

February 8, 1990

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New Mexico Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87504

Subject: Carson Unit Well No. 21-13
660' FNL, 1880' FWL
Sec. 13, T25N, R12W
San Juan County, New Mexico

Dear Sir:

Enclosed for your approval is our Application for
Authorization to Inject for the above referenced well. Upon
receipt, an Affidavit of Publication will be forwarded to
you.

Very truly yours,

Bruce E. Delventhal

Bruce E. Delventhal
Vice President - Operations

BED/das

Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Hixon Development Company

Address: P.O. Box 2810, Farmington, New Mexico 87499

Contact party: Aldrich L. Kuchera Phone: (505) 326-3325

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

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

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

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

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Aldrich L. Kuchera Title: President

Signature:  Date: February 8, 1990

* 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.

Hixon Development Company
Application for Authorization to Inject
Form C-108 Supplemental Information

Carson Unit Well No. 21-13
NE/4, NW/4, Section 13, T 25N, R 12W
San Juan County, New Mexico

- I. Shown on Application.
- II. Shown on Application.
- III. Well data attached.
- IV. Shown on Application.
- V. Area of review is shown on attached map.
- VI. Information for wells located in area of review are attached as follows:
 - Carson Unit Well No. 14-12
 - Carson Unit Well No. 6-13
 - Carson Unit Well No. 11-13
 - Carson Unit Well No. 12-13
 - Carson Unit Well No. 22-13
 - Carson Unit Well No. 23-13
 - Carson Unit Well No. 31-13
 - Carson Unit Well No. 32-13
 - Carson Unit Well No. 41-14
- VII.
 - 1. Proposed average injection rate is 600 bwpd, expected maximum injection rate is 1200 bwpd.
 - 2. This system will be closed.
 - 3. Average injection pressures are expected to be in the 972 - 995 psi range. Maximum injection pressure will be 995 psi.
 - 4. Refer to the attached water analysis report. Since the formation water to be encountered is primarily previously injected water, no problems are expected in mixing the two waters.

5. This well is part of an extensive waterflood project active in the Carson Unit since 1959. All produced water is reinjected into the oil productive Lower Gallup sand to maintain pressure. Injection into the Lower Gallup sand is for waterflooding, not disposal.
- VIII. The injection zone is the Lower Gallup sandstone. This zone is to be 142' in thickness with a top of 4864' as shown on the SP log previously submitted. No known sources of drinking water exist in this area. Water well drilling in this area has shown the Ojo Alamo to be dry.
- IX. The well will be acidized if required to maintain injection rate and pressure.
- X. Logs were previously submitted.
- XI. No known sources of drinking water exist in this area.
- XII. This well is part of the existing approved waterflood operation for the Carson Unit. It is not a disposal well.
- XIII. Proof of notification attached.
- XIV. Certification shown on Application.

WELL DATA SHEET

| | |
|------------------------------|---|
| Well Name: | Carson Unit #21-13 |
| Legal Description: | 660' FNL, 1880' FWL Sec. 13, T25N, R12W San Juan County, N.M. |
| Well Type: | Water Injection Well |
| Spud Date: | 04-15-58 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 103' |
| Cementing Record: | 100 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 4-1/2" |
| Production Casing Depth: | 5007' |
| Cementing Record: | 150 sks. |
| Perforations: | 4860' - 4886' 4890' - 4900' 4940' - 4954' 4958' - 4974' |
| Plug Back Depth: | 5002' |
| Total Depth: | 5010' |

Hixon Development Company
Well Bore Diagram

WELL NAME Carson Unit Well No. 21-13
LOCATION 660' FNL, 1880' FWL SECTION 13 T 25 N R 12 W
COUNTY San Juan STATE New Mexico

SURFACE CASING

Hole Size: 12-1/4"
Casing: 8-5/8", 24#, J-55
Casing Set @ 103' with 100 sks
treated with 2% CaCl.

GLE 6354.4'

KBE 6365.3'

DF 6364.1'

FORMATION TOPS

| | |
|-----------------|-------|
| Pictured Cliffs | 1184' |
| Lewis | 1395' |
| Cliffhouse | 1565' |
| Menefee | 2037' |
| Point Lookout | 3690' |
| Mancos | 3846' |
| Upper Gallup | 4760' |

CEMENT TOP 4000' calc.

