

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: RAY WESTALL
Address: P.O. Box 4, Loco Hills New Mexico 88255
Contact party: RANDALL HARRIS Phone: (505) 677-2370
- 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: RANDALL HARRIS Title: GEOLOGIST
Signature: [Signature] Date: 5/1/96
- * 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.

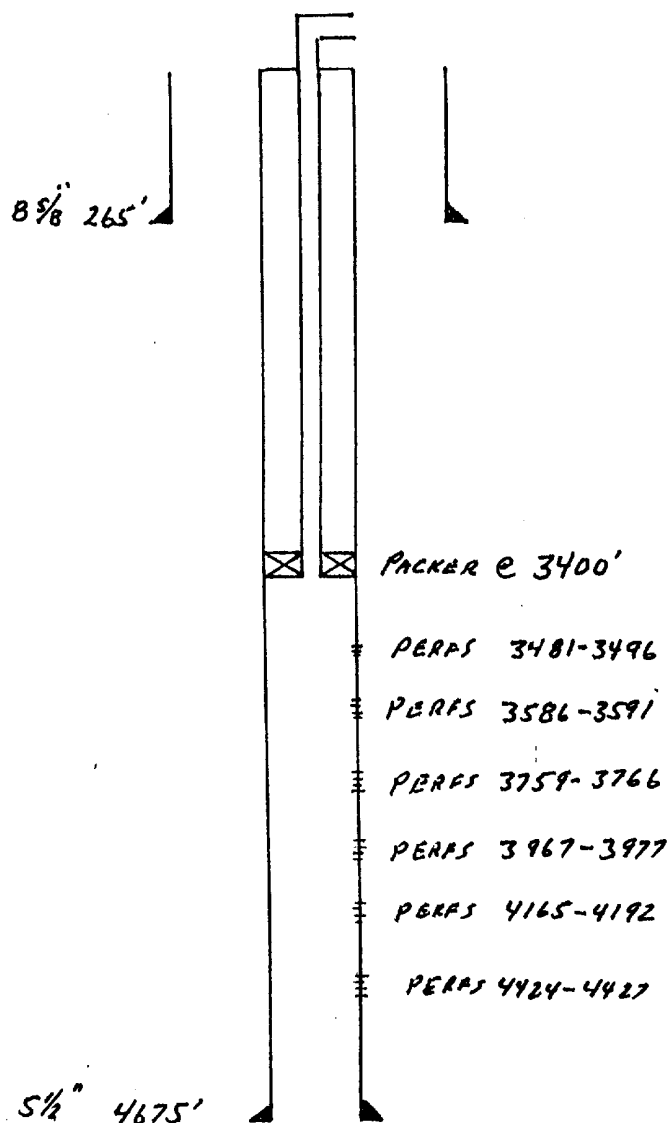
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

RAY WESTALL OPERATOR LUSK DISPOSAL WELL NO. 1

660' FNL & 660' FWL SECTION 7, TOWNSHIP-19-SOUTH, RANGE-33-EAST

Schematic



Tabular data

Surface Casing

Size 8 5/8" Cemented with 200 sxs
TOC Circulated Hole size 13 3/8"
Set at 265'

Intermediate Casing

NONE

Long string

Size 5 1/2" Cemented with 2350 sxs
TOC Circulated Hole size 7 7/8"
Total depth 4675'

