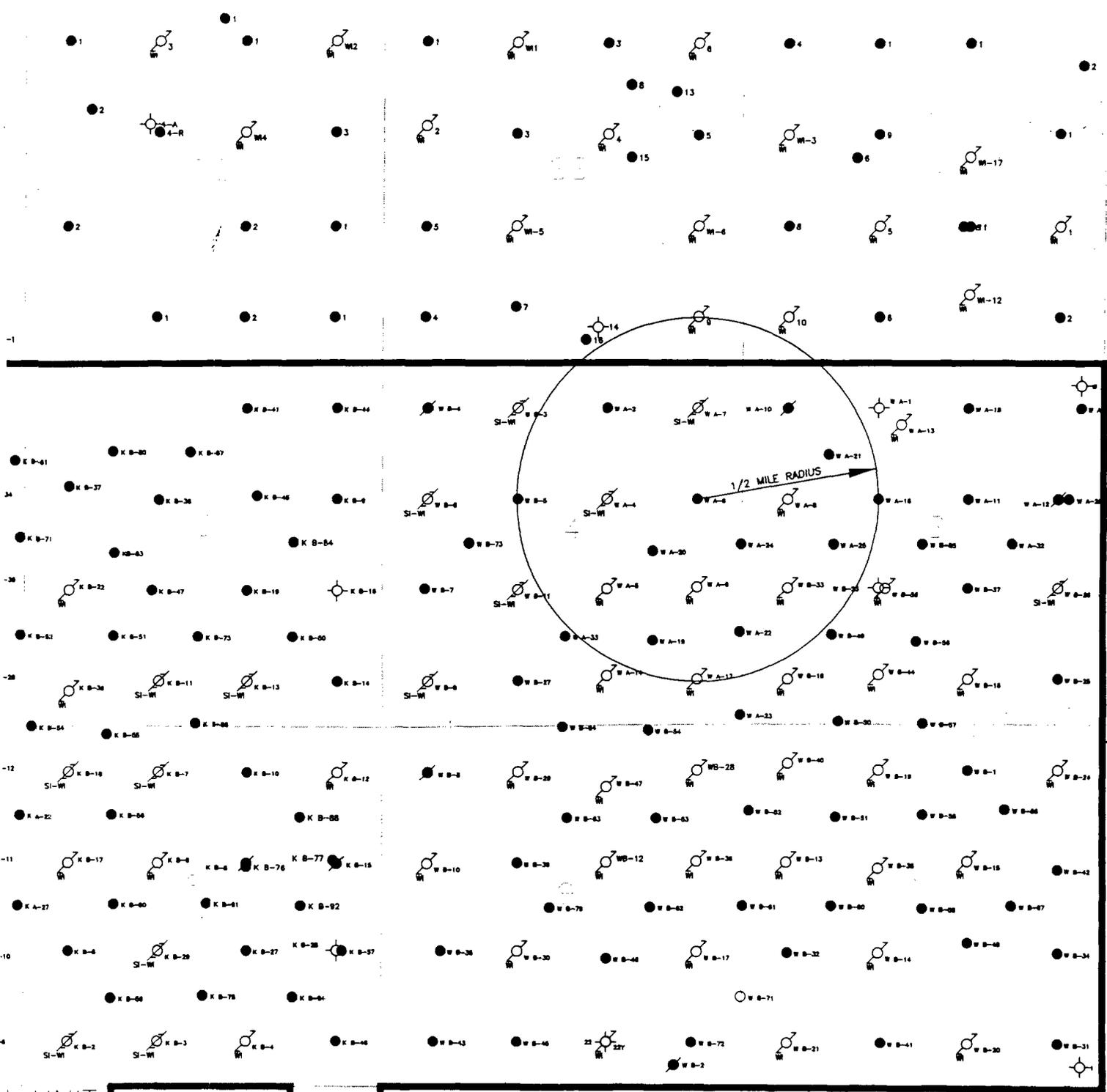
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1980' FSL 1980' FEL
Section 3-17S-31E
Eddy County, NM



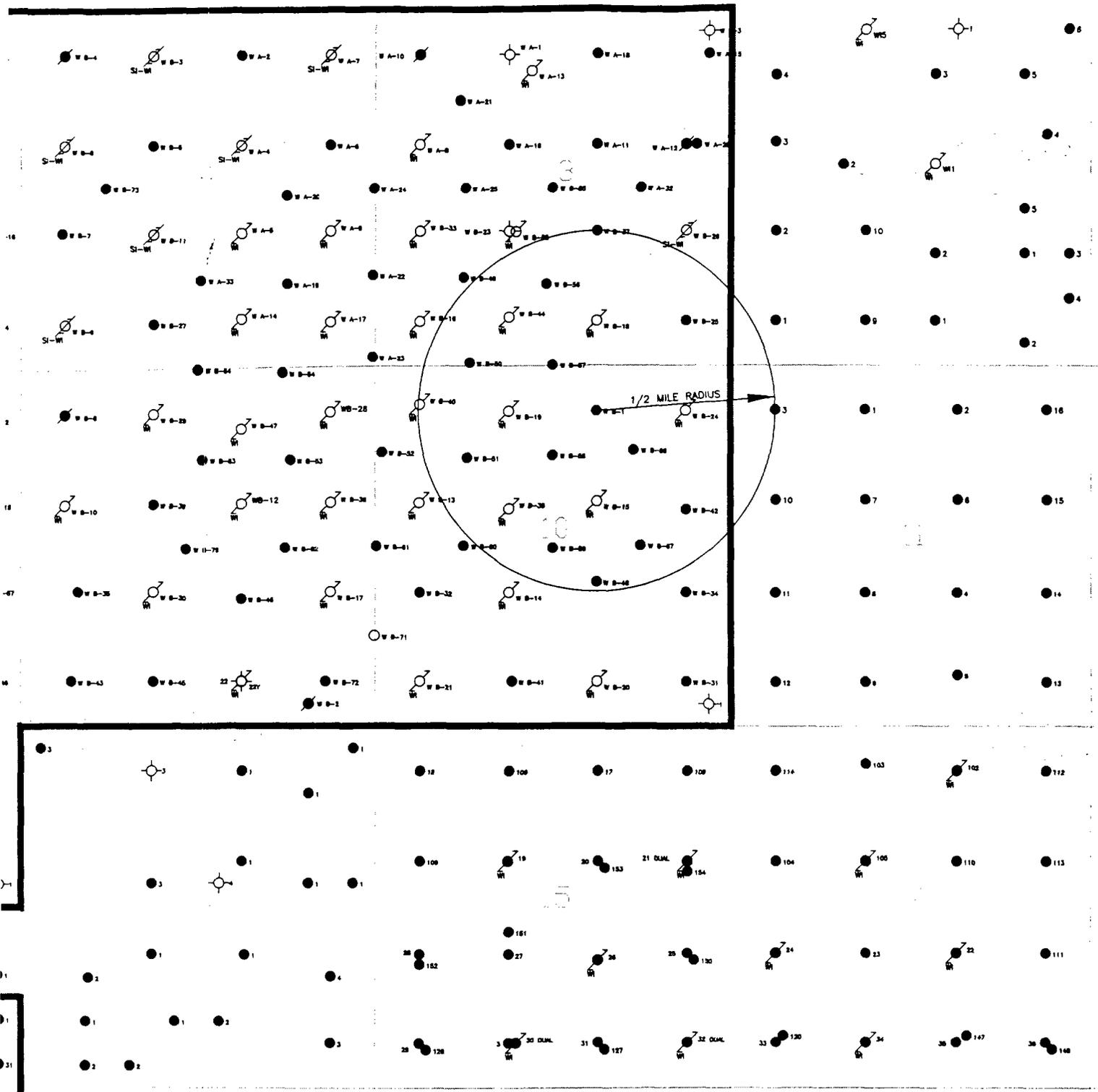
A 1



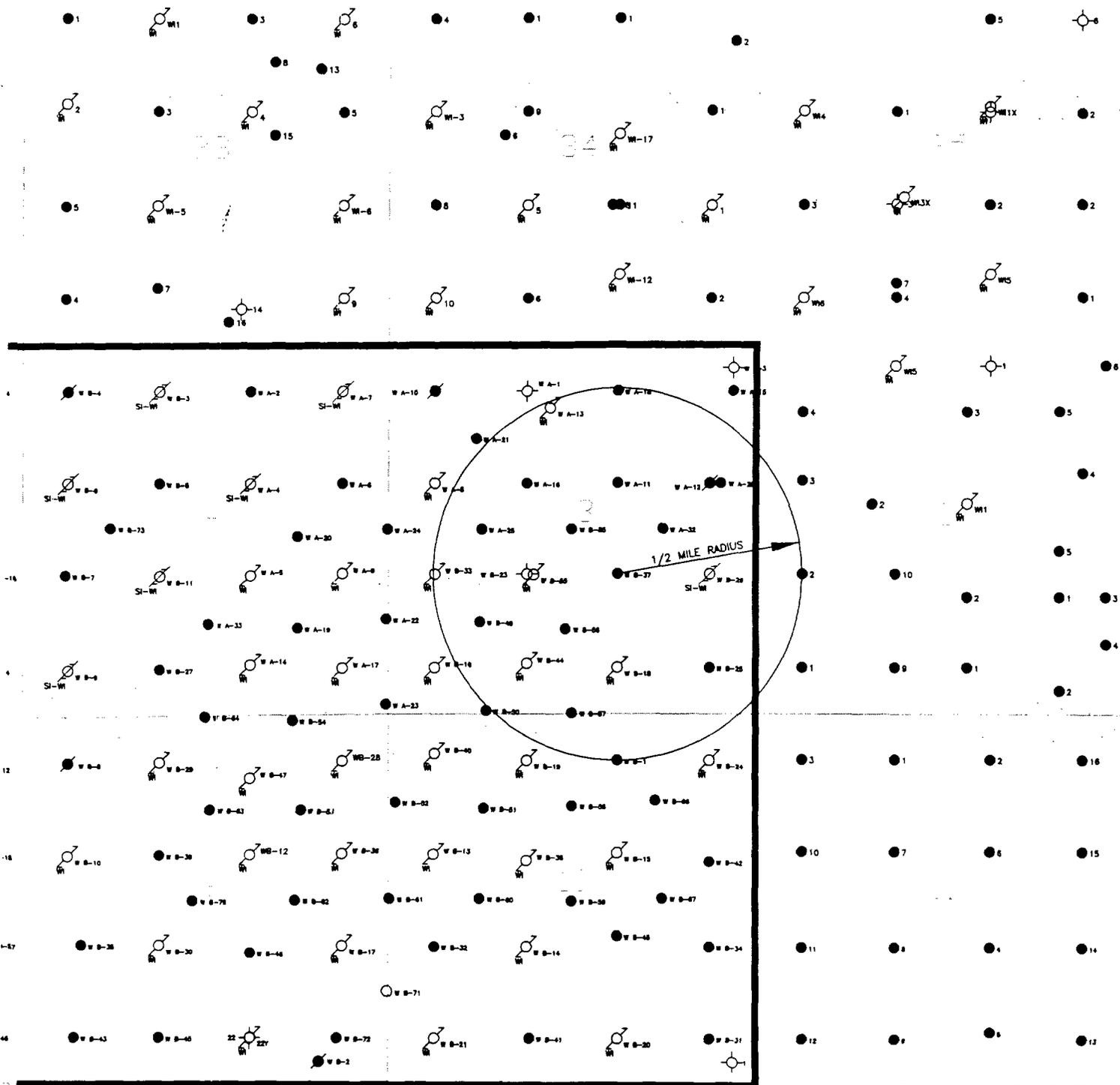
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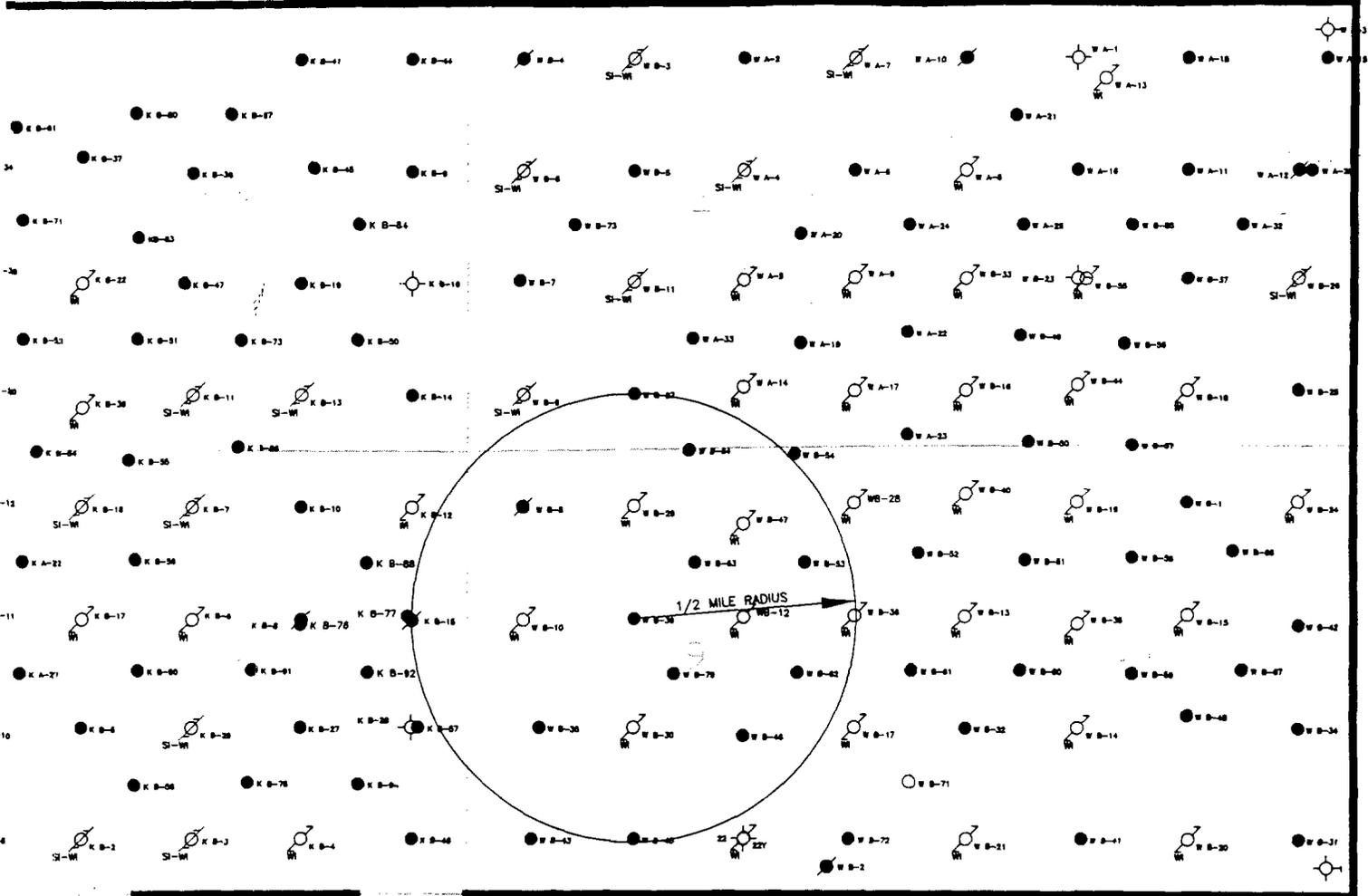
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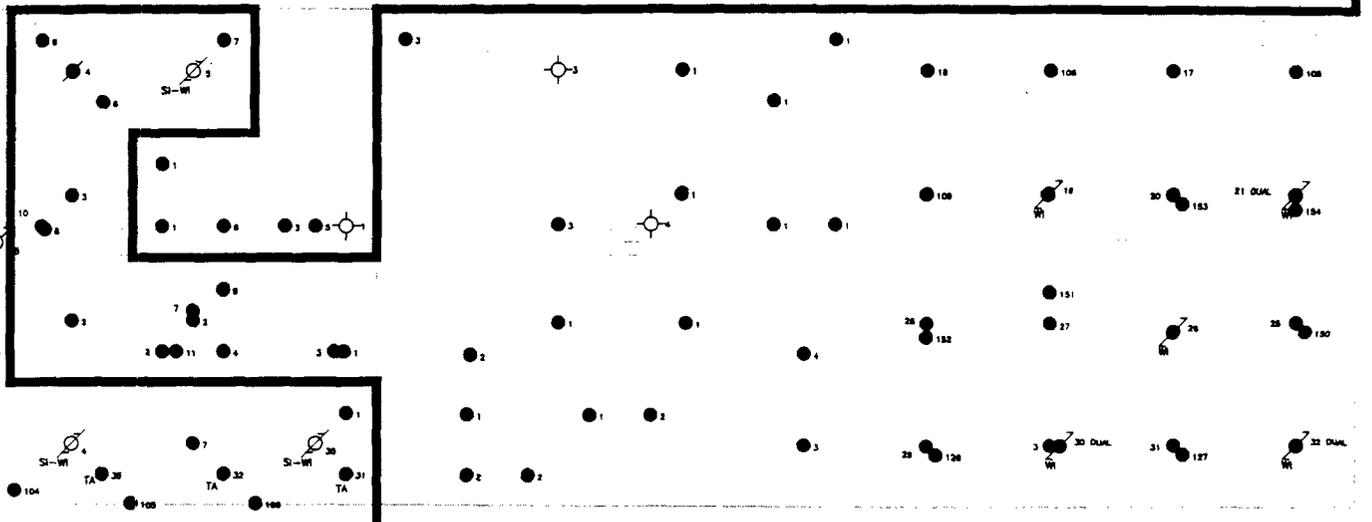
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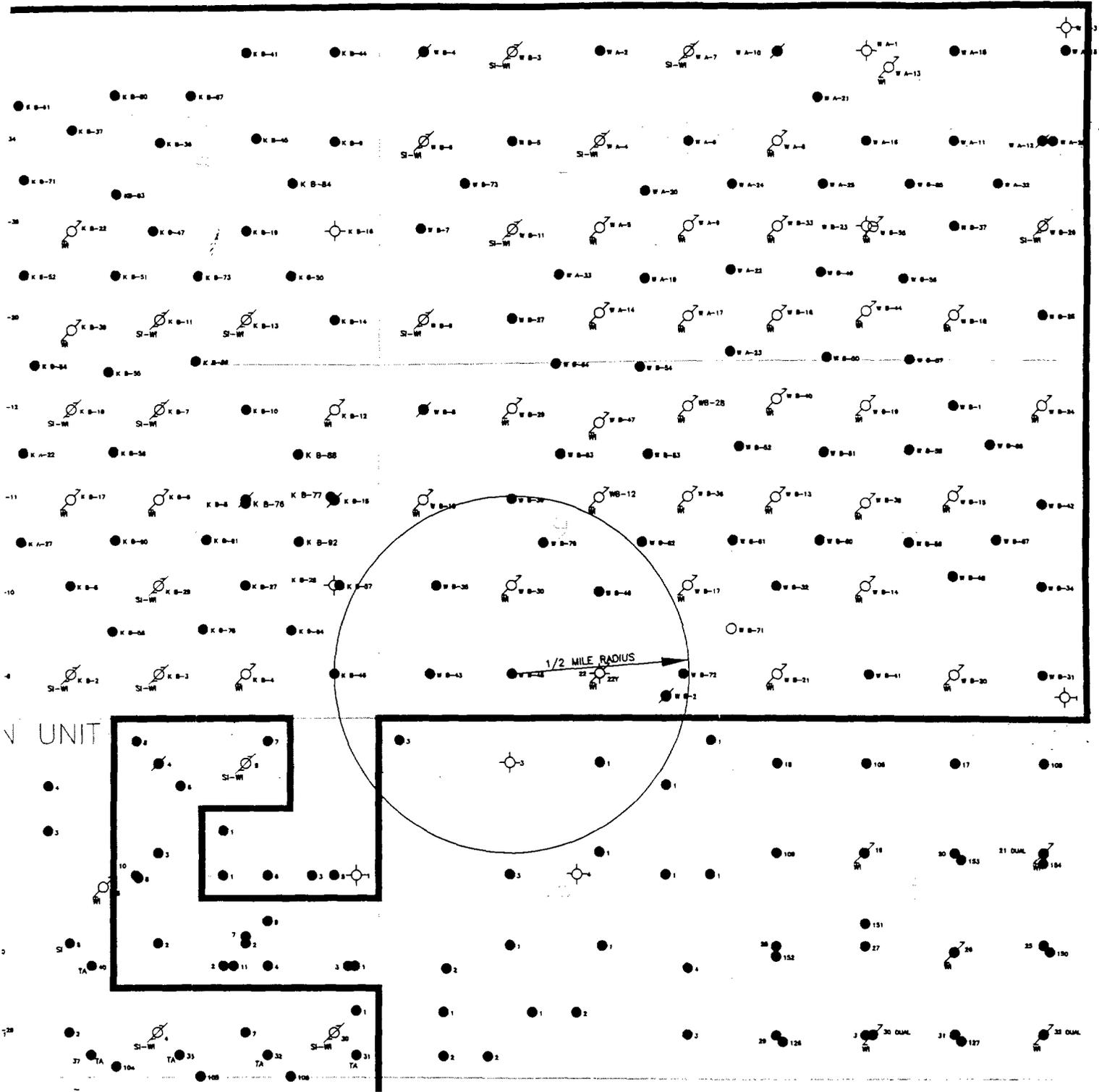
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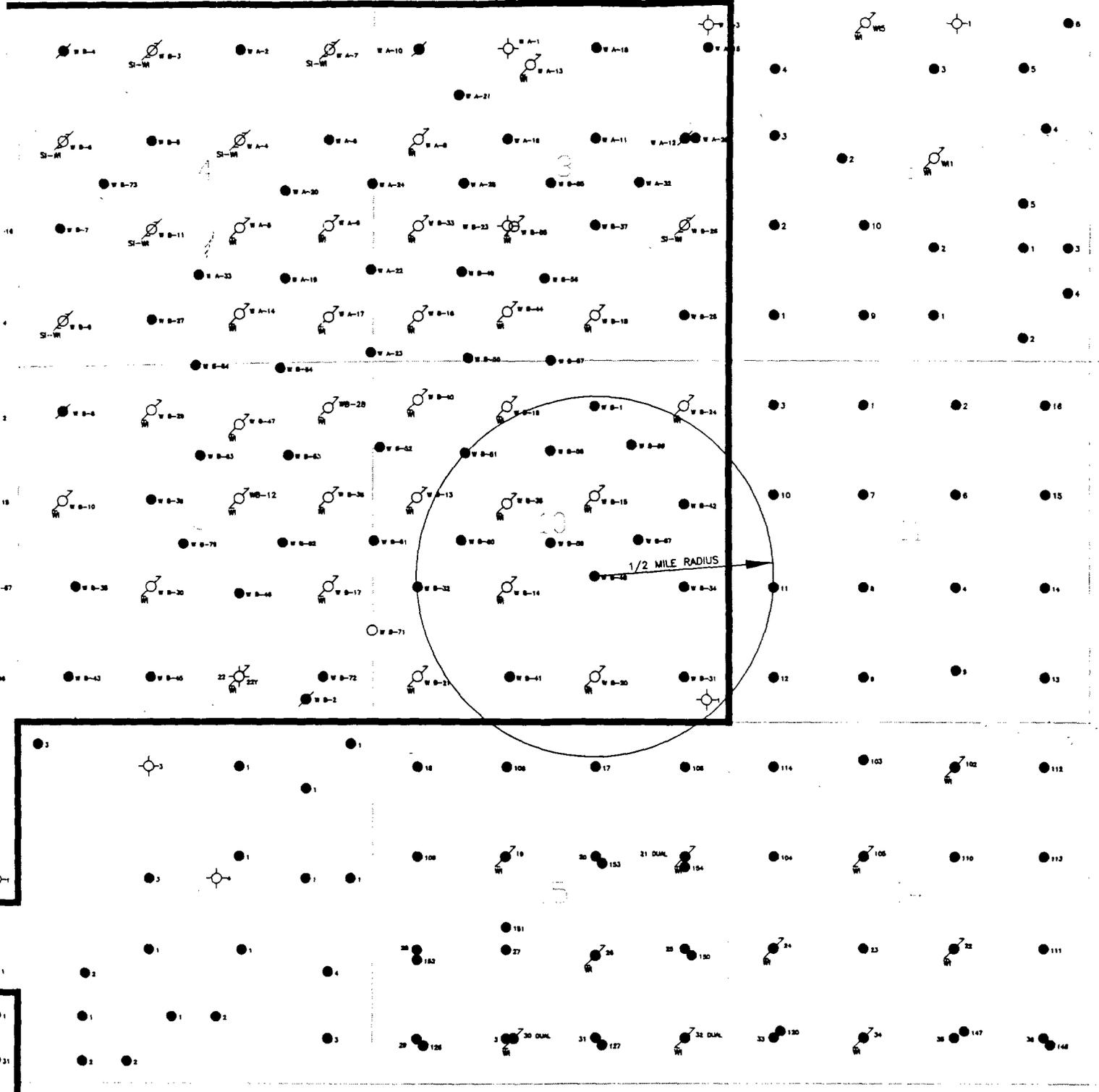
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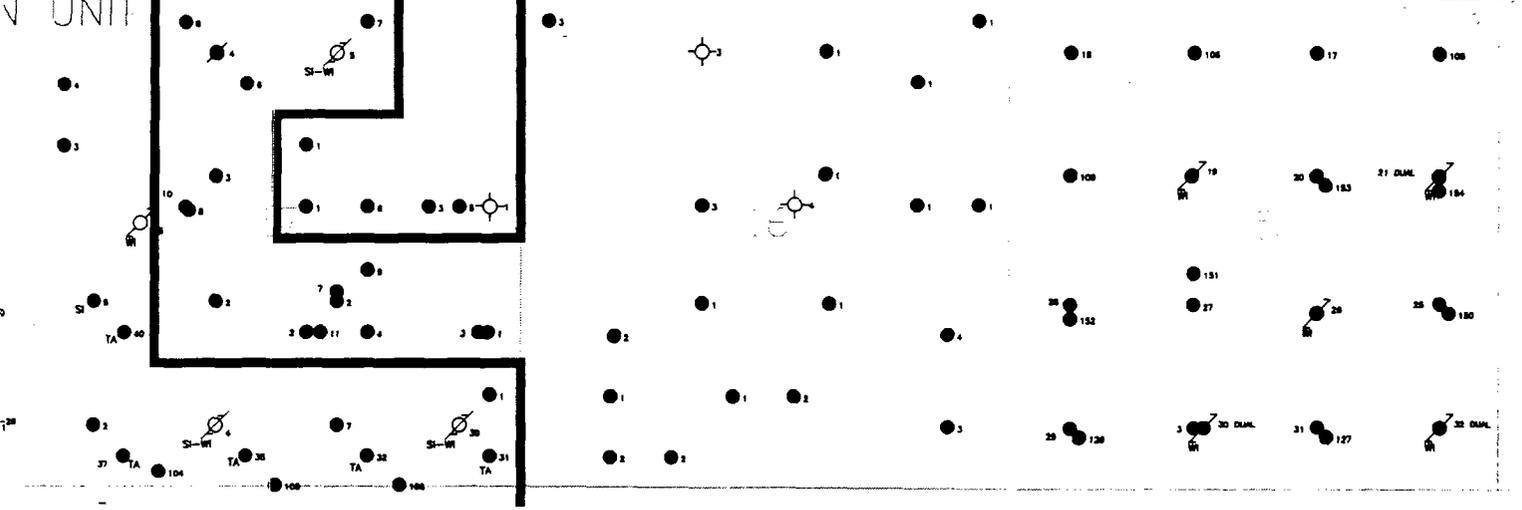
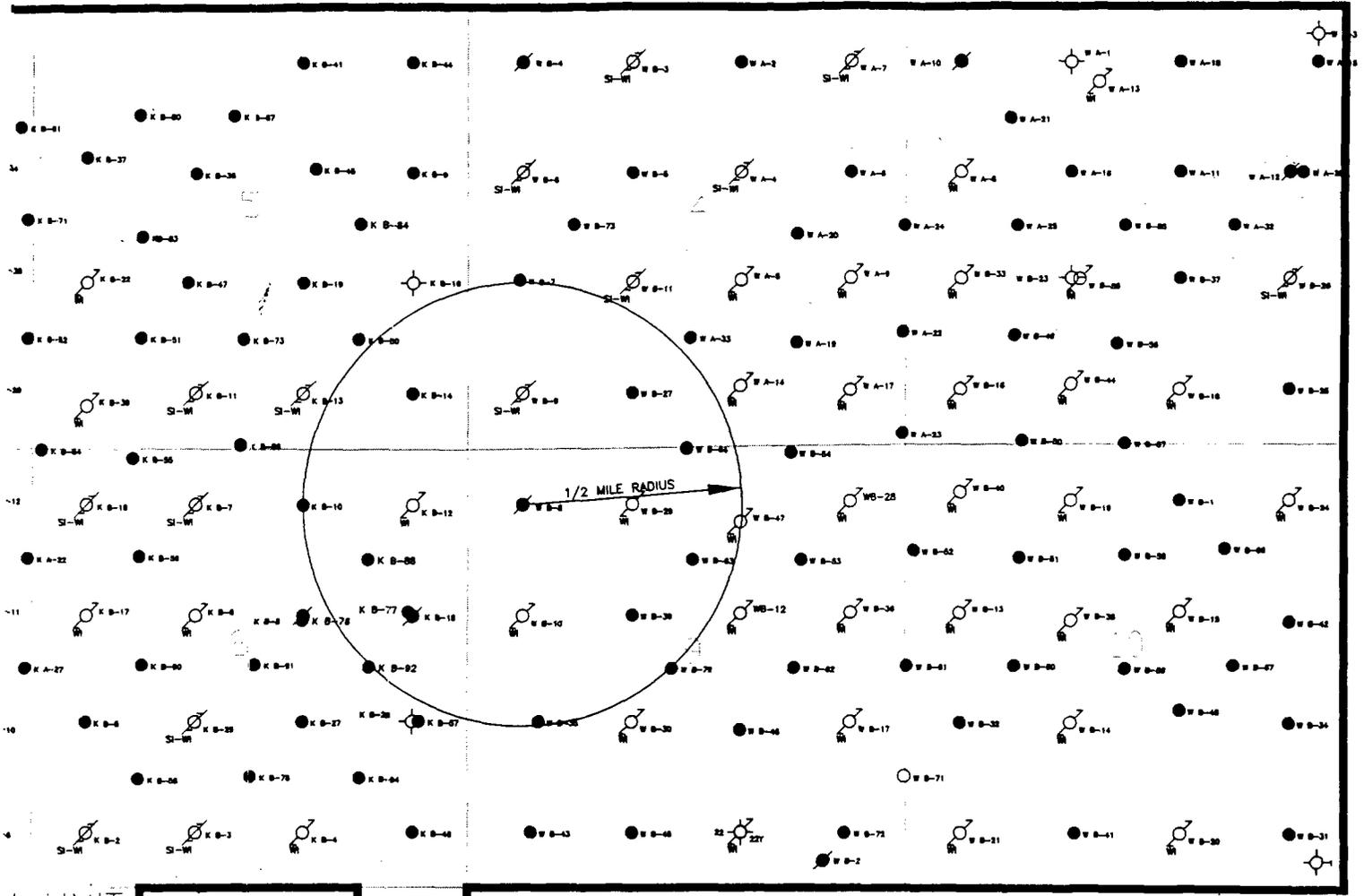
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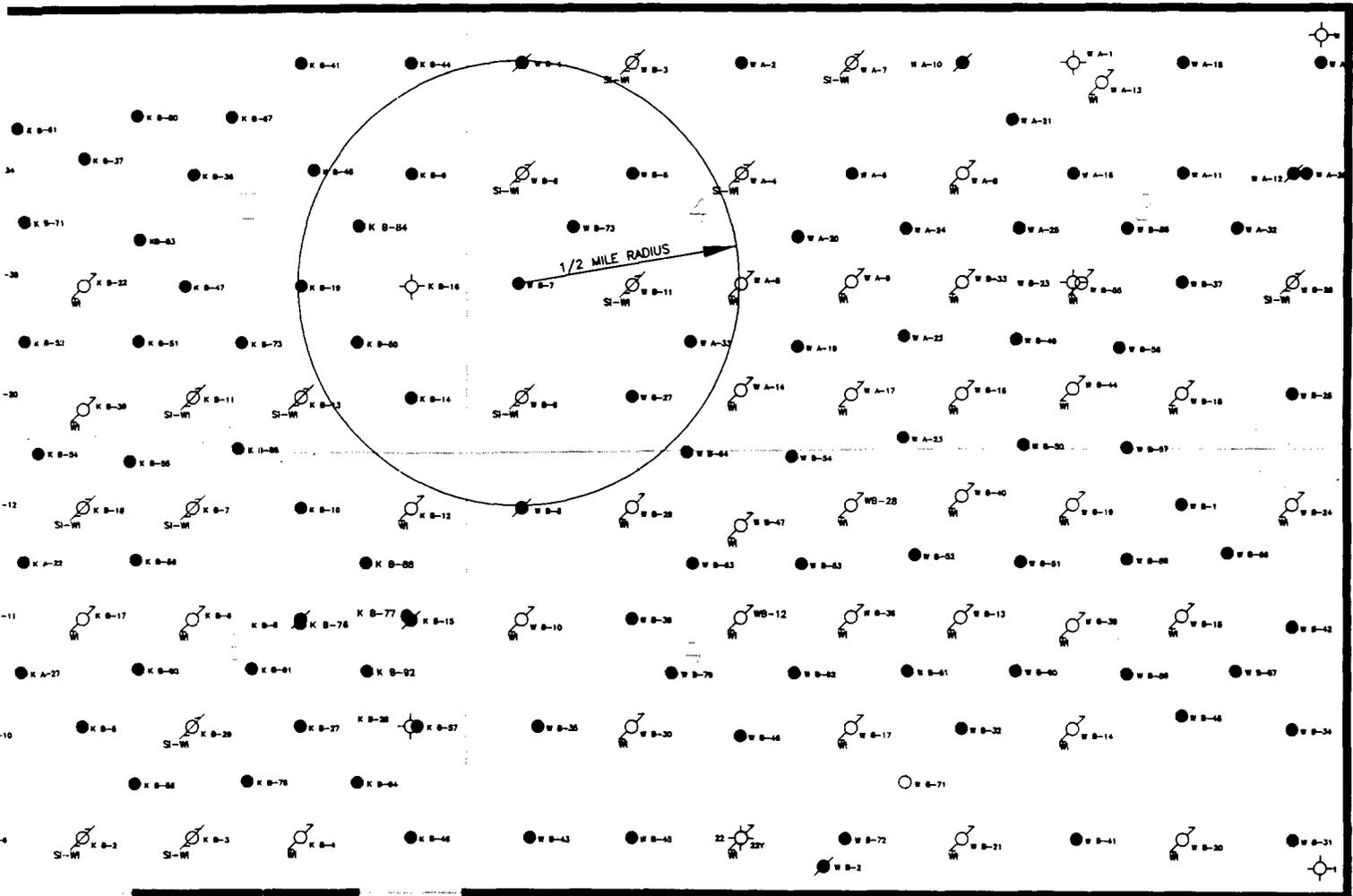
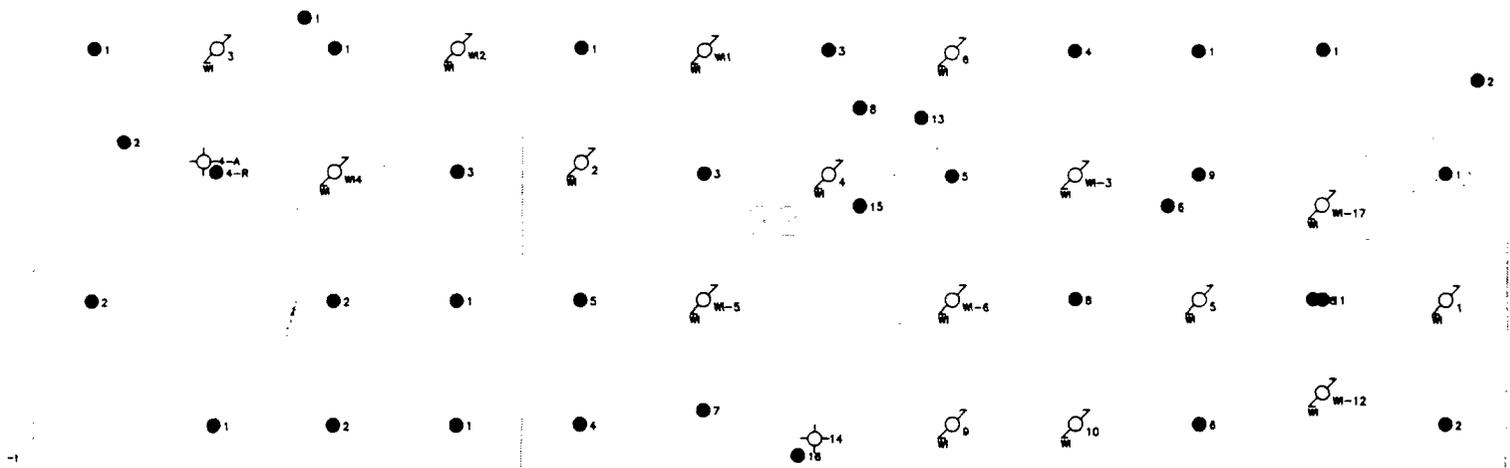
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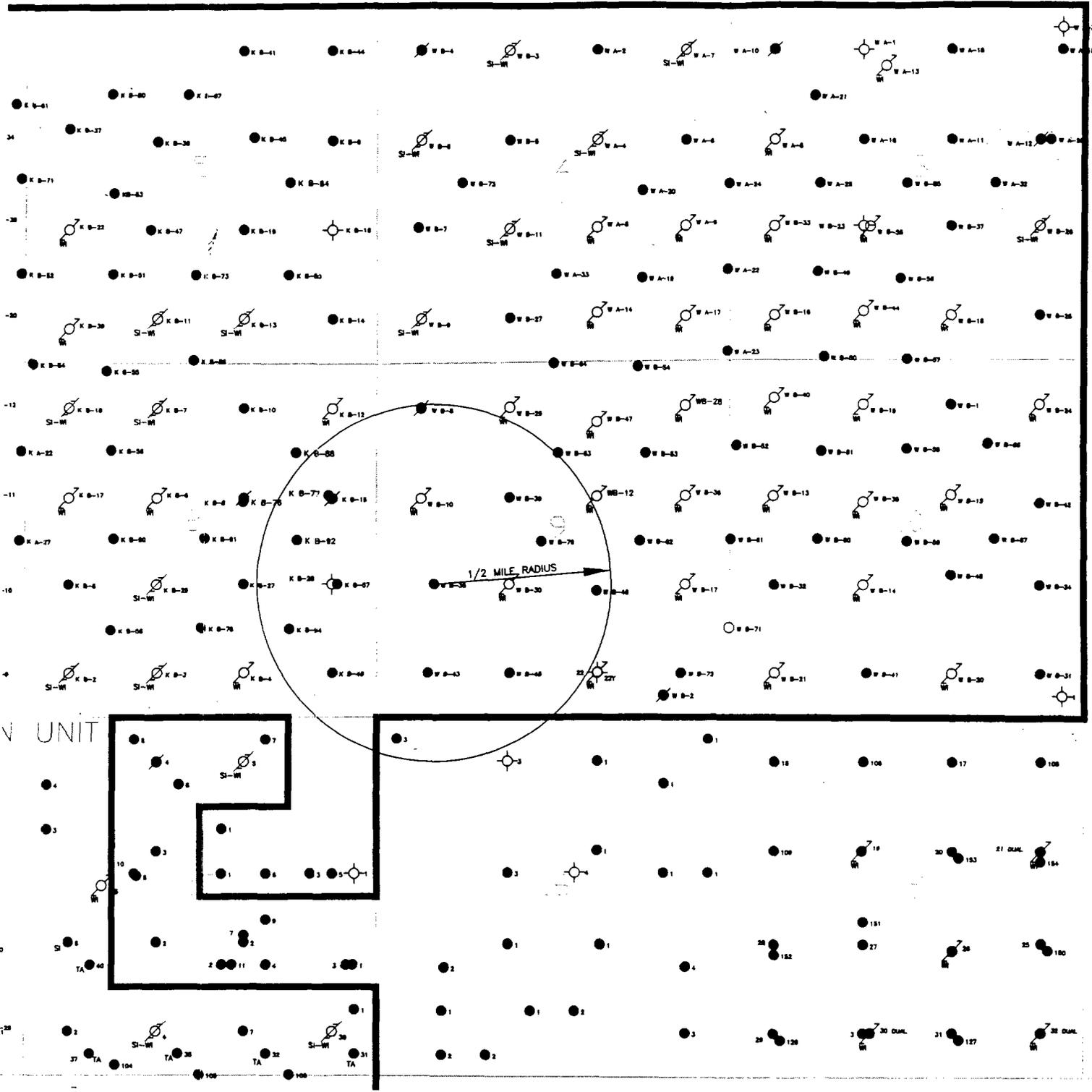
B48



