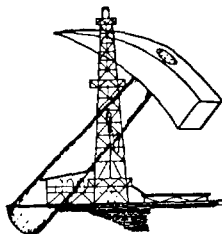


U/C = Z Total + PAA

OIL CONSERVATION DIVISION
RECEIVED

'92 JUL 30 AM 9 19



HARVARD PETROLEUM CORPORATION

TELEPHONE 505 623-1581

P.O. BOX 936

ROSWELL, NEW MEXICO 88202

July 29, 1992

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

ATTN: Mr. David Catanach


RELEASE 8.14.92

RE: West Triste Draw Prospect
James Federal #1
Proposed Salt Water Disposal Conversion
T23S-R32E N.M.P.M.
Section 29: SW SE
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed is an original and one (1) copy of the C-108 Application for Authorization to Inject. A copy has also been mailed to your Hobbs office.

Very truly yours,
HARVARD PETROLEUM CORPORATION


Jim Ball
Land Manager

Enclosure
JB/pxa

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Harvard Petroleum Corporation
Address: P. O. Box 936 Roswell, New Mexico 88201
Contact party: Jeff Harvard or Jim Ball Phone: (505) 623-1581
- 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: Jeff Harvard Title Vice President
Signature: [Signature] Date: 7/24/92
- * 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.

C-108
Application For Authorization To Inject
Harvard Petroleum Corporation
James Federal #1
O 29-23S-32E
Lea County, New Mexico

- I. This well was originally drilled to test the Delaware formation which was determined to be unproductive. The decision was then made to covert the well to a disposal well for Delaware produced water.
- II. Operator: Harvard Petroleum Corporation
P.O. Box 936
Roswell, New Mexico 88202-0936
Jeff Harvard or Jim Ball (505) 623-1581
- III. Well Data: See Attachment A.
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. There are two wells within the one-half mile radius which penetrate the Delaware formation:
 1. James Federal #2, See Attachment C.
 2. State "IG" #1, See Attachment D.
- VII.
 1. Proposed initial average daily injection volume approximately 250 BWPD.
Maximum daily injection volume approximately 5000 BWPD.
 2. This will be a closed system.
 3. Proposed average injection pressure - 500 psi.
Proposed maximum injection pressure - 1000 psi.
 4. Sources of injected water would be produced water from the Delaware formation. See Attachment E.
 5. See Attachment F.
- VIII.
 1. The proposed injection interval is the upper portion of the Delaware formation consisting of limey shales and porous fine grained sands from estimated depths of 4844' to 4944'.

2. A telephone conversation with Mr. Richard Cibak - Pecos River Drainage Supervisor with the New Mexico State Engineer Roswell Office stated that there are no water wells or known aquifers within at least two miles of our proposed injection well.
- IX. There is no stimulation planned.
 - X. A Compensated Neutron and Cement Bond logs on the proposed injection well are enclosed.
 - XI. There are no fresh water wells within two miles.
 - XII. Harvard Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
 - XIII.
 1. Certified letters sent to the surface owner and offset operators. See Attachment G.
 2. Copy of legal advertisement. See Attachment H.
 - XIV. Certification is signed.

ATTACHMENT A

Attachment A

Page 1

III. Well Data

A. 1. Lease Name and Location:

James Federal #1

O 29-23S-32E

Lea County, NM

810' FSL & 1830' FEL

Elevation: GL - 3679.7' KB - 3990.4'

2. Casing Strings

a. Present Well Condition

8 5/8" 24# K-55 @ 654' w/ 400 sks (circ) in 12 1/4" hole

5 1/2" 17# K-55 @ 4844' w/ 100 sks, TOC 4215' by CBL in 7 7/8" hole

TD: 4944'

3. Propose to use 2 3/8" 4.7# J-55 plastic coated tubing set at 4800'.

4. Propose to use an Arrow SL plastic-coated of nickel-coated packer set at 4800'.

B. 1. Injection formation - Delaware (Undesignated)

2. Injection interval - 4844' to 4944' open-hole

3. Well was originally drilled as an exploratory oil well but, after testing, the decision was made to convert to a salt water disposal well.