Injection Interval 3481-4427 perforated

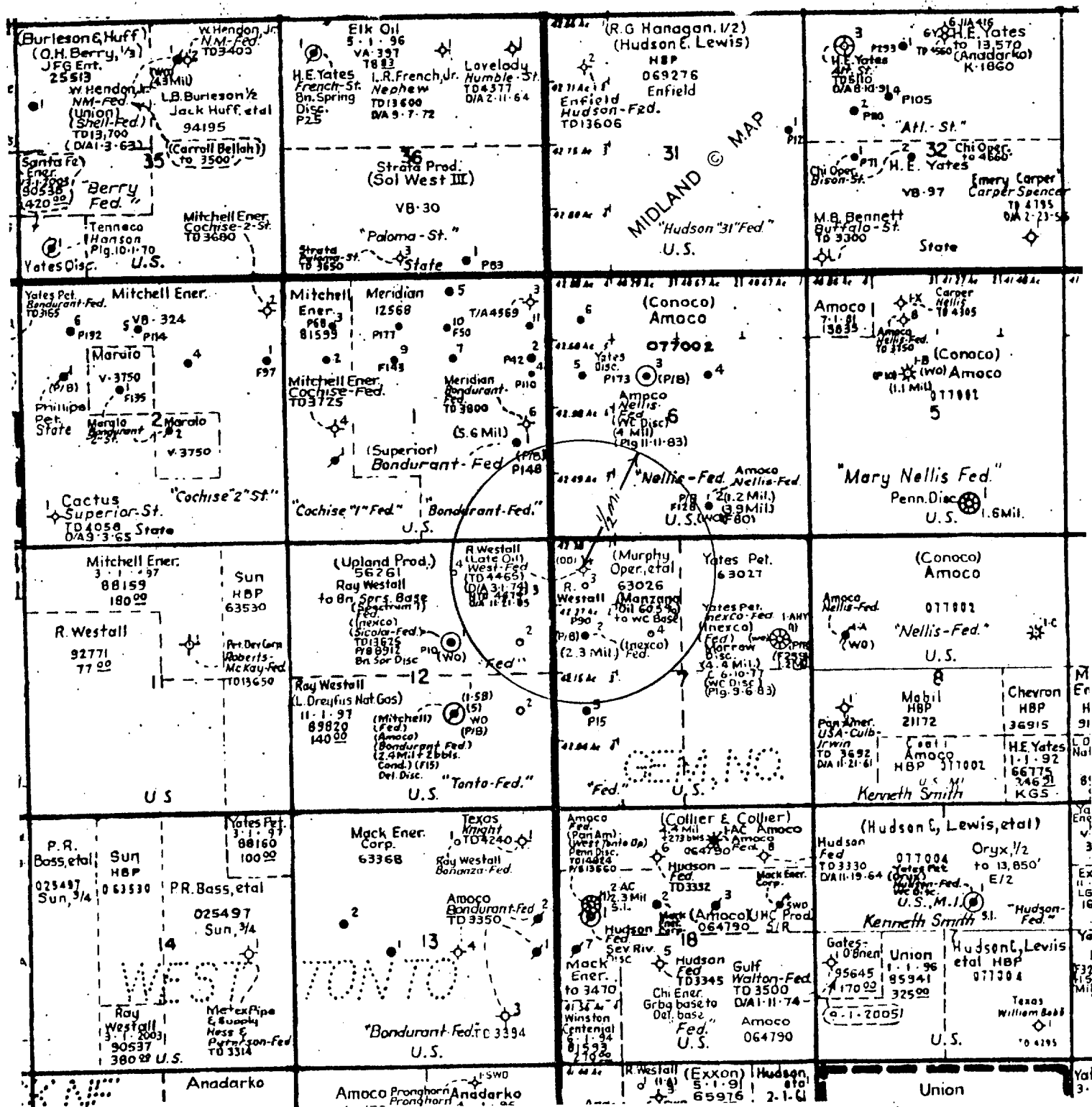
Tubing size 2 7/8" lined with plastic set in a BAKER LOC-SET packer at 3400'

Other Data

1. Name of the injection formation: YATES, SEVEN RIVERS, QUEEN
2. Name of Pool: WILDCAT
3. Original purpose of well: EXPLORATORY OIL & GAS
4. Well has not been perforated in any other zone
5. The TONTO DELAWARE pool underlies this area approximately 6000'

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.



[illegible]

ATTACHMENT VI

Data on all wells of public record within the area of review with schematic of plugged wells.

