

Mallon Oil Company

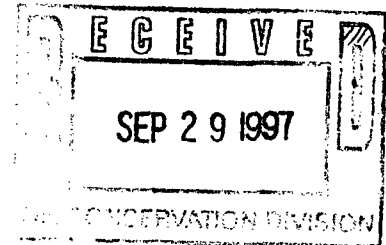
Denver/Colorado ♦ Carlsbad/New Mexico

NSL

10/20/97

a Mallon Resources subsidiary

September 26, 1997



State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Attn: Mr. Mike Stogner

Re: Jicarilla 459 No. 8
Sec. 17, T30N-R03W
Rio Arriba County, New Mexico

Dear Mr. Stogner:

Mallon Oil Company became the designated operator of the above referenced well effective January 1, 1997. There is a Non Standard Location approval (no. 2576) for the Pictured Cliffs formation

In August 1997, Mallon Oil Company temporarily abandoned the Pictured Cliffs formation and recompleted the well in the Ojo Alamo formation which is also a non standard location.

Mallon Oil Company would like to apply for Non Standard Location approval for the Ojo Alamo at the existing wellbore location. Mallon Oil Company is the sole operator within a half mile radius of this location.

Please find enclosed a copy of Mallon Oil Company's C-102 which was sent August 27, 1997 and an approved copy of the completion report (3160-4).

Should you need any further information, please contact the undersigned at 505-885-4596.

Sincerely,

MALLON OIL COMPANY

A handwritten signature in cursive script, appearing to read "Duane C. Winkler".

Duane C. Winkler
Operations Manager

Enclosures

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-24305		2 Pool Code 96537		3 Pool Name Ojo Alamo	
4 Property Code 20465		5 Property Name Jicarilla 459			6 Well Number 8
7 OGRID No. 013925		8 Operator Name Mallon Oil Company			9 Elevation 7074' GL

10 Surface Location

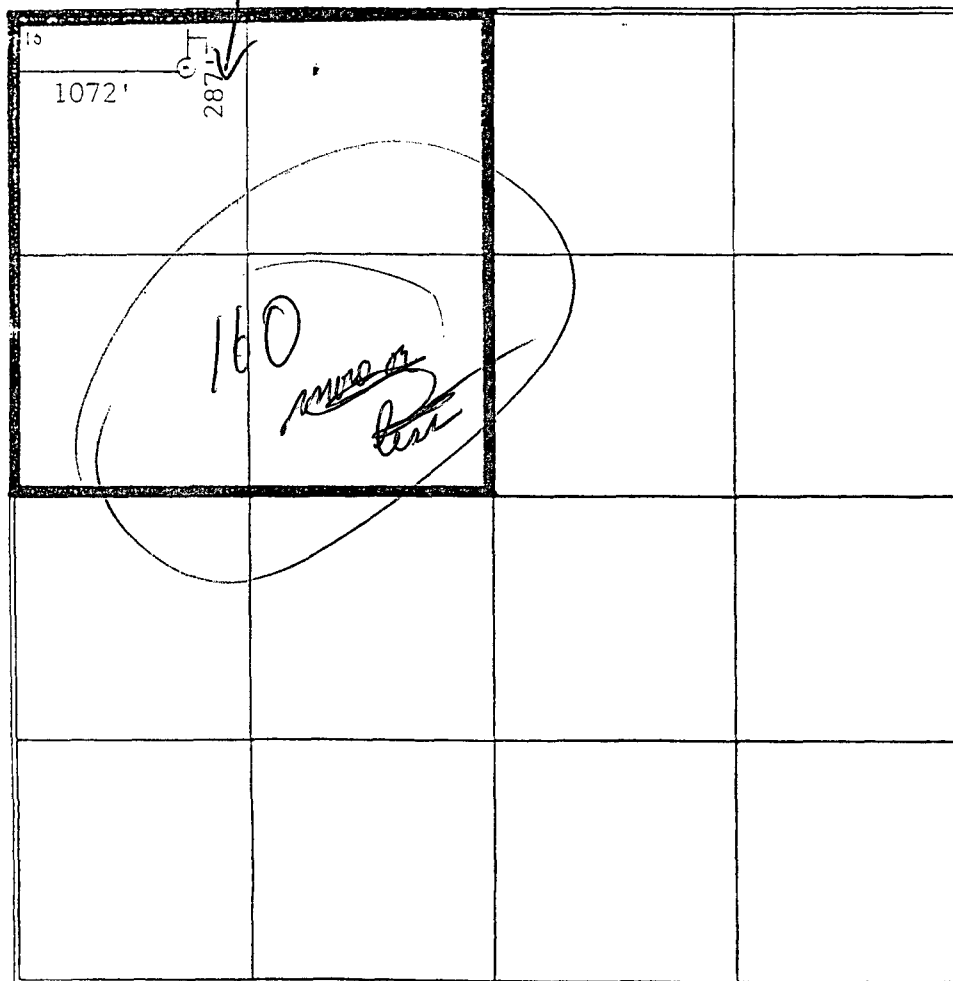
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
C	17	30N	03W		287	North	1072	West	Rio Arriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 160	13 Joint or Infill N	14 Consolidation Code N/A	15 Order No. N/A
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <u>Theresa A. McAndrews</u> Printed Name: Theresa A. McAndrews Title: Office Manager Date: 08/27/97	
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: Signature and Seal of Professional Surveyor: Certificate Number:	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(See other instructions
on reverse side)

CONFIDENTIAL
FORM APPROVED
OMB NO 1004-0137

Expires February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a TYPE OF WELL OIL GAS
WELL ☐ WELL ☒ DRY ☐ OTHER ☐

b TYPE OF COMPLETION
NEW WORK DEEP PLUG DIFF
WELL ☐ OVER ☒ EN ☐ BACK ☐ RESVR ☐ OTHER ☐

2 NAME OF OPERATOR
Mallon Oil Company

3 ADDRESS AND TELEPHONE NO
P.O. Box 3256, Carlsbad, NM 88220 (505) 885-4596

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements *)
At surface 287' FNL and 1072' FWL (NE NW) Unit C

At top prod interval reported below 287' FNL and 1072' FWL (NE NW) Unit C

At total depth 287' FNL and 1072' FWL
(NE NW) Unit C

14. PERMIT NO.
N/A

DATE ISSUED
N/A

5. LEASE DESIGNATION AND SERIAL NO
JIC459

6 IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME
N/A

8 FARM OR LEASE NAME, WELL NO
Jicarilla 459 No. 8

9. API WELL NO.
30-039-24305

10. FIELD AND POOL, OR WILDCAT
E. Blanco, Ojo Alamo

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA
Sec. 20, T30N-R3W

12. COUNTY OR PARISH 13. STATE
Rio Arriba New Mexico

15 DATE SPUDDED 16. DATE TO REACHED 17. DATE COMP (Ready to Prod.) 18. ELEVATION (DF, RKB, RT, GR, ETC*) 19. ELEV. CASINGHEAD
10/22/88 10/27/88 08/19/97 7074' GL 7075'

20 TOTAL DEPTH, MD & TVD 21. PLUGBACK TD, MD & TVD 22. IF MULTIPLE COMP., HOW MANY* 23 INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
4075' 3300' N/A Yes No

24 PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM NAME (MD AND TVD*) 25 WAS DIRECTIONAL SURVEY MADE
3124'-3136', 3139'-3146', 3164'-3168', 3188'-3204', 3211'-322 Ojo Alamo No

26 TYPE ELECTRIC AND OTHER LOGS RUN 27 WAS WELL CORED
IEL, CNL, FDC, CR, CLL No

28 CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	132'	12-1/4"	150 sks Class B	N/A
4-1/2"	10.5#	4048' KB	7-7/8"	300 sks Class B	N/A

29 LINER RECORD				30 TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT *	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A	N/A	N/A	N/A	N/A	2-3/8"	3103'	3103'

31 PERFORATION RECORD (Interval, size, and number)			32 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3124'-3136'	12'	12 holes	3124'-3222'	Frac 13,900 lbs sand
3139'-3146'	7'	7 holes		
3164'-3168'	4'	4 holes		
3188'-3204'	16'	16 holes		
3211'-3222'	11'	11 holes		

33 * PRODUCTION
DATE FIRST PRODUCTION 08/19/97 PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing WELL STATUS (Producing or Shut In) Producing

DATE OF TEST 08/16/97 HOURS TESTED 24 CHOKE SIZE 3/4 PROD'N FOR TEST PERIOD 0 OIL - BBL 900 GAS - MCF 0 WATER - BBL 0 GAS-OIL RATIO N/A

FLOW TBG PRESS 60 CASING PRESSURE 0 CALCULATED 24-HOUR RATE 0 OIL - BBL 0 GAS - MCF 0 WATER - BBL 0 OIL GRAVITY - API (CORR.) N/A

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) Sold TEST WITNESSED BY T. Lindeman

35 LIST OF ATTACHMENTS
N/A

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

SIGNED [Signature] TITLE Operations Manager DATE 08/20/97

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

Title 18 U.S.C. 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



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

September 14, 1988

Robert L. Bayless
P.O. Box 168
Farmington, NM 87499

Attention: Price M. Bayless

Administrative Order NSL-2576

Dear Mr. Bayless:

Reference is made to your application of July 20, 1988 for a non-standard well location for your Jicarilla 459 Well No. 8 to be located 287 feet from the North line and 1072 feet from the West line (Unit D) of Section 17, Township 30 North, Range 3 West, NMPM, East Blanco Pictured Cliffs Pool, Rio Arriba County, New Mexico. The NW/4 of said Section 17 shall be dedicated to the well.

By the authority granted me under the provisions of General Rule 104 F(I), the above-described unorthodox location is hereby approved.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay", written over a horizontal line.

William J. LeMay
Director

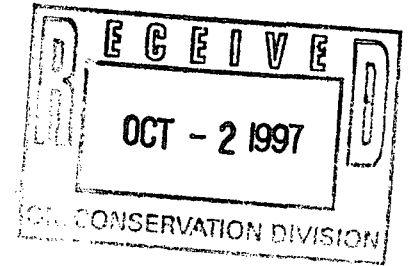
WJL/DRC/ag

cc: Oil Conservation Division - Aztec
New Mexico Oil & Gas Engineering Committee - Hobbs
US Bureau of Land Management - Farmington

Mallon Oil Company

Denver/Colorado ♦ Carlsbad/New Mexico

a Mallon Resources subsidiary



October 1, 1997

State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Attn: Mr. Mike Stogner

Re: Additional information to process an exception to Rule 104.