4. Open hole 4844' to 4944'

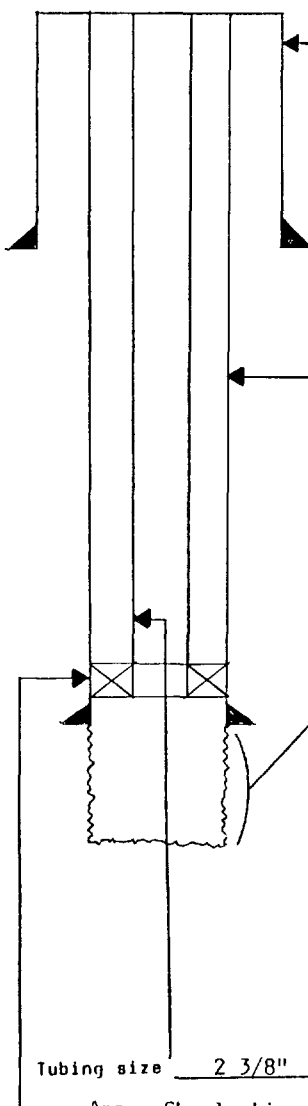
5. Overlying oil or gas zones within 2 miles - NONE. Underlying oil and gas zones within 2 miles - Bone Spring.

ATTACHMENT A PAGE 2
INJECTION WELL DATA SHEET

Harvard Petroleum Corporation		James Federal	
OPERATOR	LEASE		
1	810' FSL & 1830' FEL	Sec 29 T23S R32E	
WELL NO.	PORTAGE LOCATION	SECTION	TOWNSHIP RANGE

Schematic

Tabular Data



Surface Casing

Size 8 5/8 " Cemented with 400 sx.
TOC surface feet determined by circ.
Hole size 12 1/4"

Intermediate Casing

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

Long string

Size 5 1/2 " Cemented with 100 sx.
TOC 4215' feet determined by CBL
Hole size 7 7/8"
Total depth 4944'

Injection interval

4844' feet to 4944' feet
(~~xxxxxxx~~ open-hole, indicate which)

Tubing size 2 3/8" lined with plastic (material) set in a
Arrow SL plastic or nickel coated packer at 4800' feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Delaware
2. Name of Field or Pool (if applicable) undesignated
3. Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? exploratory oil well
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
overlying oil &/or gas zones - NONE
underlying oil &/or gas zones - Bone Spring (9800')

ATTACHMENT B

ATTACHMENT C

Attachment C

Page 1

Well: James Federal #2

Location: 660' FSL & 1830' FWL
N 29-23S-32E
Lea County, New Mexico

Field Pool: West Triste - Delaware

Spud Date: November 17, 1985

Re-entry Date: May 11, 1992

Completion Date: June 8, 1992

Type Completion: Single

Type Well: Pumping Oil Well

TD: 4912'

PBTD: 4848'

Prod. Interval: Delaware: 4753' to 4848' Open Hole

Casing Design: 8 5/8" 24# J-55 to 1208' w/ 500 sks (circ)
7" 26# & 23# N-80 flush joint to 4753' w/ 75
sks, TOC - 4000' by CBL

Elevation: GL - 3650' KB - 3659'

(See attached government reports)

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Expires August 31, 1985
LEASE DESIGNATION AND SERIAL NO.
NM-0559539
IF INDIAN, ALLOTTEE OR TRIBE NAME

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR R E HIBBERT	8. FARM OR LEASE NAME AMOCO "29" FEDERAL
3. ADDRESS OF OPERATOR 1401 HOUSTON CLUB BUILDING, HOUSTON, TEXAS 77002	9. WELL NO. #1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1830' FWL & 660' FSL OF SE/4, SW/4, UNIT LETTER N	10. FIELD AND POOL, OR WILDCAT Wildcat-Delaware
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 29, T23S, R32E	12. COUNTY OR PARISH Lea
13. STATE NM	
14. PERMIT NO.	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 3650.0' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETION	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Spud & TD	<input type="checkbox"/>		