B7C



B 7



V UNIT

B-35

ATTACHMENT III (tabular)

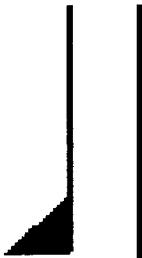
Well Data

- A.
- (1) H.E. West "A" #6
1980' FNL 660' FEL
Section 4-17S-31E
Eddy County, NM
 - (2) **Surface Casing:** 8-5/8" 24#, set @ 740' w/100 sxs cmt.
Est TOC @ 480'. (11" hole)
Production Casing: 7" set @ 3220' w/200 sxs cmt.
Est TOC @ 2884'. (11" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
 - (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3075'.
 - (4) A Baker J-Loc Pkr will be set @ 3075'
- B.
- (1) The injection formations will be the Grayburg/San Andres in the Grayburg/Jackson field.
 - (2) The proposed intervals are 3150-3990'. The injection interval will be open hole 3220-3990' and through existing and proposed perforations 3150-3220'.
 - (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
 - (4) Additional Perforations may be added in the 3150-3220' interval.
 - (5) The Top of the Seven Rivers Formation is approximately 2300', there are no known lower oil formations.

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "A" #6
1980' FNL 660' FEL
Section 4-17S-31E
Eddy County, NM

GL 3948'



11" HOLE
8 5/8" 24# CSG @
740' w/100 SXS CMT.
EST TOC @ 480'

11" HOLE
7" 20# CSG @ 3220'
w/200 SXS CMT.
EST TOC @ 2884'

OH
3220-3870'

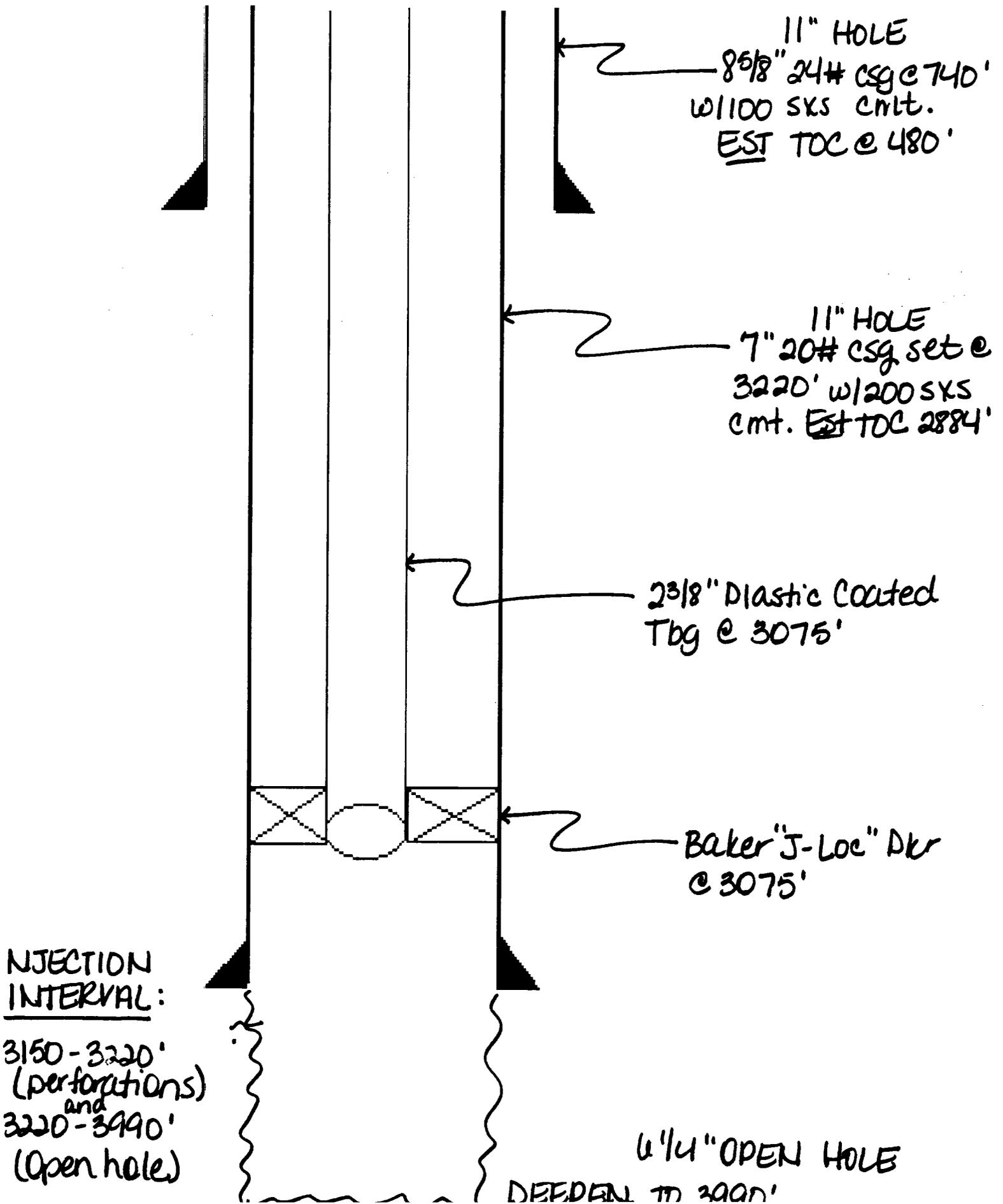


6 1/4" OH 3369-3870'

3870'

Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

H.E. West "A" #6
1980' FNL 660' FEL
Section 4-17S-31E
Eddy County, NM



Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

ATTACHMENT III (tabular)

Well Data

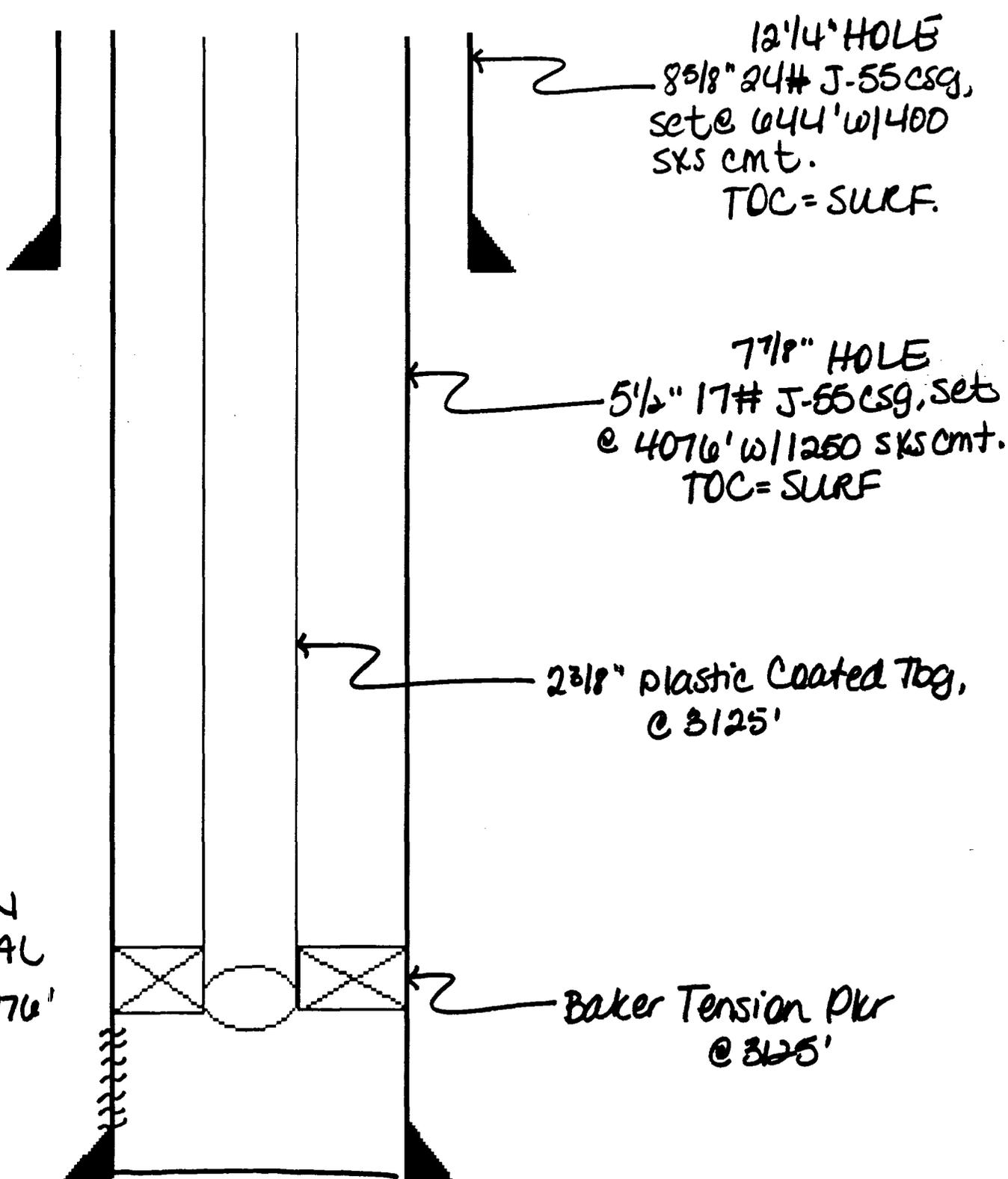
- A. (1) H.E. West "A" #16
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24#, set @ 644' w/400 sxs cmt.
TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 17# J-55 set @ 4076' w/1250 sxs cmt.
TOC surface. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3125'.
- (4) A Baker Tension pkr (or equivalent) will be set @ 3125' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3200-4076'. The injection interval will be
perforations in the 5-1/2" csg.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3100-3918' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

H.E. West "A" #16
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM



12 1/4" HOLE
8 5/8" 24# J-55 CSG,
set @ 644' w/ 400
SKS cmt.
TOC = SURF.

7 7/8" HOLE
5 1/2" 17# J-55 CSG, set
@ 4076' w/ 1250 SKS cmt.
TOC = SURF

2 3/8" Plastic Coated Tbg,
@ 3125'

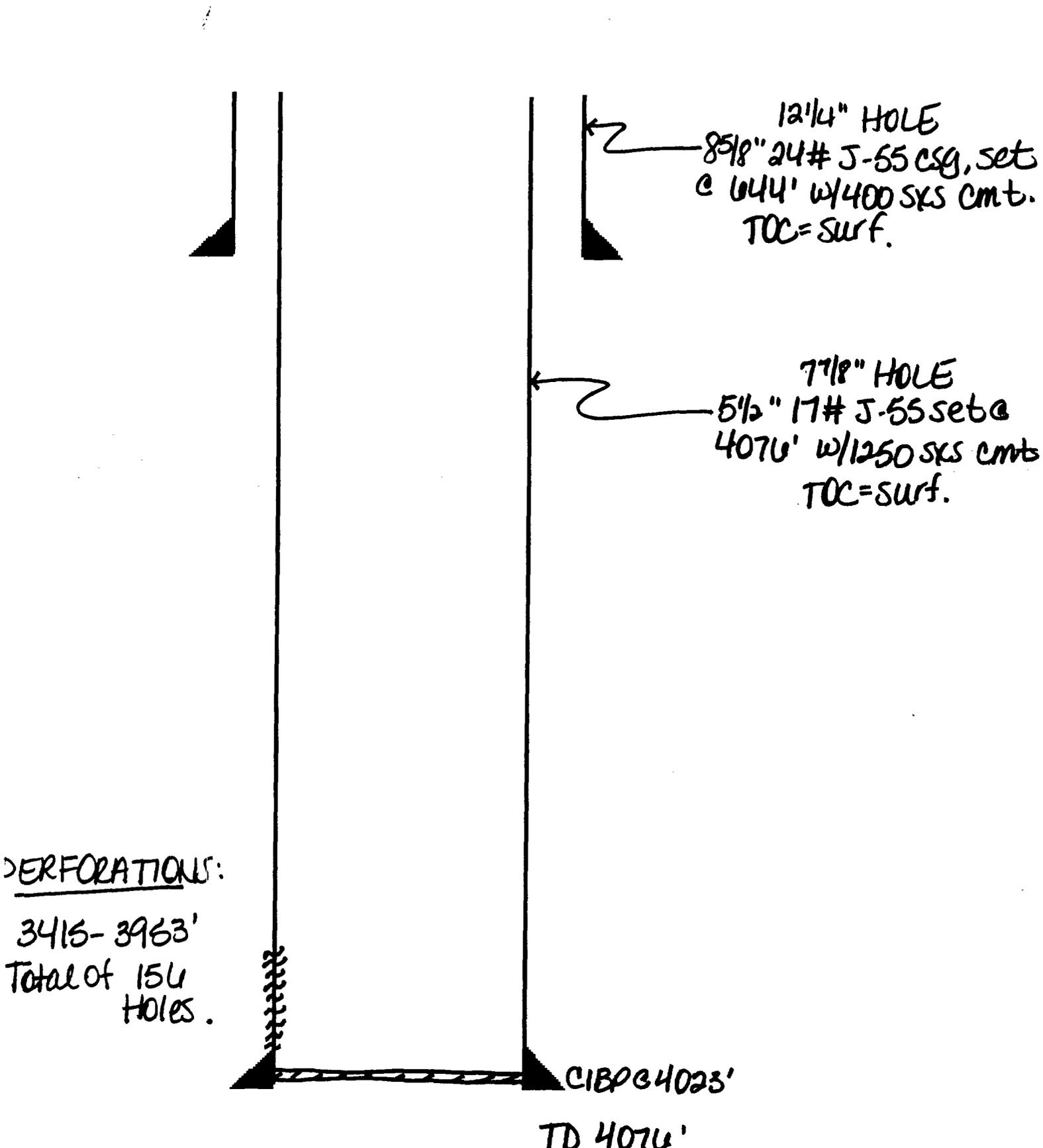
Baker Tension Pkr
@ 3125'

INJECTION
INTERVAL
3200-4076'

PBTD 4023'
TD 4076'

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "A" #16
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM



ATTACHMENT III (tabular)

Well Data

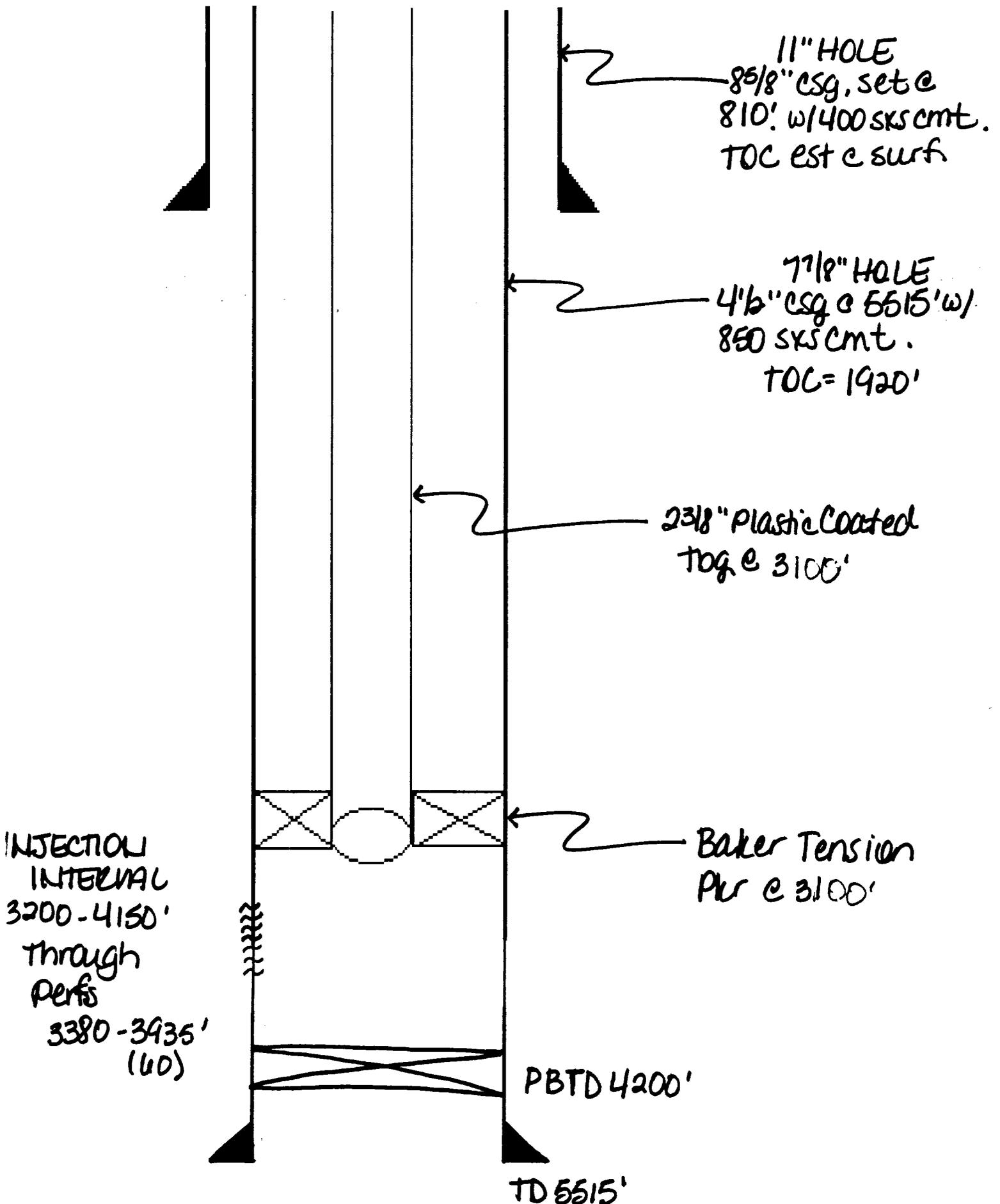
- A. (1) H.E. West "B" #1
660' FNL 1980' FEL
Section 10-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24#, set @ 810' w/400 sxs cmt.
Est TOC surface. (11" hole)
Production Casing: 4-1/2" 10.5# J-55 set @ 5515' w/850 sxs cmt.
TOC 1920'. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" 4.7#, set @ 3100'. No additional liner material is anticipated.
- (4) A Baker Tension Pkr will be set @ 3100' in tension
- B. (1) The injection formations will be the Grayburg/San Andres in the Grayburg/Jackson field.
- (2) The proposed intervals are 3200-4150'. The injection interval will be ~~and~~ through existing perforations 3380-3754' and 3800-3935'.
- (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
- (4) Additional perforations may be added over the interval 3200-4150'.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are no known lower oil formations.