Dear Mr. Stogner:

Enclosed please find the additional information required to process an exception to Rule 104 under the guidelines of Section (F), Paragraph (1). We are requesting the exception for the following wells:

Jicarilla 459 No. 5
Sec. 19, T30N-R3W
Rio Arriba County, New Mexico
NSL: 2518

Present exception for Picture Cliff Formation.
Requested exception for Ojo Alamo Formation.

Jicarilla 459 No. 8
Sec. 20, T30N-R3W
Rio Arriba County, New Mexico
NSL: 2576

Present exception for Picture Cliff Formation.
Requested exception for Ojo Alamo Formation.

Mr. Mike Stogner
State of New Mexico
Oil Conservation Division
Page 2.

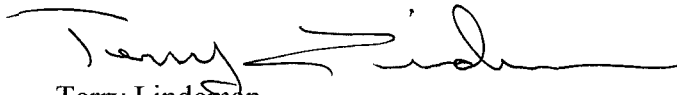
Jicarilla 459 No. 3
Sec. 18, T30N-R3W
Rio Arriba County, New Mexico
NSL: 2575

Present exception for Picture Cliff Formation.
Requested exception for Ojo Alamo Formation.

Attached is a map showing the Leases held by Mallon Oil Company and how they offset the wells in question. I appreciate the assistance you have given us on this matter should you require additional information please contact me at (505) 885-4596.

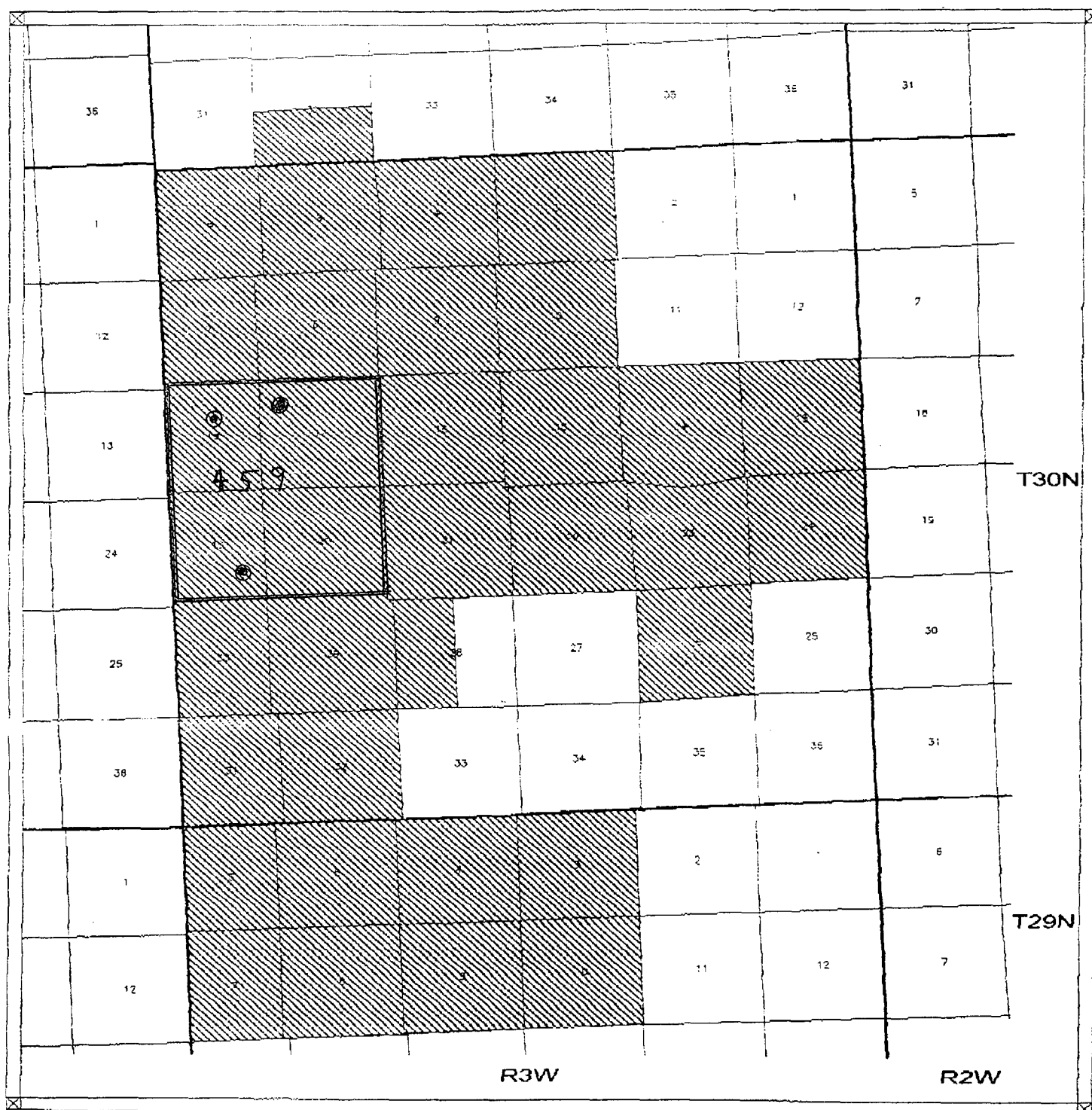
Sincerely,

MALLON OIL COMPANY



Terry Lindeman
Exploration/Production Superintendent

Enclosures



Scale 1:76000

0.2 0.4 0.6 0.8 1.0 miles



LEGEND

Diagonal hatchures=Mallon's leasehold

MALLON OIL COMPANY

San Juan Basin - E. Blanco
Mallon's Leasehold
Rio Arriba, New Mexico

10/1/97

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other:

2. Name of Operator

Mallon Oil Company

3. Address and Telephone No.

P.O. Box 3256, Carlsbad, NM 88220

(505) 885-4596

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2205' FSL and 1530' FWL (NE SW) Unit *K C*
Sec. 20, T30N-R3W
17

5. Lease Designation and Serial No.

JIC459

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Jicarilla 459 No. 8

9. Well API No.

30-039-24305

10. Field and Pool, or Exploratory Area

E. Blanco, Pictured Cliffs

11. County or Parish, State

Rio Arriba County, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☒ Other: Pipeline
- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection
- ☐ Dispose Water

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

13. 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 zone.)

Mallon Oil Company proposes to lay two (2) new pipelines of 2-7/8" coated tubing with a maximum pressure rating of 10,570 psi and a maximum operating pressure of 1200 psi. The lines will be buried 6 feet deep and will be wrapped with TGFIII. The lines will start at the Jicarilla 459 No. 8 and will run northwest to the Simms Federal No. 1 (5952.08' of line will be laid, 360.73 rods).

Mallon Oil Company also proposes to extend the well pad 170' x 178' to accommodate an Amine facility. Approximately 1/4 mile north of the well pad, a 200' x 200' pad for a water disposal facility will be built. Survey plats and archaeological surveys are attached. Environmental Assessment is forthcoming to be sent under separate sundry.

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

Signed

Duane C. Winkler

Title

Operations Manager

Date

5/6/97

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE)

Approved By

Title

Date

Conditions of approval, if any:

(name) company provided documentation - a
Issued as a skew by BIA - Company provided documentation
as a country

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

*See Instruction on Reverse Side

ACCEPTED FOR RECORD

AUG 22 1997

NW/4 SEC.17, T-30-N, R-3-W, N.M.P.M.
SW/4 SEC. 8, T-30-N, R-3-W, N.M.P.M.
S/2 SEC. 7, T-30-N, R-3-W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO



1.) BASIS OF BEARING: G.L.O. RECORD BEARING -
AS MEASURED BETWEEN THE NORTHEAST CORNER AND
THE NORTHWEST CORNER OF SECTION 18, T-30-N,
R-3-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO.
BEARS: WEST.

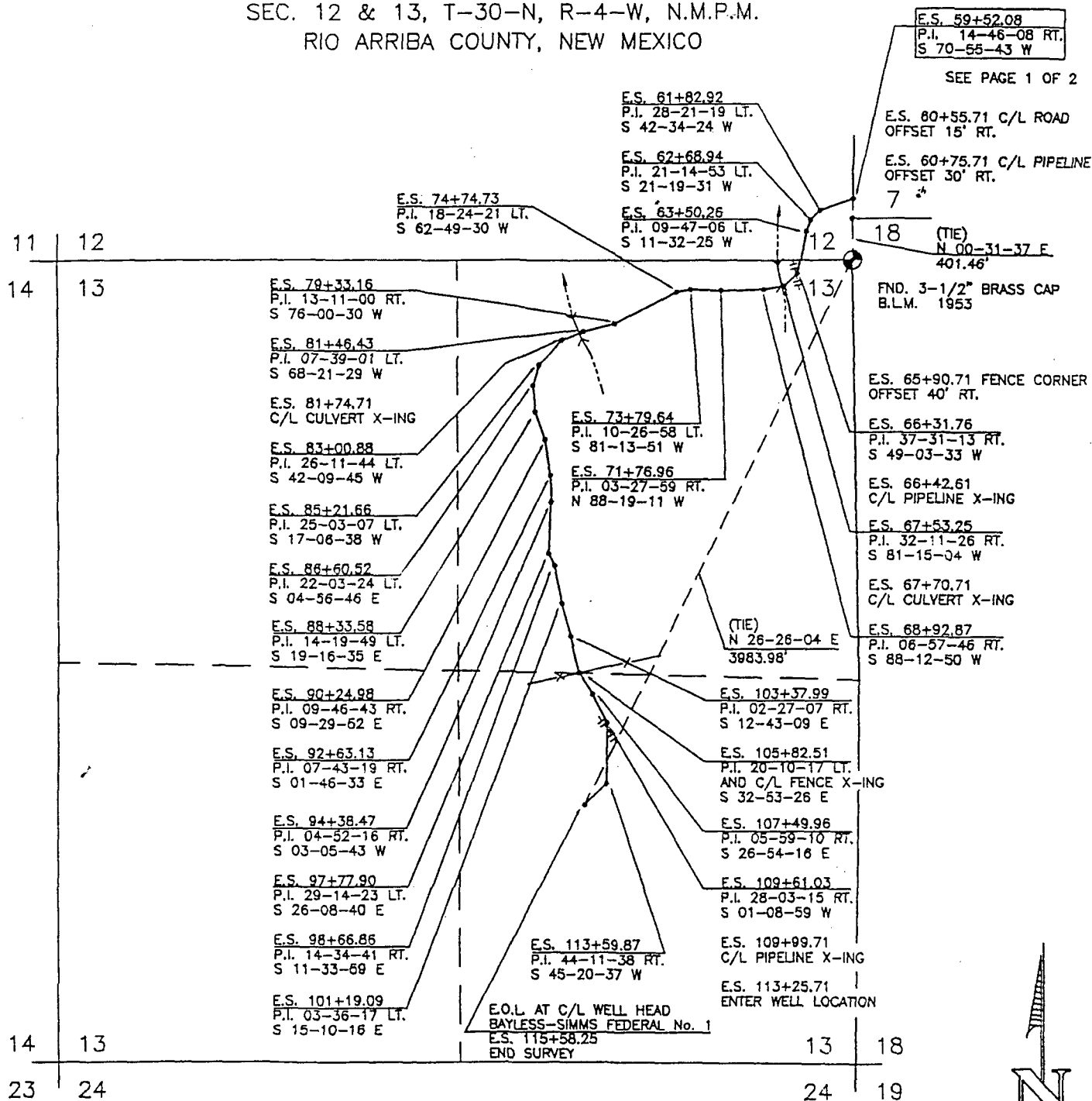
OWNER	STATION	FT./RODS
JICARILLA IND. RES.	0+00 TO 59+62.08	5952.08/360.73

PAGE 1 OF 2

I, ROY A. RUSH, A DULY QUALIFIED LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THIS SURVEY MEETS THE RECOMMENDED MINIMUM STANDARDS FOR LAND SURVEYS IN NEW MEXICO.