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

11/17/85 - Spud well at 7:00 AM
11/20/85 - Drilled to 1205' w/12-1/4" Bit
Ran 1208' of 8-5/8"-24#-J55 Casing, cement 8-5/8" casing w/ 500 sks Class C 2% CC. Plug down at 3:25 AM, Circulate 20 sks to surface
11/21/85 - Nipple up BOP - pressure test BOP and 8-5/8" casing to 1000 PSI, 30 mins, OK
Drill out with 7-7/8" Bit
11/26/85 - Drill to 4796'. Core from 4796' to 4856' - 60' recovery
11/27/85 - Drill to 4906' TD

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

SIGNED *T L Pilley* T L Pilley

TITLE Clerk

DATE 12/9/85

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

ACCEPTED FOR RECORD

*See Instructions on Reverse Side

POSTED: BRYAN

DEC 11 1985

The Director, Bureau of Land Management, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States Government, or to any person acting for the United States Government, a false statement or report.

CARISBAD, NEW MEXICO

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL ☒ GAS ☐ OTHER ☐
WELL WELL

2. NAME OF OPERATOR
R E HIBBERT

3. ADDRESS OF OPERATOR
1401 Houston Club Building, Houston, Texas 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below)
At surface
1830' FWL & 660' FSL OF
SE/4, SW/4, UNIT LETTER N

14. PERMIT NO.	15. ELEVATION (Show whether DV, RT, CR, etc.)
	3650.0' CR

5. LEASE DESIGNATION AND SERIAL NO.
NM-0559539
6. IS INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIF AGREEMENT NAME
8. FARM OR LEASE NAME
ANOCO "29" FEDERAL
9. WELL NO.
#1
10. FIELD AND POOL, OR WILDCAT
Wildcat-Delaware
11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA
Sec 29, T23S, R32E
12. COUNTY OR PARISH 13. STATE
LEA NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	PULL OR ALTER CASING
FRACTURE TREAT	MULTIPLE COMPLETE
SHOOT OR ACIDIZE	ABANDON*
REPAIR WELL	CHANGE PLANS
(Others)	

SUBSEQUENT REPORT OF:

WATER SHUT OFF		REPAIRING WELL
FRACTURE TREATMENT		ALTERING Casing
SHOOTING OR ACIDIZING		ABANDONMENT*
(OTHER) PLUG & ABANDON		

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATION: (Clearly state all pertinent details, and give pertinent data, 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.) *

11/27/85 - Ran Electric logs, Sonic Gamma Ray, 100' plug 4700-4800' *29* *tagged (29)*
 Plug well - 100' plug at 2813-2913', 100' plug at 1154-1254, ~~plug at 45-95'~~
 plug *25'* at surface *29*
 Plugged & Abandoned on 11/27/85

TD 4906

IN : hereby certify that the foregoing is true and correct

SIGNED TL Pilley TL Pilley TITLE Clerk

DATE 12/09/85

(This space for Federal or State office use)

APPROVED BY _____ *Jed M. ...* TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

DATE 7-23-70

***See Instructions on Reverse Side**

POSTED: BRYAN

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE-
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-0559539

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

AMOCO "29" FEDERAL

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat-Delaware

11. SEC., T., R., M., OR S.E. AND
SURVEY OR AREA

Sec 29, T23S, R32E

12. COUNTY OR PARISH 13. STATE

Lea

NM

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 "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

R E HIBBERT

3. ADDRESS OF OPERATOR

1401 Houston Club Building, Houston, Tx 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1830' FWL & 660' FSL OF
SE/4, SW/4, UNIT LETTER N

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, GR, etc.)

3650.0' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANE

(Other)

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATION* (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 perti-
nent to this work.)*

11/27/85 - We propose to set plugs from

4700 - 4800' *JD*
2813-2913'

1154-1254' - *Tag*
45-95'

and *28'* at surface. TD 4906'.
50' to JD.