Well name	Location	Spud date	Sur. Casing	Int. Casing	Prod. Casing	Completion
Ray Westall Federal 12 #2	SENE Sec 12 T19S-R32E	7/14/95	13 3/8" @ 450 475 sxs Circ.	8 5/8" @ 3069 1200 sxs Circ.	5 1/2" @ 7590 860 sxs T/2500	7403-7460 Tonto Delaware
Ray Westall Federal 12 #4	NWNE Sec 12 T19S-R32E	10/21/95	13 3/8" @ 455 475 sxs Circ.	8 5/8" @ 3000 1200 sxs Circ.	5 1/2" @ 7750 1390 sxs T/2000	7403-7460 Tonto Delaware
Ray Westall Federal 7 #5	NWSE Sec 7 T19S-R33E	11/4/93	13 3/8" @ 454 250 sxs Circ.	8 5/8" @ 3133 1200 sxs Circ.	5 1/2" @ 7678 1150 sxs Circ.	7269-7548 Tonto Delaware
Ray Westall Federal 7 #2	SWNW Sec 7 T19S-R33E	1/18/79	13 3/8" @ 509 485 sxs Circ.	8 5/8" @ 5104 2500 sxs Circ.	5 1/2" @ 13800 225 sxs @ 13800 175 sxs sq @ 5210	7426-7521 Tonto Delaware

ATTACHMENT VII

PROPOSED OPERATION

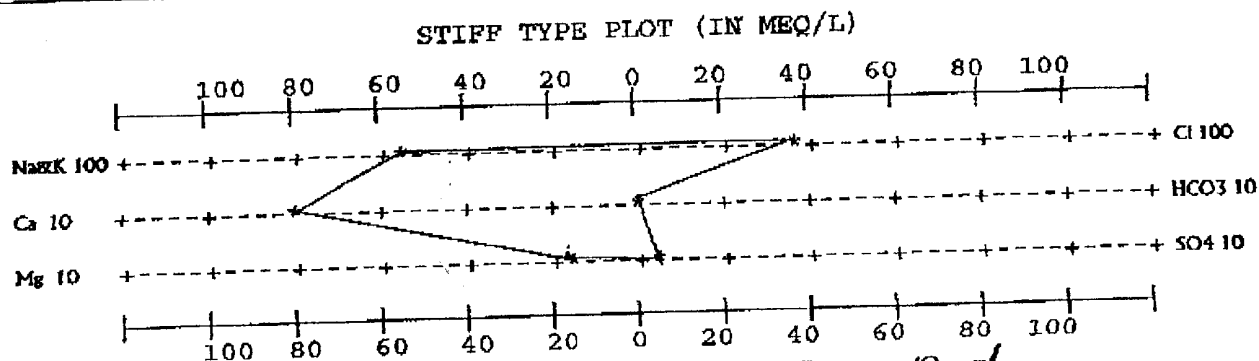
1. Plans are to inject 150-200 bbls of produced water per day per well.
2. The injection system is be a closed system.
3. The estimated injection pressure is 300 psig. Maximum pressure will be 600 psig.
4. Injection fluid will be reinjected produced water.
5. A sample of produced water is attached.

J01W052

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W052
ARTESIA LAB

GENERAL INFORMATION	
OPERATOR:	RAY WESTALL OPERATING
WELL:	MAVERICK FEDERAL #1
FIELD:	
SUBMITTED BY:	RANDY HARRIS
WORKED BY:	CRAIG BAILEY
PHONE NUMBER:	
DEPTH:	7376-7386
DATE SAMPLED:	04/04/96
DATE RECEIVED:	04/04/96
COUNTY:	EDDY
FORMATION:	STATE: NM

SAMPLE DESCRIPTION	
PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY:	1.165 @ 70°F PH: 5.55
RESISTIVITY (CALCULATED):	0.025 ohms @ 75°F
IRON (FE++) :	65 ppm
CALCIUM:	16,153 ppm
MAGNESIUM:	2,086 ppm
CHLORIDE:	130,443 ppm
SODIUM+POTASS:	84,610 ppm
IODINE:	
SULFATE:	1,030 ppm
TOTAL HARDNESS	48,956 ppm
BICARBONATE:	178 ppm
SODIUM CHLORIDE (Calc)	214,578 ppm
TOT. DISSOLVED SOLIDS:	265,217 ppm
POTASSIUM CHLORIDE:	
REMARKS	