REVISION	REV. BY	DATE	SCALE: 1"=1000'
DAGGETT ENTERPRISES, INC			
420 WEST ELM STREET			
FARMINGTON, NEW MEXICO 87401			
(505) 326-1772			
REGISTERED LAND SURVEYOR			
NEW MEXICO No. 8894			

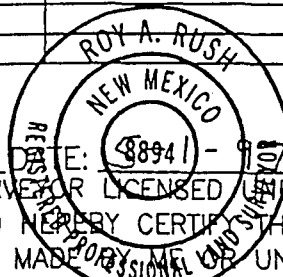
A SURVEY FOR
MALLON OIL CO.
WATER DISPOSAL LINE
EAST BLANCO FACILITY
 SEC. 12 & 13, T-30-N, R-4-W, N.M.P.M.
 RIO ARriba COUNTY, NEW MEXICO



NOTES:

1.) BASIS OF BEARING: G.L.O. RECORD BEARING - AS MEASURED BETWEEN THE NORTHEAST CORNER AND THE NORTHWEST CORNER OF SECTION 18, T-30-N, R-3-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO. BEARS: WEST.

OWNER	STATION	FT./RODS
	59+52.08 TO 115+58.25	5606.17/339.77



PAGE 2 OF 2

0 500 1000
 SCALE: 1"=1000'

REVISION REV. BY DATE

DAGGETT ENTERPRISES, INC
 420 WEST ELM STREET
 FARMINGTON, NEW MEXICO 87401
 (505) 326-1772
 REGISTERED LAND SURVEYOR
 NEW MEXICO No. 8894

I, ROY A. RUSH, A DULY QUALIFIED LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS FOR LAND SURVEYS IN NEW MEXICO.

MALLON OIL CO.
AMINE SITE
EAST BLANCO FACILITY
 NW/4 SEC.17, T-30-N, R-3-W, N.M.P.M.
 RIO ARRIBA COUNTY, NEW MEXICO

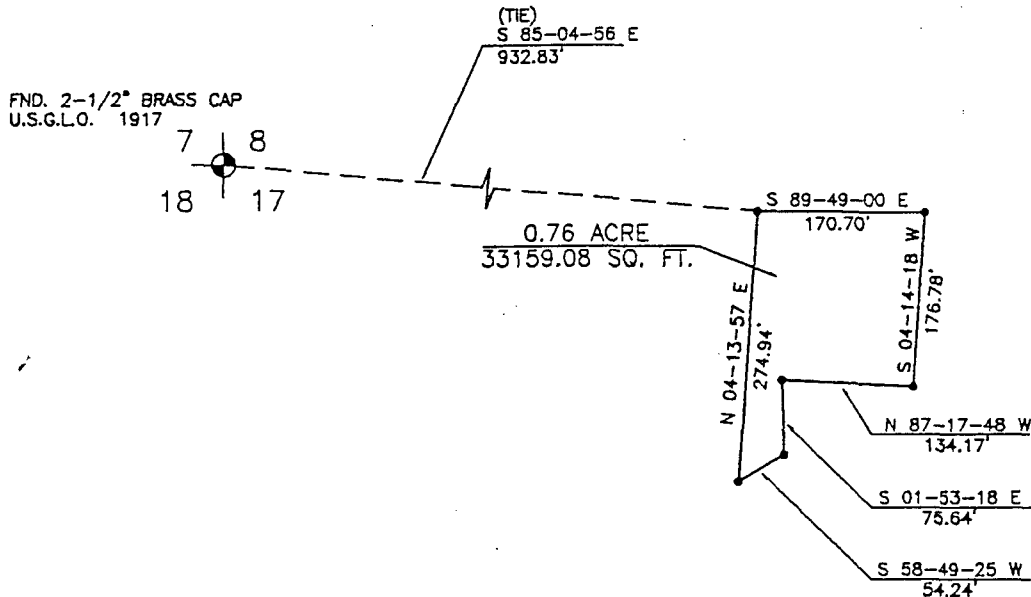
LEGAL DESCRIPTION:

A PARCEL OF LAND LOCATED IN THE NW/4 OF SECTION 17, TOWNSHIP 30 NORTH, RANGE 3 WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 17, THENCE S 85-04-56 E, A DISTANCE OF 932.83 FEET TO THE "TRUE POINT OF BEGINNING" FOR THIS DESCRIPTION;

THENCE S 89-49-00 E, A DISTANCE OF 170.70 FEET;
 THENCE S 24-14-18 W, A DISTANCE OF 176.78 FEET;
 THENCE N 87-17-48 W, A DISTANCE OF 134.17 FEET;
 THENCE S 01-53-18 E, A DISTANCE OF 75.64 FEET;
 THENCE S 58-49-25 W, A DISTANCE OF 59.24 FEET;
 THENCE N 04-13-57 E, A DISTANCE OF 274.94 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 0.76 ACRE(S) MORE OR LESS.

**NOTES:**

1.) BASIS OF BEARING: G.L.O. RECORD BEARING - AS MEASURED BETWEEN THE NORTHEAST CORNER AND THE NORTHWEST CORNER OF SECTION 18, T-30-N, R-3-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO. BEARS: WEST.

2.) DATE OF FIELD SURVEY: 4/14/97

3.) PROJECT LANDS ARE JICARILLA APACHE INDIAN RESERVATION.

• SET 1 1/2" REBAR w/ PLASTIC CAP L.S. 8894



0 100 200
 SCALE: 1"=200'

I, ROY A. RUSH, A DULY QUALIFIED LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS FOR LAND SURVEYS IN NEW MEXICO.

REVISION REV. BY DATE
 DAGGETT ENTERPRISES, INC.
 420 WEST ELM STREET
 FARMINGTON, NEW MEXICO 87401
 (505) 326-1772
 REGISTERED LAND SURVEYOR
 NEW MEXICO No. 8894

**MALLON OIL CO.
WATER PLANT SITE
EAST BLANCO FACILITY**
SE/4 SEC. 7, T-30-N, R-3-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO

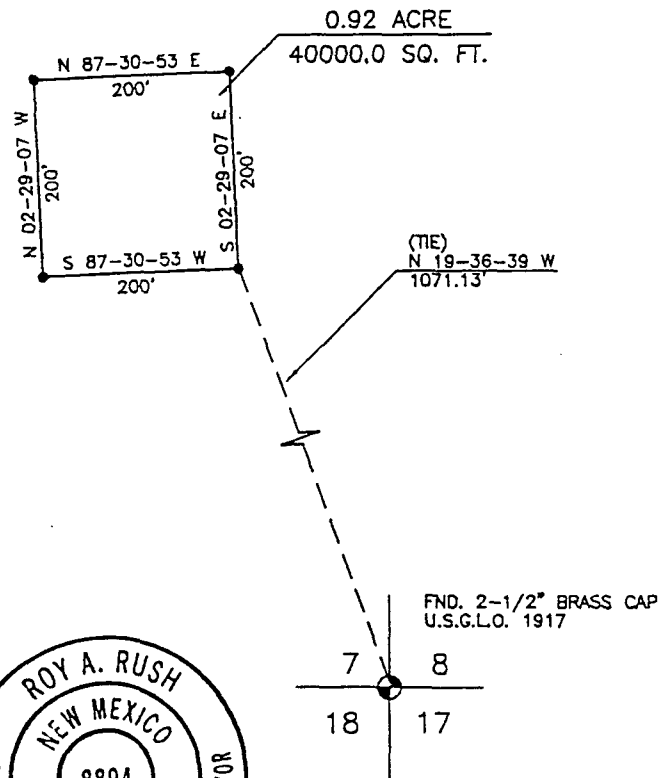
LEGAL DESCRIPTION:

A PARCEL OF LAND LOCATED IN THE SE/4 OF SECTION 7, TOWNSHIP 30 NORTH, RANGE 3 WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 7, THENCE N 19-36-39 W, A DISTANCE OF 1071.13 FEET TO THE "TRUE POINT OF BEGINNING" FOR THIS DESCRIPTION;

THENCE S 87-30-53 W, A DISTANCE OF 200.00 FEET;
THENCE N 02-29-07 W, A DISTANCE OF 200.00 FEET;
THENCE N 87-30-53 E, A DISTANCE OF 200.00 FEET;
THENCE S 02-29-07 E, A DISTANCE OF 200.00 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINING 0.92 ACRE(S) MORE OR LESS.

**NOTES:**

1.) BASIS OF BEARING: G.L.O. RECORD BEARING - AS MEASURED BETWEEN THE NORTHEAST CORNER AND THE NORTHWEST CORNER OF SECTION 18, T-30-N, R-3-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO. BEARS: WEST.

2.) DATE OF FIELD SURVEY: 4/14/97

3.) PROJECT LANDS ARE JICARILLA APACHE INDIAN RESERVATION.

• SET 1/2" REBAR w/ PLASTIC CAP L.S. 8894



DATE: 5-1-97

I, ROY A. RUSH, A DULY QUALIFIED LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS FOR LAND SURVEYS IN NEW MEXICO.

