



GIANT EXPLORATION &
PRODUCTION COMPANY

2200 Bloomfield Highway
Post Office Box 2810
Farmington, New Mexico
87499-2810

FAX
505 505
326-3325 327-7987

OIL CONSERVATION DIVISION
RECEIVED

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August 27, 1993

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

Subject: Central Bisti Unit No. 29
1980' FSL, 660' FEL
Sec. 8, 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.

If you have any questions please call me at (505) 326-3325.

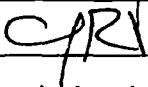
Sincerely,

Diane G. Jaramillo
Administrative Manager

/dgj

Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: Giant Exploration & Production Company
ADDRESS: P.O. Box 2810, Farmington, New Mexico 87499
CONTACT PARTY: Jeffrey R. Vaughan PHONE: (505) 326-3325
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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 R-1636-A
- 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 sources 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: Jeffrey R. Vaughan TITLE: Vice President/Operations
SIGNATURE:  DATE: August 10, 1993
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be 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, PO Box 2088, Santa Fe, NM 87504-2088 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.

Giant Exploration & Production Company
Application for Authorization to Inject
Form C-108 Supplemental Information

Central Bisti Unit Well No. 29
NE/4, SE/4, Sec. 8, T25N, R12W
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 as follows:
 - Central Bisti Unit No. WI-14
 - Central Bisti Unit No. 27
 - Central Bisti Unit No. 28
 - Central Bisti Unit No. 30
 - Central Bisti Unit No. 34
 - Central Bisti Unit No. 42
 - Central Bisti Unit No. WI-62
 - Central Bisti Unit No. 65
 - Central Bisti Unit No. 73
- 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 943 - 956 psi range. Maximum injection pressure will be 956 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.

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- VIII. The injection zone is the Lower Gallup sandstone. This zone is to be 19' in thickness with a top of 4763' 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 is attached.
- XIV. Certification shown on Application.

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Giant Exploration & Production
Company
Well Bore Diagram

WELL NAME Central Bisti Unit Well No. 29
LOCATION 1980' FSL, 660' FEL **SECTION** 8 **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 @ 330' with 225 sks
cement containing 2% CaCl.

FORMATION TOPS

CEMENT TOP 3300' (by TS)

PERFORATIONS

4763'-70'

4782'-82'

PBD 4788' Proposed

PRODUCTION CASING

Hole Size: 7-7/8"
Casing: 4-1/2", 9.5#, J-55
Casing Set @ 4952' with 350 sks
pozmix containing 2% gel.

GLE 6216'

KBE 6223'

DF

WELL HISTORY

Spud date: 8/24/59

Original owner: Sunray Mid-Cont.

IP 10/14/59 BOPD 21 BWPD 14

MCFD 68 GOR 3238

Completion Treatment:

Frac with 20,000 gal crude and
20,000# 20-40 sand.

CURRENT DATA

Pumping Unit

Tubing

Pump Size

Rod string

Remarks

Proposed water injection
schematic.

Packer
@ 4715'

4956' TD

Date Last Revised: 8/18/93

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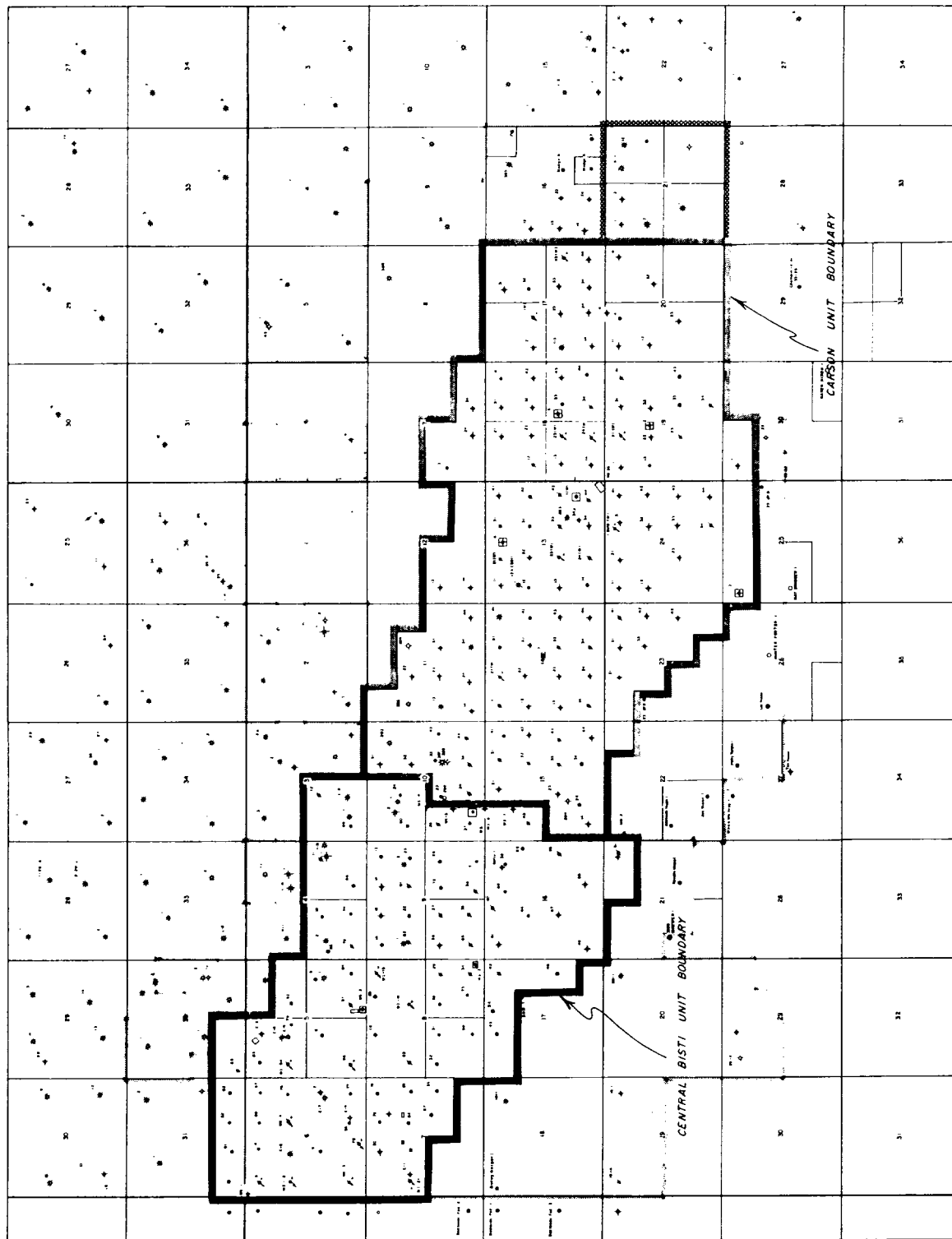
WELL DATA SHEET

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| Well Name: | Central Bisti Unit #29 |
| Legal Description: | 1980' FSL, 660' FEL Sec. 8, T25N, R12W San Juan County, N.M. |
| Well Type: | Oil Well |
| Spud Date: | 08-24-59 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 330' |
| Cementing Record: | 225 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 4-1/2" |
| Production Casing Depth: | 4952' |
| Cementing Record: | 350 sks. |
| Perforation: | 4763' - 4770' 4772' - 4782' 4792' - 4802' 4808' - 4815' 4819' - 4825' 4833' - 4844' 4848' - 4859' |
| Plug Back Depth: | 4920' |
| Total Depth: | 4957' |

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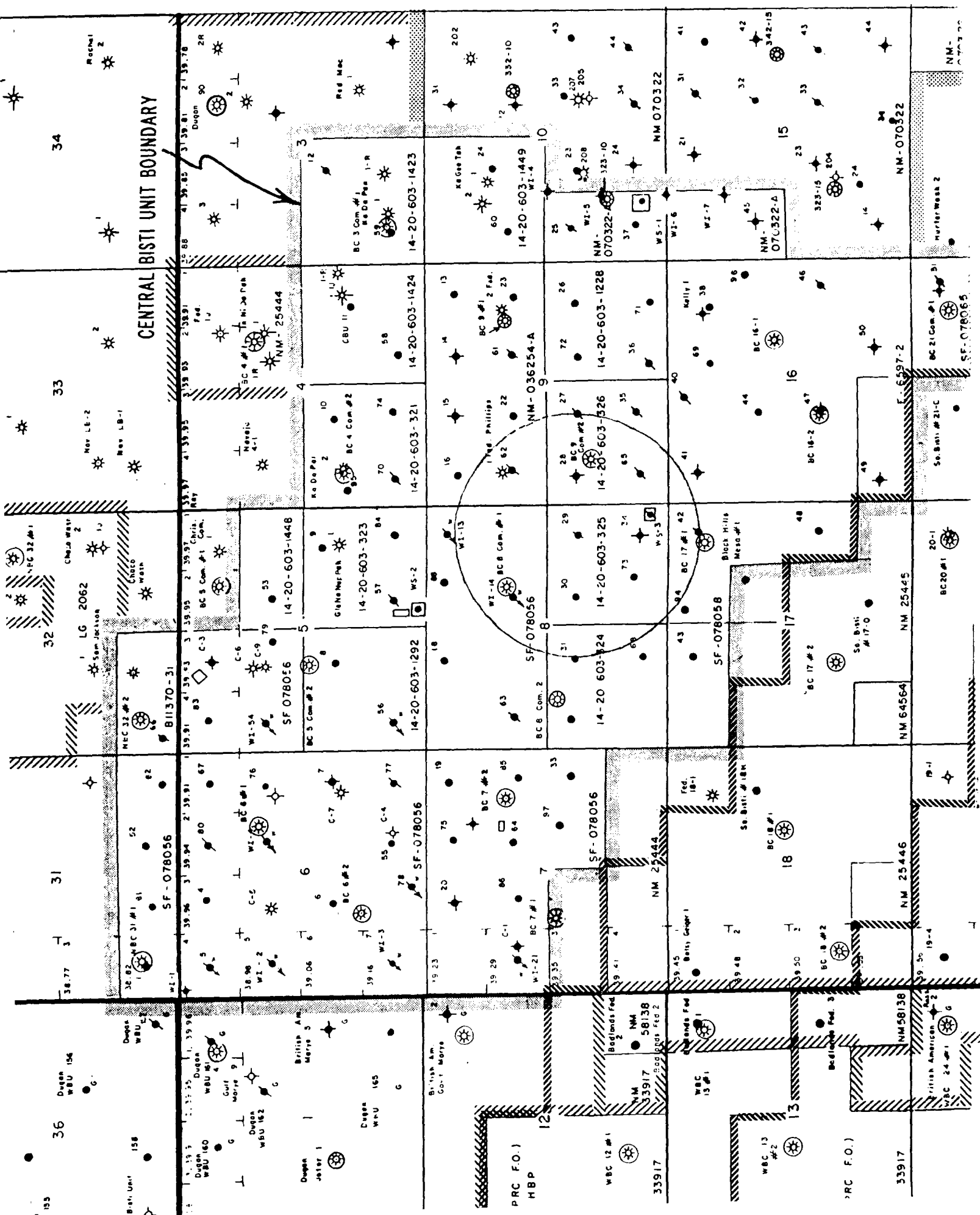
HIXON DEVELOPMENT COMPANY
CENTRAL BISTI - CARSON UNIT AREA

San Juan County, New Mexico

Scale: 1" = 1 mile

Revised: 10/20/01, 10/20/02, 10/20/03, 10/20/04, 10/20/05, 10/20/06, 10/20/07, 10/20/08, 10/20/09, 10/20/10, 10/20/11, 10/20/12, 10/20/13, 10/20/14, 10/20/15, 10/20/16, 10/20/17, 10/20/18, 10/20/19, 10/20/20, 10/20/21, 10/20/22, 10/20/23, 10/20/24, 10/20/25, 10/20/26, 10/20/27, 10/20/28, 10/20/29, 10/20/30, 10/20/31, 10/20/32, 10/20/33, 10/20/34, 10/20/35, 10/20/36

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WELL DATA SHEET

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| Well Name: | Central Bisti Unit WI-14 |
| Legal Description: | 1980' FNL, 1980' FEL Sec. 8, T25N, R12W San Juan County, N.M. |
| Well Type: | Water Injection |
| Spud Date: | 06-15-56 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 198' |
| Cementing Record: | 175 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 5-1/2" |
| Production Casing Depth: | 4938' |
| Cementing Record: | 200 sks. |
| Perforation: | 4772' - 4784' 4809' - 4815' 4845' - 4850' 4857' - 4861' |
| Plug Back Depth: | 4893' |
| Total Depth: | 4940' |

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WELL DATA SHEET

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| Well Name: | Central Bisti Unit #27 |
| Legal Description: | 1980' FSL, 1980' FWL Sec. 9, T25N, R12W San Juan County, N.M. |
| Well Type: | Oil Well |
| Spud Date: | 09-02-59 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 315' |
| Cementing Record: | 225 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 4-1/2" |
| Production Casing Depth: | 4958' |
| Cementing Record: | 300 sks. |
| Perforation: | 4753' - 4772' 4783' - 4793' 4798' - 4806' 4814' - 4821' 4827' - 4835' 4841' - 4848' |
| Plug Back Depth: | 4924' |
| Total Depth: | 4953' |

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WELL DATA SHEET

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|------------------------------|---|
| Well Name: | Central Bisti Unit #30 |
| Legal Description: | 1980' FSL, 1980' FEL Sec. 8, T25N, R12W San Juan County, N.M. |
| Well Type: | Oil Well |
| Spud Date: | 05-19-56 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 298' |
| Cementing Record: | 125 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 5-1/2" |
| Production Casing Depth: | 4940' |
| Cementing Record: | 450 sks. |
| Perforation: | 4772' - 4782' 4806' - 4828' 4840' - 4848' |
| Plug Back Depth: | 4930' |
| Total Depth: | 4940' |

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WELL DATA SHEET

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|------------------------------|--|
| Well Name: | Central Bisti Unit WI-62 |
| Legal Description: | 1980' FNL, 660' FWL Sec. 9, T25N, R12W San Juan County, N.M. |
| Well Type: | Water Injection |
| Spud Date: | 09-06-56 |
| Surface Casing Hole Size: | 11" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 228' |
| Cementing Record: | 100 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 5-1/2" |
| Production Casing Depth: | 4891' |
| Cementing Record: | 200 sks. |
| Perforation: | 4754' - 4776' 4827' - 4833' 4841' - 4850' |
| Plug Back Depth: | 4856' |
| Total Depth: | 4900' |

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WELL DATA SHEET

| | |
|------------------------------|---|
| Well Name: | Central Bisti Unit #65 |
| Legal Description: | 660' FSL, 660' FWL Sec. 9, T25N, R12W San Juan County, N.M. |
| Well Type: | Oil Well |
| Spud Date: | 07-27-59 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 285' |
| Cementing Record: | 175 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 5-1/2" |
| Production Casing Depth: | 4930' |
| Cementing Record: | 225 sks. |
| Perforation: | 4742' - 4758' 4772' - 4806' 4815' - 4826' 4830' - 4842' |
| Plug Back Depth: | 4896' |
| Total Depth: | 4931' |

WELL DATA SHEET

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|------------------------------|---|
| Well Name: | Central Bisti Unit #73 |
| Legal Description: | 790' FSL, 1650' FEL Sec. 8, T25N, R12W San Juan County, N.M. |
| Well Type: | Oil Well |
| Spud Date: | 11-06-80 |
| Surface Casing Hole Size: | 12-1/4" |
| Surface Casing Size: | 8-5/8" |
| Surface Casing Depth: | 242' |
| Cementing Record: | 175 sks. |
| Production Casing Hole Size: | 7-7/8" |
| Production Casing Size: | 4-1/2" |
| Production Casing Depth: | 4985' |
| Cementing Record: | 425 sks. |
| Perforation: | 4772' - 4778' 4794' - 4802' 4816' - 4822' 4834' - 4942' 4850' - 4856' |
| Plug Back Depth: | 4947' |
| Total Depth: | 5000' |

Giant Exploration & Production
Company
Well Bore Diagram

WELL NAME Central Bisti Unit Well No. 28
LOCATION 1980' FSL, 660' FWL SECTION 9 T 25 N R 12 W
COUNTY San Juan STATE New Mexico

SURFACE CASING

Hole Size: 12-1/4"
Casing: 8-5/8", 24#
Casing Set @ 298' with 125 sks
of cement.