Devon Energy Operating Corporation

Attachment III - Schematic

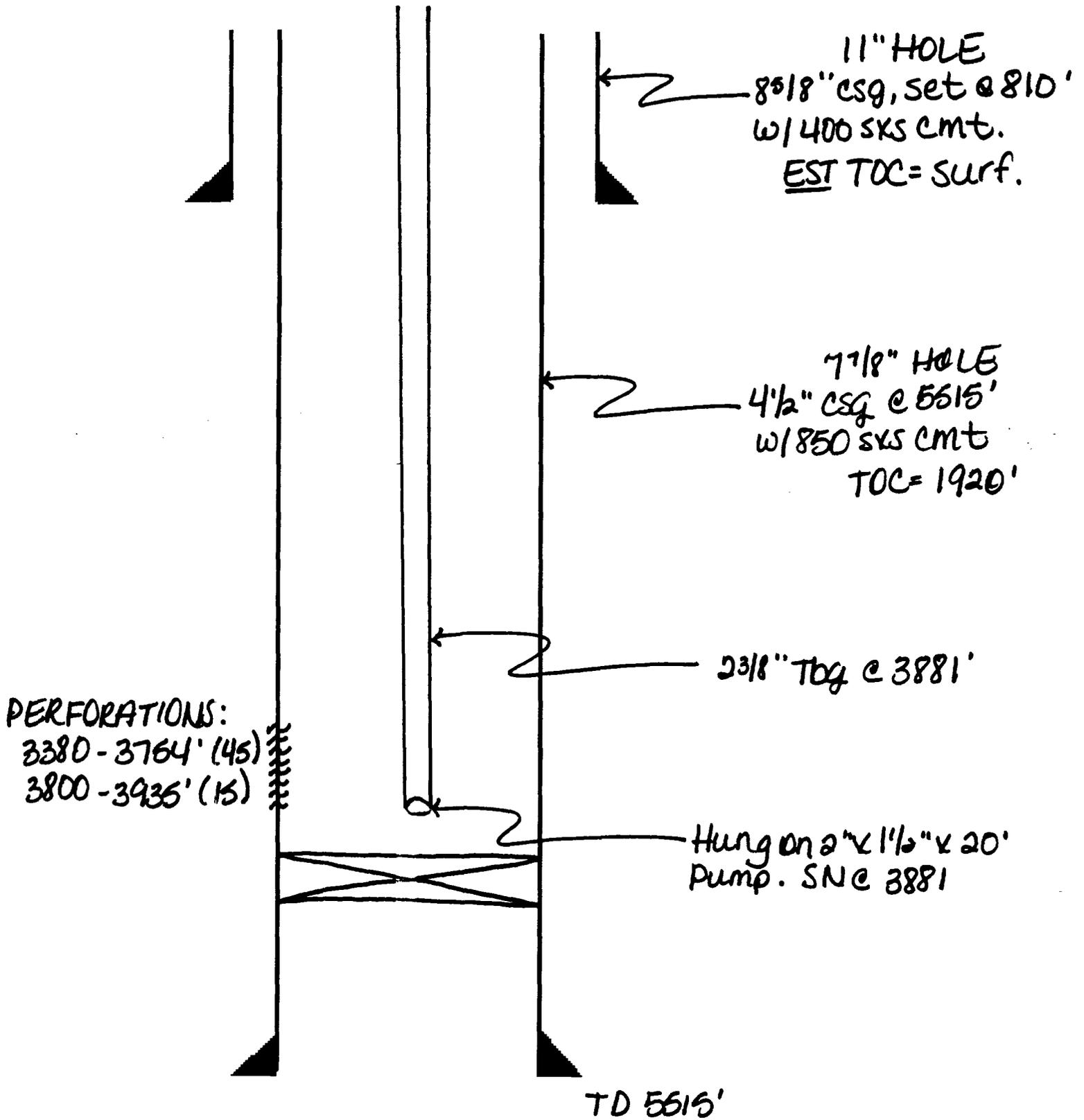
PROPOSED WELLBORE

H.E. West "B" #1
660' FNL 1980' FEL
Section 10-17S-31E
Eddy County, NM



Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #1
660' FNL 1980' FEL
Section 10-17S-31E
Eddy County, NM



ATTACHMENT III (tabular)

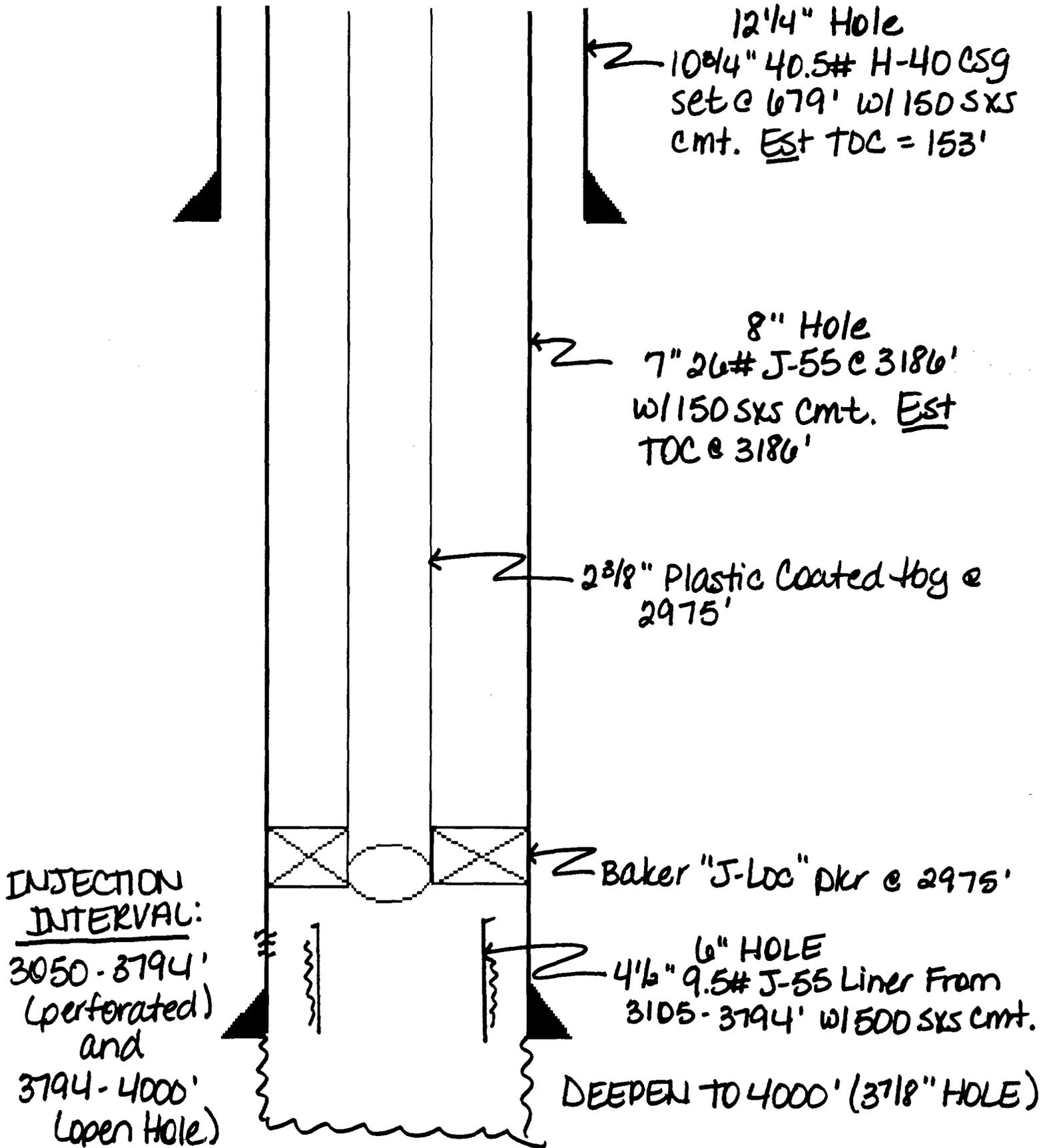
Well Data

- A. (1) H.E. West "B" #5
1980' FNL 1980' FWL
Section 4-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 10-3/4" 40.5# H-40, set @ 679' w/150 sxs cmt.
Est TOC @ 153'. (12-1/4" hole)
Production Casing: 7" 26#, J-55 set @ 3186' w/150 sxs cmt.
Est TOC @ 1976'. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" Plastic Coated 4.7#, set @ 2975'.
- (4) Baker Tension Packer (or equivalent) set @ 3975' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3050-4000'. The injection interval will be open
hole (3794-4000') and through existing and proposed perforations 3050-
3794'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3393-3794' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

H.E. West "B" #5
1980' FNL 1980' FWL
Section 4-17S-31E
Eddy County, NM

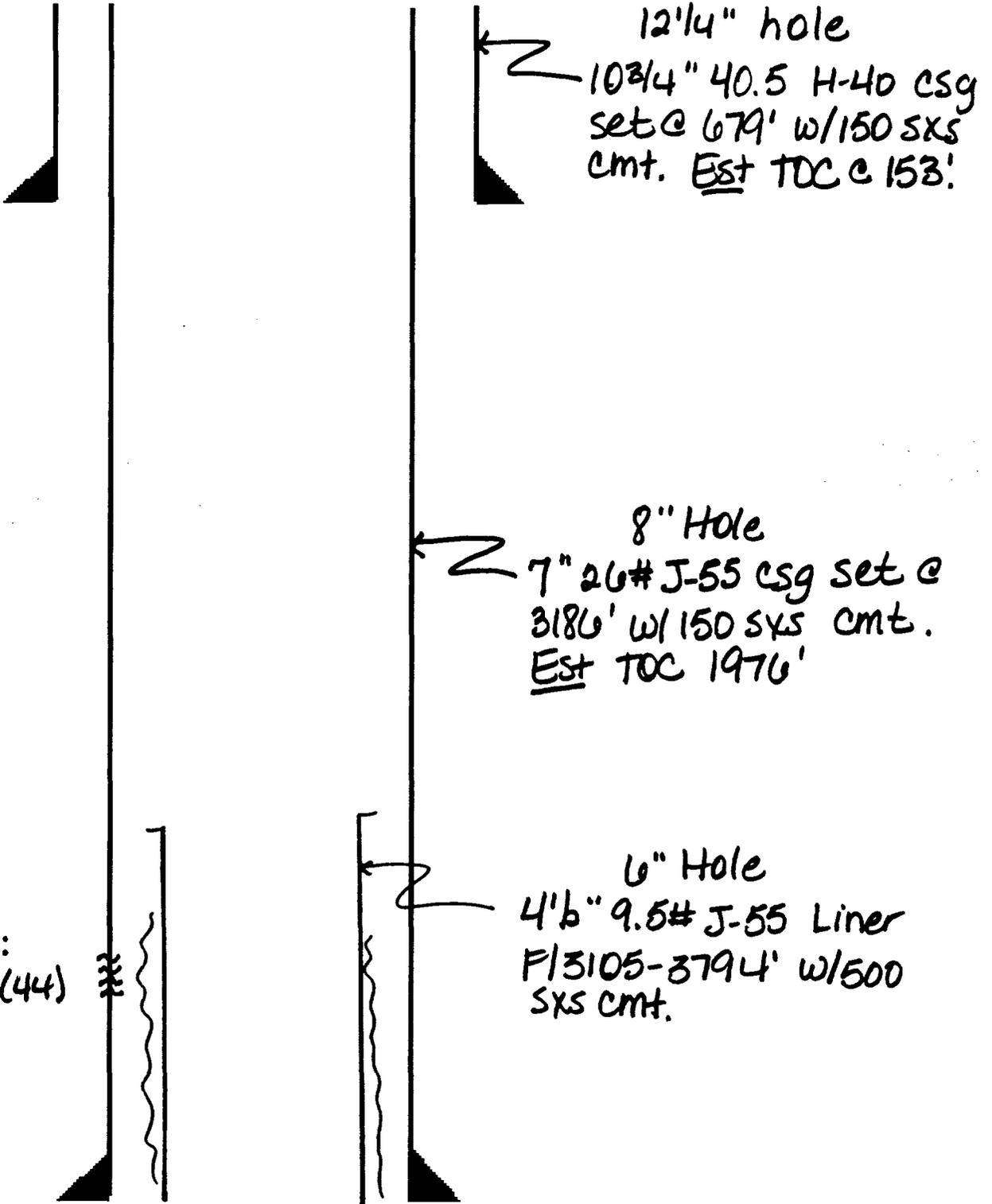
GL = 3929'



Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #5
1980' FNL 1980' FWL
Section 4-17S-31E
Eddy County, NM

GL = 3929'



Perforations:
3393 - 3558' (44)

ATTACHMENT III (tabular)

Well Data

- A. (1) H.E. West "B" #27
660' FSL 1980' FWL
Section 3-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 13-3/8" set @ 650' w/740 sxs cmt.
TOC surface. (15" hole)
Production Casing: 9-5/8" set @ 3800' w/1300 sxs poz + 150 sxs cl "C"
cmt. TOC surface. (10-1/2" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" Plastic coated 4.7#, set @ 2975'.
- (4) A Baker J-Loc Pkr (or equivalent) will be set @ 2975'
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The injection interval will be open hole 3800-3885', and through existing
and proposed perforations over the interval 3050-3800'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3050-3800' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation

Attachment III - Schematic

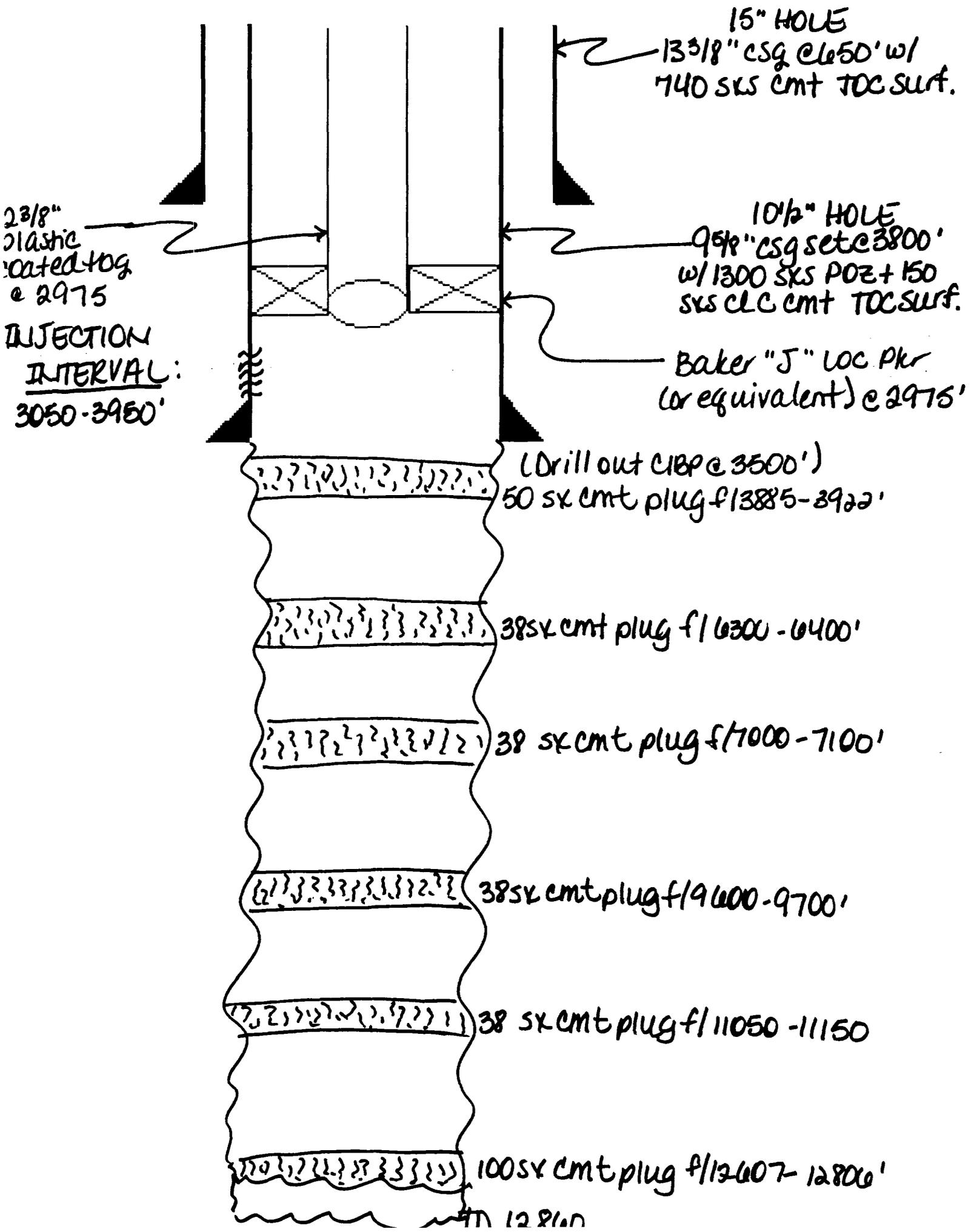
PROPOSED WELLBORE

H.E. West "B" ~~23~~ 27

~~1980 FSL 1980 FEL~~

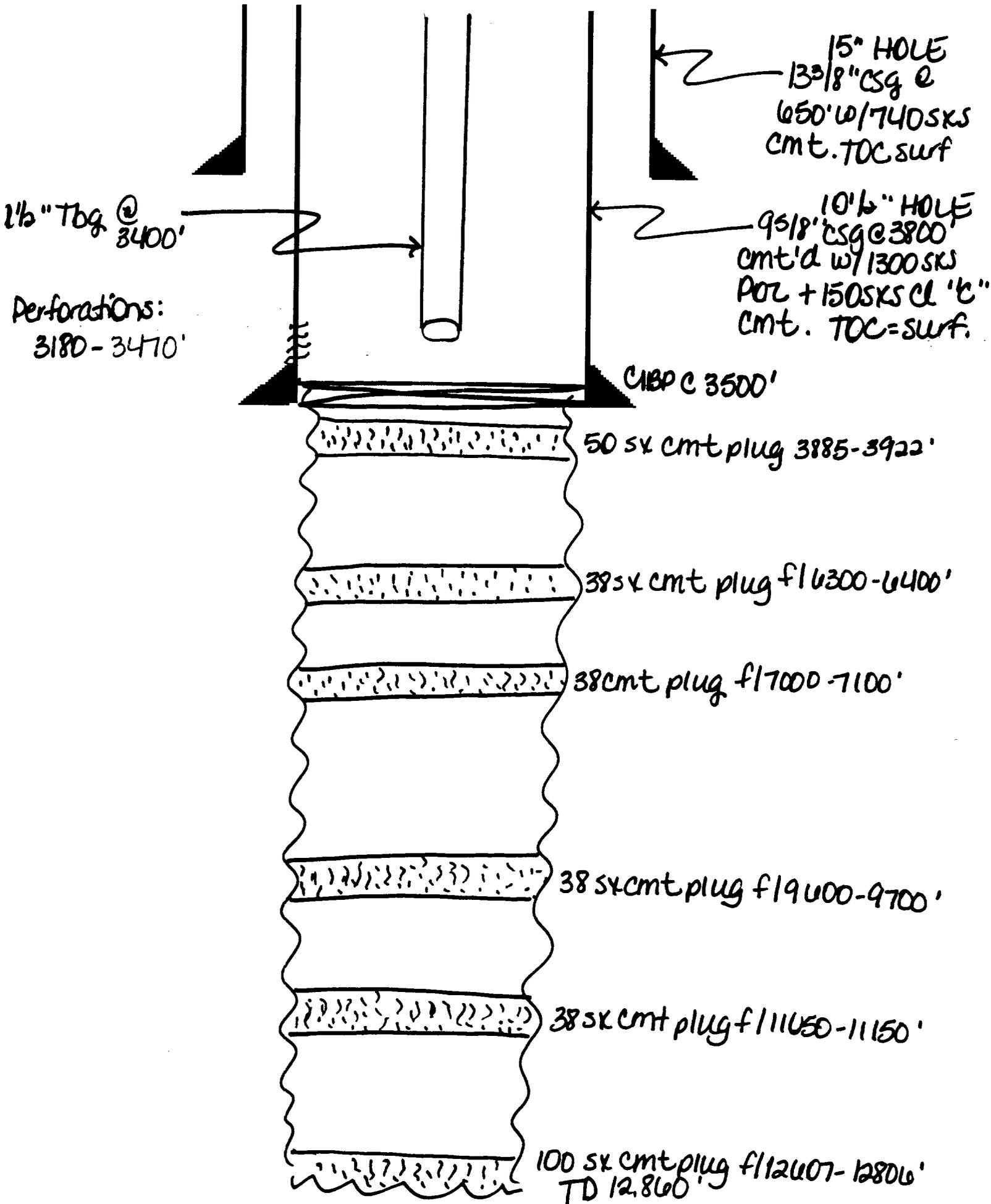
~~Section 0 170 31E~~ 660' FSL + 1980' FWC

Eddy County, NM



Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "~~B-#5~~ B-27"
 1980' FNL 1980' FWL
 Section 4-17S-31E
 Eddy County, NM



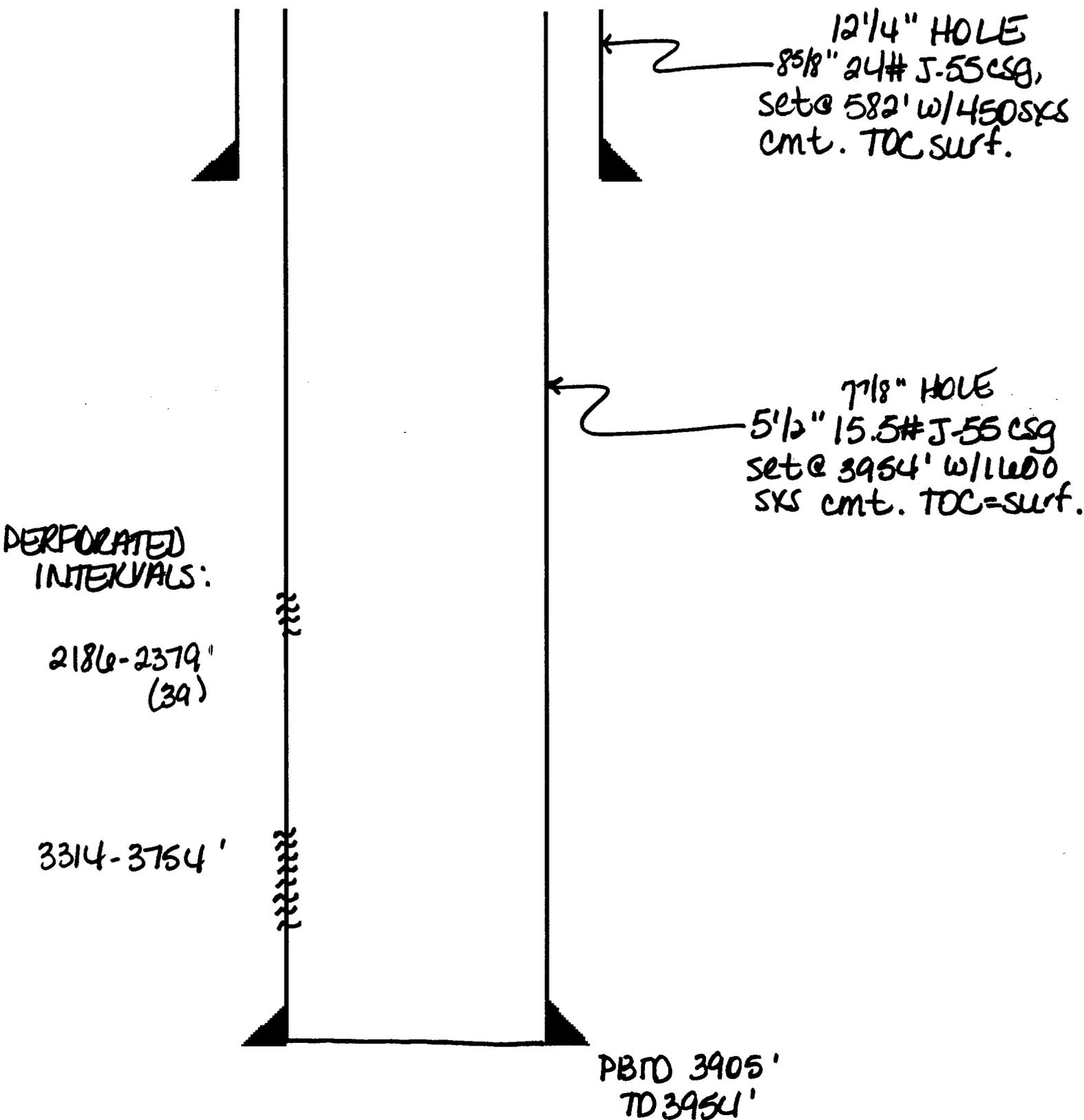
ATTACHMENT III (tabular)

Well Data

- A. (1) H.E. West "B" #32
1980' FSL 660' FWL
Section 10-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24#, set @ 582' w/450 sxs cmt.
Est TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 15.5# J-55 set @ 3954' w/160 sxs cmt.
Est TOC surface. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3075'
- (4) A Baker Tension Pkr (or equivalent) will be set @ 3075' in tension
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3150-4100'. The injection interval will be open
hole 3954-4100' and through existing and proposed perforations 3150-
3954'
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3150-3954' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

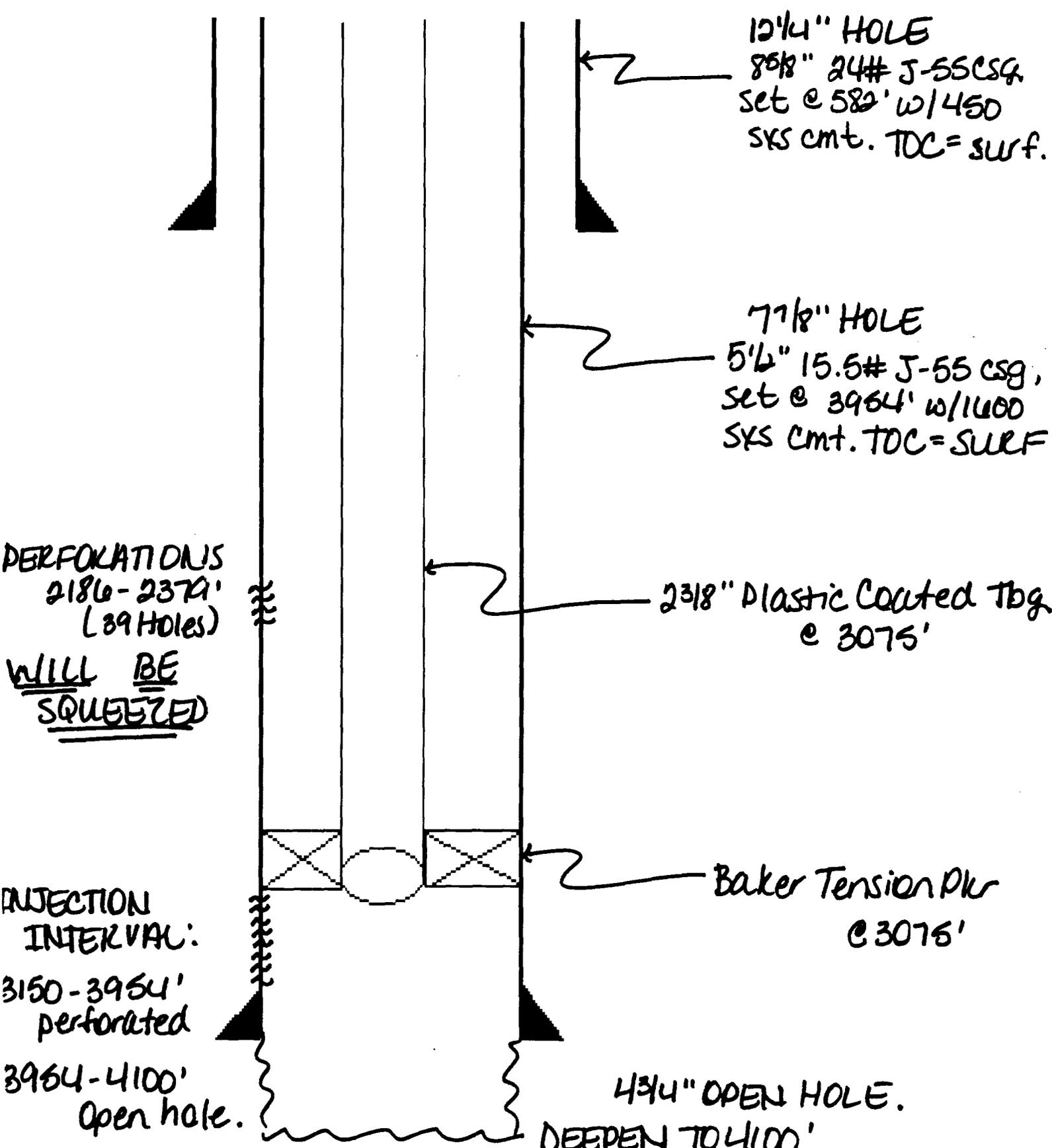
Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #32
1980' FSL 660' FWL
Section 10-17S-31E
Eddy County, NM



Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

H.E. West "B" #32
1980' FSL 660' FWL
Section 10-17S-31E
Eddy County, NM



10 1/4" HOLE
8 5/8" 24# J-55 CSQ
set @ 582' w/450
SYX cmt. TOC = SURF.

7 7/8" HOLE
5 1/2" 15.5# J-55 CSQ,
set @ 3954' w/1100
SYX Cmt. TOC = SURF

2 3/8" Plastic Coated Tbg
@ 3075'

Baker Tension Plr
@ 3075'

PERFORATIONS
2186 - 2371'
(89 HOLES)
WILL BE
SQUEEZED

INJECTION
INTERVAL:
3150 - 3954'
perforated

3954 - 4100'
Open hole.

4 3/4" OPEN HOLE.
DEEPEN TO 4100'

ATTACHMENT III (tabular)

Well Data

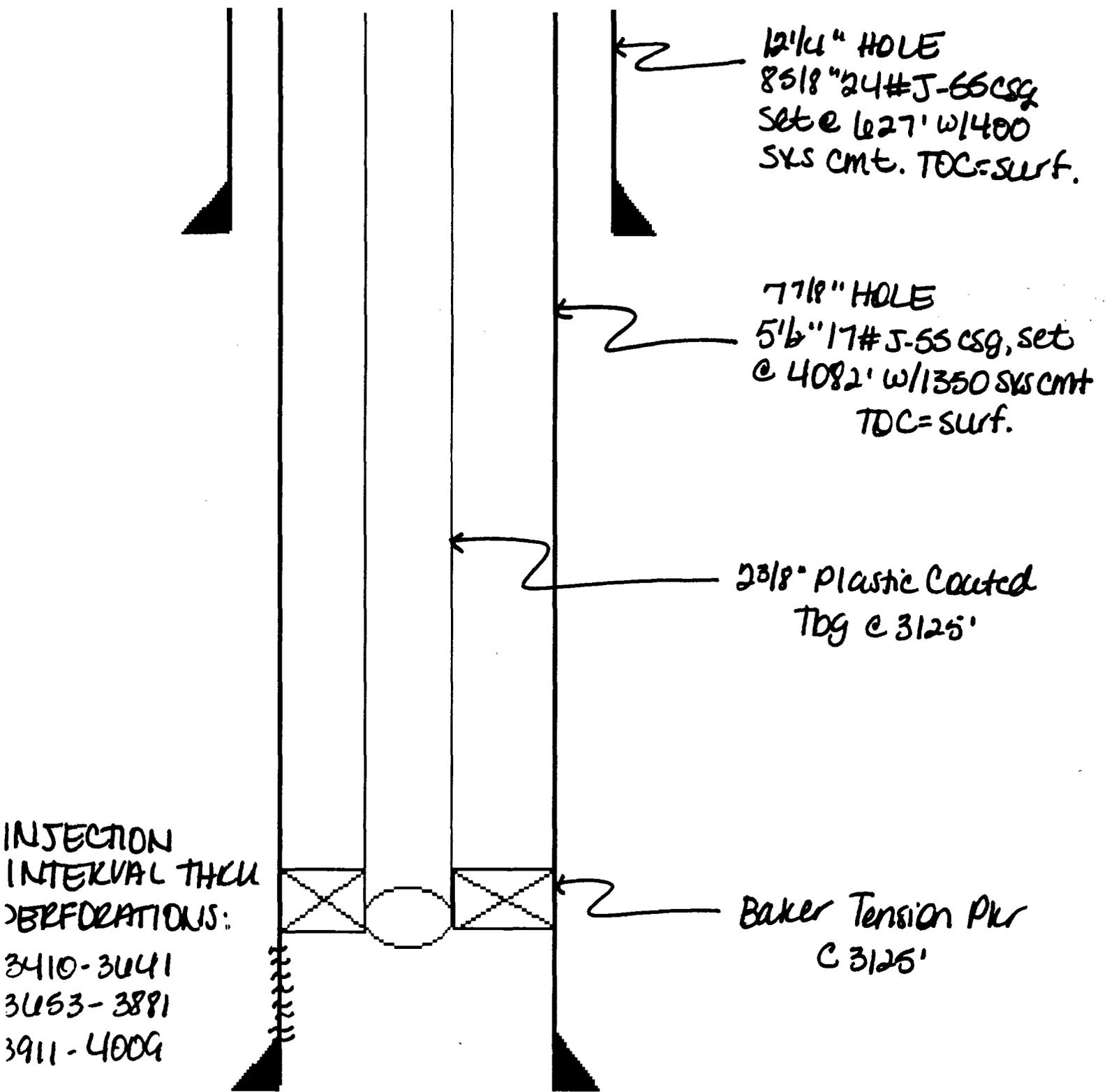
- A. (1) H.E. West "B" #37
1980' FSL 1980' FEL
Section 3-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24#, set @ 627' w/400 sxs cmt.
Est TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 17# J-55 set @ 4082' w/1350 sxs cmt.
Est TOC surface. (7-7/8" hole)
Tubing: 2-3/8" @ 3843'
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" 4.7#, set @ 3125'. No additional liner material is anticipated.
- (4) A Baker tension pkr (or equivalent) will be set @ 3125' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the Grayburg/Jackson field.
- (2) The Injection Interval will be through perforations in the 5-1/2" csg. The proposed intervals are 3200-4082'.
- (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3200-3725' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are no known lower oil formations.

Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

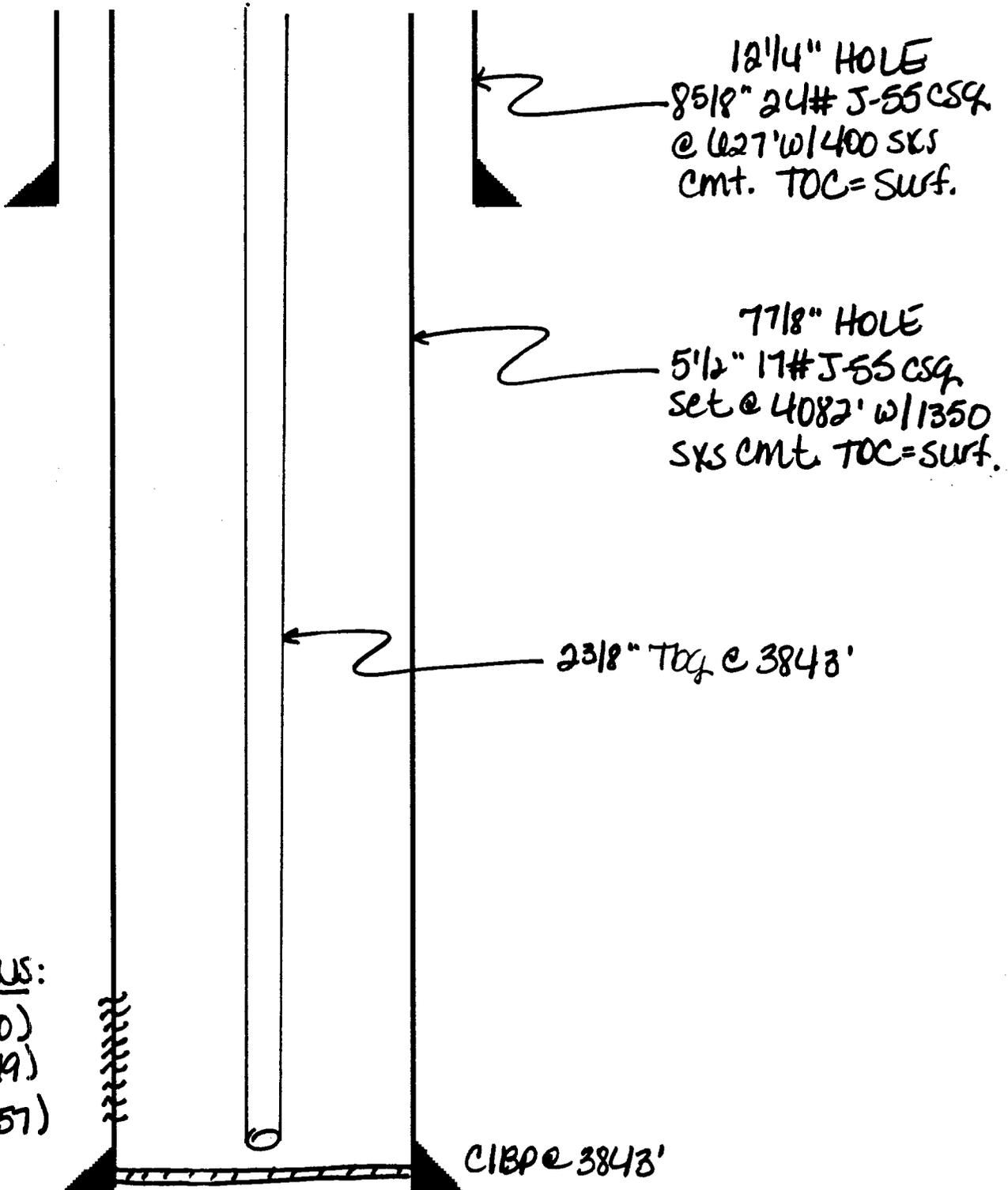
H.E. West "B" #37
1980' FSL 1980' FEL
Section 3-17S-31E
Eddy County, NM



'3200 - 4082')

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #37
1980' FSL 1980' FEL
Section 3-17S-31E
Eddy County, NM



PERFORATIONS:
3911-4009' (30)
3653-3881' (49)
3410-3614' (57)

ATTACHMENT III (tabular)

Well Data

- A. (1) H.E. West "B" #39
1980' FNL 1980' FWL
Section 9-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24# J-55 set @ 488' w/350 sxs cmt.
TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 17# J-55 set @ 3868' w/1150 sxs cmt.
TOC surface. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 2975'.
- (4) A Baker Tension pkr (or equivalent) will be set @ 2975' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3050-4000'. The injection interval will be open
hole 3868-4000', and through existing and proposed perforations 3050-
3868'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3050-3868' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

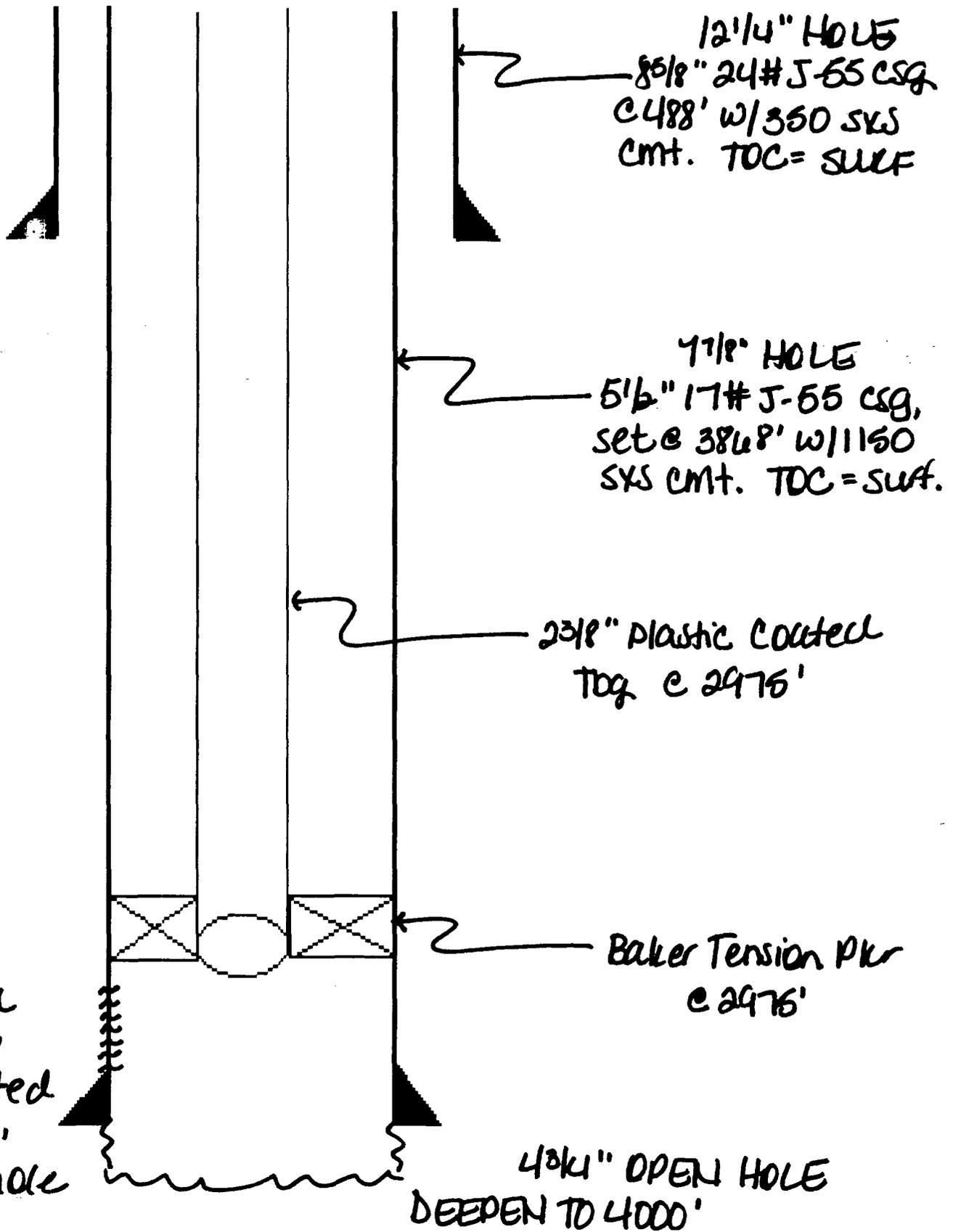
Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

H.E. West "B" #39
1980' FNL 1980' FWL
Section 9-17S-31E
Eddy County, NM

GL=3881'



12 1/4" HOLE
8 5/8" 24# J-55 CSQ
@ 488' w/ 350 SYX
CMT. TOC = SURF

7 7/8" HOLE
5 1/2" 17# J-55 CSQ,
set @ 3868' w/ 1150
SYX CMT. TOC = SURF.

2 3/8" Plastic Coated
TOG @ 2975'

Baker Tension Pk
@ 2975'

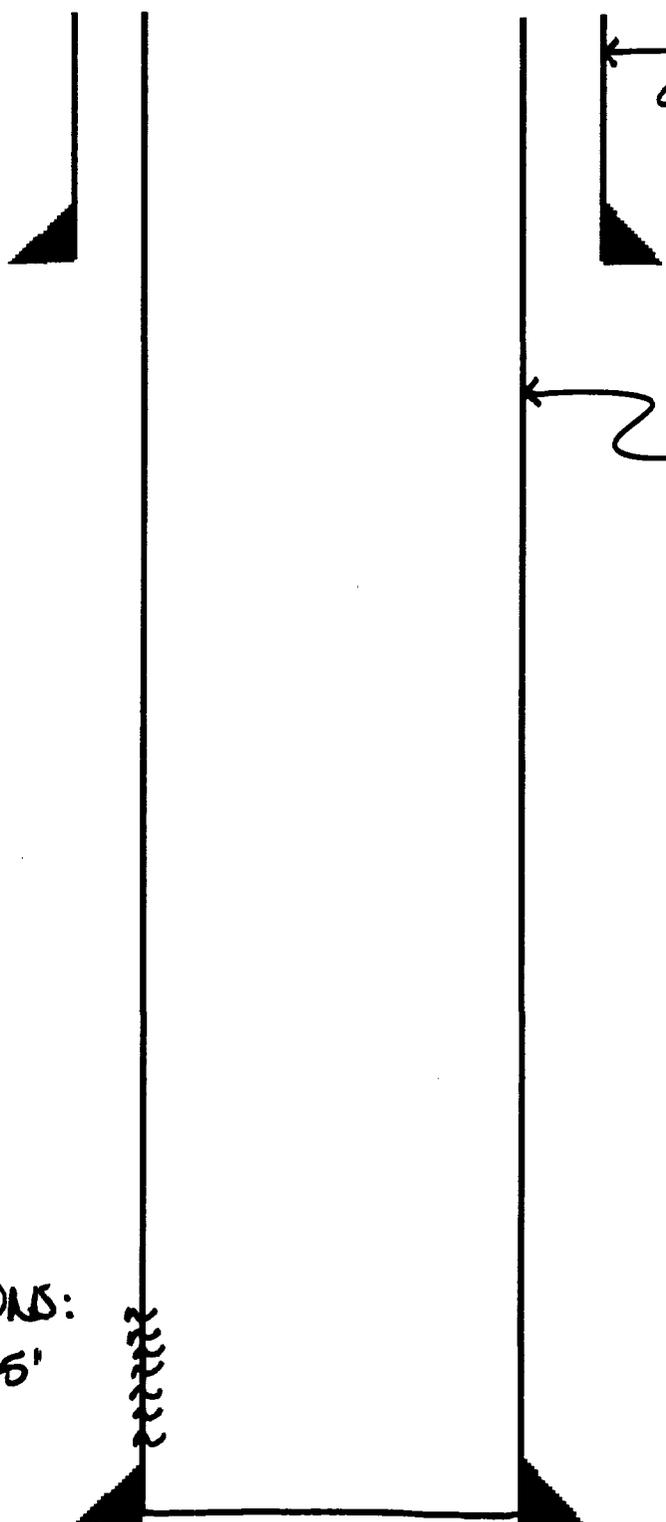
INJECTION
INTERVAL
3050-3868'
perforated
3868-4000'
open hole

4 3/4" OPEN HOLE
DEEPEN TO 4000'

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #39
1980' FNL 1980' FWL
Section 9-17S-31E
Eddy County, NM

GL 3881'



12 1/4" HOLE
8 5/8" 24# J-55 CSG
set @ 488' w/ 350 SXS
cmt. TOC = SURF.

7 1/2" HOLE
5 1/2" 17# J-55 CSG,
set @ 3868' w/ 1160
SXS cmt. TOC = SURF.

PERFORATIONS:
3253-3815'

PBTD 3819'
TD 3868'

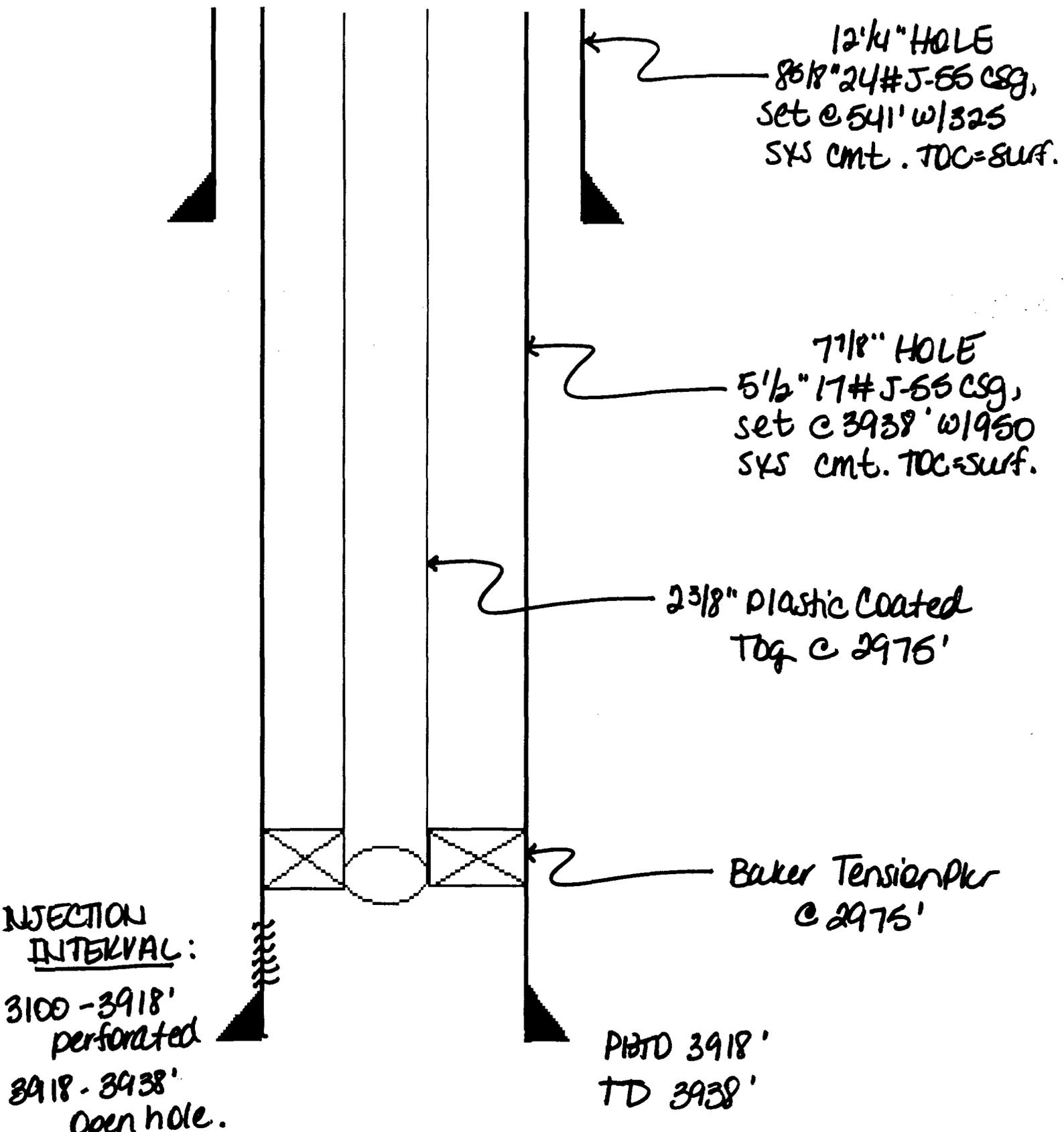
ATTACHMENT III (tabular)

Well Data

- A. (1) H.E. West "B" #46
1880' FSL 1980' FEL
Section 9-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24#, set @ 541' w/325 sxs cmt.
TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 17# J-55 set @ 3938' w/950 sxs cmt.
TOC surface. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 2975'
- (4) A Baker tension (or equivalent) Pkr will be set @ 2975' in tension
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3100-3938'. The injection interval will be open
hole 3918-3938' and through existing and proposed perforations 3100-
3918'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3100-3918' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

H.E. West "B" #46
1880' FSL 1980' FEL
Section 9-17S-31E
Eddy County, NM

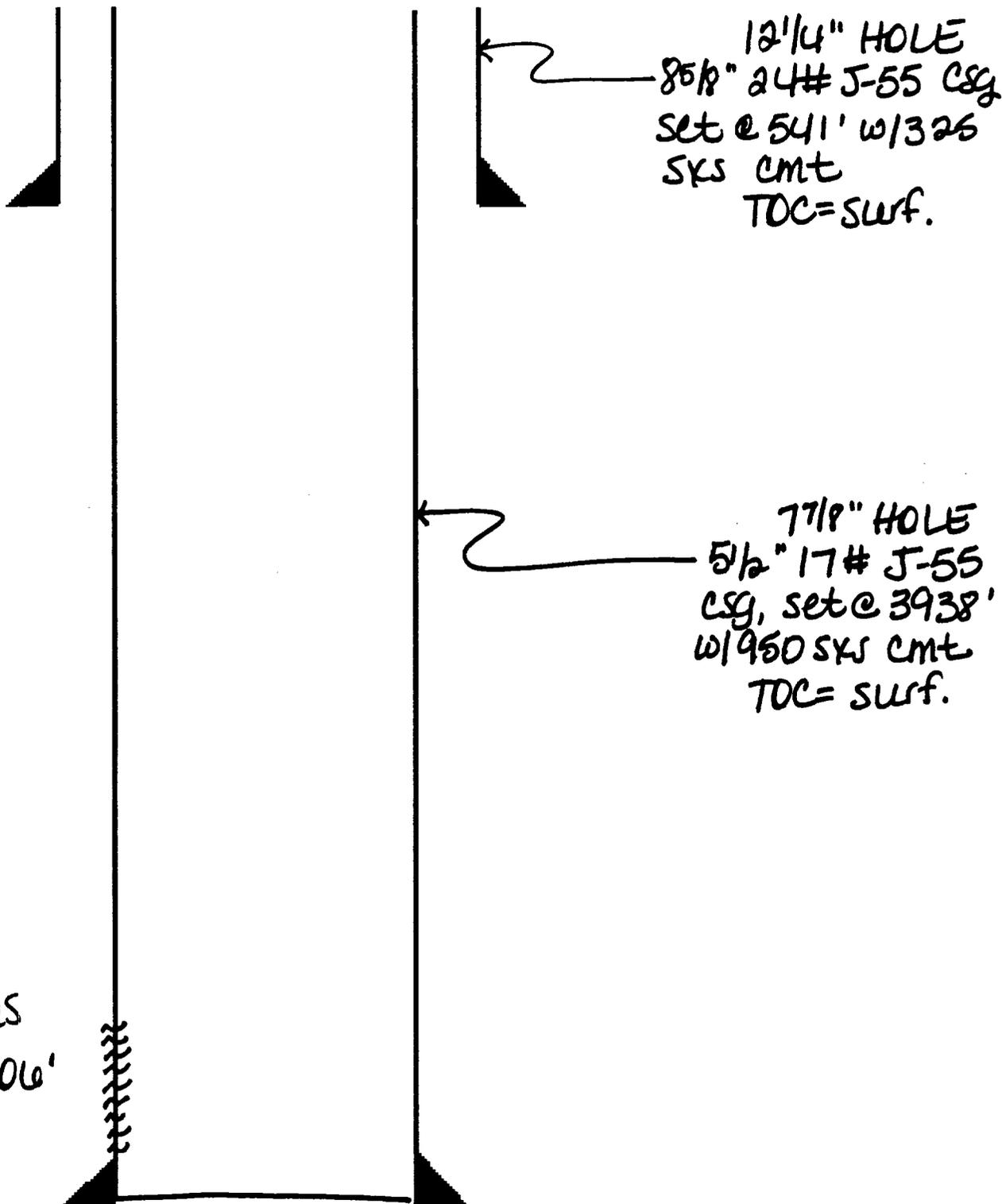


Devon Energy Operating Corporation

Attachment III - Schematic

EXISTING WELLBORE

H.E. West "B" #46
1880' FSL 1980' FEL
Section 9-17S-31E
Eddy County, NM



PBTD 3918'

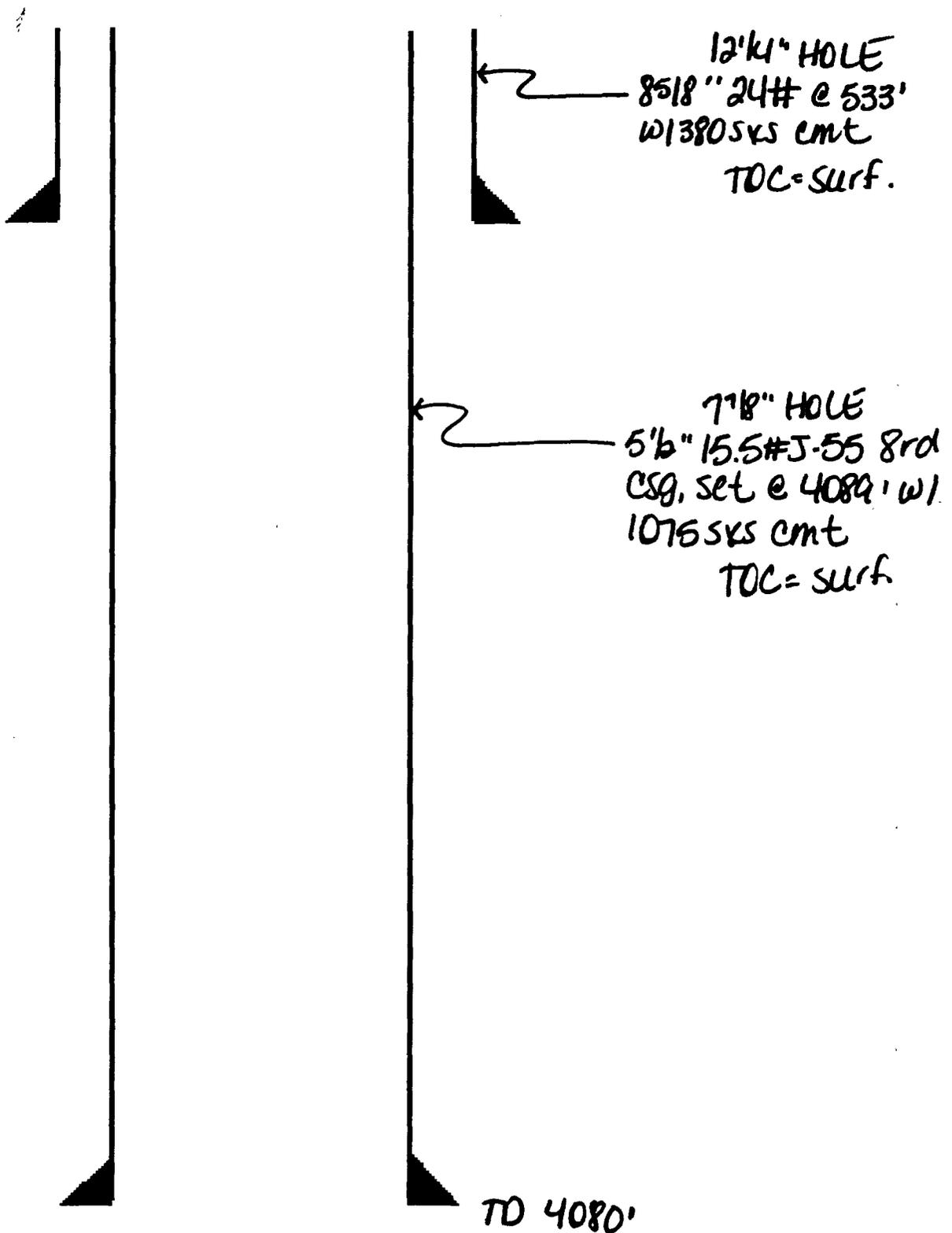
ATTACHMENT III (tabular)

Well Data

- A. (1) H.E. West "B" #78
510' FNL & 660' FWL
Section 9-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24# J-55 set @ 533' w/380 sxs cmt.
TOC surface. (12-1/4" hole)
Production Casing: 5-1/2" 15.5# J-55 8RD csg, set @ 4089' w/1075 sxs
cmt. TOC @ surface (7-7/8" hole).
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3000'
- (4) A Baker Tension (or equivalent) will be set @ 3000' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3084-3902'. The injection interval will be
and through existing and proposed perforations 3084-3902'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3084-3902' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #78
660' FNL & 660' FWL
Section 9-17S-31E
Eddy County, NM



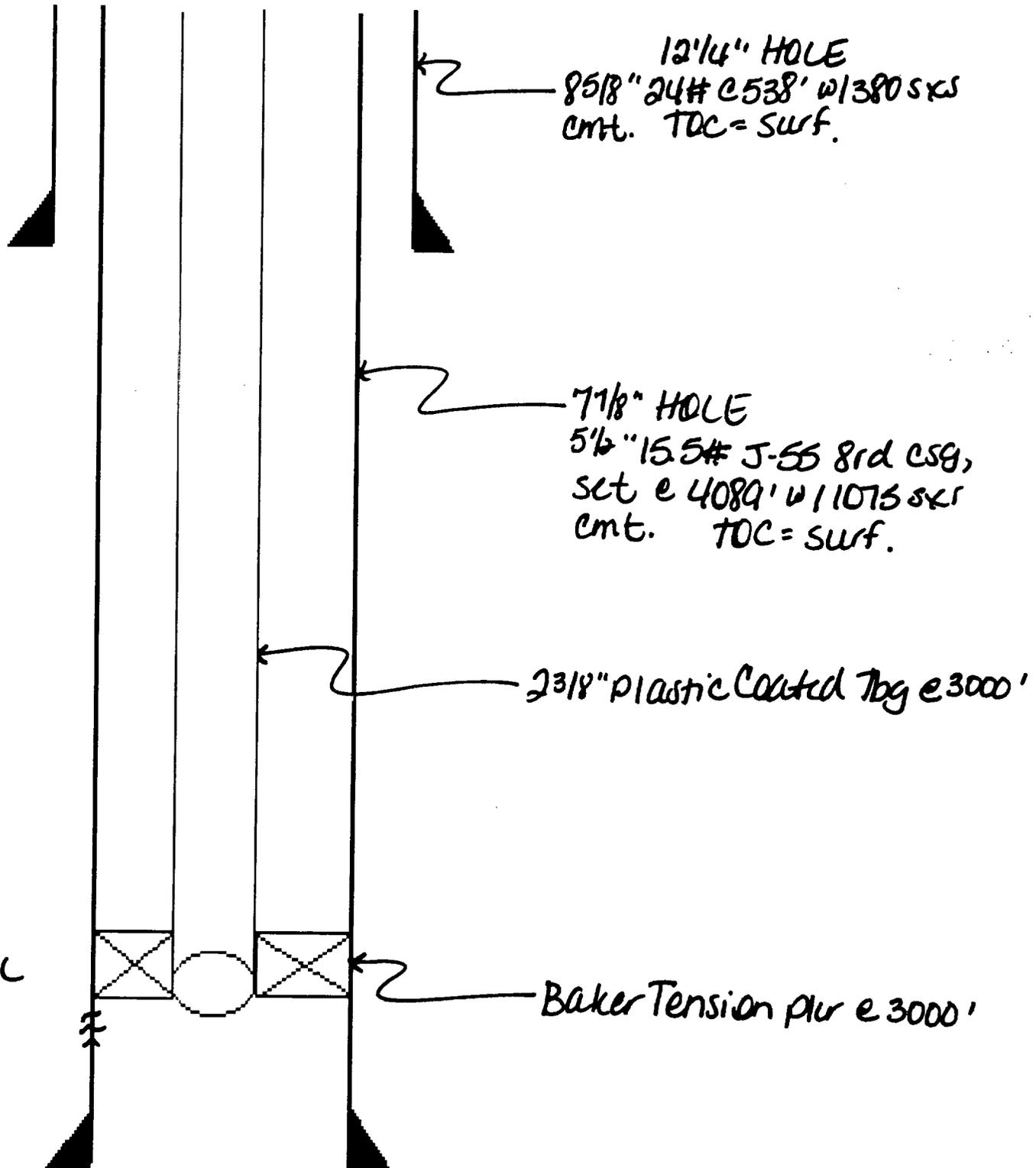
Well Status: As of 11-15-95 - WOCU

Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

H.E. West "B" #78
660' FNL & 660' FWL
Section 9-17S-31E
Eddy County, NM



ATTACHMENT III (tabular)