REVISION	REV. BY	DATE
DAGGETT ENTERPRISES, INC.		
420 WEST ELM STREET		
FARMINGTON, NEW MEXICO 87401		
(505) 326-1772		
REGISTERED LAND SURVEYOR		
NEW MEXICO No. 8894		

VELARDE ENERGY SERVICE
Dulce, New Mexico
Cultural Resources Survey Report

Cultural Resource Survey: Archaeological Survey of two plant facilities on Jicarilla Apache Tribal Lands.

Preparer: Gifford Velarde, Archaeologist, Velarde Energy Service, P. O. Box 919, Dulce, New Mexico 87528

Survey Archaeologist: Same as preparer.

Other Parties: Cielcel Bell, pumper for Mallon Oil Company.

Report Number: CR-97-511

Date of Report: 17 April 97 Date of Survey: 16 April 97

Sponsor Name and Address: Terry Lindeman, Mallon Oil Company, P.O.Box 3256, Carlsbad, New Mexico 88220

PROJECT #1 INFORMATION

Project Name/Designation: Amine Facility

Description of Undertaking: A Plant to Sweeten Sour Gas

Nature of Federal Involvement: Under Bureau of Indian Affairs Jurisdiction.

Size of Project Area: A rectangular shape 135 feet in width and 175 feet in length (135' x 175') for 0.54 acre.

PROJECT LOCATION

State: New Mexico County: Rio Arriba
Reservation: Jicarilla Apache

USGS Quadrangle: Bixler Ranch, N.M., 1963, 7.5, (1:24000)

Legal Description: The project is located in the NW 1/4 of the NW 1/4 of Section 17, Township 30 North, Range 3 West.

UTM Coordinates: Zone 13; 305,645 mE; 4,076,840 mN (project's center)

Distance/Direction from local landmarks/geographic features:
The project is located 500 meters south of J-10 on the northern Jicarilla.

ENVIRONMENTAL SETTING

Topographic Situation: An upper valley is the setting for the project.

Drainage: The drainage is toward the north into Cabresto Canyon.

Geology and Soils: The soil is partly disturbed. The other part has developed into a clay loam.

Vegetation Communities and Local Flora: The local flora consists of mostly sage with juniper, and rabbitbrush.

Elevation (feet): 7060 feet

SURVEY

Dimensions & Acreage: Same as project area.

Survey Method: The area was surveyed by walking a series of 4-5 meter linear transects.

Previous Surveys: None.

Previous Disturbance: A well location is adjacent to the proposal project.

CULTURAL RESOURCES

Sites: None

Isolated Occurrences: None.

Isolated Artifacts: None

RECOMMENDATIONS

Archaeological clearance is recommended for Mallon's Amine Facility.

Attachments: Project Location Map: Figure 1

REFERENCES

Museum of New Mexico

1986

Archaeological Records Management System. Laboratory of Anthropology, Santa Fe. New Mexico.

PROJECT #2 INFORMATION

Project Name/Designation: East Blanco Water Disposal Facility

Description of Undertaking: Construct water disposal facility

Nature of Federal Involvement: Under Bureau of Indian Affairs Jurisdiction.

Size of Project Area: A square shape 200 feet in width and in length (200' x 200') for 0.91 acre.

PROJECT LOCATION

State: New Mexico

County: Rio Arriba

Reservation: Jicarilla Apache

USGS Quadrangle: Bixler Ranch, N.M., 1983, 7.5, (1:24000)

Legal Description: The project is located in the SW 1/4 of the SE 1/4 of Section 7, Township 30 North, Range 3 West.

UTM Coordinates: Zone 13; 305,200 mE; 4,077,210 mN (project's center)

Distance/Direction from local landmarks/geographic features:
The project is located 100 meters east of J-10 on the northern Jicarilla.

ENVIRONMENTAL SETTING

Topographic Situation: An sage valley near some foothills is the setting for the project.

Drainage: The drainage is west into Cabresto Canyon.

Geology and Soils: The soil has developed into a clay loam.

Vegetation Communities and Local Flora: The local flora consists of mostly sage with juniper, and blue grama.

Elevation (feet): 7020 feet

SURVEY

Dimensions & Acreage: Same as project area.

Survey Method: The area was surveyed by walking a series of 4-5 meter linear transects.

Previous Surveys: None.

Previous Disturbance: A pipeline R-O-W is adjacent to the proposed project.

CULTURAL RESOURCES

Sites: None

Isolated Occurrences: None.

Isolated Artifacts: None

RECOMMENDATIONS

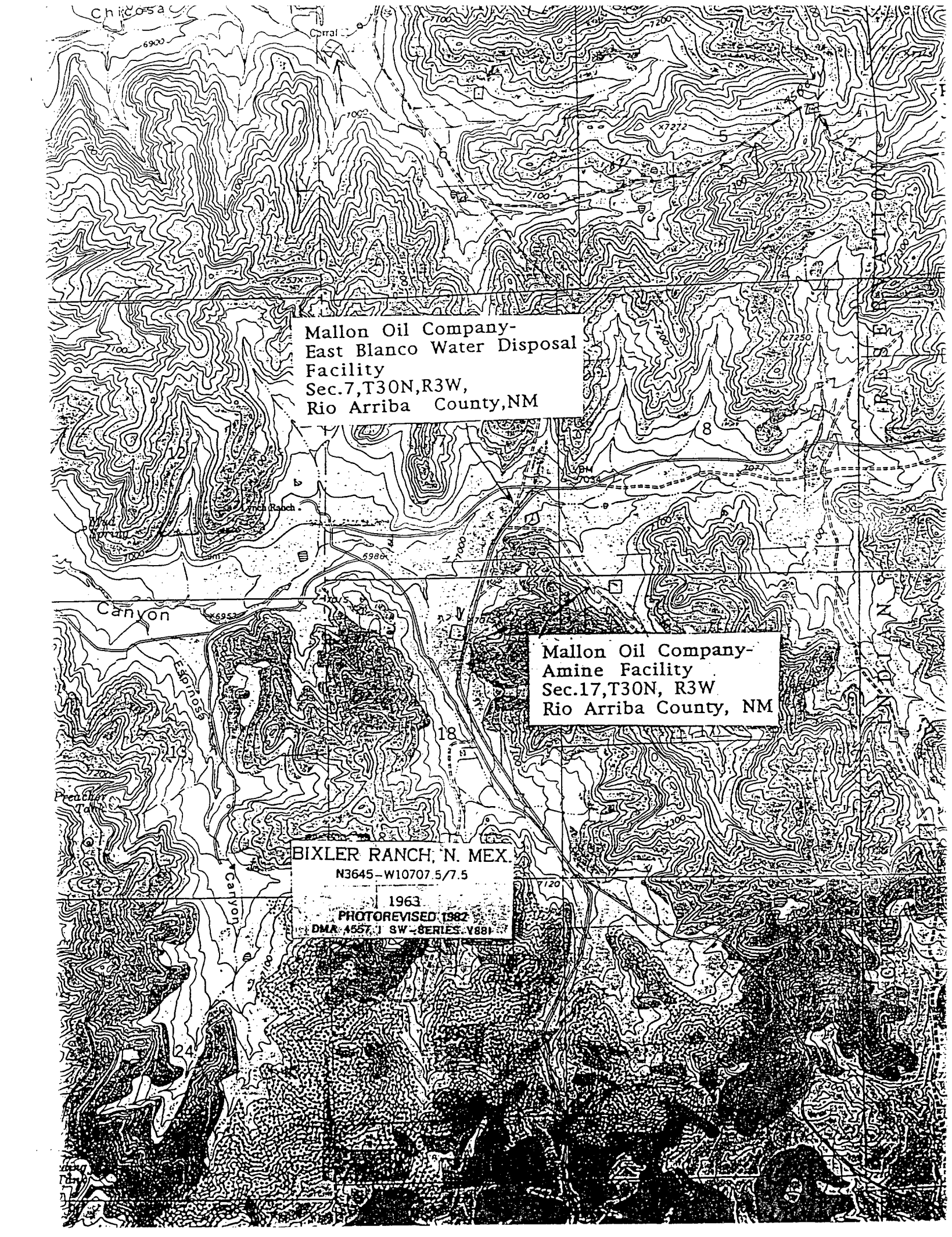
Archaeological clearance is recommended for East Blanco Water Disposal Facility.

Attachments: Project Location Map: Figure 1

REFERENCES

Museum of New Mexico

1986 Archaeological Records Management System. Laboratory of
Anthropology, Santa Fe. New Mexico.

A detailed topographic map of a region in New Mexico, showing Bixler Ranch. The map features dense contour lines indicating elevation, with labels such as 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, and 10000. A grid system is overlaid on the map, with section numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, and 100. A road is shown running horizontally across the middle of the map, and a river or stream is visible in the lower left. The map is labeled with 'BIXLER RANCH, N. MEX.' and 'N3645-W10707.5/7.5'. It also includes a date '1963' and a note 'PHOTOREVISED 1982'. The map is titled 'Mallon Oil Company-East Blanco Water Disposal Facility' and 'Mallon Oil Company-Amine Facility'.

Mallon Oil Company-
East Blanco Water Disposal
Facility
Sec.7,T30N,R3W,
Rio Arriba County,NM

Mallon Oil Company-
Amine Facility
Sec.17,T30N, R3W
Rio Arriba County, NM

BIXLER RANCH, N. MEX.
N3645-W10707.5/7.5

1963
PHOTOREVISED 1982
DMA 4557, 1 SW-SERIES V881

VELARDE ENERGY SERVICE
Dulce, New Mexico
Cultural Resources Survey Report

Cultural Resource Survey: Archaeological Survey of a Pipeline Right-of-Way on Jicarilla Apache Tribal Lands.

Preparer: Gifford Velarde, Archaeologist, Velarde Energy Service, P. O. Box 919,
Dulce, New Mexico 87528

Survey Archaeologist: Same as preparer.

Other Parties: Cielcel Bell, Mallon Oil Company, Bob Larson and Robert Moore,
Daggett Inc.

Report Number: CR-97-513

Date of Report: 23 April 97

Date of Survey: 16 & 23 April 97

Sponsor Name and Address: Terry Lindeman, Mallon Oil Company, P.O.Box 3256,
Carlsbad, New Mexico 88220

PROJECT #1 INFORMATION

Project Name/Designation: East Blanco Water Disposal Line

Description of Undertaking: Construct Water Disposal Line

Nature of Federal Involvement: Under Bureau of Indian Affairs Jurisdiction

Size of Project Area: A linear area 5,946 feet in length and 45 feet in width
(5946' x 45') for 6.14 acres (Figure 1).