ANALYST

Craig Bailey
 CRAIG BAILEY

AT01W013

BJ SERVICES COMPANY
WATER ANALYSIS #AT01W013
ARTESIA LAB

GENERAL INFORMATION

OPERATOR: RAY WESTALL	DEPTH:
WELL: PALADIN FED. #1	DATE SAMPLED: 05/07/96
FIELD:	DATE RECEIVED: 05/07/96
SUBMITTED BY: RANDY HARRIS	COUNTY: EDDY STATE: NM
WORKED BY: ERIC HENDERSON	FORMATION: DELEWARE
PHONE NUMBER:	

SAMPLE DESCRIPTION

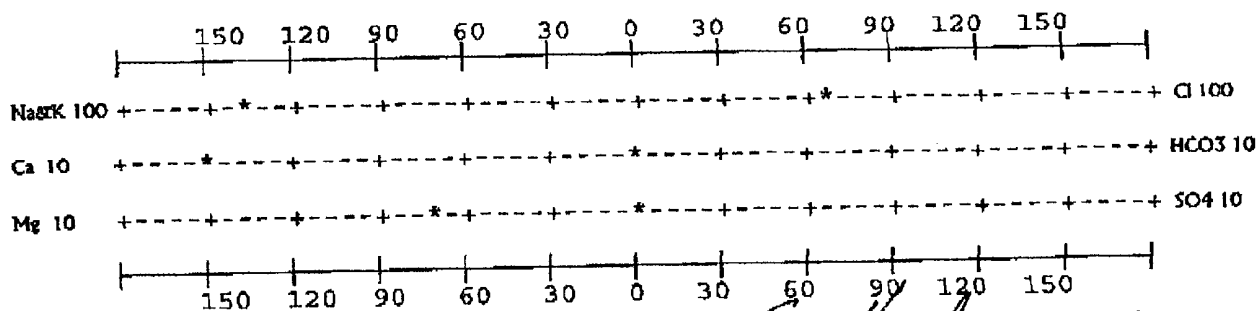
flow back sample

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.165	@ 77°F	PH:	6.50
RESISTIVITY (CALCULATED):	0.015	ohms @ 75°F		
IRON (FE++) :	30 ppm	SULFATE:	343 ppm	
CALCIUM:	29,901 ppm	TOTAL HARDNESS	111,655 ppm	
MAGNESIUM:	8,969 ppm	BICARBONATE:	157 ppm	
CHLORIDE:	240,289 ppm	SODIUM CHLORIDE (Calc)	395,276 ppm	
SODIUM+POTASS:	141,462 ppm	TOT. DISSOLVED SOLIDS:	493,907 ppm	
H2S: NO TRACE		POTASSIUM CHLORIDE:	450	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

ERIC HENDERSON

ATTACHMENT VIII

The proposed injection zones are sands of the Yates Seven Rivers and Queen Formations. These sands are composed of fine-grained quartz sand with varying amounts of shales. They have varying thickness from 8-30 feet thick. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

ATTACHMENT X

Logging and test data on subject well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions re-
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-63026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Tonto West 7 Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat (Queen-Penrose Test)

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

W $\frac{1}{2}$ Sec. 7, T-19S, R-33E

14. PERMIT NO.

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

3665.3' G.R.

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)

11-11-85 RU Logging Truck. TIH w/Gamma Ray CCL. Loggers TD @ 4628', PBTD @ 4637'. TIH w/perf guns & perf. as follows: 4424', 4425', 4426' & 4427' @ 1 J.S.P.F. (Penrose). Perf. Queen as follows: 4165', 4167', 4171', 4183', 4184', 4192' (Queen). RD Logging Truck. Tally & TIH w/144 jts. 2-7/8" tbgs. to 4430'. Spotted 2 bbls. acid across perfs. Layed dn. 4 jts. of 2-7/8" tbgs. Set pkr. RTTS @ 4328' K.B.M. Broke Penrose dn. @ 2200# psi. RU Swabb line & swabbed tbgs. dry to seat nipple. RU Halliburton to complete acid job as follows:

500 gals. 15% NEFE

Dropped 10 Ball sealers (Well balled off)

Flushed w/27.8 bbls. 2% KCl wtr.