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

SIGNED *TL Pifley* TL Pifley

TITLE Clerk

DATE 12/09/85

(This space for Federal or State office use)

Orig: *TL Pifley*

APPROVED BY

TITLE

DATE

1-14-86

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

1. LEASE ORIGINATOR AND SERIAL NO.

NM-0559539

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Amoco '29' Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat - Delaware

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 29, T23S, R32E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PUGH BACK ☐ DIFF. REPAIR ☐ Other

2. NAME OF OPERATOR

R. E. HIBBERT

3. ADDRESS OF OPERATOR

1401 Houston Club Building, Houston, Texas 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1830' FWL & 660' FSL Se/4 SW/4, Unit letter N

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

11/6/85

15. DATE SPUDDED

11/16/85

16. DATE T.D. REACHED

11/24/85

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DP, RKB, RT, OR, ETC.)*

3650' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4906'

21. PLUG BACK T.D., MD & TVD

22. IF MULTIPLE COMPL. HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

All

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

None

25. TYPE ELECTRIC AND OTHER LOGS RUN

Sonic

26. WAS DIRECTIONAL SURVEY MADE

Yes

27. WAS WELL CORRED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1204'	12 1/4"	500 SX cl. c 2%	- 0 -

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION RECORD

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST HOURS TESTED CHOKER SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW, TUBING PRESS. CASINO PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

CARLSBAD, NEW MEXICO

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

DATE

*(See Instructions and Spaces for Additional Data on Reverse Side)

POSTED: BRYAN

ATTACHMENT D

Attachment D
Page 1

Well: State "IG" #1

Location: 660' FNL & 1980' FEL
B 32-23S-32E
Lea County, New Mexico

Field Pool: West Triste - Delaware

Spud Date: January 11, 1981

Re-entry Date: November 19, 1986

Plug back Date: March 9, 1992

Completion Date: April 7, 1992

Type Completion: Single

Type Well: Pumping Oil Well

TD: 15,920'

PBTD: 8639'

Prod. Interval: Delaware: 7992'-7997' 26 holes
8393'-8410' 16 holes
8455'-8470' 46 holes

Casing Design: 16" 65# to 705' w/750 sks (circ)
10 3/4" 51# to 4740' w/ 3160 sks (cric)
7 5/8" 39# & 33.7# to 12,060' w/ 1550 sks,
est. TOC - 3760'
4 1/2" Liner 15.1# to 15,920' w/ 550 sks, est
TOC - 11,604'

Elevation: GL - 3664'

(See attached government reports)

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

API-30-025-27136

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

V-1811

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒

GAS WELL ☐

DRY ☐

OTHER ☐

b. Type of Completion:

NEW
WELL ☐

WORK
OVER ☐

DEEPEN ☐

PLUG
BACK ☒

DIFF
RESVR ☐

OTHER ☐

7. Lease Name or Unit Agreement Name

State "IG" Gas

2. Name of Operator

Harvard Petroleum Corporation

8. Well No.

1

3. Address of Operator

P. O. Box 936 Roswell, NM 88202-0936

9. Pool name or Wildcat

Wildcat-Delaware

4. Well Location

Unit Letter B : 660 Feet From The North Line and 1980 Feet From The East Line

Section 32

Township 23-S

Range 32-E

NMPM

Lea

County

10. Date Spudded

Plugged Back
3/9/92

11. Date T.D. Reached

3/12/92

12. Date Compl. (Ready to Prod.)

4/7/92

13. Elevations (DF & RKB, RT, GR, etc.)

3664 GR

14. Elev. Casinghead

3666

15. Total Depth

15,920

16. Plug Back T.D.

8639'

17. If Multiple Compl. How
Many Zones?

18. Intervals
Drilled By

Rotary Tools
X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

7992-97, 8393-8410, 8455-70 Brushy Canyon Delaware

20. Was Directional Survey Made

No

21. Type Electric and Other Logs Run

None

22. Was Well Cored

No

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65	705'	20"	750 SKS	-0-
10 3/4"	51	4740'	14 3/4"	3160 SKS	-0-
7 5/8"	39 & 33.7	12060	9 1/2"	1975 SKS	-0-

24.

LINER RECORD

25. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4 1/2"	11,604	15,920	550	---	2 7/8"	8044'	---

26. Perforation record (interval, size, and number)

7992-7997 (.375") 26 Holes
8393-8410 (.375") 16 Holes
8455-8470 (.375") 46 Holes

27. ACID, SHOT, FRACTURE CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

7992-97 1000 Gal. 7 1/2% HCL, 7,500 Gal X-Link
& 15,000 #20/40 SNO
8393-8470 1000 Gal 7 1/2% HCL, 17,500 Gal X-Link
& 42,000 #20/40 SNO

28.