Well Data

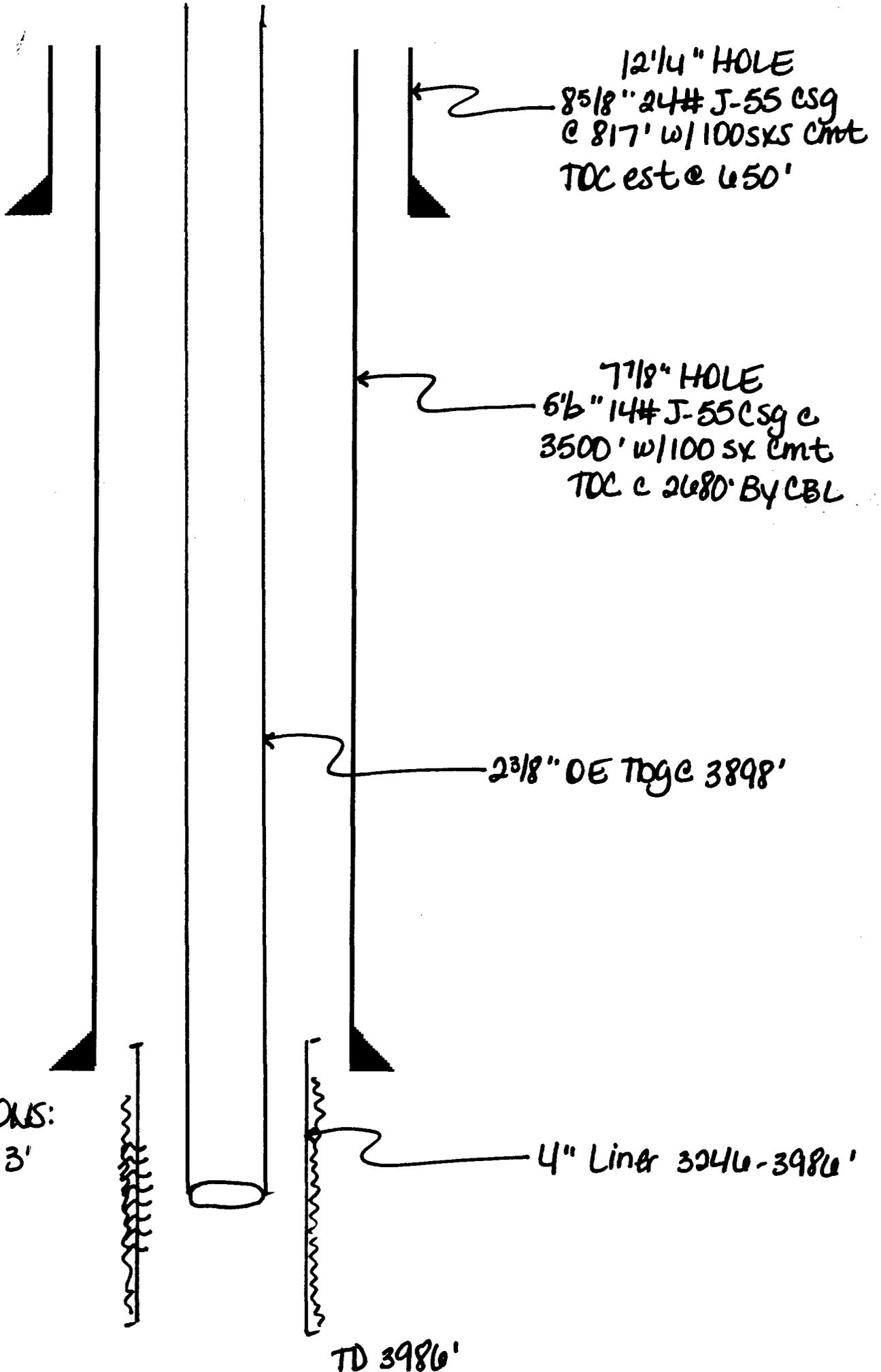
- WITHDRAWN**
- A. (1) H.E. West "A" #11
1980' FNL 1980' FWL
Section 3-17S-21E
Eddy County, NM
- (2) **Surface:** 8-5/8" 24# J-55 set @ 817' w/100 sxs cmt. (12-1/4" hole)
Production: 5-1/2" 14# J-55, set @ 3500' w/100 sxs cmt (7-7/8" hole)
Liner: 4" from 3246-3986'
Cement was circulated back to surface on the surface string
and the production string.
Please also refer to the wellbore schematic labeled Attachment III
- (3) Tubing will be 2-3/8" 4.7#, J-55 EUE Plastic Coated, set @ 3125'.
- (4) A Baker, Tension (or equivalent) Pkr will be set @ 3125' in tension.
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3200-4100'. The injection interval will be open
hole 3986-4100', and through existing and proposed perforations
3200-3973'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Please refer to the wellbore schematic labeled Attachment III (schematic)
for depths of other perforated intervals and detail on the sacks of cement of
BP used to seal off perforations. Additional perforations may be added in
the 3200-3986' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation

Attachment III - Schematic

EXISTING WELLBORE

H.E. West "A" #11
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM

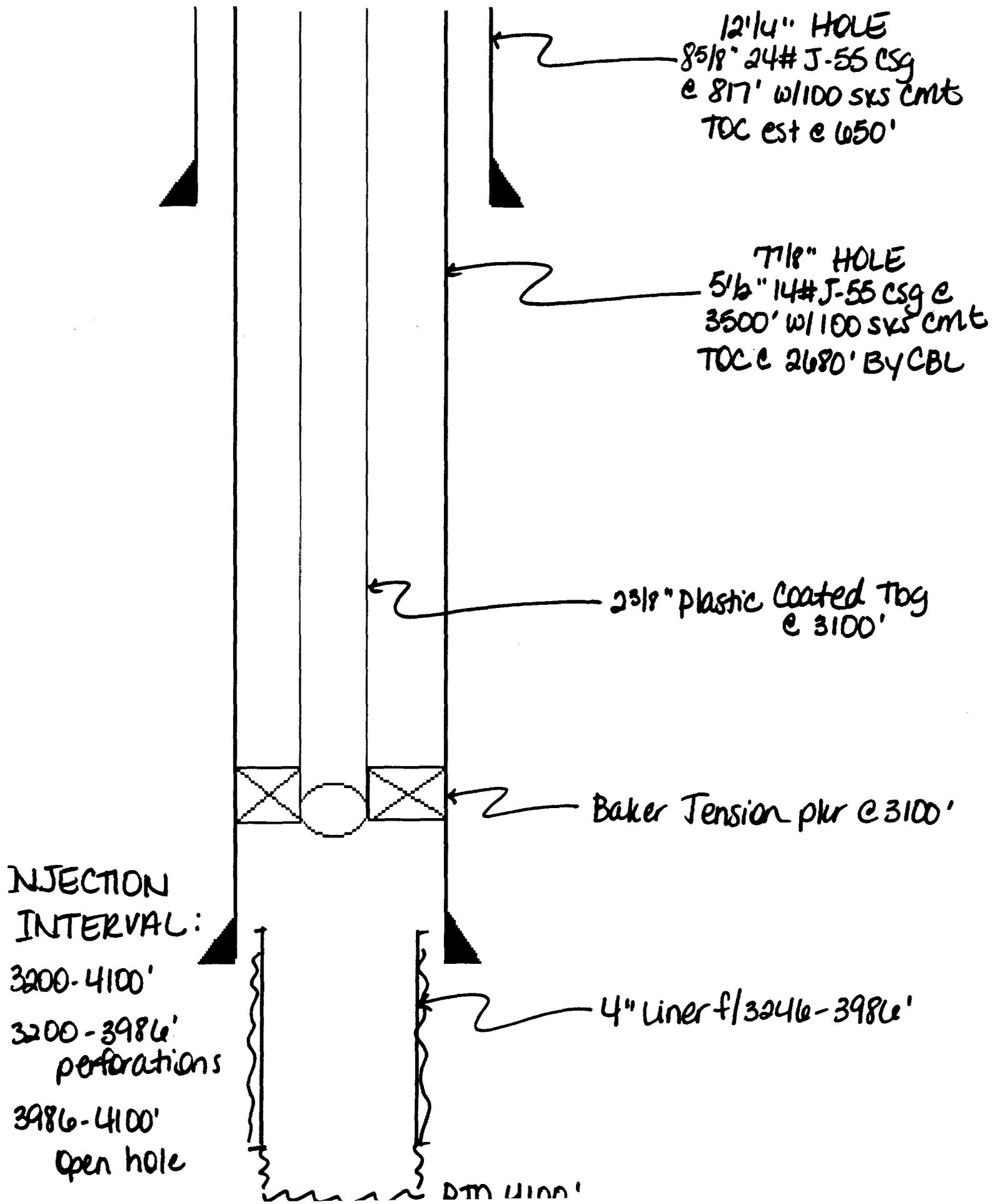


Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

H.E. West "A" #11
1980' FNL 1980' FWL
Section 3-17S-31E
Eddy County, NM



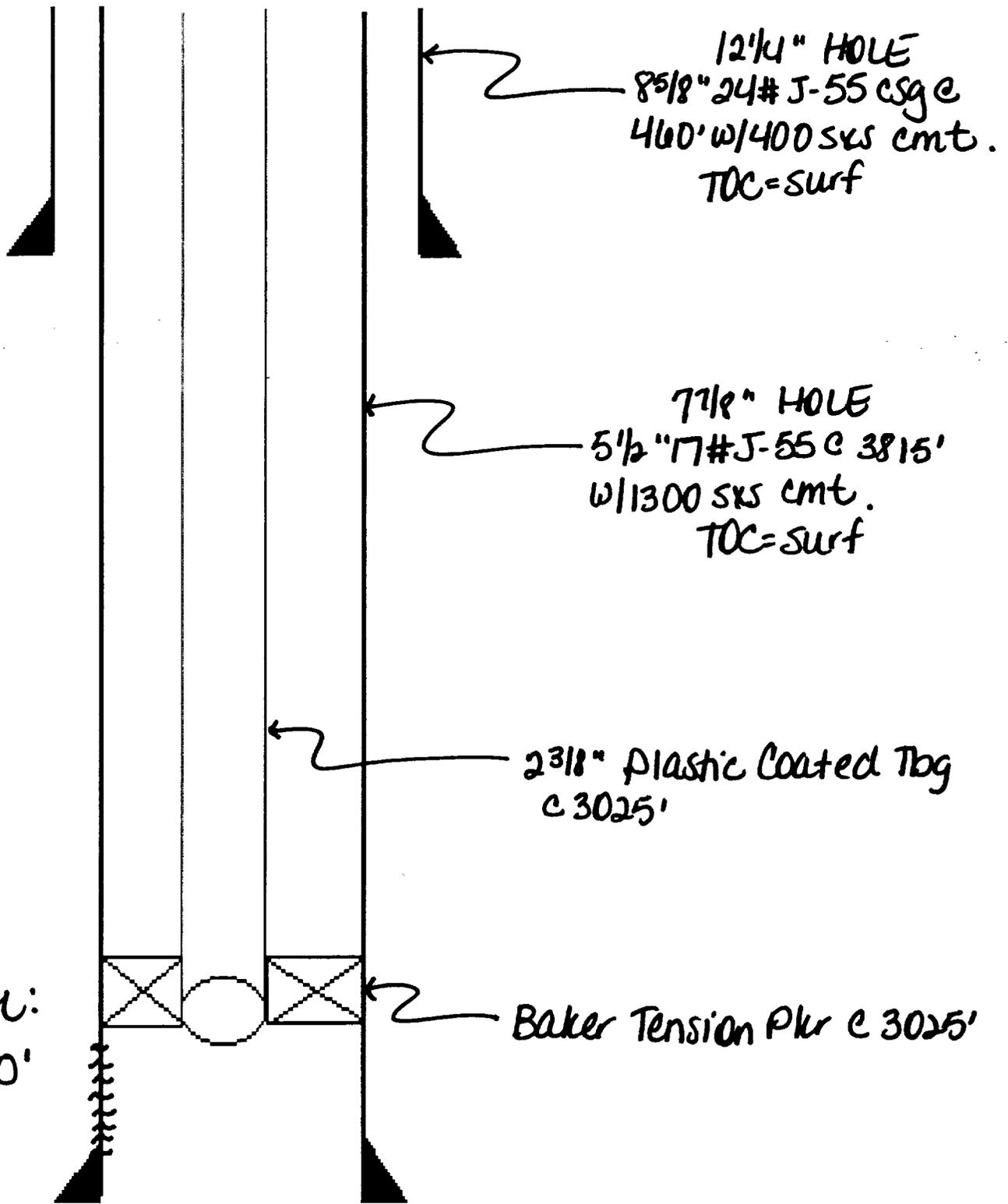
ATTACHMENT III (tabular)

Well Data

- WITHDRAWN**
- A. (1) H.E. West "B" #35
860' FWL and 1980' FSL
Section 9-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24# J-55 set @ 460' w/400 sxs cmt.
Est TOC surface. (12 1/4" hole)
Production Casing: 5-1/2" 17# set @ 3815' w/1300 sxs cmt.
TOC @ surface (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3025'
- (4) A Baker Tension pkr (or equivalent) will be set @ 3025' in tension
- B. (1) The injection formations will be the Grayburg/San Andres in the
Grayburg/Jackson field.
- (2) The proposed intervals are 3100-3900' The injection interval will be
through existing and proposed perforations 3100-3900'.
- (3) This well was originally drilled and completed as an oil well. It produced
from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3100-3900' interval.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are
no known lower oil formations.

Devon Energy Operating Corporation
Attachment III - Schematic
PROPOSED WELLBORE

H.E. West "B" #35
860' FWL and 1980' FSL
Section 9-17S-31E
Eddy County, NM



Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #35
860' FWL and 1980' FSL
Section 9-17S-31E
Eddy County, NM



12 1/4" HOLE
8 5/8" 24# J-55 CSG @
460' w/ 400 SXS CL "C"
CMT. TOC = SURF.

7 7/8" HOLE
5 1/2" 17# J-55 CSG
@ 3815' w/ 1300 SXS
CMT TOC = SURF.

PERFORATIONS:

- 3410-3441' (20)
- 3212-3357' (54)
- 3732-91' (18)
- 3457-3707' (11)



ATTACHMENT III (tabular)

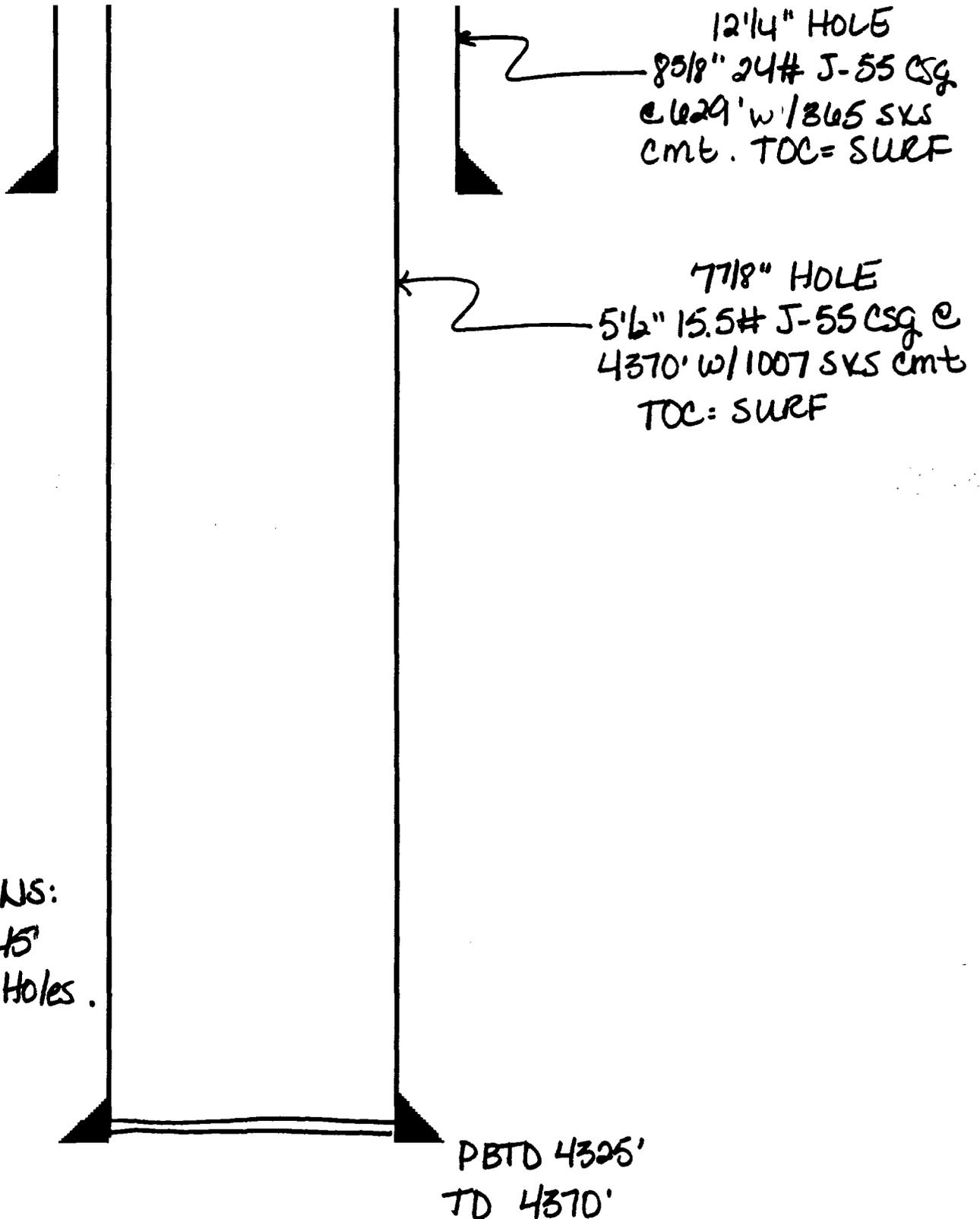
Well Data

- WITHDRAWN
- A. (1) H.E. West "B" #48
2130' FSL 1980' FEL
Section 10-17S-31E
Eddy County, NM
- (2) **Surface Casing:** 8-5/8" 24# J-55 set @ 629' w/365 sxs cmt.
TOC @ surface (12-1/4" hole)
Production Casing: 5-1/2" 15.5# J-55 set @ 4370' w/1007 sxs cmt.
Est TOC @ surface. (7-7/8" hole)
Please also refer to the wellbore schematic labeled Attachment III -
(schematic)
- (3) Tubing will be 2-3/8" plastic coated 4.7#, set @ 3075'.
- (4) A Baker Tension pkr (or equivalent) Pkr will be set @ 3075' in tension
- B. (1) The injection formations will be the Grayburg/San Andres in the Grayburg/Jackson field.
- (2) The proposed intervals are 3150-4000'. The injection interval will be through the existing and proposed perforated interval 3150-4000'
- (3) This well was originally drilled and completed as an oil well. It produced from the Grayburg/San Andres Formations.
- (4) Additional Perforations may be added in the 3150-4000' interval. The perforated interval 4200-4245' will be isolated by setting a CIBP in the 5-1/2" csg @ 4150' and capping with 35 sxs of cmt.
- (5) The Top of the Seven Rivers Formation is approximately 2300', there are no known lower oil formations.

16. 2. 1977

Devon Energy Operating Corporation
Attachment III - Schematic
EXISTING WELLBORE

H.E. West "B" #48
2130' FSL 1980' FEL
Section 10-17S-31E
Eddy County, NM

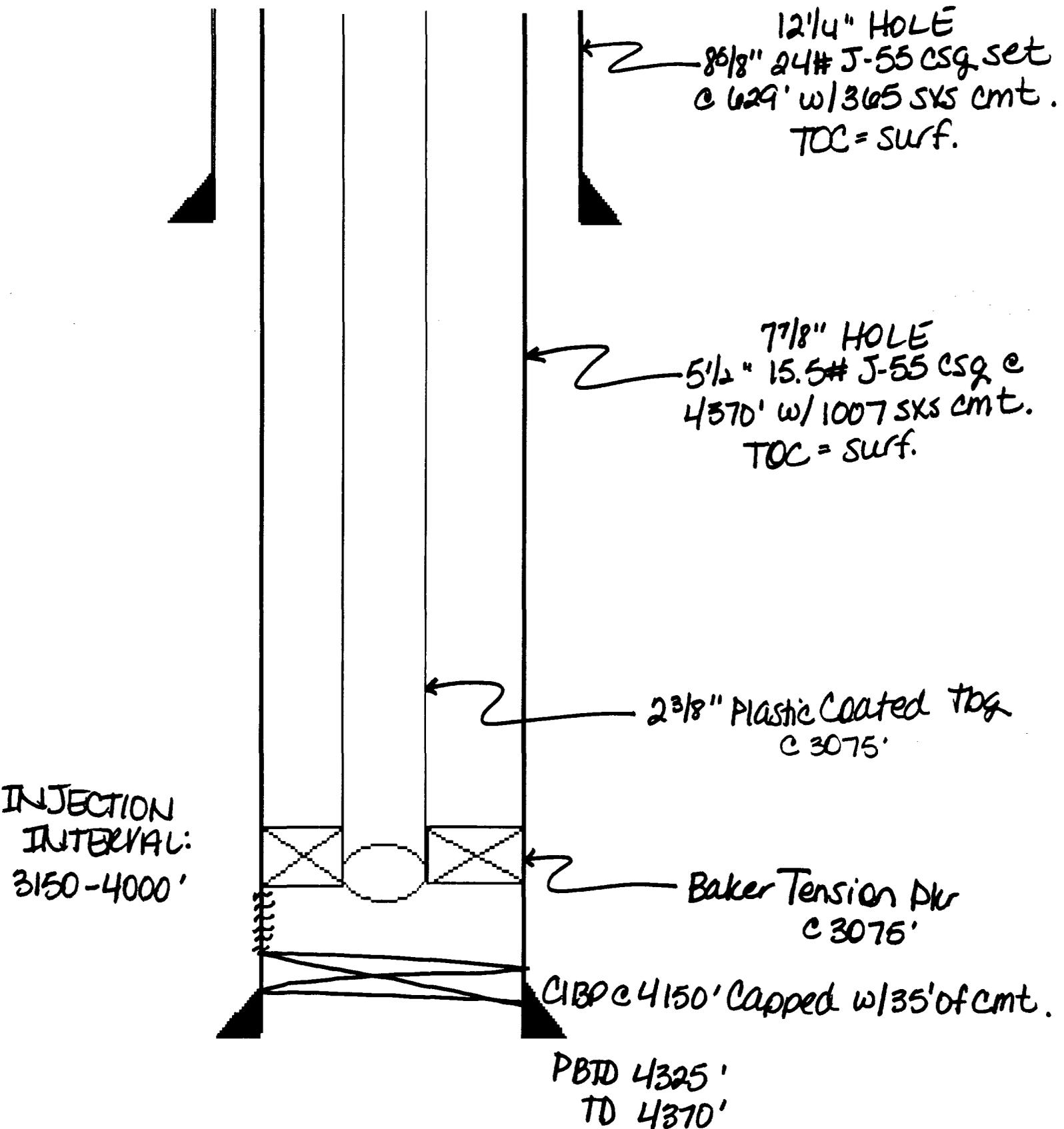


Devon Energy Operating Corporation

Attachment III - Schematic

PROPOSED WELLBORE

H.E. West "B" #48
2130' FSL 1980' FEL
Section 10-17S-31E
Eddy County, NM



Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H. E. West "B" #3	"C" 660' FNL	2/26/46	5/3/46	Oil	3500'	708' of 10-3/4" 32.75# csg set @ 417' w/100 sxs cmt. TOC Surf 7" csg set @ 3294' w/100 sxs cmt, TOC est @ 2888'. 2" 4.7# J-55 tbg set @ 3329'. Producing zone: 3440-3365'.
Current Status:	1980' FWL					
Dual Wtr Inj	Sec. 4-17S-31E					
			10/9/62	W/IW		Commenced injecting wtr 10/9/62
			9/9/64	DW/IW		Recomplete as a dual wtr inj well. Ran 4-1/2" csg flnr (3227-3799); Perf'd 4-1/2" liner @ 3500' w/ 4-3/8" holes. Set pkr @ 3450'. Perf Loco Hills f/3210-18', Metex f/3258-68', Square Lake f/3290-3302' and 3313-18'. Premier f/3352-57' and 3392-3406' and 3414-26' w/132 3/8" holes. Squeeze 4-1/2" liner thru perms 3258-3414' w/700 sxs & dtd cmt to 3465'. Perf Premier f/ 3392-3406', 3414-26' w/52 - 3/8" holes. 10-3/4" 43# csg set @ 649' w/125 sxs cmt, TOC est @ 211'. 7" csg set @ 3338 w/150 sxs cmt, TOC Est @ 2728'.
H. E. West "A" #2	"B" 660' FNL	2/5/48	3/21/48	Oil	3494'	
Current Status:	1980' FEL					
Oil Well	Sec. 4-17S-31E		11/53			C.O f/3455-92' w/cable tools. set pkr @ 3285'. Ran 3155' of 2-1/2" tbg. Run logs. Perf Open hole f/3343-3460'. Perf Opn hole Grayburg 3340-3465' w/7 holes. Ran 2-7/8" tbg. set @ 3348'. Began pumping well.
			04/66			
			05/66			
			01/91			
H. E. West "A" #7	"A" 660 FNL	5/8/55	6/17/55	Oil	3386'	8-5/8" 24# set @ 760' w/100 sxs cmt, TOC est @ 600' 5-1/2" 15.5# set @ 3234' w/200 sxs cmt, TOC est @ 2576'. Ran tbg to 3328'. Convert to wtr injection well
Current Status:	660 FEL					
Wtr Injection	Sec. 4-17S-31E		09/62	W/IW		Pulled rods & tbg. Ran tbg & pkr to 3100'. Started injection wtr. Deepened f/3386-3883', Run tbg & pkr to 3279'. Inj. 142 bbl wtr into opn hole 3234-3883'.
			10/62			
			08/63		3833'	

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #5	"F" 1980' FNL	8/1/50	10/12/50	Oil	3487'	10-3/4" 40.5# set @ 682' w/150 sxs cmt. TOC Surf 7" 26# set @ 3186' w/150 sxs TOC surf.
Current Status:	1980' FWL					2-1/2" tbg # 3266', Pkr @ 3463'.
Oil Well	Sec. 4-17S-31E					Formation: 3331-3487'
			07/63	Pmpg Oil	3841'	Deepen well to 3841'. Pulled pks & RR 2-7/8" tbg to 3200' (well on pmp)
			09/66	Oil		4-1/2" liner hung f/3105-3794', squeezed w/300 sxs. Csg scraper to 3665'.
						Pkr to 3648', Perf liner Grayburg 3393-3425' (25 holes). Vacuum f/3472-3483' (18 holes). Lovington f/3548-58' (20 holes).
H.E. West "B" #6	"L" 2005' FNL	3/10/51	5/10/95	Oil	3314'	10-3/4" set 669' w/100 sxs, TOC est @ 318'. 7" set 3123' w/200 sxs, TOC est @ 2310' 2" tbg set @ 3141'. Formation: 3286-97'
Current Status:	660' FWL		11/28/52	Oil	3556'	Deepen to 3556'. Formation: 3526-38'.
Wtr Injection	Sec. 4-17S-31E					2" 4 7# tbg set to 3390'.
		11/8/52	09/62	WI/W		Pulled rods & tbg, ran logs. Ld hole w/wtr. Started injecting wtr 300 BPM. Set 511' of 4-1/2" liner w/150 sxs cmt. f/3043-3554'. Squeeze liner @ 3060' w/ 3/8" holes. Set ret in 7" csg @ 2958'. Ran 2" tbg to 2958' & squeeze
			06/80	SWIW		4-1/2" liner 3008-3519' w/88 sxs. Inj. wtr in tbg & csg & comp. as dual WI/W POOH w/tbg & pkr. Inst BOP. RIH & set pkr @ 3112'. Return to inj 5/14/80
H.E. West "A" #6	"H" 1980' FNL	1/2/55	2/12/55	Oil	3369'	8-5/8" csg @ 740' w/100 sxs, TOC est @ 580' 7" csg @ 3220' w/200 sxs, TOC est @ 2407'. 2-3/8" tbg @ 3213'.
Current Status:	660' FEL		8/4/63		3870'	Formation: 3356-63' Deepen to 3870'. Formation: 3356-3870'.
Oil Well	Sec. 4-17S-31E	8/24/63	1/26/95	Oil	4335'	8-5/8" J-55 24# csg, set @ 586' w/365 sxs cmt, TOC surf. (12-1/4" hole)
H.E. West "B" #60		9/13/94				5-1/2" J-55 15.5# csg, set @ 4335' w/1225 sxs cmt, TOC surf. (7-7/8" hole)
Current Status:	2625' FNL					Perfs: 3272-4251'. 2-7/8" tbg OE @ 4269'.
Oil Well	1305' FWL					
H.E. West "B" #61		11/5/95	2/25/95	Oil	4350'	8-5/8" J-55 24# csg, set @ 606' w/365 sxs cmt, TOC surf. (12-1/4" hole)
Current Status:	2625' FNL					5-1/2" J-55 15.5# csg, set @ 4341' w/1225 sxs cmt, TOC surf. (7-7/8" hole)
Oil Well	15' FWL					Perfs: 3227-4120". 2-7/8" tbg OE @ 4182'.
Current Status:	Sec. 10-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "A" #4	"G"	8/7/54	9/13/54	Oil	3341'	8-5/8" set @ 706' w/100 sxs cmt. TOC est @ 600' 7" set @ 3169' w/200 sxs cmt. TOC est @ 2356'. 2" @ 3283'. Formation: f/3326-3336' Set 774' of liner @ 3842' cmt'd w/95 sxs. Perf'd 4-1/2" liner 3760-63' & 3816-22' w/18 holes. 2" tbg to 3825'. pkr @ 3735'.
Current Status:	1980' FNL	8/23/62	9/19/62	DW/IV		
Temp. Aband.	Sec: 4-17S-31E					
			9/12/63	TW/IV		2" tbg @ 3600'. Comp as a dual inj well. Perf (1) 3242-44'; (2) 3252-54'; (3) 3296-98'; (4) 3304-06'; (5) 3382-86'; (6) 3392-98'. Ran 2" tbg landed in 4-1/2" pkr @ 3450'. POOH w/triple assembly. Set pkr @ 3167'. 4/28/61 commence injecting
			5/6/81	SW/IV		wr into perfs 3242-3822'. (Single wr Injection well) Well temporarily abandoned.
			09/92	TAd		
H.E. West "A" #9	"I"	10/19/55	11/26/55	Oil	3375'	8-5/8" set @ 719' w/100 sxs. TOC est @ 280' 7" set @ 3198' w/200 sxs. TOC est @ 2440'.
Current Status:	1980' FSL					
Wtr Injection	Sec: 4-17S-31E		08/62	W/IV		2" to 3353'. Formation: 3345-48' and 3362-70'. Ran 2" tbg & pkr to 3105'. Ld hle w/wtr. Started wr injection.
			08/63	W/IV	3868'	Deepen to 3868'. Completed as an Injection Well
			02/65		PBTD 3700'	PB f/3868' to 3700' w/BP
			04/82			Plugged and abandoned 4/26/82
			10/89	P&A W/IV		Dhd & CO to 3868'. Set top of liner @ 2967'. cmt'd w/175 sxs. Perf'd f/3296-3854' (61). set pkr & tbg @ 3205'. Ready for inj.
			12/93			pkr @ 3200'. Put back on inj.
H.E. West "B" #85	"K"	3/10/95	4/24/95	Oil	4470'	8-5/8" J-55 24# csg, set @ 643' w/300 sxs cmt. TOC surf. (12-1/4" hole)
Current Status:	2614' FSL				PBTD 4421'	5-1/2" J-55 15.5# csg, set @ 4469' w/965 sxs cmt. TOC surf. (7-7/8" hole)
Oil Well	Sec: 3-17S-31E					Perfs: 3328-4237'. 2-7/8" tbg OE @ 4272'.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "A" #8	"E" 1980' FNL	8/55/55	9/18/55	Oil	3404'	8-5/8" 24# set @ 769' w/100 sxs cmt, TOC est @ 609'; 5-1/2" set @ 3246' w/200 sxs cmt, TOC est @ 2484'; 2" @ 3360'; Zone: 3386-3404'
Current Status:	660' FWL					
Wtr Injection	Sec. 3-17S-31E					
			09/62	WIW		Pulled rods & tbg, Ran 2" tbg & pkr to 3140', started wtr injection
			02/65	WIW	PBTD 3750'	PB to 3750' w/SBP
			04/82			Plugged and abandoned effective 4/23/82
			08/89		3901'	Reentered & drld to 3901', Set RBP @ 2150'
			10/89	WIW		Drld out ret. Ran 30' js 4" liner & set f/3901'-2989', cmt'd w/75 sxs cl "C".
						Perf 3360-3795' w/45 holes, RIH w/pkr & tbg, set @ 2834'. Well ready for injection. (2-3/8" liner f/3022-3901' w/100 sxs).
H.E. West "A" #5	"J" 1980' FSL	10/20/54	12/23/54	Oil	3650'	8-5/8" @ 695' w/100 sxs cmt, TOC Surf
Current Status:	1980' FEL					7" @ 3169' w/200 sxs cmt, TOC 1500'.
Wtr Injection	Sec. 4-17S-31E					2" @ 3398'
			02/85			Formation: 3276-81'
						Repair well: RBP set @ 3115' w/2 sxs sd. Found split in csg. Set pkr bel hole. C.O 7" bel hole.
						Perfd 2 JSPF @ 695', set pkr @ 582', Circ cmt thru csg ann, POOH w/pkr, CO to 3650', SN @ 3170'.
			03/95	WIW	4070'	Deepen to 4070', Ran 4-1/2" 11.6# csg, set @ 4070, cmt'd w/365 sxs, TOC surf. Perfd 53 holes f/3170-3580'.
					PBTD 4016	
						Pkr @ 3145'.
H.E. West "A" #24	"A" 2625' FNL	8/27/94	12/16/94	Oil	4380'	8-5/8" FC @ 528' cmt w/365 sxs cmt, TOC Surf.
Current Status:	15' FEL				PBTD 4345'	5-1/2" FC @ 4345, 75' w/955 sxs 35/65 poz & 510 sxs cl "C", TOC Surf
Oil Well	Sec. 4-17S-31E					Formations: Slaughter 4108-4222'; San Andres: 3650-3925'; Grayburg 3315-3527'