GLE _____

KBE 6209'

DF _____

FORMATION TOPS

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|------------------------|--------------|
| <u>Pictured Cliffs</u> | <u>1132'</u> |
| <u>Lewis</u> | <u>1280'</u> |
| <u>La Ventana</u> | <u>1842'</u> |
| <u>Cliffhouse</u> | <u>2963'</u> |
| <u>Menefee</u> | <u>3020'</u> |
| <u>Point Lookout</u> | <u>3564'</u> |
| <u>Mancos</u> | <u>3714'</u> |
| <u>Gallup</u> | <u>4647'</u> |
| <u>Lower Gallup</u> | <u>4738'</u> |
| <u>Lower Mancos</u> | <u>4898'</u> |

CEMENT TOP 3040' (by T.S.)

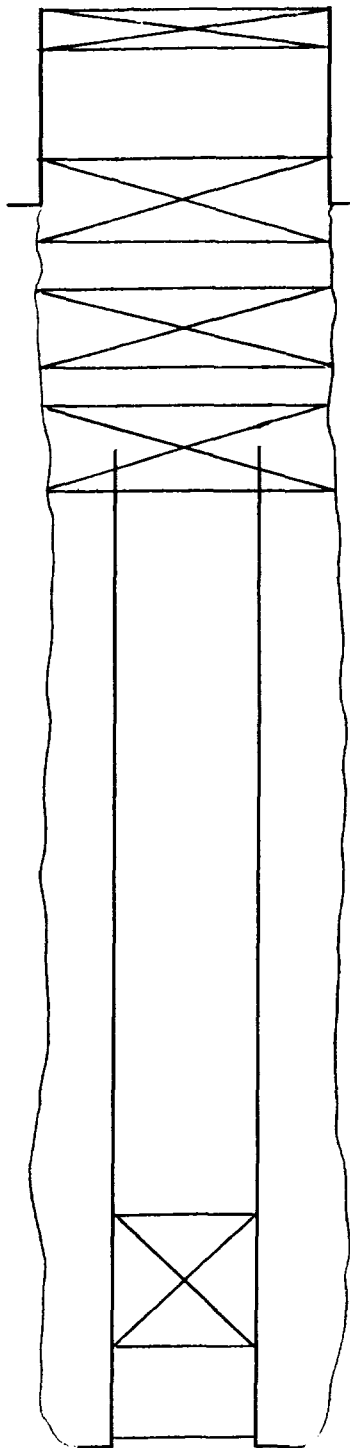
PERFORATIONS

4739'-66'
4786'-96'
4805'-12'
4821'-30'
4835'-48'

PBD 4920'

PRODUCTION CASING

Hole Size: 7-7/8"
Casing: 5-1/2", 15.5#, J-55
Casing Set @ 4935' with 450 sks
of cement.



WELL HISTORY

Spud date: 6/4/56
Original owner: Amerada Petr.
IP BOPD 126 BWPD -
MCFD 817 GOR 644
Completion Treatment:
Frac'd with 100,000 gal crude
and 100,000# sand

CURRENT DATA

Pumping Unit
Tubing
Pump Size
Rod string
Remarks
Formerly Joan White Well #2

P & A'd 3/71 as follows:

Plugged Gallup perms with 20
sks of cement from 4700' to
4800'.
Shot off casing at 1102'. Set
40 sks plug across casing
stub from 1052' to 1152'.
Set 60 sks plug from 1070' to
1220'.
Set 40 sks plug from 275' to
375'.
Set 2 sks plug at surface.
Date Last Revised: 8/19/93

4935' TD

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**Giant Exploration & Production
Company**
Well Bore Diagram

WELL NAME Central Bisti Unit Well No. 34

LOCATION 660' FSL, 660' FEL **SECTION** 8 **T** 25 N **R** 12 W

COUNTY San Juan **STATE** New Mexico

SURFACE CASING

Hole Size: 12-1/4"
Casing: 8-5/8", 24#
Casing Set @ 286' with 100 sks
containing 2% gel.