PROJECT LOCATION

State: New Mexico

County: Rio Arriba

Reservation: Jicarilla Apache

USGS Quadrangle: Bixler Ranch, N.M., 1963, 7.5, (1:24000)

Legal Description: The proposed project is located in the NW 1/4 of the NW 1/4
of Section 17, into the SW 1/4 of the SW 1/4 of Section 8, into the SE 1/4
of the SE 1/4, into the SW 1/4 of the SE 1/4, into the SE 1/4 of the SW 1/4
of Section 7 Township 30 North, Range 3 West.

UTM Coordinates: Zone 13; 305,650 mE; 4,076,780 mN (well head)
Zone 13; 304,090 mE; 4,077,145 mN (exits Reservation)

Distance/Direction from local landmarks/geographic features:
The project is approximately 4 miles north of US 64 and the Jicarilla's western
boundary.

ENVIRONMENTAL SETTING

Topographic Situation: The area has gently sloping valleys and rolling hills.

Drainage: The drainage is west into Cabresto Canyon.

Geology and Soils: The soil has developed into a clay loam with some influence of a sandy loam.

Vegetation Communities and Local Flora: The local flora consists of sage, blue grama, prickly pear, pinon and juniper.

Elevation (feet): 6980 - 7060 feet.

SURVEY

Dimensions & Acreage: Same as project area.

Survey Method: The area was surveyed by walking a series of 5-7 meter linear transects.

Previous Surveys: Several projects are nearby. They have been surveyed.

Previous Disturbance: A local rancher road now serves as a right-of-way and well service route.

CULTURAL RESOURCES

Sites: None

Isolated Occurrences: I.O. 613 consisting of several sherds was found and recorded.

Isolated Artifacts: None

RECOMMENDATIONS

The pipeline right-of-way has been rerouted to avoid cultural resources. Archaeological clearance is recommended for East Blanco Water Disposal Line.

Attachments: Project Location Map: Figure 1

REFERENCES

Museum of New Mexico
1986 Archaeological Records Management System. Laboratory of Anthropology, Santa Fe. New Mexico.

U S Department of the Interior
Bureau of Land Management

Report Numbers (BLM)

Survey:

Mitigation/Study:

Cultural Resource Identification Record
Isolated Artifact Form

I Reference Data

- 1) ID# (BLM) _____ 2) PU ID (BLM) _____ 3) JAAS # 70-612
4) Location SW 1/4 SE 1/4 SW 1/4, Sec. 7, T 30N, R 3 W Map 68
5) UTM Zone 13 Easting 254500 Northing 4077030
6) Geographic Coordinates: Lat. North _____ Long. West _____
7) # Associated Form 1 8) Artifact Collected Yes _____ No X
9) Graphic File ID (BLM) _____ 10) Accessoin/Cat. ID (BLM) _____
11) Depository Institution VELARDE FIRE ARMS DEPOT
City DULCE
State N. MEX.

II Environmental Data

- 1) Habitat Zone (BLM) LIPPERIN 2) Vegetation SAGE, BLUE GRASS
3) Major Soil Class _____ 4) Arable Land/Soils YES
5) Elevation 6920 6) Land Form small drainage
7) Water Source

	P	I	F
<u>CABRESTO CANYON</u>		<input checked="" type="checkbox"/>	

8) Additional Comments

III Cultural Data

- 1) Cultural Affiliation ANASAZI 2) Time Circa 500-1275 BC/AD
3) Feature /Artifact Type:

FOUR BODY SHERDS

- 4) Inferred Function: STRONG WALLS / THIN
GOOD FIRING

IV Narrative

Field Observer/Recorder/Date VELARDE 4.16.97
VELARDE

replaces Form
ADO 6231 - 4

Mallon Oil Company-
East Blanco Water Disposal
Line
Sec.17,8,7,T30N,R3W,
Rio Arriba County,NM

I.O.-613

BIXLER RANCH, N. MEX.
N3645-W10707.5/7.5

1963
PHOTOREVISED 1982
DMA 4557 I SW - SERIES V881

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1. Operator Name and Address Mallon Oil Company P.O. Box 3256 Carlsbad, NM 88220 (505) 885-4596		2. OGRID Number 013925
		3. Reason for Filing Code CH Effective 1/1/97
4. API Number 30-039-24305	5. Pool Name E. Blanco, Pictured Cliffs	6. Pool Code 72400
7. Property Code 001849	8. Property Name Jicarilla 459	9. Well Number 8

II. 10. Surface Location

UL or lot no. KC-17	Section 20	Township 30N	Range 3W	Lot/Idn. N/A	Feet From the 2205	North/South Line South	Feet From the 1530	East/West Line West	County Rio Arriba County
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11. Bottom Hole Location

UL or lot no. K	Section 20	Township 30N	Range 3W	Lot/Idn. N/A	Feet From the 2205	North/South Line South	Feet From the 1530	East/West Line West	County Rio Arriba County
12. Les Code F	13. Producing Method Code F	14. Gas Connection Date 01/27/89		15. C-129 Permit Number		16. C-129 Effective Date		17. C-129 Expiration Date	

III. Oil and Gas Transporters

18. Transporter OGRID 37193	19. Transporter Name and Address Mallon Oil Company P.O. Box 3256 Carlsbad, NM 88220	20. POD 5214.30	21. O/G G	22. POD ULSTR Location and Description K-20-30N-3W

IV. Produced Water

23. POD K-20-30N-3W	24. POD ULSTR Location and Description K-20-30N-3W
-------------------------------	--

V. Well Completion Data

25. Spud Date	26. Ready Date	27. TD	28. PBTD	29. Perforations
30. Hole Size	31. Casing & Tubing Size	32. Depth Set	33. Sacks Cement	

VI. Well Test Data

34. Date New Oil	35. Gas Delivery Date	36. Test Date	37. Test Length	38. Tbg. Pressure	39. Csg. Pressure
40. Choke Size	41. Oil	42. Water	43. Gas	44. AOF	45. Test Method

46. I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Theresa A. McAndrews*
Printed Name: **Theresa A. McAndrews**
Title: **Office Manager**
Date: **02/10/97** Phone: **(505) 885-4596**

OIL CONSERVATION DIVISION
Approved By: *37.8*
Title: **SUPERVISOR DISTRICT #3**
Approval Date: **FEB 18 1997**

47. If this is a change of operator fill in OGRID number and name of the previous operator.

Previous Operator Signature: **Robert L. Bayless** OGRID **019418** Printed Name: *Kenneth H. McQuinn* Title: **Ret Engineer** Date: **2/13/97**

☐ AMENDED REPORT

47. If this is a change of operator fill in OGRID number and name of the previous operator.			
Previous Operator Signature	OGRID	Printed Name	Title
Robert L. Bayless	019418	Robert L. Bayless	Petroleum Engineer
			Date
			3/12/97

District II
111 South First, Artesia, NM 82310
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Revised October 10, 1974
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-24305		Pool Code 96537	Pool Name WILDCAT 30NEW17C; OJO ALAMO (G)
Property Code 849	Property Name JICARILLA 459		Well Number 8
OGRID No. 19418	Operator Name ROBERT L. BAYLESS		Elevation 7074

10 Surface Location

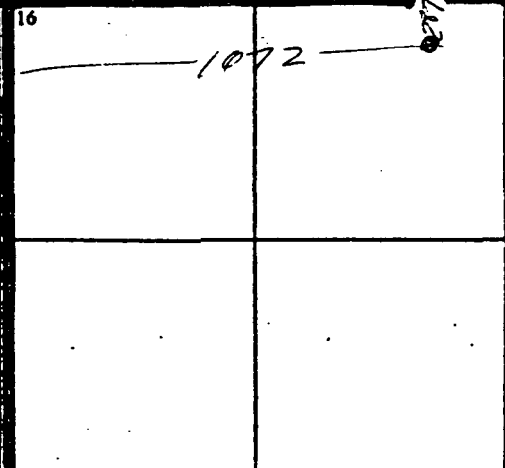
UL or lot no. C	Section 17	Township 30N	Range 03W	Lot Ida	Feet from the 287	North/South line NORTH	Feet from the 1072	East/West line WEST	County
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
---------------------------	--------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Robert L. Bayless Printed Name Operator Title April 23, 1996 Date	
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number	
	RECEIVED APR 24 1996 OIL CONSERVATION DIVISION	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

'95 JUN 9 8 52 AM
SUNDAY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Robert L. Bayless

3. Address and Telephone No.

P O Box 168, Farmington, NM 87499 505-326-2659

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

287' FNL & 1072' FWL
Sec. 17, T30N, R3W

5. Lease Designation and Serial No.

Jic. Cont. #459

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Jicarilla #459 No.8

9. API Well No.

30-039-24305

10. Field and Pool, or Exploratory Area

Undes. Ojo Alamo

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Resume production

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. 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.)*

In response to your letter of May 3, 1995 please be advised this well was placed back on production on May 22, 1995.

RECEIVED
JUN - 2 1995
OIL CON. DIV.
DRL 3

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

Signed

Title Petroleum Engineer

Date 5-22-95

(This space for Federal or State office use)

Approved by

Title Chief, Lands and Mineral Resources

Date JUN 2 1995

Conditions of approval, if any:

OIL CONSERVATION DIVISION
RECEIVED
91 NOV 27 10 09 AM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

Jic. Cont. #459

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Jicarilla 459 #8

9. API Well No.

30-039-24305

10. Field and Pool, or Exploratory Area

East Blanco Pic. Cliff

11. County or Parish, State

Rio Arriba, NM

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Robert L. Bayless

3. Address and Telephone No.

PO Box 168, Farmington, NM 87499 (505) 326-2659

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

287' FNL & 1072' FWL
Sec. 17, T30N, R3W

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Set Bridge Plug
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. 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.)

Isolated the Pictured Cliffs zone by setting a drillable bridge plug at 3300' pending further evaluation of the Ojo Alamo zone. Request permission for long-term shut-in status.

RECEIVED
OCT 23 1991

OIL CON. DIV.
DIST. 3

RECEIVED
OCT 15 1991

OIL CON. DIV.
DIST. 3

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

Signed [Signature] Title Engineer

(This space for Federal or State office use)

Approved by _____ Title _____

Conditions of approval, if any.

ACCEPTED FOR RECORD
Date 10/14/91

OCT 21 1991

FARMINGTON RESOURCE AREA

BY

[Signature]

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 statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Hold C-104 For OJO ALAMO USL (2)

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Handwritten: Hall 10/11/91
NSH
RECEIVED
BLM
Well No. 8
PH 2:39
RIO ARriba
STON, N.M.

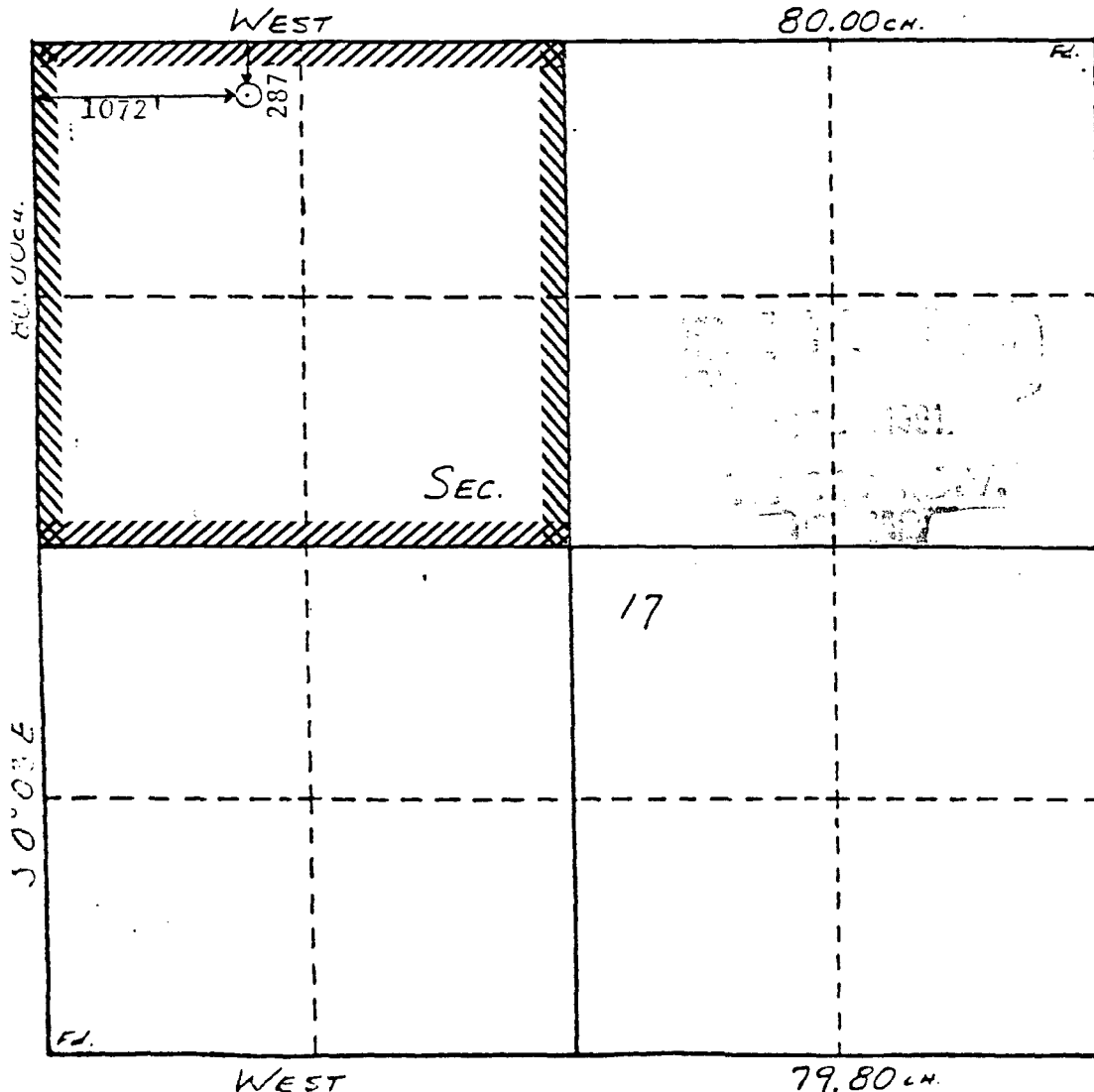
Operator ROBERT L. BAYLESS		Lease JICARILLA 459		BLM	Well No. 8
Unit Letter C	Section 17	Township 30 N	Range 3 W	County RIO ARriba	
Actual Footage Location of Well: 287 feet from the North line and 1072 feet from the West line					
Ground Level Elev. 7094	Producing Formation Ojo Alamo	Pool Undesignated Ojo Alamo		Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name
Price M. Bayless
Position
Engineer
Company
Robert L. Bayless
Date
10/14/91

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

4-28-UR
Date Surveyed
WILLIAM E. MAHAKE II
Registered Professional Engineer
and Land Surveyor
#8466
Certificate #160 PROFESSIONAL LAND SURVEYOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OIL CONSERVATION

SUBMIT IN DUPLICATE*

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *9

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

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499

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

At surface 287' FNL & 1072' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

10/22/88

16. DATE T.D. REACHED

10/27/88

17. DATE COMPL. (Ready to prod.)

11/29/90

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

7074' GL; 7086' RKB

20. TOTAL DEPTH, MD & TVD

4075'

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

3300' bridge plug

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

O-TD

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

Undesignated Ojo Alamo 3146' - 3247'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IEL - CNL - FDC - CR - CLL

27. WAS WELL CORED

No

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"	24.0 #/ft	132' KB	12 1/4"	150 sx (177 ft ³) Class B	w/3% CaCl ₂
4 1/2"	10.5 #/ft	4048' KB	7 7/8"	300 sx (618 ft ³) Class B	w/2% Econolite,
				1/4# flocele/sx; 175 sx	(221 ft ³) 50/50
				pozmix w/2% gel, 10% salt	& 1/4# flocele/

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	3103	3103

31. PERFORATION RECORD (Interval, size and number)

3124-3136 12' 12 holes
3139-3146 7' 7 holes
3164-3168 4' 4 holes
3188-3204 16' 16 holes
3211-3222 11' 11 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3146-3247	31,900 gal. 70 quality foam with 13,900 lbs. 12-20 sand.

33.* 50' 50 holes PRODUCTION

DATE FIRST PRODUCTION 11/29/90 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing WELL STATUS (Producing or shut-in) shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/17/90	3 hrs.	3/4	→	-0-	186	-0-	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
80 psi	SI tubing	→	-0-	1485	-0-	N/A	

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

vented - 1527 MCFD AOF

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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

SIGNED

Kevin H. McGord

TITLE Petroleum Engineer

DATE 10/2/91

*(See Instructions and Spaces for Additional Data 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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3117	3343	natural gas	Ojo Alamo	3117	same
Kirtland	3343	3622	water	Kirtland	3343	same
Fruitland Coal	3622	3663	water, natural gas	Fruitland Coal	3622	same
Pictured Cliffs	3663	4075	natural gas	Pictured Cliffs	3663	same

38. GEOLOGIC MARKERS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on the
reverse side)

Form approved
Budget Bureau No. 1004-2
Expiring August 31, 1985
LEASE DESTINATION AND SERIAL

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
Robert L. Bayless

3. ADDRESS OF OPERATOR
P.O. Box 168, Farmington, NM 87499

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

287' FNL & 1072' FWL

14. PERMIT NO.

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

7074' GL; 7086' RKB

Jicarilla Contract 45

INDIAN, ALLOTTEE OR TRIBE

Jicarilla Apache Trib

UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla 459

9. WELL NO.

8

10. FIELD AND POOL OR WILDCAT

Undes. Ojo Alamo

11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA

Section 17, T30N, R3

12. COUNTY OR PARISH 13. STATE

Rio Arriba NM

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 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 a
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones per-
nent to this work.) *

See Attached Report

RECEIVED

FEB 11 1991

OIL CON. DIV.
DIST. 2

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

SIGNED

Kevin H. McCord

(This space for Federal or State office use)

TITLE Petroleum Engineer

DATE 11-30-90

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*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.

AMCDD

ROBERT L. BAYLESS

P. O. BOX 168
FARMINGTON, NM 87499

FAX NO
(505) 326-6911

OFFICE
(505) 326

JICARILLA 459 #8 OJO ALAMO COMPLETION

11-15-90 Move Bayless #4 to location and rig up. Rig down test se and move off location.

11-16-90 Blow well down. Take off wellhead and nipple up BOP. Un packer. Trip in hole 5 jts. to clear perfs. Lay 5 jts. down. Rig up Western Co. Roll hole with 2% KCL water. R rate test on Ojo Alamo. Run pump in, shut in test. Start hole. Step rate pumped as follows:

<u>RATE, BPM</u>	<u>TOTAL BBLS</u>	<u>TUBING PRESSU</u>
.25	-	740
.5	10	850
.75	8	930
1	6	970
1.5	9	1050
2.0	9	1120
3.0	16	1280
4.0	17	1560
5.0	9	1790
7.0	42	2410
8.8	44	3050

Pumped additional 25 bbls for total of 196 bbls. ISDP 100
Pumped Pump-in test at 9.3 BPM and 3300 PSI, pumped 90 bbls
1100 PSI.

11-17-90 Trip out of hole with tubing. Rig up Western Company to fr
4 1/2" casing with 70% Nitrogen foam and 12-20 sand at 15

Pumped 8820 gal. foam pad at 2030 PSI. Shut down with tur
failure. Close Rams. Wait 65 minutes on turbine.

Restart pad at 15.8 BPM pumped 10080 gallons foam pad at 21
Pump 1 PPG 12-20 SN in 70% foam. Pumped 10,000 gallons with
12-20 sand total for stage.

Pump 2 PPG 12-20 SN in 70% foam. Pumped 3,000 gallons with
12-20 SN. Pressure increased from 2430 to 3280 PSI and sc
out. Pumped total of 13,900# sand, leaving about 4000# in c
ISDP 3200 PSI; 5 minutes 2890 PSI; 10 minutes 2740 PSI; 15 r
2640 PSI. Pumped total of 13,900# SN, 31,900 gallons foam
357,860 SCF Nitrogen.

Shut well in for 3 hours. Rig up flow line to burn pit w
tapped bullplug in end. Flow well to pit with dry watchma
overnight. Stimulation cost includes step rate and pump in

- 11-18-90 Dry watch well while blowing back.
- 11-19-90 Dry watch well while blowing back. shut well in.
- 11-20-90 Casing pressure at 930 PSI. Blow well down and kill well. Trip in hole with 96 joints of 2 3/8" tubing. Pick up 6 joints to clean out sand. Tag sand at 3136 ft. KB. Clean out to 3250 ft. KB. Lay down 6 jts. of tubing. Land well in BOP. Shut well in.
- 11-21-90 Begin swabbing with casing at 930 PSI, tubing at 0 PSI. Swab 100 bbls. to pit. Kick well off at 2:00 p.m. Making too much water to flare. Casing pressure at 170 PSI and building.
- 11-23-90 Casing pressure at 1100 PSI, tubing pressure at 1100 PSI. Rig test separator. Flow well to burn pit all day, recovering load. Shut well in overnight.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on the
reverse side)

Project Record No. 1004-1
Expires August 1, 1985
LEASE DESIGNATION AND SERIAL

SUNDRY NOTICES AND REPORTS ON WELLS

OIL CONSERVATION DIVISION

(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.)

RECEIVED

Jicarilla Contract 45

Jicarilla Apache Trail

'91 FEB 18 AM 9 57

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499

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

287' FNL & 1072' FWL

8. FARM OR LEASE NAME

Jicarilla 459

9. WELL NO.

8

10. FIELD AND POOL OR WILDCAT

Undes. Ojo Alamo

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

Section 17, T30N, R30E

14. PERMIT NO.

15. ELEVATIONS (Show whether DE, RL, GR, etc.)

7074' GL; 7086' RKB

12. COUNTY OR PARISH

Rio Arriba

13. STATE
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

(Other) Flow Test Well

X

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 forms.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting a 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.)

Bayless plans to flow test well for seven days, starting 12/3/90. The gas will be flared at rates less than 200 MCFD. This test is in accordance with NTL-4A, (initial Production Tests).

RECEIVED

FEB 11 1991

OIL CON. DIV
DIST. 2

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

SIGNED

Kevin H. McCord

TITLE Petroleum Engineer

DATE 11-30-90

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

DATE

JAN 11 1991

*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

EXPIRES AUGUST 31, 1985
LEASE DESIGNATION AND SERIAL

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.)

RECEIVED
DIVISION

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR
Robert L. Bayless
3. ADDRESS OF OPERATOR
P.O. Box 168, Farmington, NM 87499
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
287' FNL & 1072' FWL
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RL, GR, etc.)
7074' GL; 7086' RKB

Jicarilla Contract 459
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache Tribe
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Jicarilla 459
9. WELL NO.
8
10. FIELD AND POOL OR WILDCAT
Undes. Ojo Alamo
11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA
Section 17, T30N, R3W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
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 COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Swab test

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 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.)

We Propose setting a bridge plug above Pictured Cliffs perforations and perforating the Ojo Alamo from 3124 ft. to 3222 ft. We will then acidize perforations with 250 gallons 7 1/2% HCL acid and swab test for evaluation. The Pictured Cliffs formation will be temporarily shut in from production for testing the Ojo Alamo formation.

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

SIGNED

Price M. Bayless

TITLE Engineer

DATE 7-30-90

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

AUG 13 1990

Ken Townsend
FOR AREA MANAGER

*See Instructions on Reverse Side
NMCD

OIL CONSERVATION DIVISION

Hobbs
P.O. Box 1980
Hobbs, NM 88240

Artesia
P.O. Drawer DD
Artesia, NM 88210

Aztec
1000 Rio Brazos
Aztec, NM 87410

NOTICE OF GAS WELL - CONNECTION / RECONNECTION / DISCONNECTION

This is to notify the Oil Conservation Division of the following:

Connection X First Delivery 1/27/89 1341 MCFD
Date Initial Potential

Reconnection First Delivery
Date Initial Potential

Disconnection

for delivery of gas from the Robert L. Bayless
Operator

 Jicarilla 459
Lease

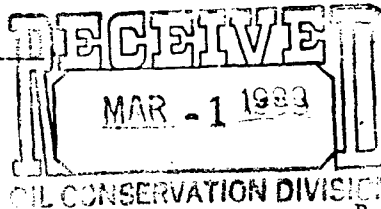
Meter Code Site Code Well No. 8 Unit Letter C Sec. 17-T30N-R3W
S-T-R

 East Blanco Pictured Cliffs
Pool

was made on 1/27/89
date

 1662 MCFD
AOF

 3/4"
Choke



 Robert L. Bayless
Transporter

OCD use only

County LA

Land Type J

Liq. Transporter @

 Robert L. Bayless, Operator
Representative Name/Title
(Please type or print)

 [Signature]
Representative Signature

Submit in duplicate to the appropriate district office.

OIL CONSERVATION DIVISION

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

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Robert L. Bayless	Well A.P.I. No. 30-039-24305
Address P.O. Box 168, Farmington, NM 87499	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Jicarilla 459	Well No. 8	Pool Name, Including Formation East Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee	Lease No. Jic.Cont. 459
Location Indian				
Unit Letter C : 287 Feet From The north Line and 1072 Feet From The west Line				
Section 17 Township 30N Range 3W, NMPM, Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Robert L. Bayless	P.O. Box 168, Farmington, NM 87499					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When?
					yes	1/27/89

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 10/22/88	Date Compl. Ready to Prod. 1/20/89		Total Depth 4075'		P.B.T.D. 3949'			
Elevations (DF, RKB, RT, GR, etc.) 7074' GL 7086' RKB	Name of Producing Formation Pictured Cliffs		Top Oil/Gas Pay 3670'		Tubing Depth 3700'			
Perforations Pictured Cliffs 3670' - 3729'					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	8 5/8"		132'		150 sx Class B (177 ft ³)			
7 7/8"	4 1/2"		4048'		300 sx Class B (618 ft ³)			
					7 281			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)			
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 1586	Length of Test 3 hrs.	Bbls. Condensate/MMCF -0-	Gravity of Condensate N/A
Testing Method (pilot, back pr.) Back Pressure Test	Tubing Pressure (Shut-in) 1080	Casing Pressure (Shut-in) 1085	Choke Size 3/4"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Kevin H. McCord
Printed Name
Date 2/3/89
Petroleum Engineer
Title
505/326-2659
Telephone No.

OIL CONSERVATION DIVISION

Date Approved FEB 06 1989

By Charles Holson

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1A. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>				Jicarilla Apache Tribe			
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVR <input type="checkbox"/>				7. UNIT AGREEMENT NAME			
2. NAME OF OPERATOR Robert L. Bayless				8. FARM OR LEASE NAME Jicarilla 459			
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499				9. WELL NO. 8			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 287' FNL & 1072' FWL				10. FIELD AND POOL, OR WILDCAT East Blanco Pictured Cliffs			
At top prod. interval reported below same				11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Section 17, T30N, R3W			
At total depth same				12. COUNTY OR PARISH Rio Arriba			
14. PERMIT NO.				13. STATE NM			
15. DATE STUDDERED 10/22/88				19. ELEV. CASINGHEAD 7074' GL 7086' RKB			
16. DATE T.D. REACHED 10/27/88				17. DATE COMPL. (Ready to prod.) 1/20/89			
20. TOTAL DEPTH, MD & TVD 4075'				21. PLUG BACK T.D., MD & TVD 3949'			
22. IF MULTIPLE COMPL. HOW MANY*				23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Pictured Cliffs 3670' - 3729'				25. WAS DIRECTIONAL SURVEY MADE No			
26. TYPE ELECTRIC AND OTHER LOGS RUN IEL - CNL - FDC - GR - CLL				27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8 5/8"		24.0#/ft		132' KB		12 1/4"	
4 1/2"		10.5#/ft		4048' KB		7 7/8"	
				AMOUNT PULLED			
				w/3% CaCl ₂			
				w/2% Econolite,			
				1/4# flocele/sx; 175 sx (221 ft ³) 50/50			
				pozmix w/2% gel, 10% salt & 1/4# flocele/sx			
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
1 1/2"		3700'		none			
31. PERFORATION RECORD (Interval, size and number)							
Pic. Cliffs w 3-1/8" gun - 2 JSPF							
3670-3682 - 25 holes							
3684-3690 - 13 holes							
3692-3700 - 17 holes							
3702-3704 - 5 holes (.34" diameter)							
3707-3709 - 5 holes							
3718-3729 - 23 holes							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
3670-3729				500 gal. 7 1/2% DI HCL acid w/132			
				1.1 s.g. RCN ball sealers;			
				75,000 gal. 70 quality foam			
				w/100,000# 20-40 sand			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
1/27/89		flowing				producing	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
1/27/89		3		3/4"		OIL—BBL. 198	
FLOW. TUBING PRESS.		CASINO PRESSURE		CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
90		1085		—0—		N/A	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
vented							
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.							
SIGNED		TITLE		DATE			
Kevin H. McCord		Petroleum Engineer		2/3/89			

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

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37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3117	3343	water	Ojo Alamo	3117	same
Kirtland	3343	3622	water	Kirtland	3343	same
Fruitland Coal	3622	3663	water, natural gas	Fruitland Coal	3622	same
Pictured Cliffs	3663	4075	natural gas	Pictured Cliffs	3663	same

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 1/27/89		FEB 15 1989							
Company Robert L. Bayless			Connection Robert L. Bayless								
Pool East Blanco Pictured Cliffs			Formation E. Blanco Pictured Cliffs		Unit CONSERVATION						
Completion Date 1/20/89		Total Depth 4075'		Plug back TD 3949'							
Elevation 7086' RKB		Form or Lease Name Jicarilla 459		Well No. 8							
Csg. Size 4 1/2"		WT. 10.5#		d 4.052							
Set AI 4048'		Perforations: From 3670' To 3729'		Well No. 8							
Trq. Size 1 1/2"		WT. 2.9#		d 1.610							
Set AI 3700'		Perforations: From To		Unit Sec. Twp. Rye. 17 30N 3W							
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single				Packer Set AI none							
Producing Thru tubing				County Rio Arriba							
Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g 12.0 (est)							
State New Mexico		L H		Cg .65 (est)							
% CO ₂		% N ₂		% H ₂ S							
Prover		Meter Run		Taps							
FLOW DATA											
TUBING DATA											
CASING DATA											
Duration of Flow											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	7 days						1080		1085		
1.	2 inch x .750						90	60°	242		3 hrs.
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		102	1.000	1.240	1.014	1586				
2.											
3.											
4.											
5.											
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.152		1.39	.973	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.					Specific Gravity Separator Gas _____ X X X X X X X X						
3.					Specific Gravity Flowing Fluid _____ X X X X X						
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature _____ R _____ R						
P _c 1097 P _w 1,203,409					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0566$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0480$						
NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1662$						
1		254	64,516	1,138,898							
2											
3											
4											
5											
Absolute Open Flow 1662 Mcfd @ 15.025					Angle of Slope @ _____					Slope, n 85	
Remarks: slight mist of water throughout test											
Approved By Division			Conducted By: David Ball			Calculated By: Kevin H. McCord			Checked By:		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(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 checked="" type="checkbox"/> OTHER	3. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 459
2. NAME OF OPERATOR Robert L. Bayless	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Tribe
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499	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 287' FNL & 1072' FWL	8. FARM OR LEASE NAME Jicarilla 459
14. PERMIT NO.	9. WELL NO. 8
15. ELEVATIONS (Show whether OF, ST, GR, etc.) 7074' GL 7086' RKB	10. FIELD AND POOL, OR WILDCAT East Blanco P.C.
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 17, T30N, R3W
	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

18. 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) Cement bond log ☒

(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.) *

Cement bond log performed on 10/28/88 showing top of cement at 1050'. (Log attached)

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

SIGNED

Kevin H. McCord
Kevin H. McCord

TITLE Petroleum Engineer

DATE 11/8/88

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

NOV 10 1988

FARMINGTON RESOURCE AREA

BY KH

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(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. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	3. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 459
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14. PERMIT NO.	9. WELL NO. 8
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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*

Cement longstring
(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 DAILY REPORTS (10/24/88 thru 10/28/88).

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

SIGNED

Kevin H. McCord

TITLE

Petroleum Engineer

DATE

10/28/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NW000

*See Instructions on Reverse Side

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #8
Section 17, T30N, R3W
287' FNL & 1072' FWL
Rio Arriba County, New Mexico

DAILY REPORT

- 10/23/88 Spud well at 3:00 PM on 10/22/88. Drilled 137' of 12 1/4" surface hole. Ran 3 its. of 8 5/8" 24#/ft surface casing (119.24 ft.) and set at 132' RKB. Rigged up Cementers, Inc. Cemented surface with 150 sx of Class B cement with 3% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 8:15 PM on 10/22/88. Wait on cement 6 hours. Nipple up and test BOP. Drill cement.
- 10/24/88 Drilling ahead at 1900'.
- 10/25/88 Drilling ahead at 2766'.
- 10/26/88 Drilling ahead at 3466'.
- 10/27/88 TD well at 5:45 AM on 10/27/88. Circulate and condition hole for logs.
- 10/28/88 Circulate and condition hole for logs. Short trip (25 stands). Circulate on bottom for 1 3/4 hrs. (wait on loggers). Trip out of hole for logs. Rigged up Welex. Ran IEL, CNL, FDC logs from TD of 4072 ft. Trip in hole with drillpipe. Lay down drillpipe and collars. Ran 95 jts. of 4 1/2" 10.5#/ft J-55 new casing (Domestic-Maverick) as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	12.00	0- 12
94 jts. 4 1/2" 10.5#/ft J-55 new casing (Domestic-Maverick)	3991.04	12-4003
1 DFFC	1.65	4003-4005
1 jt. 4 1/2" 10.5#/ft casing	42.70	4005-4047
1 cement filled guide shoe	.85	4047-4048
	4048.24	

Centralizers at 4026, 3961, 3748, 3706, 3663 and 3588. Rigged up Halliburton. Cemented longstring with 300 sx (618 ft³) of Class B cement with 2% Econolite and 1/4# flocele/sx, tailed by 175 sx (221 ft³) of 50/50 pozmix with 2% gel, 10% salt and 1/4# flocele/sx. Good circulation throughout job. Did not bump plug. Float held. Plug down at 6:00 AM on 10/28/88. Released rig. Wait on completion.

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

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 checked="" type="checkbox"/> OTHER	3. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 459
2. NAME OF OPERATOR Robert L. Bayless	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Tribe
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499	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 287' FNL & 1072' FWL	8. FARM OR LEASE NAME Jicarilla 459
14. PERMIT NO.	9. WELL NO. 8
15. ELEVATIONS (Show whether OF, RT, GL, etc.) 7074' GL 7086' RKB	10. FIELD AND POOL, OR WILDCAT East Blanco P.C.
	11. SEC., T., R., M., OR BLM, AND SURVEY OR AREA Section 17, T30N, R3W
	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACURE TREAT

MULTIPLE COMPLETE

FRACURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Spud notice: cement casing

(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 DAILY REPORT 10/23/88.

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

SIGNED

Kevin H. McCord

TITLE

Petroleum Engineer

DATE

10/25/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMCCC

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.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #8
Section 17, T30N, R3W
287' FNL & 1072' FWL
Rio Arriba County, New Mexico

RECEIVED
OIL FIELD ROOM
88 OCT 25 PM 1:57
FARMINGTON RESERVE AREA
FARMINGTON, NEW MEXICO

DAILY REPORT

10/23/88 Spud well at 3:00 PM on 10/22/88. Drilled 137' of 12 1/4" surface hole. Ran 3 jts. of 8 5/8" 24#/ft surface casing (119.24 ft.) and set at 132' RKB. Rigged up Cementers, Inc. Cemented surface with 150 sx of Class B cement with 3% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 8:15 PM on 10/22/88. Wait on cement 6 hours. Nipple up and test BOP. Drill cement.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒ AMENDED DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

(To replace original APD submitted 5/16/88)

OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499

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

At surface 287' FNL & 1072' FWL

At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

7074' GL 7086' RKB

16. NO. OF ACRES IN LEASE
Approx. 2267

irregular sections

19. PROPOSED DEPTH

4075'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

0 - TD

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

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

23. GENERAL REQUIREMENTS
PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7-5/8"	26.4#	125'	60 sx Class B - 71 ft ³
6-3/4"	4-1/2"	11.6#	4075'	200 sx 50/50 pozmix - 252 ft ³

Will drill hole to 125' and set 125 ft. of 7-5/8" 26.4#/ft J-55 casing, cementing with 71 ft Class B cement, circulated to surface. Will drill 6-3/4" hole to 4075' and run 4075' of 4-1/2" 11.6#/ft J-55 casing and cement with 252 ft 50/50 pozmix with 2% gel and 10% salt. Circulating medium will be clear water, natural mud and water loss control additives. No abnormal pressures or temperatures are anticipated. Will run Induction and Density Logs. Blowout preventer schematic is attached. The gas from this formation is not dedicated to a gas contract.

ESTIMATED TOPS: Ojo Alamo - 3190'
Kirtland - 3417'
Fruitland - 3546'
Pictured Cliffs - 3749'
Lower P.C. - 3991'
Total Depth - 4075'

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Price M. Bayless

TITLE

Engineer

DATE

7/18/88

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NSL-2576

NMOCC

*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.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 24-11
Supersedes 1-128
Effective 1-1-6

All distances must be from the outer boundaries of the Section.

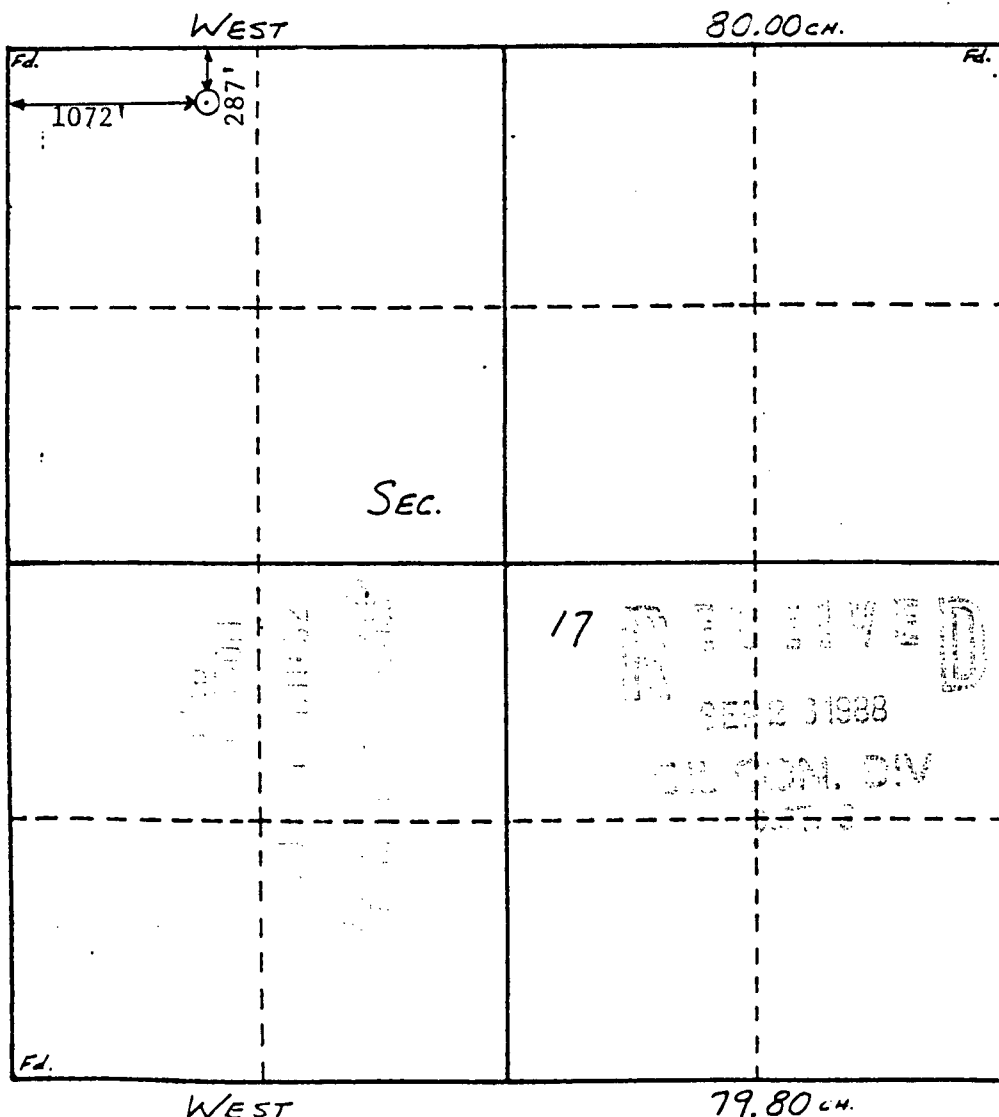
Operator ROBERT L. BAYLESS		Lease JICARILLA 459		Well No. 8
Unit Letter C	Section 17	Township 30 N	Range 3 W	County RIO ARRIBA
Actual Footage Location of Well:				
287 feet from the North line and		1072 feet from the West line		
Ground Level Elev. 7094.74	Producing Formation Pictured Cliffs	Pool E. BLANCO	Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	Kevin H. McCord
Position	Petroleum Engineer
Company	Robert L. Bayless
Date	July 20, 1988
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed	4-28-88
Surveyor	WILLIAM E. MAHNE II
Registered Professional Engineer and Land Surveyor	#8466
Certificate No.	PROBATION