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #11	"K" 1980' FSL	12/26/53	2/6/54	Oil	3574'	8-5/8" @ 683' w/100 sxs, TOC est @ 523'. 7" @ 3146 w/200 sxs, TOC est @ 2333'. 2" @ 3103'. Formation: 3146-3574'
Current Status:	1980' FWL					
Wtr Injection	Sec. 7-17S-31E					
			9/29/54			3290-3311' 3540-3560'. Ran 10-3/4" csg to 240', Ran 8-5/8" to 817', Pulled 240' of 10-3/4" & cmt'd 8-5/8" w/100 sxs.
			08/62	W/IW		Convert to wtr injection well
			09/64	DW/IW		2-3/8" tbg @ 3385' w/pkt. Ran 503' of 4-1/2" csg /liner. Perf 3334-36'. squeeze cmt w/335 sxs. Comp as a dual water injection well
			10/16/80	SWIW		Set pkt @ 3147', return to single wtr injection well.
H.E. West "A" #20	"P" 2525' FSL	11/14/94	1/25/95	Oil	4325'	8-5/8" @ 606' w/365 sxs cmt, TOC surf
Current Status:	1305' FEL					5-1/2" @ 4324' w/675 sxs 35/65 poz + 425 sxs "C", TOC surf
Oil Well	Sec. 4-17S-31E					2-7/8" @ 4257' (OET) Formations: Slaughter f/4017-4246'; San Andres 3617-3878'; Grayburg f/3276-3503'.
H.E. West "A" #33	"O" 1299' FSL	2/7/95	4/25/95	Oil	4285'	8-5/8" @ 601' w/165 sxs cmt, TOC surf.
Current Status:	2675' FWL				PBTD 4237'	5-1/2" 15.5# @ 4284' w/850 sxs "H" poz & 350 RFC. TOC surf.
Oil Well	Sec. 4-17S-31E					2-7/8" @ 4236' (OET) Formation: Slaughter f/3974-4211' (23 holes); Jackson f/3979-3901' (18); Vacuum & Lovington f/3521-3628' (9); Grayburg f/3275-3462'.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "A" #19	"P"	7/19/94	10/22/94	Oil	4360'	8-5/8" 24# set @ 650' w/365 sxs cmt, TOC surf.
Current Status:	1230' FSL				PBTD 4312'	5-1/2" 15.5# set @ 4360' w/1280 sxs cmt, TOC Surf
Oil Well	1305' FEL					2-7/8" @ 4259' (OE)
	Sec. 4-17S-31E					Slaughter 4058-4259'; Jackson 3784-3851'; Premier 3445-3502'; Loco Hills 3309-3317'; Metex 3350-3418'
H.E. West "A" #14	"O"	11/2/88	12/2/88	Oil	3935'	8-5/8" 24# set @ 542' w/350 sxs cmt, TOC Surf
Current Status:	720' FSL				PBTD 3892'	5-1/2" 17# set @ 3935' w/1500 sxs cmt, TOC Surf
Wtr Injection	1980' FEL					2-7/8" @ 3774'; 3709-3863'; 3492-3678'; 3214-3467'; BP set @ 3828'
	Sec. 4-17S-31E					Dr'd out CIBP @ 3828' & CO to 3926', Perf 3886-3906', Set pkr @ 3065', Convert to Injection Well
H.E. West "B" #73	"E"	10/27/94	2/5/95	Oil	4248'	8-5/8" 24# set @ 599' w/165 sxs cmt to surf.
Current Status:	2610' FNL				PBTD 3970'	5-1/2" 15.5# set @ 4247' w/950 sxs, TOC surf.
	1270' FWL					2-7/8" OET @ 3946'; Slaughter: f/3985-4160'; Jackson: f/3683-3889'
H.E. West "A" #10	"D"	3/9/56	5/6/56	Oil	3670'	Vacuum & Lovington f/3461-3543'; Grayburg f/3164-3411', 8-5/8" set @ 788' w/100 sxs to surf.
Current Status:	660' FNL					7" set @ 2855' w/200 sxs, TOC est @ 2042'; 5-1/2" set @ 3261' w/200 sxs, TOC est @ 2500'; 2" @ 3332'
Plugged & Aband.	Sec. 3-17S-31E					Sand/oil frac'd Grayburg opn hole 3385-3670' w/10,000 gal oil + 10,000# sd Temporarily Abandoned (lbg stuck)
						Well plugged and abandoned effective 2/3/81.

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Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "A" #17	"P"	12/12/89	1/6/90	Oil	3954' PBTD 3906'	8-5/8" 24# @ 575' w/350 sxs cmt. TOC surf 5-1/2" 17# @ 3948' w/600 sxs HLC & 575 sxs cl "C", TOC surf 2-3/8" @ 3723'
Current Status:	660' FSL 660' FEL					f/3776-3839' (25) acid w/8000 gals. f/3633-3726' (10) w/1250 gals, f/3273-3508' (40) w/4000 gals. Frac'd w/80,000 gals & 160,000# sd. Drld out 5-1/2" shoe f/3890-3954', Perf'd f/3924-45', acid w/2500 gals.
Wtr Injection	Sec. 3-17S-31E		1/29/95	WIW		Set pkr & tbg 3107'.
H.E. West "B" #33	"L"	8/2/88	8/20/88	Oil	4057' PBTD 4011'	8-5/8" 24# @ 625' w/300 sxs cmt. TOC surf 5-1/2" 15.5# @ 4057' w/1000 sxs HLC & 300 sxs cl "C", TOC surf 2-3/8" @ 3774', Perfs 3777-3994 C.O. to 4011', Pkr & tbg set @ 3151', Convert to WIW effective 1/27/95
Current Status:	660' FWL		1/27/95	WIW		10-3/4" 32.75# set @ 806' w/100 sxs cmt (pulled 202) 8-5/8" 32# set @ 2887' (pulled 2115) 7" 24# set @ 3366' w/50 sxs (pulled 2130)
Wtr Injection	Sec. 3-17S-31E	7/17/46	9/17/46	Dry hole	3688'	
H.E. West "A" #1	"C"					
Current Status:	660' FNL 1980' FWL					
Dry Hole	Sec. 3-17S-31E					
H.E. West "A" #13	"C"	10/11/64	10/31/64	WIW	3700' PBTD 3695'	8-5/8" 24# @ 555' w/200 sxs, TOC est @ 485'. 4-1/2" 9.5# @ 3700' w/320 sxs, TOC est @ 2500'. 2-3/8" @ 3385', pkr @ 3385'. Sq. Lake perfs: 3419-28' Premier perfs: 3474-3545'
Current Status:	900' FNL 2310' FWL					Lowington perfs: 3671-86' Drld out of 3950'. Perf Grayburg San Andrews f/3574-3689' w/13 shots. Perf'd 3369-3550' w/28 shots. Set tbg & pkr @ 3209'.
Wtr Injection	Sec. 3-17S-31E		9/29/89			

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "A" #12	"H" 1980' FNL	3/18/61	4/26/61	Oil	3760' PBTD 3749'	8-5/8" @ 840' w/100 sxs cmt. TOC est @ 680'. 4-1/2" @ 3760' w/200 sxs cmt. TOC est @ 3000'. 2-3/8" @ 3500'/3544-50' & 3572-80'. Perf 3709-15'. Plugged and abandoned.
Current Status: Plugged & Aband	660' FEL Sec. 3-17S-31E		5/4/81	P&A		
H.E. West "B" #26	"J" 1980' FSL	1/12/61	2/23/61	Oil	3757' PBTD 3740'	8-5/8" @ 845' w/100 sxs. TOC est @ 685'. 4-1/2" 9.5# @ 3757' w/100 sxs TOC est @ 3457'. 2-3/8" @ 3735' perfs: 3714-34'. CIBP @ 3690'. Perf Grayburg f/3422-3579' (70).
Current Status: Wtr Injection	660' FEL Sec. 3-17S-31E		3/21/66	W/W		
			9/25/89	W/W	3941'	Drid out & deepen to 3941'. Perf'd f/3401-3744' (41) Set pkr & tbg @ 3307'.
H.E. West "B" #37	"J" 1980' FSL	11/12/88	12/23/88	Oil	4082' PBTD 4038'	8-5/8" 24# @ 627' w/400 sxs. TOC surf. 5-1/2" 17# @ 4083' w/1350 sxs. TOC surf. 2-3/8" @ 3843'. Perfs: 3911-4009' (30) Perfs: 3653-3881', Perfs: 3410-3614'
Current Status: Oil Well	1980' FEL Sec. 3-17S-31E					
H.E. West "B" #23	"J" 1980' FSL	7/26/59	9/2/59	Oil	3456'	8-5/8" 24# @ 797' w/100 sxs. TOC est @ 467'. 5" 11.5# @ 3456' w/100 sxs TOC est @ 3000'. 2-3/8" 4.7# @ 3391'. Perf'd 5" f/3413-35' (Square Lake).
Current Status: Plugged & Aband	1980' FEL Sec. 3-17S-31E		3/27/64	DW/W	3557'	Deepen to 3557'. Premier open hole 3456-3557'. Perf Metex 3374-84' acid w/250 gals, Ran 2-3/8" tbg & pkr 3447'. SN @ 3443'. CIBP @ 2978'. Temporarily abandoned Plugged and abandoned.
H.E. West "B" #18	"O" 660' FSL	10/24/58	12/5/58	Oil	3725' PBTD 3716'	10-3/4" csg @ 797' w/100 sxs. TOC est @ 446'. 5-1/2" csg @ 3725' w/100 sxs. TOC est @ 3344'. 2-3/8" @ 3343'. Perfs: 3393-3464'. Perfs Premier f/3523-3560' (34).
Current Status: Wtr Injection	1980' FEL Sec. 3-17S-31E		5/8/68			
			7/18/89	W/W	3996'	Deepen to 3996'. Acid OH f/3716-3994' w/8000 gals. Perf 3386-3994' Set pkr & tbg @ 3310'.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #19	"C" 660' FNL	12/21/58	1/29/59	Oil	3501'	10-1/4" 32.75# @ 785' w/100 sxs TOC est @ 435'. 5-1/2" 15.5# @ 3501' w/100 sxs cml, TOC est @ 3000'. 2-3/8" 4.7# @ 3344'.
Current Status:	1980' FWL					
Wtr Injection	Sec. 10-17S-31E		03/64	DWIW	3585'	Deepen well to 3585'. Perf'd Melex f/3378-89'. Perf Square Lake f/3438-41'. Set 2-3/8" tbg & pkr @ 3466'. Converted to dual WIW.
			1/23/81			Set BP @ 3466'. Set pkr @ 3319'. Convert to single WIW thru 3378-3441'.
			8/16/89		3955'	Deepen well to 3955'. Ran 4" liner & set w/65 sxs. TOL 3323'. Perf f/3821-3941' (22 holes). Perf f/3610-3792' (28 holes).
						Perf 3373-3569' Ran 2-3/8" & pkr, set @ 3279'. (Ready for WIW).
			8/30/89			Commenced WI.
			1/1/93			Set pkr & tbg @ 3280'.
H.E. West "B" #50	50' FSL	3/4/93	7/21/93	Oil	4356'	13-3/8" 48# set @ 576' w/250 sxs cml, TOC est @ 321'. 5-1/2" 17# @ 4356' w/1900 sxs cml, TOC est @ surf. 2-7/8" @ 3863'. Perfs 3980-4052', 3936-47', 3907-23', 3845-58', 3825-33', 3558-3474', 3434-06', 3379-77', 3300'
Current Status:	1400' FWL				PBTD 4285'	
Oil Well	Sec. 3-17S-31E					
H.E. West "B" #24	"A" 660' FNL	11/28/59	1/9/60	Oil	3604'	8-5/8" 24# @ 815' w/100 sxs. TOC est @ 655'. 5-1/2" 14 & 15.5# @ 3604' w/100 sxs. TOC est @ 3000'. 2-3/8" 4.7# @ 3514'. Perf'd 3396-3560'.
Current Status:	660' FEL				PBTD 3597'	
Wtr Injection	Sec. 10-17S-31E		3/1/66	WIW		Perf'd Grayburg f/3430-38', 3448-56', 3462-68' w/44 3/8" holes. Ran 2-3/8" tbg & pkr, set @ 3509'. Conv to Wtr injection well.
			8/31/89	WIW	3916'	Deepen to 3916'. Ran 4" liner & set w/TOL @ 3277'. Cmt'd w/100 sxs,
			9/28/89	WIW		Set ret @ 3225 & sq w/50 sxs cl "C". D/d out ret & cml in 4" lnr to 3907'. Perf'd 3750-877'. Perf'd f/3602-3703'. Perf'd f/3375-76'. Ran 100 jts 2-7/8" tbg w/SN set @ 3236'. Hung well on pump.
			1/3/91	WIW		Ran 4" pkr & tbg, set pkr @ 3378'. Tied into injection line.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #67	"G" 2625' FNL	12/31/94	3/12/95	Oil	4395' PBTD 4366'	8-5/8" 24# @ 646' w/425 sxs cmt, TOC surf, 5-1/2" 15.5# @ 4394' w/ 800 + 435 sxs cmt, TOC Surf, circ to surf, 2-7/8" tbg @ 4227'. Perfs: Slaughter 4126-4219'. Lower Jackson 4033-90', U & M Jackson 3797-3999'
Current Status:	1335' FEL					Vacuum, Lovington & U. Jackson 3628-3753', Grayburg & Vacuum 3321-3596'.
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #59	"K" 2625' FSL	10/10/94	11/7/94	Oil	4370' PBTD 4322'	8-5/8" 24# @ 447' w/365 sxs circ to surf, 5-1/2" 15.5# @ 4370 w/1075 sxs circ to surf, 2-7/8" tbg @ 4080' (OET). Perf 3275-3939'.
Current Status:	2625' FWL					
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #42	"H" 2105' FNL	1/11/89	2/26/89	Oil	4004' PBTD 3800'	8-5/8" 24# @ 641' w/400 sxs, TOC surf, 5-1/2" 17# @ 3985' w/1250 sxs, TOC surf, 2-3/8" tbg @ 3723'. Perf 3808-3923' (Perf 3614-3791' (85) acid w/6000 gals.
Current Status:	660' FEL					3546-99' Perf 3398-3524' (64).
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #4	"D" 660' FNL	6/17/46	10/2/46	Oil	3153'	10-3/4" @ 46', 8-5/8" @ 645', 7" @ 3097', 2-1/2" @ 3153'. Oil Zone: 3235-3527'. Perfs: 3270-3422'. No cement report available.
Current Status:	660' FWL		5/16/81	P&A		150 sxs cl "C" on cmt ret @ 3007'. Perf 2 JSPF @ 1818-20', set pkr @ 1761'. Cmt ret @ 1759' w/ 250 sxs, Pmpd 100 sl "C" between 8-5/8" x 7" annulus. Spot 20 sxs "C" in 7" csg f/682-582 (100' plug), Spot 60' cl "C" plug @ surf. CO WH. Well plugged and abandoned.
Plugged & Aband	Sec. 4-17S-31E					
H.E. West "B" #15	"G" 1980' FNL	5/8/58	7/8/58	Oil	3728' PBTD 3726'	10-3/4" @ 780' w/200 sxs, TOC Surf, 5-1/2" @ 3728' w/100 sxs, TOC est 3000'. 2" @ 3453'. Perfs: 3515-40'; 3372-78'.
Current Status:	1980' FEL					
Wtr Injection	Sec. 10-17S-31E		8/26/89	ready for WI	3952'	Deepen to 3952', set CIBP @ 3320', Perf 3230' w/4 shots, sq 150 sxs. Drid out cmt & CIBP. Ran 834' of 4" liner. TOL @ 3119'. Cmt w/50 sxs cl "C". Drid out cmt. TOC @ 3220'. Perf 3799-3916 (18). Perf 3392-3752' Perf 3368-78' Ran
						pktr & tbg, set @ 3092'. Ready for injection.
			3/6/93	W/W		Started Water Injection.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #9	"M" 660' FSL	4/29/52	6/11/52	Oil	3595'	8-5/8" 24# @ 678', 7" @ 3089', 2-1/2" @ 3595'. No cmt report available Oil pay: 3198-3207', 3350-3359', 3410-23', acid w/500 gals f/3405-3426', acid w/1000 g f/3405-3429'.
Current Status:	660' FWL		12/27/63	WIW	3749'	Deepen f/3544-3749', Perf G-SA 4 spf, 3158-3729' (224), Set 5" liner f/3000-3780' w/125 sxs cmt, 2-3/8" tbg w/pkr to 2979'.
H.E. West "B" #48	"J" 2130' FSL	7/8/94	10/5/94	Oil	4370' PBTD 4325	8-5/8" 24# @ 447' w/365 sxs, TOC surf., 5-1/2" 15.5# @ 4370' w/1007 sxs, TOC Surf. 2-7/8" @ 4266' (OET), Perf Slaughter 4200-45' (20), Jackson 3575-3878', Premier 3494-3528', Loco Hills/Melex 3272-3450'
Current Status:	1980' FEL					
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #7	"L" 1980' FSL	2/7/52	4/23/52	Oil	3541'	8-5/8" @ 649' w/100 sxs cmt, TOC est @ 490', 7" @ 3105' w/200 sxs cmt, TOC est @ 2200', 2-1/2" @ 3379'.
Current Status:	660' FWL		12/7/63	Oil	3765'	Deepen to 3765'. Ran tbg to 3401'.
Oil Well	Sec. 4-17S-31E					
H.E. West "B" #2	"P" 330' FSL	11/1/37	2/4/38	Oil	3757'	9" @ 695' w/50 sxs, TOC est @ 560', 7" @ 3570' w/100 sxs, TOC est @ 3110', 2" @ 3710'. Zones: 3590-3605', 3714-21'
Current Status:	900' FEL		2/6/40	Abandoned		Filled hole w/why mud to top & cmt btm of hole w/50 sxs. CO 7" csg @ 980' Set 15 sxs plug in 7" csg @ 980'. CO 9" csg @ 81'. Set 15 sx plug in top of 9". Set 10 sx cmt plug in btm of cellar.
Plugged & Aband	Sec. 9-17S-31E		9/27/89	P&A		Circ 200 sxs cl "C" to surface. Well plugged and abandoned.
H.E. West "B" #27	"N" 660' FNL	5/3/61	8/22/61	P&A	12,860' PBTD 3700'	13-3/8" @ 650' w/740 sxs cmt, TOC surf., 9-5/8" @ 3800' w/1450 sxs. TOC est @ 745'. CIBP @ 3700' Plugs: 100 sxs f/12,607-12,860'.
Current Status:	1980' FWL		2/7/64	Oil	PBTD 3885'	38 sxs f/11050-11150', 38 sxs f/9600-9700' 38 sxs v/7000-7100', 38 sxs f/6300-6400', 60 sxs f/3700-3850', Perfs: 3180-3546' w/118 holes.
Oil Well	Sec. 4-17S-31E		11/29/89	Oil		Began pumping.
H.E. West "B" #31	"P" 660' FWL	6/16/88	7/10/88	Oil	4218' PBTD 3747'	8-5/8" 24# @ 630' w/450 sxs, TOC surf., 5-1/2" 15.5# @ 4218' w/1300 sxs, TOC surf. 2-3/8" @ 3677' (EOT), Perfs: 3301-4087'. 200 sxs f/4041-4138'.
Current Status:	660' FEL					
Oil Well	Sec. 10-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #13	"E" 1980' FNL	8/16/57	10/7/57	Oil	3630'	10-3/4" 28.6# @ 739' w/100 sxs cml. TOC est @ 440'. 7" 20# @ 3525' w/100 sxs cml. TOC est @ 2460'. 2-3/8" 4.7# @ 3285'. Perfs: 3318-26', 3356-75'.
Current Status:	660' FWL		8/29/89	W/IW	3900'	Deepen to 3900'. Ran 5" liner 3094-3897' set w/150 sxs cml. Ran 2-3/8" tbg w/pkr @ 3206'. Perf'd 3737-3864' CIBP @ 3720'
W/IW/W	Sec. 10-17S-31E					Perf'd 3568-3965'. Perf'd 3312-3519'
			2/17/93	W/IW		Cind out of 3720'. Drid out CIBP @ 3720'. Cind out to PBTD of 3890'.
						set tbg in pkr @ 3218'.
			5/30/95	SIW/W	4050'	Deepen to 4050'. Perf 3737-3864' (25), 3568-3696' (28), 3312-3519' (32)
						3897-4050' OH.SI W/IW.
H.E. West "B" #14	"K" 1980' FSL	11/9/57	1/1/58	Oil	3632'	8-5/8" 24# @ 762' w/100 sxs cml. TOC est @ 600'. 7" 20# @ 3563' w/100 sxs cml. TOC est @ 3157'. 2-3/8" @ 3340'. Perfs: 3380-96'.
Current Status:	1980' FWL		6/2/65	DW/IW	PBTD 3450'	Perf'd Metex 3343-51', Premier 3496-3537', w/124 holes.
Wtr Injection	Sec. 10-17S-31E		2/27/81	SW/IW		Tbg & pkr set @ 3368'.
			9/28/89		3950'	Set pkr @ 3276'. Inst wellhead for single wtr injection in Grayburg-Jackson
						3343-3537' and OH 3563-32'.
						Deepen to 3950'. Ran 22 jts 5" liner & set w/top @ 3255'. Cmt'd w/120 sxs
						Set ret @ 3205' & sq w/50 sxs. Perfs 3773-3900'
						Perf'd 3582-3749'
						Perf'd 3317-3547' w/34 shots.
			3/25/93	W/IW		Ran tbg & pkr, set @ 3208'.
						set pkr @ 3217'.
H.E. West "B" #17	"I" 1980' FSL	9/2/58	10/13/58	Oil	3670'	10-3/4" 32.75# @ 747' w/100 sxs cml. TOC est @ 400'. 5-1/2" 17-15.5# @ 3670' w/100 sxs. TOC est @ 3200'. 2-3/8" 4.7# @ 3302'. Perf'd 3338-56'.
Current Status:	660' FEL		06/65	DW/IW		Perf'd (100 holes) Metex 3296-3302', Premier 3466-3500', Lovington
Wtr Injection	Sec. 9-17S-31E		4/16/81	SW/IW		3613-24'. Recomplete as a dual wtr inj well.
				W/IW	3930'	Set pkr @ 3242'. SW/IW in Metex, Square Lake, Premier & Lovington.
						Drid to 3930'. Perf'd 3536-3649'. Perf'd 3271-3501' (80)
						Ran pkr & tbg, set @ 3240'.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #29	"C" 660' FNL 1980' FWL	12/11/63	1/22/64	Oil	3810'	8-5/8" @ 559' w/240 sxs cmt. TOC est @ 175'. 5-1/2" @ 3810' w/300 sxs cmt. TOC est @ 2600'. 2-7/8" @ 3723'. Perfs: 3232-3804'. Set CIBP @ 3600' w/1 sx cmt. Ran 2" tbg & pkr, Set @ 3168'. Conv to wtr injection well. (thru perfs 3232-3462) Cln'd out to 3810'. Perfs 3224-3800' w/118 holes. Ran tbg & pump. SN @ 3756'. Ran tbg & pkr, set @ 3151'. Commenced injecting 8/15/89
Wtr Injection	Sec. 9-17S-31E		8/15/89	W/W	PBTD 3600'	
H.E. West "B" #21	"M" 660' FSL	3/20/59	5/20/59	Oil	3802'	10-3/4" 32.75# set @ 734' w/100 sxs cmt. TOC est @ 380'. 5-1/2" 4.7# @ 3802' w/125 sxs. TOC est @ 3326'. 2-3/8" 4.7# set @ 3319'. Perfd 3362-70' Added perfs 3416-3775' (28 holes). Cln'd & drld out to 3801'. Deepen to 3917'. Perfd 3576-3773'. Perfd 3294-3511' w/38 holes. Set pkr & tbg @ 3207'
Current Status:	660' FWL		06/70			
Wtr Injection	Sec. 10-17S-31E		6/28/89	W/W	3917'	
H.E. West "B" #34	"I" 1980' FSL	9/26/88	10/88	Oil	3885'	8-5/8" 24# @ 629' w/450 sxs. TOC surf. 5-1/2" 17# @ 3885' w/1650 sxs. TOC surf. 2-3/8" @ 3761'. Perfs 3616-3802'. Perfd 3341-3583' (68).
Current Status:	660' FEL				PBTD 3837'	
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #32	"L" 1980' FSL	8/13/88	9/27/88	Oil	3954'	8-5/8" 24# @ 582' w/450 sxs cmt. TOC surf. 5-1/2" 15.5# @ 3954'. w/1600 sxs. TOC surf. 2-3/8" @ 3755'. Perfs 3529-3754'. Perfs 3451-84'. Perfs 3391-3424'. Perfd 3314-19'
Current Status:	660' FWL					
Oil Well	Sec. 10-17S-31E					
H.E. West "B" #53	"H" 1350' FNL	9/20/93	12/7/93	Oil	4310'	8-5/8" 24# @ 584' w/300 sxs cmt. TOC surf. 5-1/2" 15# @ 4310' w/1300 sxs. TOC surf. 2-7/8" @ 3562'. Perfd 3228-3438' (192 holes).
Current Status:	1250' FEL				PBTD 4152'	
Oil Well	Sec. 9-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #52	"D" 1250' FNL	3/21/93	5/17/93	Oil	4335' PBTD 4284'	8-5/8" 24# @ 626' w/500 sxs. TOC surf. 5-1/2" 17# @ 4335' w/1200 sxs TOC surf. 2-7/8" @ 4280'. Slaughter perfs: 4126-04' & 4094-4080' Perf 4162-98' Perfd Jackson 3940-80' (80), Perf Jackson 3764-3860' (66) Grayburg perfs 3246-3515' (52)
Current Status: Oil Well	100' FWL Sec. 10-17S-31E		8/1/93			
H.E. West "B" #36	"H" 1980' FNL	10/15/88	11/10/88	Oil	3883' PBTD 3861'	8-5/8" 24# @ 541' w/400 sxs cmt. TOC surf. 5-1/2" 17# @ 3883' w/1300 sxs. TOC surf. 2-3/8" @ 3781' (OET). Perfs: "A" 3494-3821' (62); "B" 3267-3462'; "C" 3199-3234'. Drd out shoe jt 3861-3883' & 4-3/4" OH f/3883-4050'. Run OH Neut Log Run pkr & tbq, set @ 3111'. Conv to WIW.
Current Status: Wtr Injection	660' FEL Sec. 9-17S-31E		2/14/95	WIW		
H.E. West "B" #30	"K" 1980' FWL	1/19/66	2/30/66	Oil	3952' PBTD 3810'	8-5/8" 24# @ 551' w/300 sxs cmt. TOC surf. 4-1/2" 10.5# @ 3952' w/470 sxs cmt. TOC est @ 2500'. 2-3/8" @ 3351'. (OET). Perfs 3394-3400', 3403-07', 3466-72' Set CIBP @ 3810'. Perf 3579-3760' Perf 3247-3560'. gals. Ran tbq & pkr, set Pkr @ 3201'. Started Injection 8/15/89.
Current Status: Wtr Injection	1980' FSL Sec. 9-17S-31E		7/1/89	WIW		
H.E. West "B" #62	"J" 2625' FSL	9/5/94	3/16/95	Oil	4350' PBTD 4323'	8-5/8" 24# @ 566' w/145 sxs cmt. TOC surf. 5-1/2" 15.5# @ 4349' w/1165 sxs cmt. TOC surf. 2-7/8" @ 4028' (OET). Perfd Middle Jackson f/3759-3909' Perf Vac & Lovington 3539-3623' Perf Lovington f/3612-23' Perf Grayburg 3226-3491'
Current Status: Oil Well	1335' FEL Sec. 9-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #72	"P"	1/3/95	3/16/95	Oil	4160'	8-5/8" 24# @ 520' w/225 sxs, TOC surf. 5-1/2" 15.5# @ 4159' w/2000 sxs, TOC surf. 2-7/8" @4069', Perf L. Jackson 3911-4008' (19), Vac & Lovington 3545-3623' (14) Grayburg 3247-3465' (17).
Current Status:	660' FSL 735' FEL				PBTD 4112'	
Oil Well	Sec. 9-17S-31E					
H.E. West "B" #46	"J"	12/21/89	1/17/90	Oil	3938'	8-5/8" 24# @ 541' w/325 sxs cml, TOC surf. 5-1/2" 17# @ 3938' w/950 sxs cml, TOC surf. 2-7/8" @ 3861', Perf'd 3881-3906' (9), Perf 3670-3739' Perf 3267-3473'
Current Status:	1880' FSL 1980' FEL				PBTD 3918'	
Oil Well	Sec. 9-17S-31E					
H.E. West "B" #64		11/8/94	1/11/95	Oil	4265'	8-5/8" 24# @ 575' w/390 sxs cml TOC surf. 5-1/2" 15.5# @ 4264' w/1625 sxs cml, TOC surf. 2-7/8" @ 3905' OE. 4000' 4 squeeze holes, Perf San Andres 3566-3890' Perf Grayburg 3322-3440'
Current Status:	15' FNL 2625' FEL				PBTD 3950'	
Oil Well	Sec. 9-17S-31E					
West "B" #35		10/5/88	11/10/88	Oil	3815'	8-5/8" 24# @ 460' w/400 sxs cml, TOC surf. 5-1/2" 17# @ 3815' w/1300 sxs cml, TOC surf. 2" @ 3658', Perf 3732-91' cml w/127 sxs cl "C" Perf 3457-3707', Perf 3410-41', Perf 3212-3380'
Current Status:	1980' FSL 860' FWL				PBTD 3802'	
Oil Well	Sec. 9-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #8	"D"	2/1/52	4/22/52	Oil	3542'	8-5/8" @ 630' w/100 sxs cmt, TOC est @ 470', 7" @ 3109' w/200 sxs cmt, TOC est @ 2200', 2-1/2" @ 3505', deepen f/3423-3542'.
Current Status:	660' FNL					
Plugged & Aband	Sec. 9-17S-31E		6/4/76	Dry	PBTD 2446'	Cut tbg @ 3115' & POOH. RIH w/7" cmt ret on tbg & set @ 3029'. Pmpd 200 sxs thru ret. PU tbg to 2907'. Left 122' cmt on top of pkr. TIH w/tbg OE to 2900'. Spotted 20 bbls mud 2900-2500'. Pld tbg out of hole to 2500'. Spid 25 sxs cmt plug 2500-2350'. Recompletion in Seven Rivers. Perfs 2100-2161' (8), Set pkr, Treated 2100-2261' w/2000 gals. Reomp. Unsuccessful. Set ret 1744' w/125 sxs. Left 60' cmt on top of ret. TOC 1684'. Perf'd 4.5" holes in 7" @ 700'. Ran 7" ret, set @ 557'. Circ ann w/175 sxs. TOC @ 507'. Spotted 10 sxs inside 7" csg @ surf. Plugged and Abandoned.
<i>2 1/2" for 2 sets</i>			6/7/76	P&A		
H.E. West "B" #47	"B"	12/2/89	1/9/90	Oil	3922'	8-5/8" 24# @ 539' w/350 sxs cmt, TOC surf. 5-1/2" 17# @ 3922' w/1400 sxs cmt, TOC surf. 2-3/8" @ 3743' (OE). Perf 3842-59'. Perf 3734-3819'.
Current Status:	840' FNL				PBTD 3805'	Perf'd 3501-3613' (15), 3265-3444' (33).
Wtr Injection	1980' FEL		Feb-95	W/W		Dr'd out CIBP @ 3805', Perf 3223-3914' (24),
	Sec. 9-17S-31E					Ran pkr & tbg, set pkr @ 3053'. Convert to wtr injection well.
H.E. West "A" #15	"A"	11/22/88	1/6/89	Oil	4090'	8-5/8" 24# @ 685' w/450 sxs cmt, 5-1/2" 17# @ 4090' w/1300 sxs cmt, 2-3/8" @ 3977'. Perfs 3943-4046', 3713-3926', 3479-3684'.
Current Status:	660' FNL				PBTD 4037'	
Oil Well	330' FEL					
	Sec. 3-17S-31E					
H.E. West "B" #79	"F"	2/15/95	4/24/95	Oil	4360'	8-5/8" 24# @ 602' w/165 sxs cmt, TOC surf. 5-1/2" 15.5# @ 4359' w/1125 sxs cmt, TOC surf. 2-7/8" @ 3988' (OE), Perf'd Lovington,
Current Status:	2630' FNL				PBTD 4310'	L&M Jackson f/3566-3898', Perf Premier f/3405-3460',
Oil Well	2457' FWL					Perf'd Grayburg f/3197-3379'
	Sec. 9-17S-31E					