FORMATION TOPS

Pictured Cliffs 1136'
Point Lookout 3578'
Upper Gallup 4658'
Lower Gallup 4745'

CEMENT TOP 2870' (by T.S.)

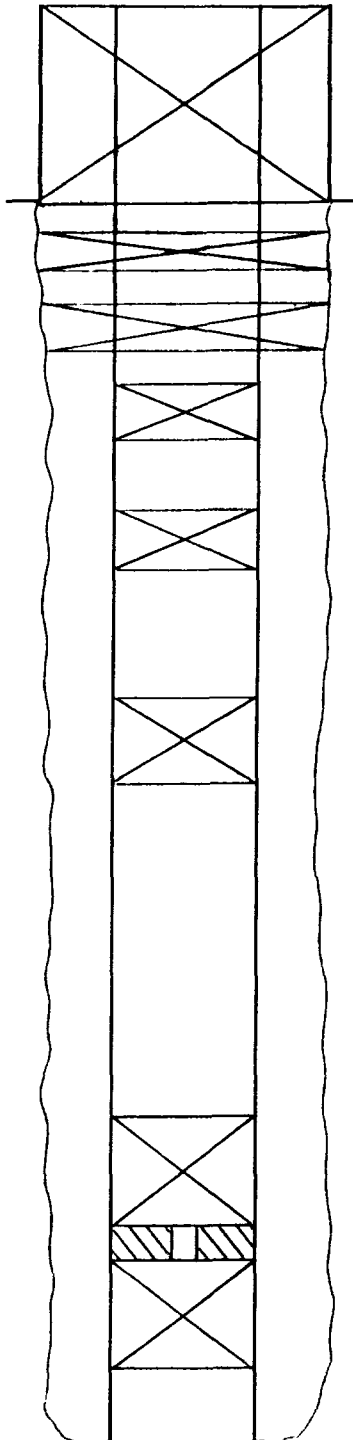
PERFORATIONS

3733'-3737'

PBD

PRODUCTION CASING

Hole Size: 7-7/8"
Casing: 5-1/2", 15.5#
Casing Set @ 4918' with 450 sks
cement containing 2% gel.



GLE 6229'

KBE 6239'

DF 6238'

WELL HISTORY

Spud date: 5/3/56

Original owner: Amerada Petr.

IP 5/24/93 BOPD 219 BWPD -

MCFD 316 GOR 1444

Completion Treatment:

Frac'd with 100,000 gal crude
and 100,000# sand.

CURRENT DATA

Pumping Unit

Tubing

Pump Size

Rod string

Remarks

Formerly Na Des Pah #1

Well P & A'd as follows:

Permanent packer at 4740'.

Squeezed Gallup perfs with

50 sks cement. Spotted

50 sks cement on packer.

Set 25 sk plug 3458'-3721'.

Set 15 sk plug at 2572'.

Set 15 sk plug at 1522'.

Perf'd at 1210'. Placed 30 sx
inside and outside casing.

Perf'd at 877'. Placed 30 sx
inside and outside casing.

Perf'd at 520'. Filled
inside and outside casing.

Date Last Revised: 8/18/93

4918' TD

Giant Exploration & Production Co.

Well Bore Diagram

WELL NAME Central Bisti Unit Well No. 42

LOCATION 660' FNL, 660' FEL SECTION 17 T 25 N R 12 W

COUNTY San Juan STATE New Mexico

SURFACE CASING

Hole Size: 13-3/8"
Casing: 9-5/8", 32.3#
Casing Set @ 240' with 200 sx
of cement.

INTERMEDIATE CASING

Hole Size: 8-3/4"
Casing: 7", 20# & 23#
Casing Set @ 4910' with 175 sx
of cement.
(Cmt. at 3575' by T.S.)

FORMATION TOPS

CEMENT TOP 5048' (Calc.)

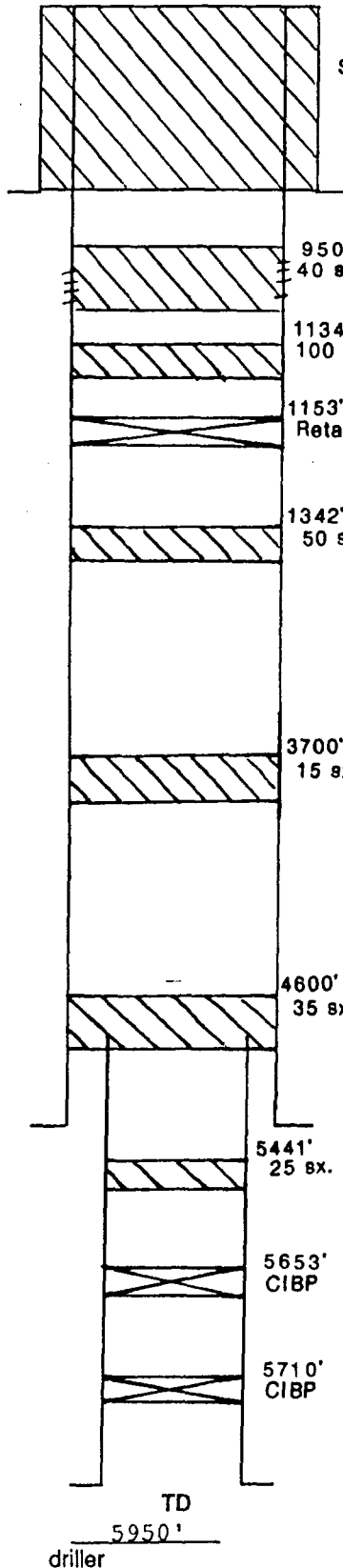
PERFORATIONS

1106'-16'

PBD 1134' (Present)

PRODUCTION CASING

Hole Size: 6-1/8"
Casing: 4-1/2", 10.5#
Casing Set @ 5948' with 110 sx
cement.



GLE 6228'

RBM 6240'

DF 6238'

WELL HISTORY

Spud date: 3/29/56
Original owner: Sunray Mid-Cont.
Retainer IP BOPD 480 BWPD
GOR MCF
Completion treatment:

CURRENT DATA

Pumping Unit
Tubing
Pump Size
Rod string
Remarks

Well plugged back to 1134'

Perforated in the Fruitland formation.

Well is plugged and abandoned.

Date Last Rev. 9/20/90

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AFFIDAVIT OF PUBLICATION

COPY OF PUBLICATION

No. 32247A

STATE OF NEW MEXICO,
County of San Juan:

C.J. SALAZAR being duly
sworn, says: "That she is the
CLASSIFIED MANAGER of
The Farmington Daily Times, a daily
newspaper of general circulation
published in English in 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 quali-
fied for the purpose within the
meaning of Chapter 167 of the 1937
Session Laws of the State of New
Mexico for ONE consecutive
(days) (/////) on the same day as
follows:

First Publication SATURDAY, SEPTEMBER 4, 1993

Second Publication _____

Third Publication _____

Fourth Publication _____

and the cost of publication was \$ 19.99

C.J. Salazar

On Sept 20, 1993 C.J. Salazar
appeared before me, whom I know personally to be
the person who signed the above document.

Dummy Beck

Notary Public, San Juan County,
New Mexico

My Comm expires: April 2, 1996

LEGAL NOTICE

Giant Exploration &
Production Company,
P.O. Box 2810,
Farmington, New Mexico
87499, (505) 326-3325,
whose agent is Jeffery R.
Vaughan 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 4763' to 4782'.
Maximum rate will be
1200 BWPD at less than
956 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.

Central Bisti Unit #29
NE/4, SE/4
Sec. 8, T25N, R12W

Legal No. 32247
published in the
Farmington Daily Times,
Farmington, New Mexico
on Saturday, September
4, 1993.

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