PERFORATIONS

| |
|--------------------|
| <u>4860'-86'</u> |
| <u>4890'-4900'</u> |
| <u>4940'-54'</u> |
| <u>4958'-74'</u> |

PBD 5002'

PRODUCTION CASING

Hole Size: 7-7/8"
Casing: 4-1/2", 9.5#
Casing Set @ 5007' with 150
sks treated with 4% gel.

WELL HISTORY

Spud date: 4/15/58

Original owner: Shell Oil Co.

IP 5/15/58 BOPD 869 BWPD 0

MCFD 387 GOR 440

Completion Treatment: _____

Fraced with 53,000 gal crude,
1 #/gal 20-40 mesh sand

CURRENT DATA

Pumping Unit _____

Tubing 2-3/8" set at 4826'

Pump Size _____

Rod string _____

Remarks _____

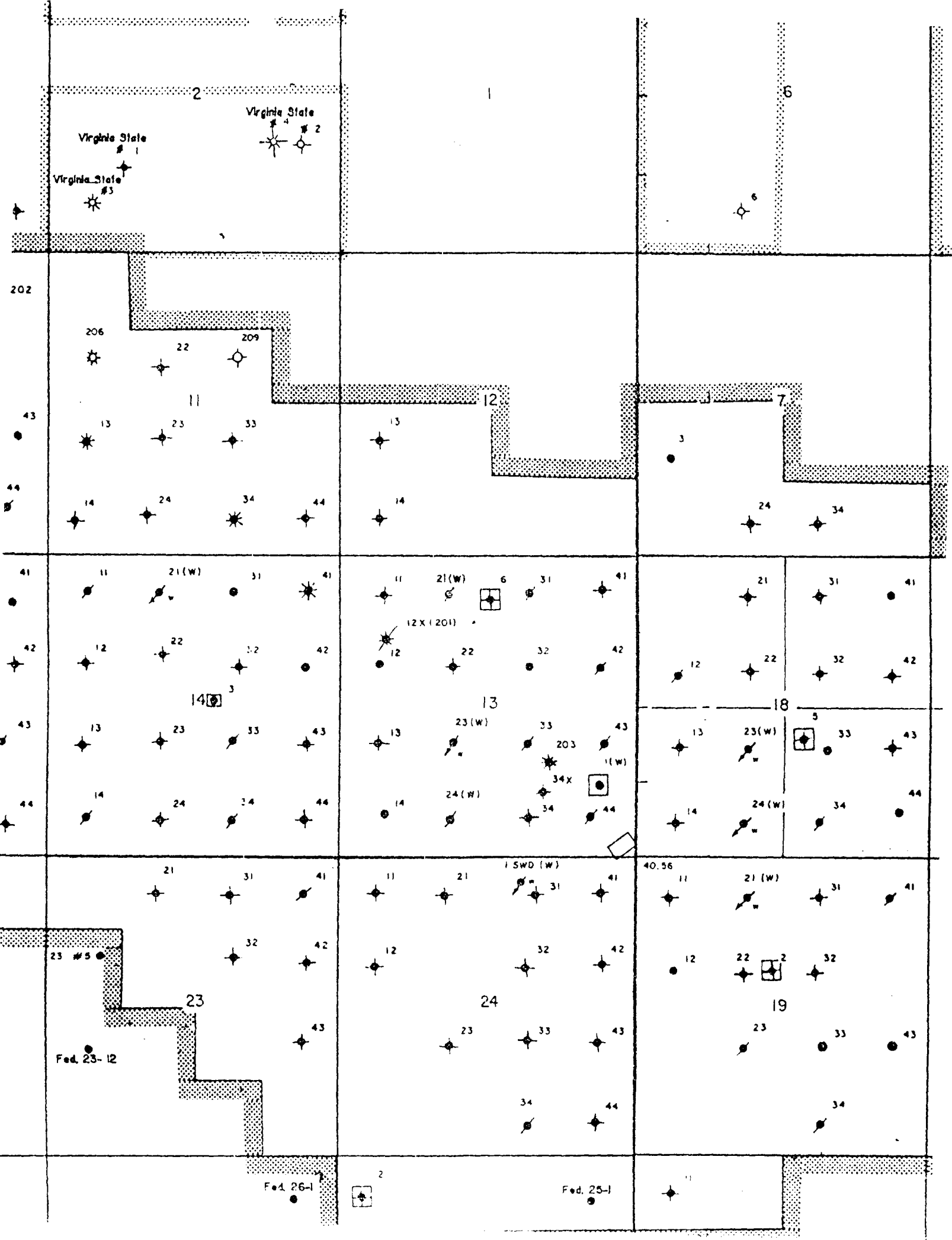
Baker wireline set CIBP at
4888'