PRODUCTION

Date First Production

4/17/92

Production Method (Flowing, gas lift, pumping - Size and type pump)

Pumping 2 1/2" X 1 1/4" X 26" Insert Pump

Well Status (Prod. or Shut-in)

Prod.

Date of Test

4/17/92

Hours Tested

24

Choke Size

Prod'n For

Test Period

Oil - Bbl.

40

Gas - MCF

20

Water - Bbl.

171

Gas - Oil Ratio

Flow Tubing Press.

Casing Pressure

20#

Calculated 24-

Hour Rate

Oil - Bbl.

40

Gas - MCF

20

Water - Bbl.

171

Oil Gravity - API - (Corr.)

40°

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Used for fuel

Test Witnessed By

Tony Karr

30. List Attachments

C-102 Plat, Logs, DSTS & TOPS Previously reported by Amoco

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Printed

Name

Jeff Harvard

Title Vice President

Date 4/21/92

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
V-1811

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ OTHER Re-Entry

2. Name of Operator
Marshall & Winston, Inc.
3. Address of Operator
310 West #10 Desta Drive, Midland, Texas 79705
4. Location of Well

7. Unit Agreement Name
8. Farm or Lease Name
State "IG"
9. Well No.
1
10. Field and Pool, or Wildcat
South Sand Dunes B.S.

UNIT LETTER B LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 32 TWP. 23-S RGE. 32-E NMPM

15. Date ~~Surface~~ Re-11/19/86 entry
16. Date T.D. Reached 11/26/86
17. Date Compl. (Ready to Prod.) 12/10/86
18. Elevations (DF, RKB, RT, GR, etc.) 3664' GR
19. Elev. Casinghead 3666'

20. Total Depth 15,920'
21. Plug Back T.D. 10,000'
22. If Multiple Compl., How Many
23. Intervals Drilled By Rotary Tools Cable Tools
X

24. Producing Interval(s), of this completion - Top, Bottom, Name
9800-9816' + 9824-9836' Bone Springs
25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
CBL
27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65	705'	20"	750 SXS	-0-
10-3/4"	51	4740'	14-3/4"	3160 SXS	-0-
7-5/8"	39 & 33.7	12,060'	9-1/2"	1975 SXS	-0-

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	11,604'	15,920'	550	-	2-7/8"	9553'	-

31. Perforation Record (Interval, size and number)
9800-9816' (.375") 17 holes - Bone Springs
9824-9836' (.375") 13 holes - Bone Springs
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL
9800-36'
AMOUNT AND KIND MATERIAL USED
F/40,000 gal. Mini-Max 3-40
+ 63,000# 20/40 sand

3. PRODUCTION
Date First Production 12-13-86
Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 1-1/2" RHBC
Well Status (Prod. or Shut-in) Producing
Date of Test 1-26-87
Hours Tested 24
Choke Size -
Prod'n. For Test Period
Oil - Bbl. 28
Gas - MCF 21.6
Water - Bbl. 65
Gas-Oil Ratio 771
Flow Tubing Press. -
Casing Pressure 20#
Calculated 24-Hour Rate
Oil - Bbl. 28
Gas - MCF 21.6
Water - Bbl. 65
Oil Gravity - API (Corr.) 44.5 deg

4. Disposition of Gas (Sold, used for fuel, vented, etc.)
used for fuel
Test Witnessed By
Ed Locke

5. List of Attachments
Logs, tops & DST information filed by Amoco when well was drilled originally.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form O-103
Revised 10-1-

DATE OF FILING	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.E.	
LAND OFFICE	
OPERATOR	

3c. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	For <input type="checkbox"/>
3d. State Oil & Gas Lease No.	
L-5166	

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 APPLICATION FOR PERMIT TO DRILL OR TO DEEPEN OR PLUG BACK FOR SUCH PROPOSALS.