Avg. Press @ 2000# psi and Max. Press @ 3800# psi

Avg. RPM @ 3.5 bbls./min. and Max. RPM @ 3.6 bbls./min.

ISIP @ 1400# psi, 5 Min. @ 1100# psi, 10 min @ 700# psi

11-15-85 RU Halliburton. Spotted 2 bbls. 15% MCA Acid @ 4200' K.B.M. Layed dn. 5 jts. 2-3/8" tbgs. Nippled dn. B.O.P. Set RTTS @ 4048'. Broke perfs @ 2200# psi. Swabbed tbgs. to S.N. Completed acid job as follows:

CONTINUED ON PAGE 2 - OVER

I hereby certify that the foregoing is true and correct

SIGNED

Lois N. Brown

TITLE Production Records

DATE November 20, 1985

(This space for Federal or State office use)

APPROVED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

NOV 22 1985

*See Instructions on Reverse Side

Form 3160-5
November 1983
Formerly 9-331

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICA
(Other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-63026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

West 7 Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA

Section 7, T-19S, R-33E

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

MURPHY OPERATING CORPORATION

3. ADDRESS OF OPERATOR

P. O. Drawer 2648, Roswell, New Mexico 88201

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

See also space 17 below.)

At surface

660' FNL & 660' FWL

14. PERMIT NO.

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

3665.3 G.R.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

11-24-85 Unseated pump, TIH & TOH w/rods & pump. Nippled dn. WH. Layed dn. 2 jts. 2-3/8" tbg. SLM out of hole w/RTTS pkr. Layed dn. same. RU loggers & TIH to 4155' & set CIBP & dumped 10' cmt. on top. RU perf. guns & TIH & perf. @ 3967' - 3977' @ 1 JSPF = 11 holes total. RD loggers (PBSD @ 4145'). TIH w/new RTTS pkr. to 3980' & spotted 2 bbls. 15% MCA acid. Layed dn. 4 jts. of 2-7/8" tbg. Set RTTS pkr. @ 3865'. Broke dn. perfs, swabbed tbg. dry. Well broke dn. @ 2200# psi. Completed acid job as follows: 666 gals. 15% MCA acid; 22 ball sealers, well balled off; Max. press 3500# psi., Avg. Press @ 2000# psi.; Max. rate @ 3.8 BPM, Avg. rate @ 3.0 BPM.; Flushed w/25 bbls. 2% KCl wtr. Total bbls. to recover = 44 bbls. ISIP 1200#, 5 min. 75# psi, 10 min. 0# psi. RU lubricator & made 10 swabb runs. F.L. remaining @ 1200' from surface. Recovered 46 bbls. All loadwater recovered. SDFN.

11-26-85 SITP @ 10# psi @ 13 hrs. No show of gas. RU lubricator & started swabbing @ 7:05 a.m. RD swabb lubricator, changed elev. & TIH w/pump & rods as follows: 2-1/2" X 2" X 12' - RWTC Pump; 2' X 3/4" rod sub, top of pump; 3/4" rods; 22' X 1-1/4" polish rod, 10' X 1-1/2" liner. Started motor & left running w/good pump action. Pumping water, no show of oil or gas.

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

SIGNED

Lois N. Brown
Lois N. Brown

TITLE Production Clerk

DATE Dec. 3, 1985

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

DEC 11 1985

*See Instructions on Reverse Side

CONFIDENTIAL

Form 3160-5
November 1983)
Formerly 9-331)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLI
(Other instructions
verse side)Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-63026	
2. NAME OF OPERATOR MURPHY OPERATING CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Drawer 2648, Roswell, New Mexico 88201		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 660' FWL (Unit Ltr. D)		8. FARM OR LEASE NAME West 7 Federal	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3665.3' G.R.		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 7, T-19S, R-33E	
		12. COUNTY OR PARISH Lea	
		13. STATE New Mexico	

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

12-3-85 RU PU.

12-4-85 Unseated pump & TIH & TOH w/rods & layed dn. pump. Nippled dn WH, changed elev. & unseated pkr. RTTS, let fluid equalize. Layed dn. 3 jts. of 2-7/8" tbg. TOH for CIBP & perf. RU loggers & TIH w/CIBP & set CIBP @ 3960' & dumped 10' cmt. on top. TIH w/perf. guns & perf. as follows: 3759'-3766' @ 1 J.S.P.F. for a total of 8 holes. RD loggers & TIH w/2-7/8" tbg. to 3770' & spotted w/2 bbls. 15% MCA acid. Layed dn. 3 jts. 2-7/8" tbg. & set RTTS pkr. @ 3684.51'. Broke dn. perms. & swabbed tbg. dry. Completed acid job as follows: Well broke dn. @ 3700# psi; 666 gals. 15% MCA acid; 16 ball sealers (well balled off); Max. press. @ 4300# psi. - Avg. press @ 2534# psi; Max. rate = 4.1 BPM - Avg. rate - 3.5 BPM; flushed w/2% KCl - 23 bbls.; Total bbls. to rec. - 40 bbls.; ISIP 2450# psi, 5 min, 1540# psi, 10 min 1100# psi.; 15 min. well flowed dn. RU lubricator & made 4 swabb runs to S.N. Rec. 24 bbls. - 16 bbls. left to rec. SDFN.

12-5-85 SITP @ 50# psi. for 13.5 hrs. Opened 1" bleed line dn. 1" hose. Tried to burn, no show of gas. RU lubricator & started swabbing @ 7:30 a.m. Tank

CONTINUED ON PAGE 2

I hereby certify that the foregoing is true and correct

SIGNED

Lois N. Brown

TITLE

Production Clerk

DATE

December 9, 1985

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

DEC 11 1985

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDENTIAL

Form 3160-5
November 1983)
Formerly 9-331)UNIT STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 19855. LEASE DESIGNATION AND SERIAL NO.
NM-63026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

West 7 Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 7, T-19S, R-33E

14. PERMIT NO.

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

3665.3 G.R.

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

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FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

12-17-85 TIH & unseated pump & TOH w/rods & pump. Nippled dn. WH, changed elev., unseated pkr. RTTS, & let fluid equalize. Layed dn. 3 jts. 2-7/8" tbg. TOH w/SLM & set CIBP & perf. RU loggers, TIH w/CIBP & set @ 3750'. Dumped 10' cmt. top of CIBP. TIH w/perf guns & perf. as follows: 3586' - 3591', 1 J.S.P.F. = 6 holes. RD loggers. TIH w/2-7/8" tbg. to 3591.92' & spotted 2 bbls. 15% MCA acid. Layed dn. 3 jts. 2-7/8" tbg. & set RTTS @ 3489.24'. Break dn. perf. @ 3500# psi. Swabbed tbg. dry. Completed acid job as follows: 666 gals 15% MCA acid, 12 ball sealers (well did ball off). Max. press. @ 4000# psi, Avg. press. @ 2200# psi. Max. RPM @ 4.5 & Avg. RPM @ 3.2. Flushed w/22.5 bbls. 2% KCl water. ISIP @ 1400# psi, 5 min. @ 750# psi., 10 min @ 500# psi. 15 min. well blowed dn. Total bbls. to rec. = 38.6 bbls. RU lubricator & started swabbing & made 9 swabb runs. Rec. 24 bbls. acid water & 15 bbls. left to rec.

12-18-58 13.5 hrs. S.I.T.P. 10# psi. RU lubricator & started swabbing. No show of oil or gas. Layed dn. swabb lubricator, RU rod elev. & TIH w/rods as follows: 2 X 1 1/2" X 12' - Pump w/2 1/2" cups; 1 2' X 3/4" sub; 137 3/4" rods; 1 8' X 3/4"; 1 6' X 3/4"; 1 4' X 3/4"; 22' X 1-1/4" polish rod w/10' X 1-1/2" liner. Left well pumping.