Gravel fill with cement cap
4925' KB.

Water Injection Schematic
- Baker Model "AD-1" Packer
set at 4795' KB.

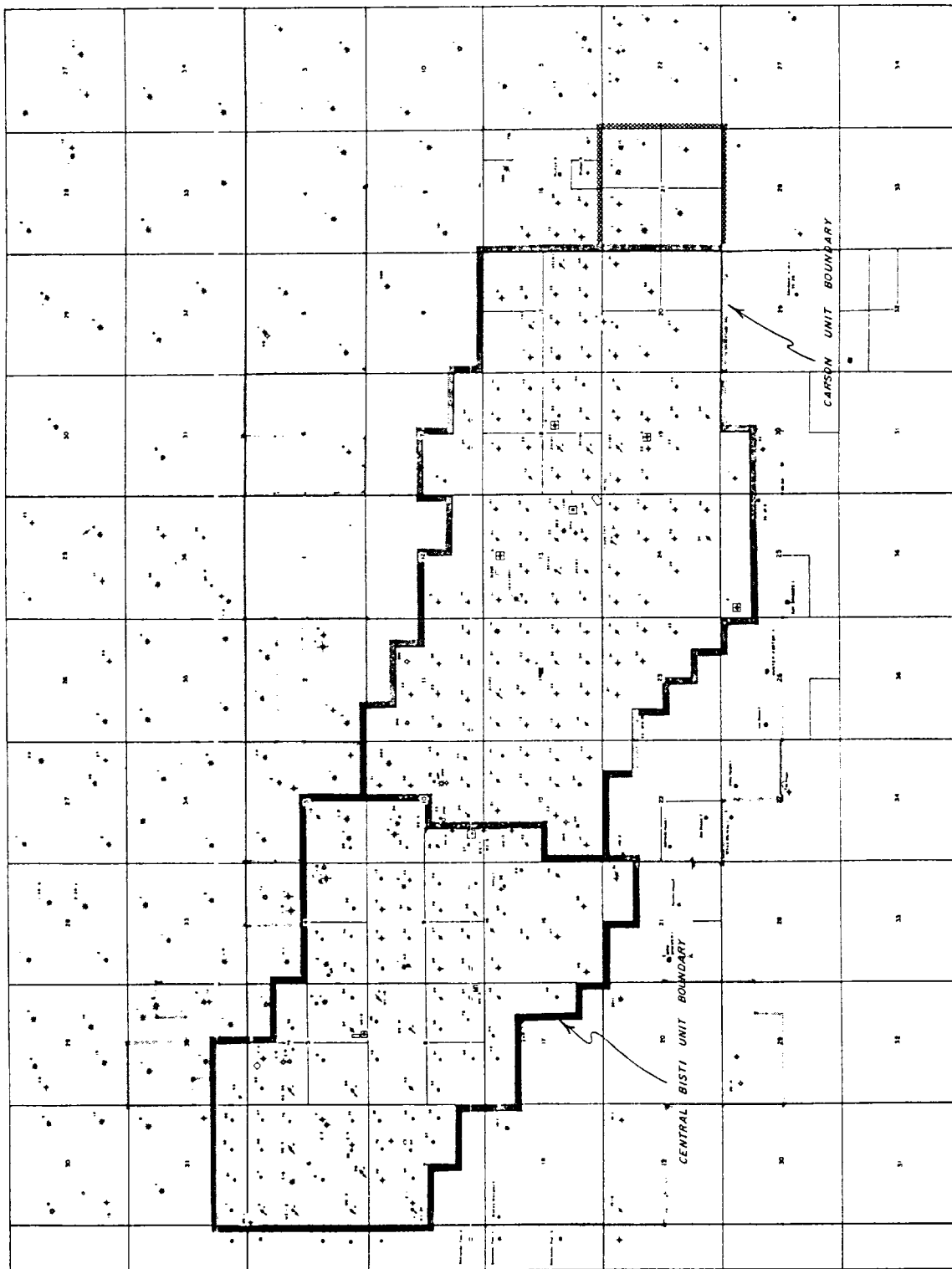
5010' TD

Date Last Revised: 2/2/90



R 11 W

R 12 W



HIXON DEVELOPMENT COMPANY
CENTRAL BISTI - CARSON UNIT AREA

San Juan County, New Mexico



REPRODUCED FROM THE ORIGINAL RECORDS OF THE HIXON DEVELOPMENT COMPANY

San. & testing labo. inc.

90 WEST APACHE • P O BOX 2079 • FARMINGTON, NEW MEXICO

PHONE

327-4966

Date June 10, 1977

Report to Hixon Development Company
Requested by A. Kuchera, Mgr. Sampled by Hixon Personnel
Project CBU #5 Location NW NW Sec. 6, T25N, R12W
Source of Material Lower Gallup Produced Water
Lab No. 24509 Water Analysis for Petroleum Engineering

TEST RESULTS

WATER ANALYSIS FOR PETROLEUM
ENGINEERING

| <u>Constituent</u> | | <u>Constituents</u> | | |
|---|---------------------------|---------------------|--------------|------------|
| Total Solids | 2263 ppn | <u>Cations</u> | <u>Meg/L</u> | <u>ppm</u> |
| Hardness | 7.25 | Sodium | 29.3 | 674 |
| Resistivity | 2.94 ohms/meter @70°F | Calcium | 2.3 | 45 |
| Conductivity | 3,400 micromhos/cm @ 70°F | Magnesium | 0.5 | 6 |
| | | Iron | neg. | 3 |
| | | Barium | 0 | 0 |
| <u>Comments</u> | | <u>Anions</u> | | |
| Essentially this is a 0.2% sodium sulfate solution. | | Chloride | 4.1 | 145 |
| | | Bicarbonate | 4.0 | 244 |
| | | Carbonate | 0 | 0 |
| | | Hydroxide | 0 | 0 |
| | | Sulfate | 24.0 | 1150 |

Copies to Hixon Development Co. (3)
P.O. Box 2810
Farmington, New Mexico 87401

Certified by:



Hixon Development Company, P.O. Box 2810, Farmington, New Mexico 87499, (505) 326-3325, whose agent is Aldrich L. Kuchera hereby notifies interested parties that the following well is to be converted to a water injection well. Injection will be into the Lower Gallup perforated interval from 4860' to 4974'. Maximum rate will be 1200 BWPD at less than 995 psi. Any request for information or objections should be filed with the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504 within 15 days.

Carson Unit Well No. 21-13
NE/4 NW/4
Sec. 13, T25N, R12W

Hixon Development Company
Well Bore Diagram

WELL NAME Carson Unit Well No. 14-12

LOCATION 660' FSI, 660 FWL

SECTION 12 T 25 N R 12 W

COUNTY San Juan

STATE New Mexico

SURFACE CASING

Hole Size: _____

Casing: 8-5/8", 24#

Casing Set @ 99' / 100%

OK

GLE 6355.3'

KBE 6364.3'

DF 6363.1'

FORMATION TOPS

Pictured Cliffs 1190'

Lewis 1412'

Cliff House 1582'

Allison-Menefee 2022'

Point Lookout 3700'

Mancos 3864'

Gallup 4780'

CEMENT TOP _____

PERFORATIONS

4886'-4900'

4904'-18'

4955'-70'

4974'-84'

PBD 4986'

PRODUCTION CASING

Hole Size: _____

Casing: 4-1/2", 9.5#

Casing Set @ 5021' / 50%

5030' TD

WELL HISTORY

Spud date: 5/17/58

Original owner: Shell Oil Co.

IP 6/8/58 BOPD 800 BWPD 0

MCFD 544 GOR 670

Completion Treatment: _____

Fraced with 50,000 gal crude,
1 #/gal 20-40 mesh sand

CURRENT DATA

Pumping Unit _____

Tubing _____

Pump Size _____

Rod string _____

Remarks _____

Plug and abandoned 10/4/77

10 sk cmt plug at surface

25 sk cmt plug set at 170'

35 sk cmt plug set at 390'

50 sk cmt plug set at 1190'

20 sk cmt plug set across
perforations (4886'-4984')

Date Last Revised: 2/2/90

Hixon Development Company
Well Bore Diagram

WELL NAME Carsor Unit Well No. 6-13
LOCATION 724' FN, 2640' FEL SECTION 13 T 25 N R 12 W
COUNTY San Juan STATE New Mexico

SURFACE CASING

Hole Size: _____
Casing: 10-3/4", 40.5#, H-40
Casing Set @ 75' 50 SK

GLE 6366.78'
KBE 6379.88'
DF 6377.88'

FORMATION TOPS

| | |
|-----------------|-------|
| Pictured Cliffs | 1224' |
| Lewis | 1417' |
| Cliff House | 1572 |
| Allison-Menefee | 2050' |
| Point Lookout | 3712' |

WELL HISTORY

Spud date: 5-31-62
Original owner: Shell Oil Co.
IP 6/16/62 BOPD - BWPD 3500
MCFD - GOR -
Completion Treatment: _____

CURRENT DATA

Pumping Unit _____
Tubing _____
Pump Size _____
Rod string _____
Remarks _____
Plugged and abandoned water
source well 9/27/77
10 sk cmt plug at surface
60 sk cmt plug set at 400'
100 sk cmt plug set at 1200'
200 sk cmt plug set across
perforations (2788'-3789')

CEMENT TOP

PERFORATIONS

2788'-3789'

PBD 3789'

PRODUCTION CASING

Hole Size: _____
Casing: 7" csq.-liner comb.
Casing Set @ 3789' 50 SK

3805' TD

Date Last Revised: 2/2/90

Hixon Development Company
Well Bore Diagram

WELL NAME Carson Unit Well No. 11-13
LOCATION 695.4' FNL, 695.4' FWL SECTION 13 T 25 N R 12 W
COUNTY San Juan STATE New Mexico

SURFACE CASING

Hole Size: _____
Casing: 8-5/8"
Casing Set @ 109' 50 SX
CWC

GLE 6367.1'

KBE 6376.6'

DF 6374.8'

FORMATION TOPS

| | |
|-----------------|-------|
| Pictured Cliffs | 1190' |
| Lewis | 1409' |
| Cliff House | 1567' |
| Allison-Menefee | 2048' |
| Point Lookout | 3699' |
| Mancos | 3857' |
| Gallup | 4763' |

WELL HISTORY

Spud date: 11/2/59

Original owner: Shell Oil Co.

IP 11/30/59 BOPD 77 BWPD 0

MCFD 150 GOR 1950

Completion Treatment: _____

Fraced with 50,000 gal crude,
1 #/gal sand, and 175 balls

CURRENT DATA

Pumping Unit _____

Tubing _____

Pump Size _____

Rod string _____

Remarks _____

Plug and abandoned 10/14/64

10 sk cmt plug at surface

20 sk cmt plug set at 500'

20 sk cmt plug set at 4985'

CEMENT TOP

PERFORATIONS

| |
|------------------|
| <u>4869'-96'</u> |
| <u>4901'-08'</u> |
| <u>4948'-62'</u> |
| <u>4966'-76'</u> |

PBD

PRODUCTION CASING

Hole Size: _____
Casing: 4-1/2" 50 SX
Casing Set @ 5030'

5030' TD

Date Last Revised: 2/2/90

WELL DATA SHEET

Well Name: Carson Unit #12-13

Legal Description: 1980' F&L, 840' F&L
Sec. 13, T15N, R12W
San Juan County, N.M.

Well Type: Oil Well

Spud Date: 01-15-58

Surface Casing Hole Size: 12-1/4"
Surface Casing Size: 8-5/8"
Surface Casing Depth: 100'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"
Production Casing Size: 4-1/2"
Production Casing Depth: 5015'

Cementing Record: 150 sks.

Perforations: 4875' - 4900'
4909' - 4931'
4947' - 4952'
4957' - 4972'
4975' - 4995'

Plug Back Depth: ---

Total Depth: 5015'

Hixon Development Company
Well Bore Diagram

WELL NAME Carson Unit Well No. 22-13

LOCATION 1980' FNL, 1980 FWL

SECTION 13 T 25 N R 12 W

COUNTY San Juan

STATE New Mexico

SURFACE CASING

Hole Size: _____

Casing: 8 5/8 121'

Casing Set @ 10018x

Cole

GLE 6375.6'

KBE 6384.8'

DF 6383.3'

FORMATION TOPS

Pictured Cliffs 1196'

Lewis 1394'

Cliff House 1553'

Allison-Menefee 2044'

Point Lookout 3680'

Mancos 3855'

Gallup 4767'

CEMENT TOP

PERFORATIONS

4864'-87'

4893'-4906'

4943'-53'

4962'-70'

PBD

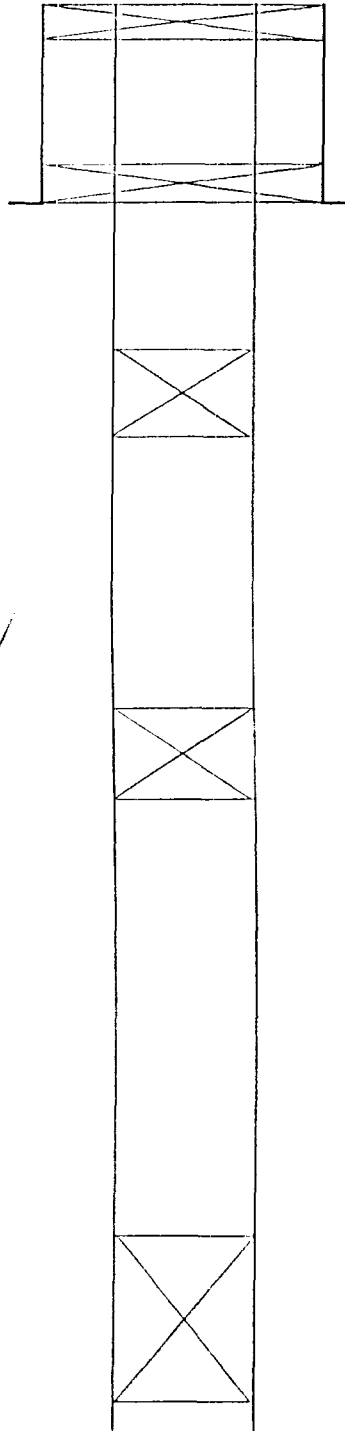
PRODUCTION CASING

Hole Size: _____

Casing: 5 1/2" @

Casing Set @ 5025'

1500 SK



WELL HISTORY

Spud date: 11/24/59

Original owner: Shell Oil Co.

IP 1/4/60 BOPD 30 BWPD 0

MCFD 48 GOR 1600

Completion Treatment: _____

Fraced with 50,000 gal crude

1 lb/gal sand and 140 balls.

CURRENT DATA

Pumping Unit _____

Tubing _____

Pump Size _____

Rod string _____

Remarks _____

Plug and abandoned 3/25/75

10 sk cmt plug at surface

25 sk cmt plug set at 121'

35 sk cmt plug set at 295'

45 sk cmt plug set at 1375'

30 sk cmt plug set at 1824'

20 sk cmt plug set across
perforations (4864'-4970')

Date Last Revised: 1/31/90

TD

WELL DATA SHEET

Well Name: Carson Unit #23-13

Legal Description: 1980' FSL, 1980' FWL
Sec. 13, T25N, R12W
San Juan County, N.M.

Well Type: Water Injection Well

Spud Date: 01-31-58

Surface Casing Hole Size: 12-1/4"
Surface Casing Size: 8-5/8"
Surface Casing Depth: 92'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"
Production Casing Size: 4-1/2"
Production Casing Depth: 5001'

Cementing Record: 150 sks.

Perforations: 4871' - 4900'
4907' - 4916'
4946' - 4951'
4956' - 4970'
4974' - 4984'

Plug Back Depth: 5004'

Total Depth: 5010'

WELL DATA SHEET

Well Name: Carson Unit #31-13

Legal Description: 660' FNL, 1980' FEL
Sec. 13, T25N, R12W
San Juan County, N.M.

Well Type: Oil Well

Spud Date: 01-03-60

Surface Casing Hole Size 12-1/4"
Surface Casing Size: 8-5/8"
Surface Casing Depth: 100'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"
Production Casing Size: 4-1/2"
Production Casing Depth: 5045'

Cementing Record: 150 sks.

Perforations: 4875' - 4884'
4901' - 4914'
4939' - 4948'
4956' - 4968'

Plug Back Depth: 5024'

Total Depth: 5025'

WELL DATA SHEET

Well Name: Carson Unit #32-13

Legal Description: 1980' ENL, 1980' FEL
Sec. 13, T25N, R12W
San Juan County, N.M.

Well Type: Oil Well

Spud Date: 04-30-58

Surface Casing Hole Size 12-1/4"
Surface Casing Size: 8-5/8"
Surface Casing Depth: 110'

Cementing Record: 100 sks. ✓

Production Casing Hole Size: 7-7/8"
Production Casing Size: 4-1/2"
Production Casing Depth: 5006'

Cementing Record: 150 sks.

Perforations: 4877' - 4901'
4905' - 4916'
4956' - 4971'
4974' - 4992'

Plug Back Depth: 5001'

Total Depth: 5010'

WELL DATA SHEET

Well Name: Carson Unit #41-14

Legal Description: 660' FNL, 650' FEL
Sec. 14, T25N, R12W
San Juan County, N.M.

Well Type: Gas Well

Spud Date: 05-23-57

Surface Casing Hole Size: 12-1/4"
Surface Casing Size: 8-5/8"
Surface Casing Depth: 210'

Cementing Record: 130 sks.

Production Casing Hole Size: 7-7/8"
Production Casing Size: 4-1/2"
Production Casing Depth: 5085'

Cementing Record: 150 sks.

Perforations: 1210' - 1230'

Plug Back Depth: 1252'

Total Depth: 5090'

AFFIDAVIT OF PUBLICATION

Copy of Publication

No. 24776

STATE OF NEW MEXICO,
County of San Juan:

Betty Shipp

being duly

sworn, says: That he is the Nat'l. Adv. Manager of

THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the
hereto attached legal notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for one //////// (days) (weeks) on the same day as
follows:

First Publication Sunday, February 11, 1990

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefor in the amount of \$ 9.40

has been made.

Betty Shipp

12th

Subscribed and sworn to before me this _____ day
of February, 19 90.

J. Shorter

NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires June 23, 1990

NOTICE

Hixon Development
Company, P.O. Box 2810,
Farmington, New Mexico
87499, (505) 326-3325
whose agent is Aldrich L.
Kuchera, hereby notifies
interested parties that
the following well is to be
converted to a water in-
jection well. Injection will
be into the Lower Gallup
perforated interval from
4860' to 4974'. Maximum
rate will be 1200 BWPD
at less than 995 psi. Any
request for information
or objections should be
filed with the Oil Con-
servation Division, State
Land Office Building, P.O.
Box 2088, Santa Fe, New
Mexico 87504 within 15
days.

Carson Unit Well

No. 21-13

NE/4 NW/4

Sec. 13, T25N, R12W

Legal No. 24776 pub-
lished in the Farmington
Daily Times, Farmington,
New Mexico on Sunday,
February 11, 1990.



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

1000 RIO HAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6170

GREY CAPRUTHERS
GOVERNOR

Date: 2-26-90

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Re: Proposed LC _____
Proposed DHC _____
Proposed ISL _____
Proposed SWD _____
Proposed VFX _____
Proposed PMX X

Gentlemen:

I have examined the application dated 2-9-90
for the Hiken Development Co. Carson Unit # 21-13
Operator Lease & Well No.

C-13-25N-12W and my recommendations are as follows:
Unit, S-T-R

Approved

Yours truly,

Emmett Bush