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: PXA	7. Unit Agreement Name
2. Name of Operator AMOCO PRODUCTION COMPANY	8. Firm or Lease Name State IG Com
3. Address of Operator P. O. Box 68, Hobbs, NM 88240	9. Well No. 1
4. Location of Well UNIT LETTER <u>B</u> <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>23-S</u> RANGE <u>32-E</u> NEPM.	10. Field and Pool, or Wildcat Wildcat Atoka
11. Elevation (Show whether DF, RT, GR, etc.) 3664' GL	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	

17. Descriptive Proposal or Completed Operations: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Moved in service unit 1-9-84. Loaded tubing with 45 bbl brine water and loaded casing with 120 bbl. Released packer and POH. Ran CIBP and set at 14,370'. Loaded hole and circulated. Spotted 25 sx class H cement from 14,370'-14,045'. Spotted 9 bbls gelled brine water from 14,045'-13,393'. Spotted 25 sx class H cement plug from 13,393'-13,068'. Spotted gelled brine water from 13,068'-11,950'. Spotted a class H cement plug from 11,950'-11,850'. Spotted 127 bbl gelled brine water from 11,850'-8663'. Spotted a 25 sx class H cement plug from 8663'-8557'. Spotted 89 bbls gelled brine water from 8557'-6216'. Spotted 25 sx class H neat from 6216'-6110'. Spotted 42 bbl gelled brine water from 6110'-4871'. Spotted 25 sx class C neat cement from 4871'-4765'. Spotted 138 bbl gelled brine water from 4765'-1280'. Spotted 25 sx class C neat from 1280'-1180'. Spotted 11 bbls gelled brine water from 1180'-805'. Ran 4" casing gun and perfed 804'-805' with 4 JSPF. Ran cement retainer and set at 608'. Pumped 200 sx class C neat cement. Circulated out 30 sx from behind 7-5/8" casing. Spotted 25 bbl gelled brine water. Spotted a 10 sx class C neat surface plug. Installed PXA marker and moved out service unit 1-14-84.

O+5-NMOCD,H 1-R. E. Ogden, HOU Rm. 21.150 1-F. J. Nash, HOU Rm. 4.206 1-CMH

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Charles M. Herring TITLE Administrative Analyst DATE 2-1-84

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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OPERATOR	

Form C-105
Revised 11-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee
5. State Oil & Gas Lease No.	
L-5166	

1a. TYPE OF WELL	
OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>
b. TYPE OF COMPLETION	
NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>
DEEPEN <input type="checkbox"/>	PLUG BACK <input checked="" type="checkbox"/>
DIFF. RESVR. <input checked="" type="checkbox"/>	

7. Unit Agreement Name
8. Farm or Lease Name
State "IG" Com
9. Well No.
1

2. Name of Operator
Amoco Production Company
3. Address of Operator
P. O. Box 68, Hobbs, New Mexico 88240

10. Field and Pool, or Wildcat
Wildcat Atoka

4. Location of Well
UNIT LETTER B LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 32 TWP. 23-S RGE. 32-E

11. County
Lea

15. Date XXXXXX OC	16. Date T.D. Reached	17. Date Compl. XXXXXX	18. Elevations (D.F., RAB, RT, GR, etc.)
8-31-83	4-6-81	10-20-83	3664' GL

19. Elev. Casinghead

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
15920'	14800'		Rotary Tools 0-TD Cable Tools NO

24. Producing Interval(s), of this completion - Top, Bottom, Name
None

25. Was Directional Sur Made
No

26. Type Electric and Other Logs Run

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)
--

29. LINER RECORD

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	705'	20"	750 sx C1 C	Circ. 75 s
10-3/4"	51#	4740'	14-3/4"	2960 sx Dowell, 200 C1 C	200 sx
7-5/8"	39, 33.7#	12060'	9-1/2"	1350 sx Lite, 200 C1 H, 425 C1 C	100 sx

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	11604'	15920'	500 C1 H	

31. Perforation Record (Interval, size and number)
14419'-444' w/4 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
14419'-444'	5000 gal 15% HCL acid

33. PRODUCTION

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
		Shut-in

35. List of Attachments

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
SIGNED <i>Cathy L. Forman</i> TITLE Assist. Admin. Analyst DATE 10-31-83

Expires 11/2/84

ATTACHMENT E



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

7-31-92

OIL CONSERVATION DIVISION
RECEIVED
'92 AUG 5 AM 9 47

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD ☒ _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Harvard Pet. Co. James Federal #1-0 29-23-32
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed