

Form 31a-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP. (ITE)
(Other instructions on re-
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.
NM-38636
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

(Do not use this form for proposals to drill or to deepen or plug back to a different level of oil.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Saltwater Disposal Well **OCT 16 '89**
2. NAME OF OPERATOR
3. ADDRESS OF OPERATOR
Mallon Oil Company
O. C. D.
ARTESIA, OFFICE
1099 18th Street, Suite 2750, Denver, CO 80202
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1665' FSL, 330' FEL (NE/4, SE/4)

7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Amoco-Federal
9. WELL NO.
#1
10. FIELD AND FOOT, OR WILDCAT
Brushy Draw-Delaware
11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec. 27, T26S, R29E
12. COUNTY OR PARISH
Eddy
13. STATE
NM

14. PERMIT NO.
15. ELEVATIONS (Show whether OF, BT, OR, etc.)
2877' KB, 2869' GL

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 ☐ ABANDONMENT* ☐
REPAIR WELL ☐ CHANGE PLANS ☒
(Other) Convert oil producer to SWD ☒

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.)

See attached revision to previously submitted plans.

Oil Conservation Division
Case No. **18**
Exhibit No. **18**

RECEIVED
OCT 5 10 54 AM '89
OIL CONSERVATION
DIVISION

I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Production Manager

DATE

10-03-89

(This space for Federal or State office use)

APPROVED BY

TITLE

PETROLEUM ENGINEER

DATE

10-11-89

CONDITIONS OF APPROVAL, IF ANY:

Subject to
Like Approval
by [unclear]

*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.

BLM Sundry Notice
Amoco-Federal #1 Saltwater Disposal Conversion

- 17) Purpose of project is to dispose of saltwater produced as a by-product of oil and gas production from the Amoco-Federal lease. The proposed disposal interval zone is the Cherry Canyon sands located between 4022 and 4206' (KB). The proposed disposal well is presently an economically marginal oil producing well. The anticipated starting date for the conversion is November 1, 1989

Plans for conversion to saltwater disposal are as follows:

- 1) Set 4 1/2" cast iron bridge plug on wireline at 4800' (Above present "Williamson Sd" producing perforations 4984-5004'). Load casing with water and pressure test casing and bridge plug to 1500 psi for 15 minutes.
- 2) Perforate squeeze holes 4300-02' with four shots per foot. Trip in hole with 4 1/2" packer on 2 3/8" tubing to 4350', set packer and pressure test tubing to 1500 psi for 15 minutes. Release packer and pick up to 4250', set packer and inject water into squeeze holes, to circulate through Bradenhead. Increase rate and circulate annulus with 200 Bbl water.
- 3) Release packer and trip out of hole. Trip in hole with 4 1/2" cement retainer and 2 3/8" tubing. Set retainer at 4280' and establish circulation with water. Pump 300 Ft3 35/65 poz 'A' + 0.5% dispersant followed by 180 ft3 Class 'A' + 2% bentonite + 0.5% dispersant. Displace cement to retainer, sting out of retainer and reverse circulate tubing with 30 Bbl fresh water. TOH with tubing and shut well in.
- 4) Run cement bond log from PBTD to above cement top. Perforate proposed injection intervals, 4022-34', 4036-40', 4050-60', 4092-4102', 4106-24' 4134-54', 4165-4208' with 2 SPF. TIH with packer and tubing to 4300' set packer and pressure test retainer with 1000 psi for 15 minutes. Raise packer to 4200' and spot 150 gallons acid across perforations. Raise packer and set at 3970', acidize perforations with a total of 2500 gallons 15% HCl with 150 1.3 S.G. perf balls. Backwash balls off of perforations and allow to settle.
- 5) Conduct step rate injection test. Release packer TOH.
- 6) TIH with 2 3/8" tubing, internally coated with TK-75 or equivalent, with 4 1/2" injection packer internally nickle coated. Circulate tubing-casing annulus with biocide/oxygen scavenger mixture, set packer. Nipple-up well head with pressure gauges on tubing and casing and commence injection. Average injection rate is anticipated to be 800 BWPD, maximum rate 1600 BWPD. Average injection pressure is anticipated to be 300 psi with maximum pressure at 804 psi.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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(Other instructions on re-
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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Saltwater Disposal Well		RECEIVED	
2. NAME OF OPERATOR Mallon Oil Company		DEC 11 '89	
3. ADDRESS OF OPERATOR 1099 18th Street Suite 2750 Denver, CO 80202		O.C.D.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1665' FSL, 330' FEL (NE, SE)		ARTESIA, OFFICE	
14. PERMIT NO.	15. ELEVATIONS (Show whether DT, ST, OR, etc.) 2877' KB	12. COUNTY OR PARISH Eddy	13. STATE New Mexico

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Recomplete as SWD Well	<input checked="" type="checkbox"/>
(Other)	<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.)

Plugged back non-commercial oil producing well and recompleted as saltwater disposal well in Upper Cherry Canyon Sands, (See Attached Reports)

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

SIGNED [Signature]

TITLE Production Manager

DATE 11-15-89

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

MALLON OIL COMPANY
AMOCO-FEDERAL #1 WELL
Section 27, T 26S, R 29E
Eddy County, New Mexico

Daily Report:

11-09-89 Perforate and acidize

Rigged-up Wedge Wireline. Ran cement bond log w/variable density log from PBTD @ 4283' (4293' correlated to open hole log) to 2153'. Fair - Good bond indicated from PBTD to 3550' corresponding to calculated fill-up for Class "C" + 5#/sk salt + 0.3% CFR-3. Poor bond indicated from 3550 to 2720' corresponding to 50/50 pozmix lead cement. Perforated w/ 3 1/8" casing carrier gun: 4165-4208', 4134-54', 4106-24', 4092-4102', 4050-60', 4036-40', 4022-34'; 2 SPF, 234 holes, 0.40" diam.. Fluid rising at 150'/hr. throughout perforating runs. PU New Mexico Packer Model "R" double grip 4 1/2" packer and seating nipple and trip in hole. Set packer at 4228' and pressure test retainer and tubing to 2000 psi. Release packer and TOOH to 4197', spotted 3 Bbl 15% Hcl. TOOH to 3945', set packer. Pressured annulus to 500 psi. Halliburton acidized perforations w/2500 gal 15% Hcl w/iron sequestering agent and 150, 1.3 specific gravity perf, balls. First break 1300 psi to 600 psi, raised rate to 4.3 BPM 1740 psi, good reactions to perf. balls throughout job. Flushed acid to perfs with 17 BW. Shut down and surged balls off perfs. Allowed to settle 15 minutes and began pumping brine, 4/8 BPM at 2050 psi, pressure breaks reduced pressure to 1990 at 90 Bbl cum water vol. Reduced rate to 1.1 BPM and injected 10 Bbl at 510 psi. ISIP 370 psi, 5 min 340 psi, 10 min 330 psi, 15 min, 320 psi. SIFN.

Cost: \$10,069
Cum: \$20,865

11-10-89 TIH w/Injection Packer and Tubing

SITP - 10 psi

Opened tbg. well flowing slowly. Released packer, TIH to 4280' to wipe any remaining perf. sealers off. TOOH w/tbg and Model "R" Elder packer, layed down tbg. PU Elder Model "T" Injection packer (Baker Model AD-1 equivalent) internally and externally coated. TIH w/125 jts (3988.95') 2 3/8", 4.7#/ft, EUE tbg, used, tested and drifted material prepared by Salta Pipe with PVC lining. Salta Representative ran pipe, all connections teflon taped and made-up to Salta Specifications. Installed stripper rubber and bowl, pumped 45 Bbl packer fluid displacing annulus, set pkr w/14,000# tension, set slips and packed off tubing head. Tbg. still flowing slowly w/some acid gas- acid gas circulated while spotting packer fluid. (Packer Fluid Champion Chemical R-2264 mixes at 1 gal/Bbl). SIFN.

Cost: \$12,771
Cum: \$33,636