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

SIGNED

Lois N. Brown
Lois N. Brown

TITLE

Production Clerk

DATE Dec. 30, 1985

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

JAN 2 1986

*See Instructions on Reverse Side

Form 3160-5
November 1983)
Formerly 9-331)

UNIT STATES
DEPARTMENT THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other instructions
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-63026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

West 7 Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 7, T-19-S, R-33E

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

MURPHY OPERATING CORPORATION

3. ADDRESS OF OPERATOR

P. O. Drawer 2648, Roswell, New Mexico 88201

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

660' FNL & 660' FWL

14. PERMIT NO.

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

3665.3 G.R.

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

(Other)

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 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.)

1-9-86 RU PU & unseated pump, TIH & TOH w/same. Nippled dn. WH, changed elev. & layed dn. 6 jts. 2-7/8" tbg. TOH to set CIBP & perf. RU loggers, TIH w/CIBP, set CIBP @ 3580'. Dumped 10' cmt. on top CIBP. TIH w/perf. guns & perforated as follows: 3481'-1 shot, 3484'-3490'-J.S.P.F. = 7 shots, 3494'-3496' = 1 J.S.P.F. = 3 shots. Total - 11 holes. Picked up RTTS pkr., TIH w/2-7/8" tbg. to 3497' & spotted 2 bbls. 15% MCA acid. Layed dn. 4 jts. 2-7/8" tbg. Set RTTS pkr. @ 3368.53' = K.B. Breakdn. perfs w/1950# psi. Swabbed tbg. dry. Completed acid job as follows: 916 gals. 15% MCA acid; 25 ball scalers (well did ball off); Max. press. @ 4300# psi; Avg. press. @ 1963# psi; Max. RPM @ 5.1 bbls./min.; Avg. RPM @ 4.3 bbls./min.; flushed w/22.5 bbls. of 2% KCl wtr.; ISIP @ 1750# psi; 5 min. @ 1680# psi; 10 min. @ 1660# psi. Total bbls. to rec. - 45 bbls. Rig swabb line, drum was torn up.

1-10-86 SITP @ 15# psi. 14 hrs. Blew dn. 2 min. Changed elev., picked up pump & TIH w/rods as follows:

109 jts. 2-7/8" tbg.	3360.00'
RTTS pkr.	7.43'
seat nipple	1.10'
KB measurement	3368.53'

Pump 2-1/2" X 2" X 12'; One 2' X 3/4" rod sub, top of pump; 133 3/4" rods; Two 6' X 3/4" rod sub; Two 4' X 3/4" rod sub; 1-1/4" X 22' polish rod w/1-1/2" X 10' liner. Started engine & left well pumping w/good pump action. Tbg. full, pumped fluid to tank.

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

SIGNED

Lois N. Brown
Lois N. Brown

TITLE Production Clerk

DATE January 14, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:
ACCEPTED FOR RECORD

JAN 16 1986

*See Instructions on Reverse Side

ATTACHMENT XI

There is no fresh water wells within one mile.

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are Meridian, Amoco and Yates Petroleum. Each of these operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is B.L.M.

PROOF OF PUBLICATION

Proof of publication will be from the Hobbs Sun News and will be forwarded.

Copies of this application has been sent to:

Meridian
21 Desta Dr.
Midland, Tx. 79701

Certified Mail # P 333 336 222

Yates Petroleum Corp.
105 S. 4th Street
Artesia, NM. 88210

Certified Mail # P 333 336 223

Amoco
501 Westlake Pk Blvd
Houston, Tx. 77253

Certified Mail # P 333 336 224

Oil Conservation Division
P.O. Box 1980
Hobbs, NM. 88241-1980

Oil Conservation Division
2040 So. Pacheco St.
Santa Fe, NM 87505-5472

SURFACE OWNER

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292