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
H.E. West "B" #63	"G" 1335' FNL 2555' FEL	9/15/94	3/12/95	Oil	4280' PBTD 4239'	8-5/8" 24# @ 548' w/365 sxs cml, TOC surf. 5-1/2" 15.5# @ 4279' w/1125 sxs cml, TOC surf. 2-7/8" @ 4225' (OE), Slaughter 4015-4151' San Andres 3572-3801' Perf Grayburg 3189-3435'
Current Status:	2555' FEL					
Oil Well	Sec. 9-17S-31E					
H.E. West "B" #39	"F" 1980' FWL	12/13/88	1/26/89	Oil	3868' PBTD 3819'	8-5/8" 24# @ 488' w/350 sxs, TOC surf. 5-1/2" 17# @ 3868' w/1150 sxs, TOC surf. 2-3/8" @ 3738', Perf'd 3700-3815' Perf 3654-3762', Perf 3458-3623', Perf 3253-3420'
Current Status:	1980' FNL					
Oil Well	Sec. 9-17S-31E					
H.E. West "B" #10	"E" 1980' FNL	2/23/53	4/9/53	Oil	3623'	8-5/8" 24# @ 642' w/100 sxs, TOC est @ 482' 7" 20# @ 3097' w/200 sxs, TOC est @ 2200' 2-1/2" @ 3300' Perf 3297-3313', 2-3/8" tbg @ 3040', Pkr @ 3040', Jet perf 112 holes 3161-67', 3209-15', 3242-52', 3302-05', 3331-34', 3346-56', 3358-61', 3364-67', 3410-16', 3429-35'
Current Status:	660' FWL		7/14/64	WIW		
Wtr Injection	Sec. 9-17S-31E					
			8/9/89			Perf'd 31 new holes f/3190-3496', Ran Tbg & pkr. Set @ 2938'. Ready for injection
			8/15/89	WIW		Commenced injection.
H.E. West "B" #40	"D" 560' FNL	12/22/88	2/2/89	Oil	4021' PBTD 3956'	8-5/8" 24# @ 603' w/350 sxs cml, TOC surf. 5-1/2" 17# @ 4021' w/1250 sxs cml, TOC surf. 2-3/8" @ 3868', Perf 3792-3941'
Current Status:	660' FWL					20% acid. Perf'd 3585-3746' (43), Perf'd 3475-3547', Perf 3345-3425', Deepen to 4050'. Perf 3220-3484'
Wtr Injection	Sec. 10-17S-31E		2/5/95	WIW	4050'	Ran 5-1/2" pkr, set @ 3134'. Conv to wtr injection 2/5/95.

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
J. L. Keel "B" #19	1980' FSL 1980' FEL Sec. 5-17S-31E	3/13/54	8/21/54 5/29/69 4/4/86	Oil Oil SI	3700' PBTD 3316'	8-5/8" 22# set @ 622' w/100 sxs cmt, 7" 20# 8RD csg set @ 3006' w/ 200 sxs cmt, 2" 4.7# @ 3695'. Zones: OH 3639-53' and 3672-80'. PD thru tbg to 3316'. Ran 3-1/2" tbg & pkr to 2950'. Pulled Rods & pump. Ld hole w/corr inh oil. SI effective 4/4/86.
J. L. Keel "B" #10	"B" 660' FNL 1980' FEL Sec. 5-17S-31E	8/15/51	9/15/51 5/30/65 10/27/73 6/12/79	Oil Oil Oil Oil	3127' PBTD 3120' 3413'	10-3/4" 32.75# csg set @ 594' w/100 sxs cmt, 7" 26# csg @ 3019' w/200 sxs cmt, 2" 4.7# UE @ 3120'. Oil pay 3094-3100'. (PB to 3120' w/gravel). Deepen to 3413' 2-7/8" tbg @ 3014'. Cln out to 3346'. Ran 2-7/8" tbg & SN to 3247'. Cln out to 3346'. RIH w/CA to 3339'. Ld hole w/15 BW.
J. L. Keel "B" #15	"H" 1980' FNL 660' FEL Sec. 8-17S-31E	4/16/52	7/8/52 9/24/81	Oil P&A	3500'	8-5/8" csg @ 777' w/100 sxs cmt, 7" @ 3075' w/200 sxs cmt, 2-1/2" @ 3165'. Zone: 3075-3500' OH. POOH w/3077' tbg. Cmt retr set @ 2967'. Sp'd 260" "H" cmt on to of retr. Spt 100' cmt f/1595-1695'. Perf'd 2 JS @ 700'. Set Cmt retr @ 650'. Cmt'd thru retr w/235 sxs cl "H". Pmp'd 175 sxs thru ann. spot 100' cmt plug on top of retr @ 650'. Spot 10' cmt @ surf. CO WH. Well P&A
J. L. Keel "B" #9	"H" 1980' FNL 660' FEL Sec. 5-17S-31E	6/20/51	8/23/51	Oil	3500'	10-3/4" 32.75# csg @ w/100 sxs cmt, 7" 24# csg @ 3082' w/200 sxs cmt.
J. L. Keel "B" #16	1980' FSL 660' FEL Sec. 5-17S-31E	5/1/52	7/9/52 1/15/64 5/22/95	Oil W/W P&A?	3510' 3780'	8-5/8" 24# csg @ 643' w/100 sxs cmt, 7" 26# @ 3081' w/200 sxs cmt, 2-1/2" at 3295'. 3-1/2" Larkin shot w/190 qtr Nitro gly f/3260-3350'. CO to 3350'. Zones: 3278-3289', 3324-32'. Deepen to 3780'. Cmt'd 5" liner f/3002-3765'. Perf'd 3140-3756' (164), set 2-3/8" tbg @ 3113' w/pkr. Conv to wtr inj well. In process of P&A'ing well. No report to reflect well was plugged, although status reflects P&A.
J. L. Keel "B" #50	1310' FSL 1310' FEL Sec. 5-17S-31E	12/7/94	3/8/95	Oil	4167' PBTD 4112'	8-5/8" J-55 24# csg set @ 482' w/365 sxs cmt, TOC surf. 5-1/2" J-55 15.5# csg, set @ 4166' w/1425 sxs cmt, TOC surf. Perfs: 3041-3852'. 2-7/8" OE tbg @ 3903'.

Well Name	Operator	Location	Spud Date	Completion Date	Type of Well	Depth/PBTD	Completion Record
Kersey State #1	Westfall Ray	660' FNL 1980' FEL	3/4/89	5/4/89	Oil-WO	3780'	4-1/2" csg @ 3780 w/300 sxs cmt, 2-3/8" tbg @ 3710'. IP: f/3453-3749' prod 130 BOPD & 110 MCF/d. Acid 3645-3749' w/7000 gals acid, Acid f/3453-3590' w/2000 gals. Frac'd f/3452-3590' w/60,000 gals & 160,000# sd.
Lea "C" #11	Apache Corp	1980' FSL 660' FWL	7/21/72	8/5/72	Oil	3930'	8-5/8" set @ 614' w/350 sxs cmt, 5-1/2" set @ 3930' w/1600 sxs cmt. Acid f/3361-3872' w/2000 gals, Frac'd w/35,000 gals & 52,000# sd. IP: 78 BO, 84 BW.
Skelly Unit #106	Wiser Oil Co.	660' FNL 1980' FWL	1/9/71	2/19/71	Oil	3692'	8-5/8" @ 626' w/300 sxs cmt, 5-1/2" @ 3692' w/1350 sxs cmt, Frac'd f/3282-3510' w/18,000 gals & 22,500# sd. IP 65 BO. 5 BW. See Attached Schematic for Plugging Information
Skelly Unit #18	Wiser Oil Co.	660' FNL 660' FWL	8/5/59	9/16/59	Oil	3611'	8-5/8" @ 770' w/90 sxs, 5-1/2" @ 3510' w/345 sxs. CLAG f/3434-3460' w/250 gals, Frac w/40,000 gals. CLAG f/3302-58' w/250 gals, Frac w/50,000 gals. IP: 3302-3460' 129 BO.
J.L. Keel "B" #1	Repollo Oil Co. (Devon)	330' FSL 330' FEL	11/22/26	5/1/27	D&A	3872'	12-1/2" @ 680', 10" @ 1823', 8-1/4" @ 2953', 6-5/8" @ 3380'. XPLO f/3482-3491' w/40 QIs, f/3377-3412' w/140 QIs. IP 15 BO. 3380-3872'. See Attached Schematic for Plugging Information
West "A" #1	Repollo Oil Co. (Devon)	660' FNL 1980' FWL	7/17/46	9/20/46	D&A	3690'	10" @ 815' w/75 sxs cmt, 8-1/4" @ 2885'. See Attached Schematic for Plugging Information
H.E. West #3	Repollo Oil Co. (Devon)	330' FNL 330' FEL	3/19/39	7/5/39	D&A	4483'	8-5/8" @ 895' w/50 sxs, 7" @ 3670' w/200 sxs. See Attached Schematic for Plugging Information
New Mex BG St #3	Mack Energy Corp	1650' FSL 330' FEL	9/15/79	11/8/79	Oil	3852'	8-5/8" @ 770' w/300 sxs, 5-1/2" @ 3847' w/425 sxs. Acid 2994-3000' w/500 gals, Frac'd w/17,000 gals & 19,000# sd. Acid 3569-74' w/500 gals, Frac'd w/20,000 gals & 23,000# sd. Acid 3659-3694' w/1000 gals, Frac'd w/31,000 gals & 35,500# sd. IP: 3569-3694': 84 BO.
Shell-State #1	Kersey and Co.	330' FNL 330' FEL	7/14/60	12/1/60	Oil	3778'	8-5/8" @ 682' w/50 sxs cmt, 4-1/2" @ 3775' w/325 sxs. Acid f/3726-3744' w/2500 gals, Acid 3288-3428' w/2500 gals, Frac'd w/25,000 gals, 25,000# sd.
Johnson "B" #4	Suppes, GB	510' FSL 2130' FEL	5/20/48	7/18/48	D&A	3798'	8-1/4" @ 532', 5-1/2" @ 3279' w/150 sxs cmt.
TX Trading-Fed #2	Xeric Oil & Gas Co.	660' FSL 660' FEL	12/25/63	1/20/64	Inj	3836'	5-1/2" @ 3836' w/150 sxs cmt.
Johnson #16	Xeric Oil & Gas Co	330' FSL 2310' FEL	6/6/55	7/24/55	Oil	3597'	8-5/8" @ 583' w/50 sxs cmt, 5-1/2" @ 3561' w/50 sxs cmt, Frac'd 3428-3440' w/10,000 gals & 10,000#sd, Frac'd 3561-3597' w/10,000 gals & 10,000# sd. IP: 3428-3597' 47 BOPD.

Non-Operated Wells in Area of Review

ATTACHMENT VI
Well Information and Downhole Schematics
Plugged and Abandoned Wells within Area of Review
Devon Energy Corporation
Grayburg/Jackson Waterflood Project

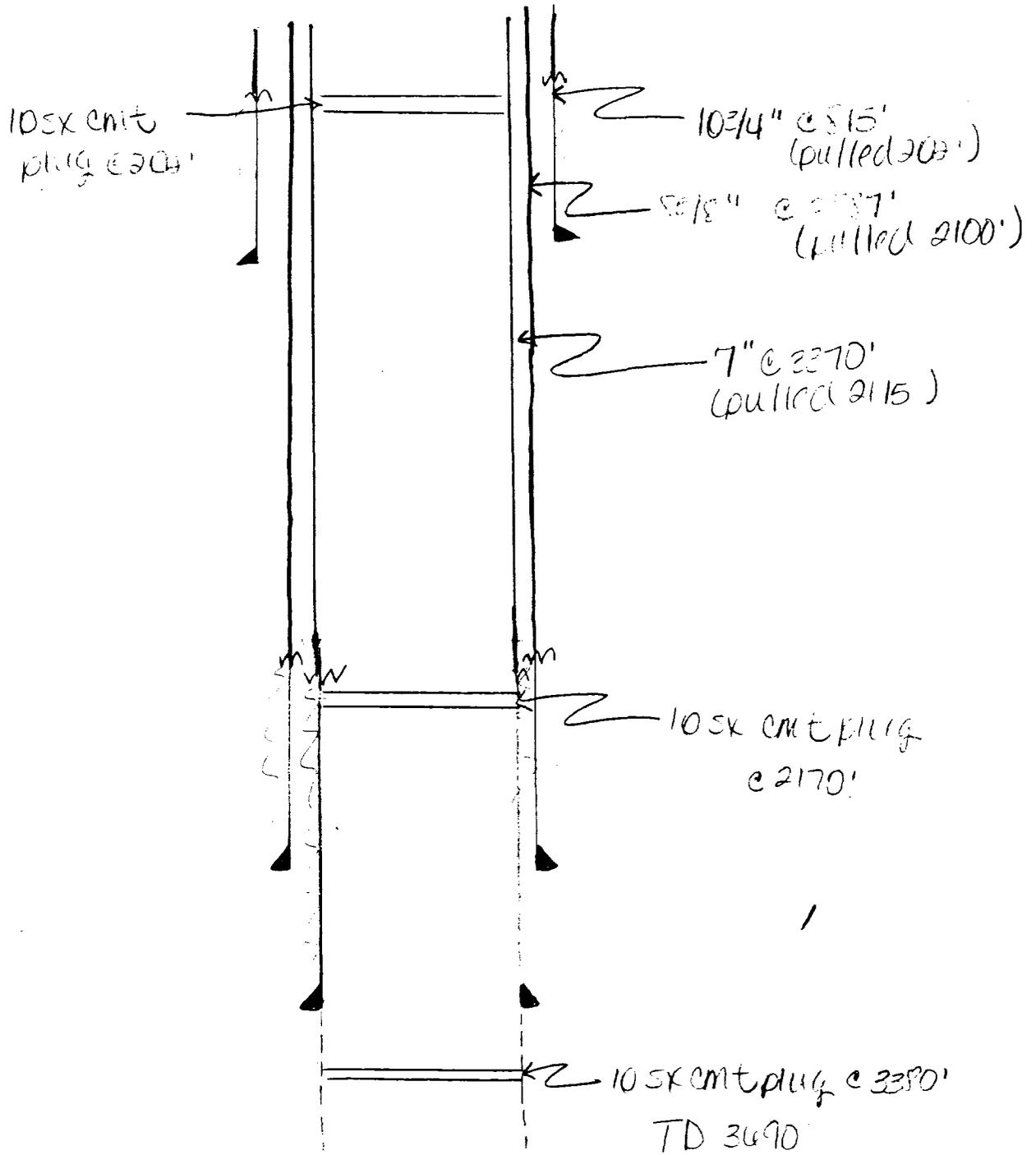
Well Name: West "A" #1
Location: Section 3-17S-31E
Operator (at time of plugging): Repollo
Date Plugged: 1948
Information Obtained From: Completion Report

Comments: Filled hole w/hvy mud thru tbg & spotted 10 sx cmt plug @ 3380'.
 Knocked off 7" csg @ 2100' & knocked off 8-5/8" csg @ 2115'. Spotted 10 sx cmt plug @ 2170' thru tbg. Pulled tbg and knocked off 10-3/4" csg @ 202'. Spotted 20 sx cmt plug @ 202' thru tbg. Keeping hole full of hvy mud. Set regulation Marker

Casing Detail:

Size	Weight	Setting depth	Cmt	Amount Pulled
10-3/4"	32.75#	815'	100 sxs	202'
8-5/8"	32#	2887'	None	2100'
7"	24#	3370'	50 sxs	2115'

Downhole Schematic:



DUPPLICATE COPY

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other P&A

2. NAME OF OPERATOR ARGO Oil & Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 1710, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FSL & 1980' FWL
AT TOP PROD. INTERVAL: as above
AT TOTAL DEPTH: as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
LC-030426 (b)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
H. E. West "B"

9. WELL NO.
23

10. FIELD OR WILDCAT NAME
Grayburg Jackson QGSA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
3-17S-31E

12. COUNTY OR PARISH: 13. STATE
Eddy New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3948' GL

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) _____

RECEIVED
MAY 10 1982

NOTE: Report results of multiple completion or zone change on Form 9-330.)

Handwritten: TD 3050 1-1-82

17. 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.)

RU 4/23/82, installed BOP, POH w/injection assy. Pushed junk 1600' to 2978'; circ csg w/brine gel wtr. Spot 25 sx C1 C cmt cont'g 2% CaCl₂ 2978-2678'. Set pkr @ 1627', established injection @ 2 BPM. POH w/pkr. Set cmt retr @ 1627'. Squeezed thru retr w/200 sx C1 C cmt cont'g 2% CaCl₂, final squeeze press 2000#. Spot 100' cmt on top of retr. RIH w/pkr & tbg, set pkr in 5" csg @ 1150', established circ between 8-5/8" x 5" csg. POH w/pkr & tbg. Set cmt retr @ 1155'. Pmpd 1000 sx C1 C cmt, had circ to surface, no cmt circ to surface. Spot 10' cmt on top of retr. Ran temp survey, indicated TOC @ 1070' FS. Perf'd 2 JS @ 800'. Set cmt retr @ 750'. Pmpd 260 sx C1 C cmt, circ 25 sx cmt to surf. Closed bradenhead & squeezed 100 sx cmt into formation w/1000#. Dumped 150' cmt on top of retr. Spot 150' cmt surface plug. Cut off wellhead below GL, installed regulation dry hole marker. Cleaned & levelled location. P&A eff 4/27/82. Final Report. (Plugging operations witnessed by Mr. Bird Jones w/Minerals Management Service, Artesia, New Mexico.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] TITLE Dist. Drlg. Supt. DATE 5/4/82

APPROVED
(This space for Federal or State office use)

[Signature]
TITLE _____

APPROVED BY _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
NOV 30 1982

FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

RECEIVED
DEC 8 1982

Handwritten: Midland Dallas CF-Mio

CENTRAL FILES

Lease West "A"
 Well No. 1 Sec. 3 T. 17S R. 31E
Eddy Co., SM

ACQUISITION _____ FIELD GLS LOCATION P+A

WELL PROFILE

TD	DRILL PIPE	LOG	ELEVATION	DATUM POINT (GRD-KB-DF)
PBTD	DRILL PIPE	GAMMA-RAY	Operator: <u>Ripollo</u>	
			DATUM POINT ELEVATION	

CASING DESIGN

SIZE	WEIGHT	GRADE	THREAD	COUPLING	MARK CMT	NO JTS	FOOTAGE	SACS
10 3/4"	32.75	8RD		815'	100 SVS		202'	
8 5/8"	32#	8RD		2887'	NO CMT		2100'	
7"	24#			3370'	50 SVS CMT.		2115'	

PERFORATED INTERVAL	FORMATION	REMARKS

COMMENTS:
 Filled hole w/ hvy mud thru tbg + spotted 10sv cmt plug @ 3380'. Knocked off 7" CSG @ 2100' + knocked off 8 5/8" CSG @ 2115'. Spotted 10sv cmt plug @ 2170' thru tbg. Pulled tbg and knocked off 10 3/4" OD CSG @ 202'. Spotted 20sv cmt plug @ 202' thru tbg. Keeping hole full hvy mud. Set 20sv cmt plug. Set regulation marker

SUBMITTED BY _____ DATE _____ APPROVED BY _____

Well Information and Downhole Schematics
Plugged and Abandoned Wells within Area of Review
Devon Energy Corporation
Grayburg/Jackson Waterflood Project

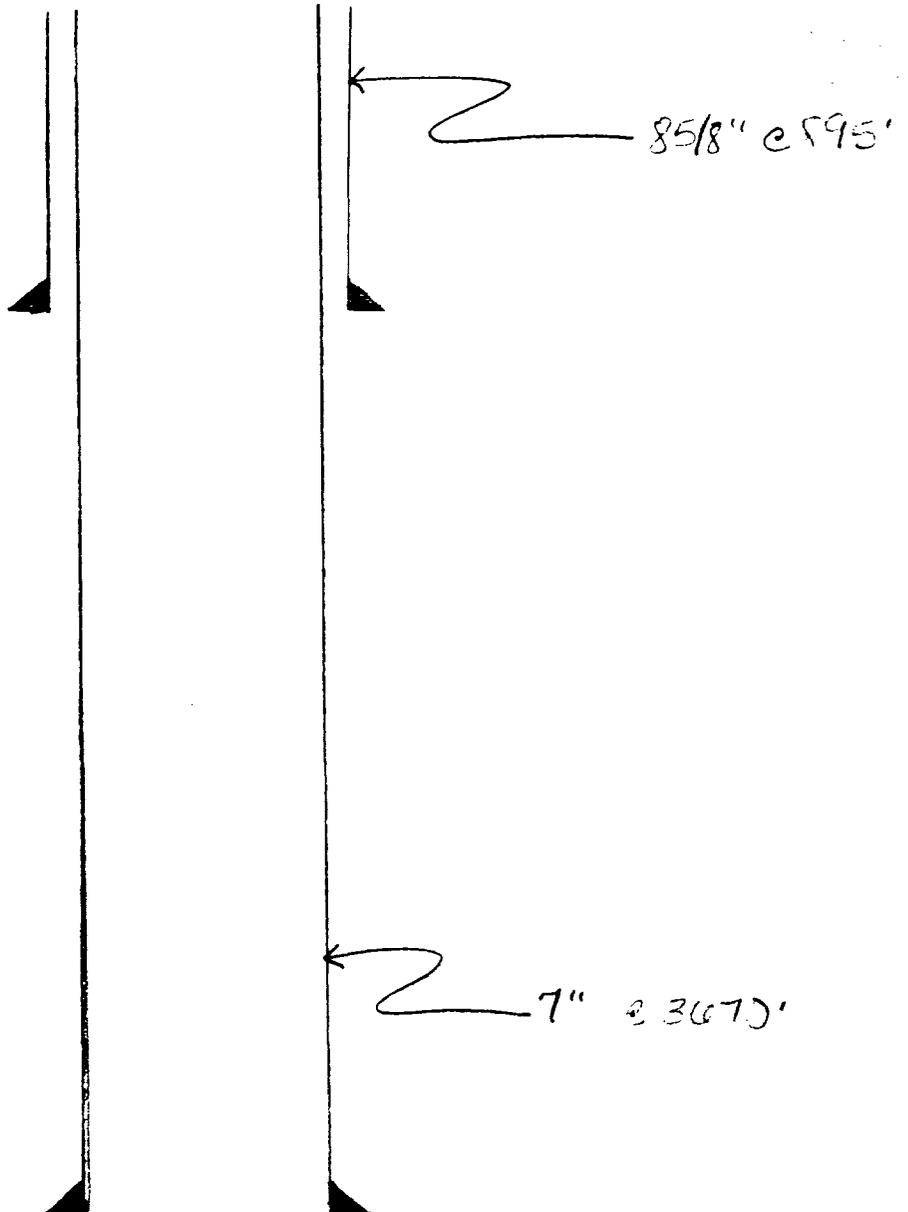
Well Name: West "A" #3
Location: Section 3-17S-31E
Operator (at time of plugging): Repollo
Date Plugged:
Information Obtained From:

Comments:

Casing Detail:

<u>Size</u>	<u>Weight</u>	<u>Setting depth</u>	<u>Cmt</u>	<u>Amount Pulled</u>
8-5/8"		895'		
7"		3670'		

Downhole Schematic:



*no plugging
info-
called
BLM.*

**Well Information and Downhole Schematics
Plugged and Abandoned Wells within Area of Review
Devon Energy Corporation
Grayburg/Jackson Waterflood Project**

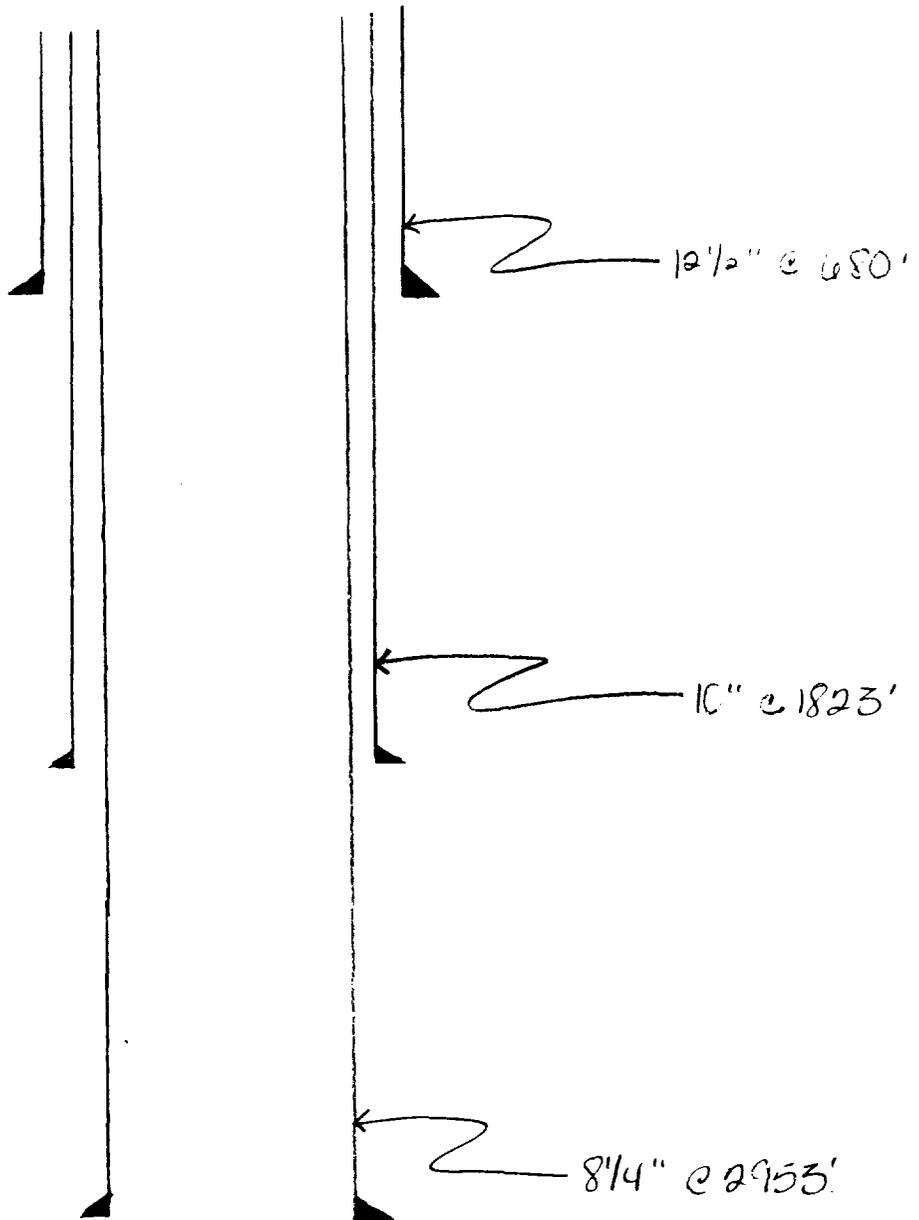
Well Name: Keel "B" 1
Location: Section 10-17S-31E
Operator (at time of plugging): Repollo
Date Plugged:
Information Obtained From:

Comments:

Casing Detail:

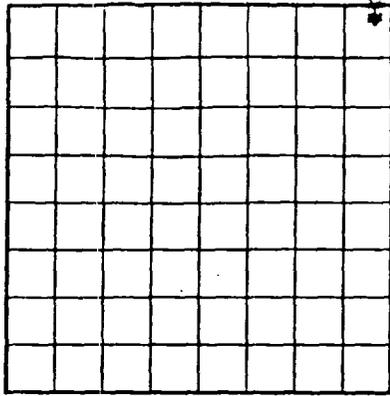
<u>Size</u>	<u>Weight</u>	<u>Setting depth</u>	<u>Cmt</u>	<u>Amount Pulled</u>
12-1/2"		680'		
10"		1823'		
8-1/4"		2953'		

Downhole Schematic:



*no
plugging info -
called BUM.*

U. S. LAND OFFICE **Las Cruces**
 SERIAL NUMBER **029426**
 LEASE OR PERMIT TO PROSPECT **H. E. West**



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Repollo Oil Company** Address **Tulsa, Okla.**
 Lessor or Tract **H. E. West** Field **Artesia** State **New Mexico**
 Well No. **5** Sec. **S** T. **17S** R. **31E** Meridian **NM1M** County **Eddy**
 Location **330** ft. {N.} of **N.** Line and **330** ft. {E.} of **E.** Line of **NENE** Elevation **3999**
(Elevation from relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed *L. Smith*
 Title **Dist. Supt.**

Date **7/3/39**

The summary on this page is for the condition of the well at above date.

Commenced drilling **3/19/39**, 19... Finished drilling **6/25/39**, 19...

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from show **3470** to **3475** No. 4, from to
 No. 2, from do **3904** to **3908** No. 5, from to
 No. 3, from do **4080** to **4093** No. 6, from to

IMPORTANT WATER SANDS

No. 1, from **3535** to **3538** No. 3, from to
 No. 2, from **4450** to **4483** No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8" OD	32	8		887'	TP				
7" OD	24	10		1000'	Alloy				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8" OD	32	50	Halliburton		
7" OD	24	200	do		6 Ton

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
 Adapters—Material Size

FOLD MARK

SHOOTING RECORD

Size	Shell used	Water used	Quantity	Date	Driller	Depth cleaned out
none						

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
 Cable tools were used from **0** feet to **4483** feet, and from feet to feet

DATES

..... 19..... Put to producing 19.....
 The production for the first 24 hours was **none** 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.

EMPLOYEES

~~P. H. Simpson~~ **Coleman**, Driller **E. A. Mardahl**, Driller
J. T. Henry, Driller , Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	130	130	Sand & Hedbed
130	630	500	Hedrock
630	850	220	Anhydrite
850	945	95	Salt
945	1130	185	Salt & anhydrite
1130	1825	675	Salt & Potash
1825	2305	480	Anhydrite
2305	3145	840	Anhydrite & Lime
3145	3155	10	Sand
3155	3185	30	Anhydrite
3185	3225	40	Red sand
3225	3300	75	Anhydrite
3300	4483	1183	Lime - Salt water 4450 to 4483

TBR
Moi

RECC 'ENDATION FOR NEW WELL L ATION

DATE June 14, 1938

LEASE NO. COUNTY & STATE Lease #1 Eddy County, New Mexico

FARM NAME & WELL NO. West #3

TO BE LOCATED 330' from north and east lines of Section

SECTION 3 TOWNSHIP 17 north RANGE 31 east

OWNERSHIP OF W. I. Full

OPERATED BY (IF PARTNERSHIP OR UNIT) _____

OPERATING AGREEMENT _____ PARTNERS CONSENT _____

OFFSET (OWNER, WELL NO. & FARM NAME) _____

LATEST PRODUCTION DATA _____

PRESENT ALLOWABLE (BBLs) _____ PRODUCING HORIZON _____

REASON FOR DRILLING LOCATION RECOMMENDED Exploration of Permit

WELL MUST START OR COMPLETE _____

ESTIMATED COST \$35,000.00 BUDGET _____

CONTRIBUTIONS _____ TITLE CHECK _____

GEOLOGICAL REPORT

CONTRACT DEPTH 4500', or oil, gas or water in
pays shown below.

FORMATIONS TO BE TESTED AND APPROXIMATE DEPTHS	SUGGESTIONS FOR RUNNING PIPE	SUGGESTIONS FOR CORING
<u>Sandy line 3700 to 3800'</u>	<u>10 3/4" 600' set</u>	<u>Samples</u>
<u>Sandy line 3850-3950'</u>	<u>8 5/8" 1000 cemented 50 max.</u>	
<u>Line 4200-4400'.</u>	<u>7" 3700 " 100 max.</u>	

RECOVERY PER ACRE TO BE REASONABLY EXPECTED Wildcat

OTHER SUGGESTIONS Cable tools.

B

[Handwritten signatures]

REPORT OF SPECIAL TESTS ON- H. E. WEST, well # 3

DEVIATION SURVEY

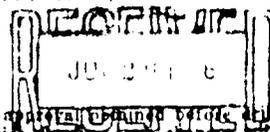
500 Feet	1/2 Degree from Vertical			
1000 "	1/2	"	"	"
1500 "	1/2	"	"	"
1985 "	1/2	"	"	"
2500 "	1/2	"	"	"
3000 "	1/2	"	"	"
3500 "	1/2	"	"	"
4000 "	1/2	"	"	"

ORIGINAL

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL



Notice must be given to the Oil Conservation Commission or its proper agent and appropriate before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following instructions in Rules and Regulations of the Commission.

Tulsa, Oklahoma

June 27, 1946

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as

Repollo Oil Company H. E. West "A" Well No. 1 in NE NW

Company or Operator Lease

of Sec. 3, T. 17-S, R. 31-E, N. M., P. M., Square Lake Field, Eddy County.

The well is 660 feet (S) (8) of the North line and 660 feet (E) 1300 of the West line of NW Section 3

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. --- Assignment No. ---

If patented land the owner is ---

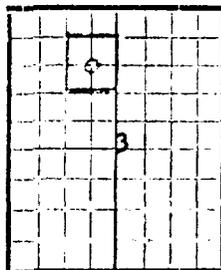
Address ---

If government land the permittee is J. E. Keel

Address Nowell, New Mexico

The lessee is Repollo Oil Company

Address P.O. Box 521, Tulsa 2, Oklahoma



AREA 660 ACRES

LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows:

Cable Tools

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows:

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Land or Cemented	Acres Cemented
12-1/2	10-3/4	40	S.H.	800	Cemented	50
10	8-5/8	28	"	2900	Set	—
8	7	20	New	3375	Cemented	100

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3700 feet.

Additional information:

Approved JUN 25 1946, 19...
except as follows:

Sincerely yours,

REPOLLO OIL COMPANY

Company or Operator

By Dana H. Kelsey Dana H. Kelsey

Position Vice-President

Send communications regarding well to

OIL CONSERVATION COMMISSION,

By _____

Name Dana H. Kelsey

Title _____

Address P.O. Box 521, Tulsa 2, Oklahoma

ATTACHMENT VI
Well Information and Downhole Schematics
Plugged and Abandoned Wells within Area of Review
Devon Energy Corporation
Grayburg/Jackson Waterflood Project

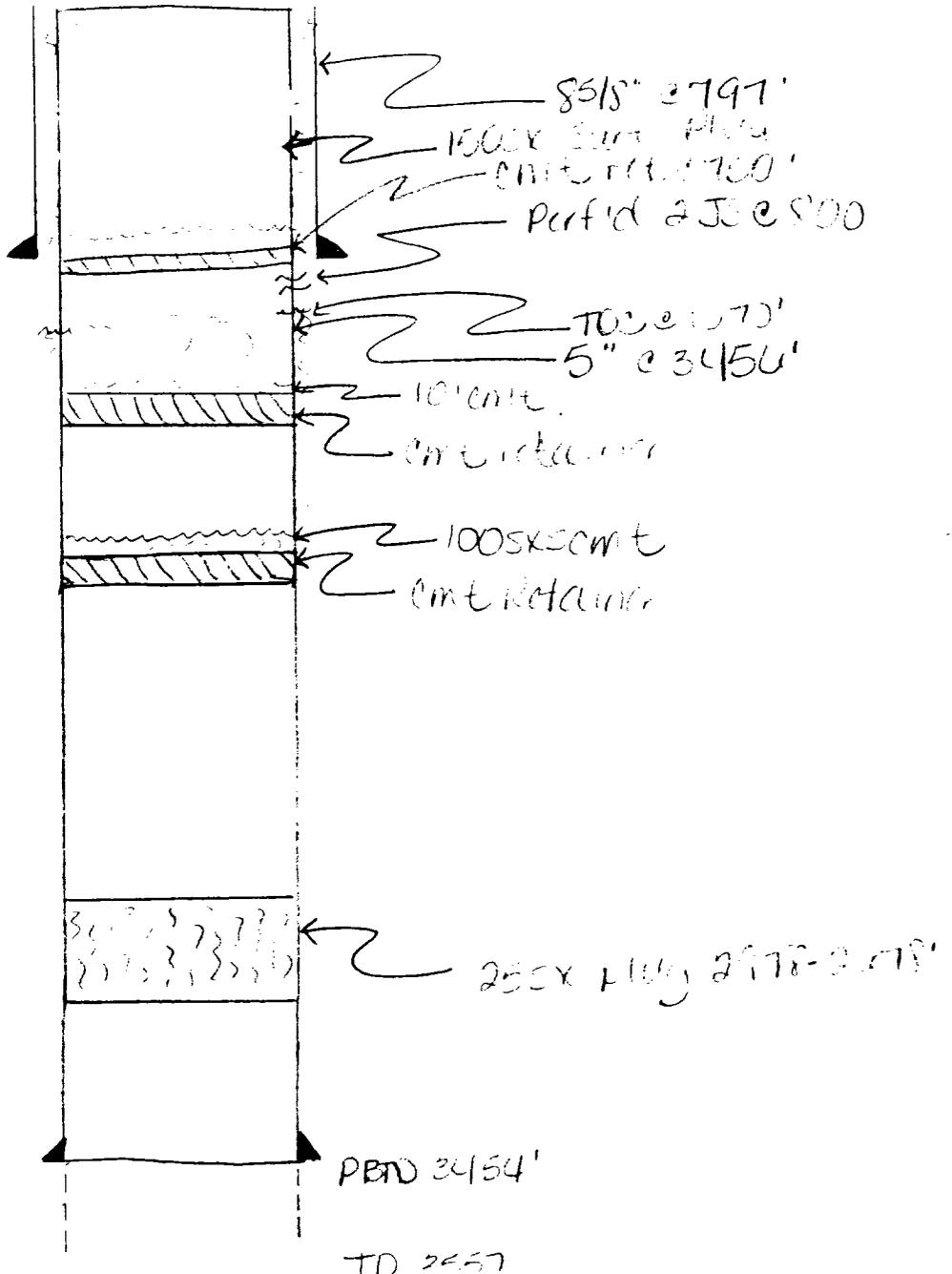
Well Name: West "B" #23
Location: Section 3-17S-31E
Operator (at time of plugging): ARCO Oil & Gas Company
Date Plugged: 4/27/82
Information Obtained From: Sundry Notice

Comments: Spot 25 sxs plug 2978-2678'. Set pkr @ 1627'. Set cmt ret @ 1627'. Squeeze thru ret w/200 sxs cl "C" cmt. Spot 100' cmt on top of ret. Set pkr in 5" csg @ 1150'. Established circ between 8-5/8" x 5" csg. Set cmt ret @ 1155'. Pmpd 1000 sxs cl "C" cmt. Spot 10' cmt on top of retr. Temp surv indicated TOC @ 1070' FS. Perf'd 2 JS @ 800'. Set cmt retr @ 750'. Pmpd 260 sxs cl "C". Circ 25 sxs to surf. Clsd bradenhead & squeezed 100 sxs cmt into formation w/1000#. Dmpd 150' cmt on top of retr. Spot 150 sxs cmt surf plug. C/O WH bel GL. P&A.

Casing Detail:

Size	Weight	Setting depth	Cmt	Amount Pulled
8-5/8"	24#	797'	100 sxs	
5"	11.5#	3456'	100 sxs	

Downhole Schematic:

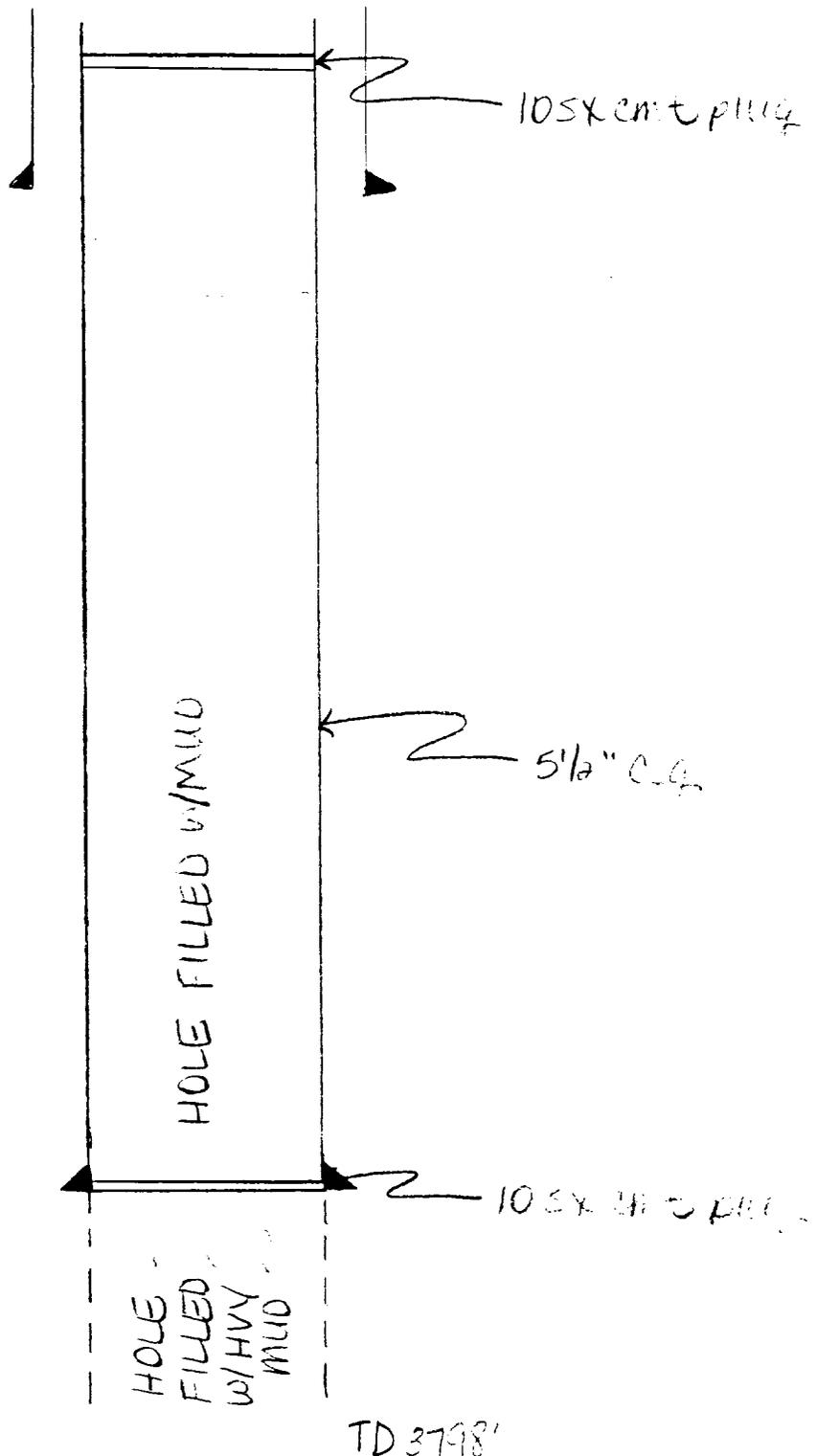


ATTACHMENT VI
Well Information and Downhole Schematics
Plugged and Abandoned Wells within Area of Review
Devon Energy Corporation
Grayburg/Jackson Waterflood Project

Well Name: Johnson "B" #14
Location: Section 33-16S-31E
Operator (at time of plugging): Suppes
Date Plugged: 1948
Information Obtained From: BLM Sundry Notice

Comments: Plugged by filling hole with heavy mud 3798' back to 5-1/2" setting depth of 3280'. Set 10 sx cmt plug @ 3280'. Filled hole w/mud f/ 5-1/2" to 510'. Set 10 sx cmt plug @ 110'. Filled hole w/mud to surface. (TD 3798')

Downhole Schematic:



Attachment VII

Devon Energy Operating Corporation
"Typical Well Information"
Grayburg/Jackson Waterflood Project
Eddy County, NM

Proposed Operation:

1. Plans are to inject 600 barrels maximum, 500 barrels average of produced water per day.
2. The Injection system will be a closed system.
3. The proposed injection pressure is 2000 psig. Maximum pressure will be 2500 psig.
4. The injection fluid will be reinjected produced water; Plus makup water from the Keel West Fresh Water System.
5. N/A.

Attachment VIII

Devon Energy Operating Corporation
"Typical Well Information"
Grayburg/Jackson Waterflood Project
Eddy County, NM

Geology and Lithology

Injection zones are sand lenses within the Grayburg/San Andres formation at an average depth of 3196-4070 feet.

Specifically they are:

Grayburg Formation consist primarily of Dolomite sand w/Dolomite Cementation.
The San Andres formation consists primarily of Dolomite with Intermingled Stringers of Quartz sand with Dolomite Cementation.

Fresh Water Zones

There are no known sources of fresh water overlying or underlying the Proposed Injection Interval.

Attachment XII

Devon Energy Operating Corporation
"Typical Well Information"
Grayburg/Jackson Waterflood Project
Eddy County, NM

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studied of formations in Grayburg Jackson Unit.

Attachment XIII

Devon Energy Operating Corporation
"Typical Well Information"
Grayburg/Jackson Waterflood Project
Eddy County, NM

Proof of Notice

Devon Energy Operating Corporation operates the Grayburg Jackson Unit in Sections 3,4,9 and 10. Operators operating in area of review:

Xeric Oil and Gas
P.O. Box 51311
Midland, TX 79710

Mack Energy Corporation
P.O. Box 1359
Artesia, NM 88221-1359

Apache Corporation
One Post Oak Central
2000 Post Oak Blvd
Suite 100
Houston, TX 77056-4400

Weiser Oil Company
Attn: Betty Epie
8115 Preston Road
Suite 400
Dallas, TX 75225

Kersey and Company
808 West Grand
Artesia, NM 88210-1937

Ray Westall
P.O. Box 4
Loco Hills, NM 88255

Each of these operators were provided a letter and a copy of our application by certified mail. Proof of notice is enclosed. The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Attachment XIII (cont)

Proof of Publication

Proof of Publication from the Carlsbad Current-Argus is enclosed.

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Amy McKay,
being first duly sworn, on oath says:

That she is Business Manager
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:

July 26, 1995
_____, 19____
_____, 19____
_____, 19____
_____, 19____
_____, 19____

That the cost of publication is \$ 25.70,
and that payment thereof has been made and will be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this
27th day of July, 1995

Donna Crump

My commission expires 08/01/98
Notary Public

July 26, 1995

LEGAL ADVERTISEMENT

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation Division to convert twenty (20) wells to injection wells for secondary recovery purposes in:

Sections 3, 4, 9, & 10 of Township 17S, Range 31E, Eddy County, NM

The intended purpose of these wells is to inject produced waters into the Grayburg/San Andres Formations to enhance oil production through secondary recovery. Maximum injection rates of 600 bwpd and a maximum pressure of 2500 psig are expected.

Interested parties must file objections or requests for hearing within 15 days to the following commission.

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

Randy Jackson
District Engineer
Devon Energy Corporation
(Nevada)
20 North Broadway,
Suite 1500
Oklahoma City, OK 73102
(405) 552-4560



20 North Broadway, Suite
Oklahoma City, Oklahoma

Z 781 292 878



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

September 6, 1995

Ray Westall
P.O. Box 4
Loco Hills, NM 88255

RE: Devon Energy Corporation
Grayburg Jackson Waterflood Project
Sections 3,4,9,10-T17S-R31E
Eddy County, NM

Gentlemen

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Diana M. Keys
Engineering Technician

/dmk
enclosures

xc: Well Files

Ray Westall
P.O. Box 4
Loco Hills, NM 88255

Grayburg Jackson Waterflood Project

5. Signature (Addressee)

6. Signature (Agent)

your RETURN address completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date

Offset well
I also wish to receive the following services (for an extra fee):

1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

4a. Article Number
2 781 292 878

- 4b. Service Type
- | | |
|---|--|
| <input type="checkbox"/> Registered | <input type="checkbox"/> Insured |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD |
| <input type="checkbox"/> Express Mail | <input checked="" type="checkbox"/> Return Receipt for Merchandise |

7. Date of Delivery
1-30-95

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3800, March 1993

Ray Westall P.O. Box 4 Loco Hills, NM 88255	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>Offsets & Wflood.</i>	



20 North Broadway, Suite 14
Oklahoma City, Oklahoma 7



Z 781 292 87
Receipt for Certified Mail
No Insurance Coverage Pro
Do not use for International
(See Reverse)

September 6, 1995

Kersey and Company
808 West Grand
Artesia, NM 88210-1937

RE: Devon Energy Corporation
Grayburg Jackson Waterflood Project
Sections 3,4,9,10-T17S-R31E
Eddy County, NM

Kersey and Company 808 West Grand Artesia, NM 88210-1937	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>Offsets G13 w'flood.</i>	

PS Form 3800, March 1993

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Diana M. Keys
Engineering Technician

/dmk
enclosures

xc: Well Files

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

OFFST STU
I also wish to receive following services (for an fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

4a. Article Number
2 781 292 87C

4b. Service Type

<input type="checkbox"/> Registered	<input type="checkbox"/> Insured
<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> COD
<input type="checkbox"/> Express Mail	<input checked="" type="checkbox"/> Return Receipt Merchandise

7. Date of Delivery
12-4-95

8. Addressee's Address (Only if required and fee is paid)

5. Signature (Addressee)
R. Kersey

6. Signature (Agent)
M. KERSEY

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**



20 North Broadway, Suite
Oklahoma City, Oklahoma

Z 781 292 880



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

September 6, 1995

Weiser Oil Company
Attn: Betty Epie
8115 Preston Road
Suite 400
Dallas, TX 75225

RE: Devon Energy Corporation
Grayburg Jackson Waterflood Project
Sections 3,4,9,10-T17S-R31E
Eddy County, NM

Weiser Oil Company Attn: Betty Epie 8115 Preston Road Suite 400 Dallas, TX 75225	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	
Offsets - G 13 WTR FLOOD.	

PS Form 3800, March 1993

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Diana M. Keys
Engineering Technician

/dmk
enclosures

xc: Well Files

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

4a. Article Number
2 781 292 880

4b. Service Type

<input type="checkbox"/> Registered	<input type="checkbox"/> Insured
<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> COD
<input type="checkbox"/> Express Mail	<input checked="" type="checkbox"/> Return Receipt for Merchandise

7. Date of Delivery
NOV 30 1995

8. Addressee's Address (Only if request and fee is paid)

5. Signature (Addressee)
[Signature]

6. Signature (Agent)
[Signature]

3. Your RETURN ADDRESS, completed on the reverse side?

Weiser Oil Company
Attn: Betty Epie
8115 Preston Road
Suite 400
Dallas, TX 75225

Grayburg Jackson Waterflood Project

PS Form 3811, December 1991 *U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT



20 North Broadway, Suite
Oklahoma City, Oklahoma

Z 781 292 881

**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Back)



Apache Corporation One Post Oak Central 2000 Post Oak Blvd Suite 100 Houston, TX 77056-4400	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

September 6, 1995

Apache Corporation
One Post Oak Central
2000 Post Oak Blvd
Suite 100
Houston, TX 77056-4400

RE: Devon Energy Corporation
Grayburg Jackson Waterflood Project
Sections 3,4,9,10-T17S-R31E
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Diana M. Keys
Engineering Technician

/dmk
enclosures

cc: Well Files

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.

Write Return Receipt on the reverse side?

article number, weight and the date

4a. Article Number
2 781 292 881

4b. Service Type

Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
11/3/95

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
Jeffrey Jackson

6. Signature (Agent)

Apache Corporation
One Post Oak Central
2000 Post Oak Blvd
Suite 100
Houston, TX 77056-4400

Grayburg Jackson Waterflood Project

YOUR RETURN ADDRESS COMPLETED ON THE REVERSE SIDE?

OFFST 316

I also wish to receive the following services (for an extra fee):

1. Addressee's Address

2. Restricted Delivery Consult postmaster for fee.



20 North Broadway, Suite 150
Oklahoma City, Oklahoma 73102



Z 781 292 882
Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

September 6, 1995

Mack Energy Corporation
P.O. Box 1359
Artesia, NM 88221-1359

RE: Devon Energy Corporation
Grayburg Jackson Waterflood Project
Sections 3,4,9,10-T17S-R31E
Eddy County, NM

Mack Energy Corporation P.O. Box 1359 Artesia, NM 88221-1359	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys

Diana M. Keys
Engineering Technician

/dmk
enclosures

xc: Well Files

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Mack Energy Corporation
P.O. Box 1359
Artesia, NM 88221-1359
PO Box 960
Grayburg Jackson Waterflood Project

4a. Article Number
2 781 292 882

4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
12-1-95

5. Signature (Addressee)
Shannon Dils

6. Signature (Agent)
Shannon Dils

8. Addressee's Address (Only if requested and fee is paid)

OPST 216
I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

devon ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone: 405/235-3611
FAX 405/552-4667

September 6, 1995

Xeric Oil and Gas
P.O. Box 51311
Midland, TX 79710

RE: Devon Energy Corpora:
Grayburg Jackson Water
Sections 3,4,9,10-T17S-
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert approximately twenty (20) wells to water injection wells in the above referenced Sections. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearing of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct questions regarding this matter to Randy Jackson at (405) 552-4560.

Sincerely,

Devon Energy Corporation

Diana M. Keys
Diana M. Keys
Engineering Technician

/dmk
enclosures

xc: Well Files

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

Offset 11/6
I also wish to receive the following services (for an extra fee):
1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to: Xeric Oil and Gas P.O. Box 51311 Midland, TX 79710		4a. Article Number Z 781 292 883
4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Return Receipt for Merchandise		7. Date of Delivery 11-9-95
5. Signature (Addressee)		8. Addressee's Address (Only if requested and fee is paid)
6. Signature (Agent) <i>Diana M. Keys</i>		

PS Form 3811, December 1991 *U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Z 781 292 883

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Xeric Oil and Gas P.O. Box 51311 Midland, TX 79710	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

Sorted Lists of Area of Review Wells

<u>Group Number</u>	<u>Well Name</u>	<u>Area of Review Well</u>	<u>Well Number</u>
1	West "B" 35	#3 (non op)	nw/nw/nw of 16
1	West "B" 35	KB	15
1	West "B" 35	KB	28
1	West "B" 35	KB	46
1	West "B" 35	KB	57
1	West "B" 35	KB	77
1	West "B" 35	KB	92
1	West "B" 35	KB	94
1	West "B" 35	WB	43
1	West "B" 35	WB	45
1	West "B" 35	WB	30
1	West "B" 35	WB	46
1	West "B" 35	WB	79
1	West "B" 35	WB	10
1	West "B" 35	WB	39
1	West "B" 35	WB	8
2	West "A" 6	WA	2
2	West "A" 6	WA	7
2	West "A" 6	WA	4
2	West "A" 6	WA	9
2	West "A" 6	WA	5
2	West "A" 6	WA	8
2	West "A" 6	WA	24
2	West "A" 6	WA	20
2	West "A" 6	WA	10
2	West "A" 6	WA	19
2	West "A" 6	WA	16
2	West "A" 6	WA	21
2	West "A" 6	WA	22
2	West "A" 6	WA	25
2	West "A" 6	WA	17
2	West "A" 6	WB	5
2	West "A" 6	WB	33
3	West "B" 16	#6 (non op)	"N" of Sec. 34
3	West "B" 16	WA	6
3	West "B" 16	WA	1
3	West "B" 16	WA	13
3	West "B" 16	WA	11
3	West "B" 16	WA	18
3	West "B" 16	WA	12
3	West "B" 16	WB	55
3	West "B" 16	WB	23
3	West "B" 16	WB	37
3	West "B" 16	WB	49
3	West "B" 16	WB	56
3	West "B" 16	WB	44
3	West "B" 16	WB	32
3	West "B" 16	WB	85
4	West "A" 11	WA	16
4	West "A" 11	WA	28
4	West "A" 11	WA	15
4	West "A" 11	WA	3

Sorted Lists of Area of Review Wells

4	West "A" 11	WA	32
4	West "A" 11	WB	18
4	West "A" 11	WB	26
5	West "B" 37	WB	25
5	West "B" 37	#2 (non op)	2
6	West "B" 1	WB	51
6	West "B" 1	WB	57
6	West "B" 1	WB	19
6	West "B" 1	WB	24
6	West "B" 1	WB	50
6	West "B" 1	WB	25
6	West "B" 1	WB	38
6	West "B" 1	WB	58
6	West "B" 1	WB	66
6	West "B" 1	WB	59
6	West "B" 1	WB	67
6	West "B" 1	WB	48
6	West "B" 1	WB	40
6	West "B" 1	#3 (non op)	3
7	West "B" 48	WB	1
7	West "B" 48	WB	41
7	West "B" 48	WB	42
7	West "B" 48	WB	31
7	West "B" 48	WB	66
7	West "B" 48	WB	14
7	West "B" 48	WB	34
7	West "B" 48	WB	20
7	West "B" 48	WB	60
7	West "B" 48	#1 (non op)	1
7	West "B" 48	#1 (non op)	1
8	West "B" 32	WB	2
8	West "B" 32	WB	13
8	West "B" 32	WB	17
8	West "B" 32	WB	21
8	West "B" 32	WB	36
8	West "B" 32	WB	52
8	West "B" 32	WB	72
8	West "B" 32	WB	61
8	West "B" 32	(non op)	1
8	West "B" 32	(non op)	18
9	West "B" 45	WB	35
9	West "B" 45	WB	22
9	West "B" 45	(non op)	1
9	West "B" 45	(non op)	3
9	West "B" 45	(non op)	3
10	West "B" 39	WB	27
10	West "B" 39	WB	29
10	West "B" 39	WB	53
10	West "B" 39	WB	12
10	West "B" 39	WB	62
10	West "B" 39	WB	47
10	West "B" 39	WB	63
11	West "B" 27	KB	14
11	West "B" 27	WA	14

Sorted Lists of Area of Review Wells

11	West "B" 27	WA	33
11	West "B" 27	WB	9
11	West "B" 27	WB	64
11	West "B" 27	WB	54
11	West "B" 27	WB	11
11	West "B" 27	WB	73
11	West "B" 27	WB	7
12	West "B" 7	KB	16
12	West "B" 7	KB	19
12	West "B" 7	KB	9
12	West "B" 7	KB	50
12	West "B" 7	KB	84
13	West "B" 8	KB	10
13	West "B" 8	KB	12
13	West "B" 8	KB	35
13	West "B" 8	KB	39
13	West "B" 8	KB	63
13	West "B" 8	KB	88