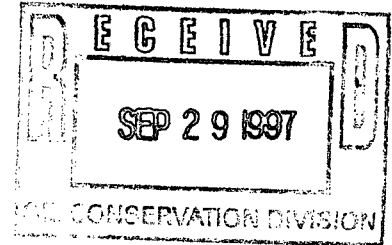


Mallon Oil Company

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. 5
Sec. 19, 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.

In August 1997, Mallon Oil Company temporarily abandoned the Pictured Cliffs formation and recompleted the well in the Ojo Alamo formation which is 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 for the Ojo Alamo formation.

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

* API Number 30-039-24344		* Pool Code 96538	* Pool Name Ojo Alamo
* Property Code 20465	* Property Name Jicarilla 459		* Well Number 5
* OGRID No. 013925	* Operator Name Mallon Oil Company		* Elevation 7262' GL

¹⁰ Surface Location


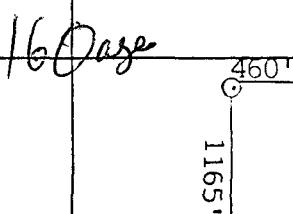
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	30N	03W		1165	South	460	East	Rio Arriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	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
--------------------------------------	------------------------------------	---	--------------------------------

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 (2) 44.01 (1) 44.01	(2) 43.38 (2) 43.38			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Theresa A. McAndrews Printed Name Office Manager Title 9/26/97 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 Surveyor:  Certificate Number		



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

May 18, 1988

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

Attention: Kevin H. McCord

Administrative Order NSL-2518

Dear Mr. McCord:

Reference is made to your application for a non-standard location for your Jicarilla "459" Well No. 5 to be located 1165 feet from the South line and 460 feet from the East line (Unit P) of Section 19, Township 30 North, Range 3 West, NMPM, Wildcat Pictured Cliffs Pool, Rio Arriba County, New Mexico. The SE/4 of said Section 19 shall be dedicated to the well.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "William J. LeMay".

WILLIAM J. LeMay,
Director

WJL/DRC/ag

cc: Oil Conservation Division - Aztec

Mallon Oil Company

Denver/Colorado ♦ Carlsbad/New Mexico

a Mallon Resources Subsidiary

Facsimile Transmission Cover Page

Date: 10/1/97 Time: _____ Mountain Standard TimeTo: Life HognerCompany Name: Wild Conservation Div.Fax Number: (505) 827-1389From: Greg Lindemann at Mallon, Carlsbad, New Mexico, USANumber of pages including this Cover Page: 4

Report any problems receiving this transmission to Mallon @ (505) 885-4596

Message:

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.

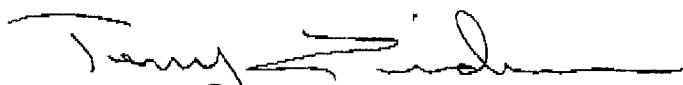
Jicarilla 459 No. 3
Sec. 18, T30N-R3W
Rio Arriba County, New Mexico
NSL: 2575

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.

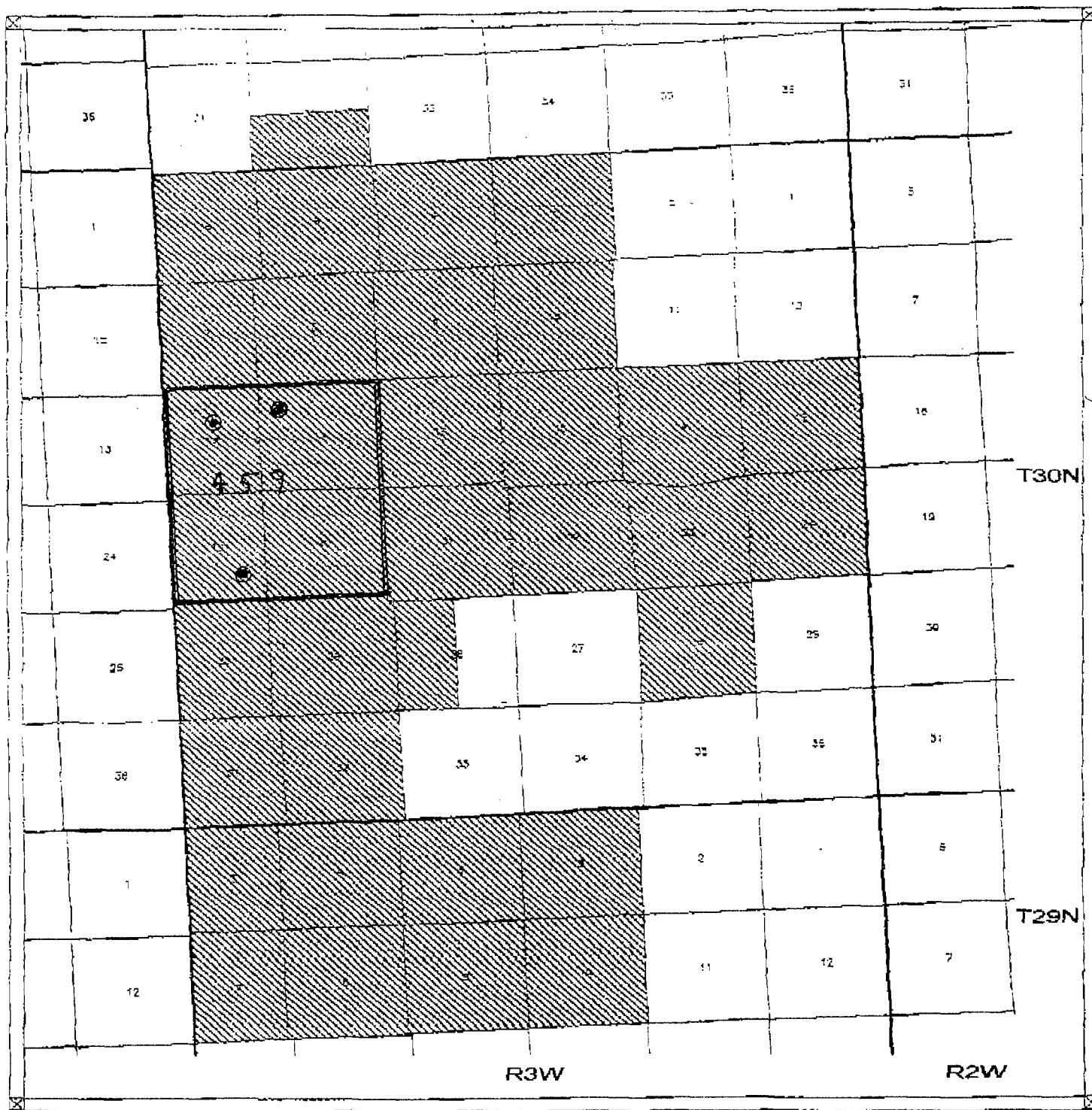
Sincerely,

MALLON OIL COMPANY



Terry Lindeman
Exploration/Production Superintendent

Enclosures



Scale 1:76000

0 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

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 30-039-24344	5. Pool Name E. Blanco, Pictured Cliffs	6. Pool Code 72400
7. Property Code 001849-30765	8. Property Name Jicarilla 459	8. Well Number 5

II. 10. Surface Location

UL or lot no. P	Section 19	Township 30N	Range 3W	Lot Idn. N/A	Feet From the 1165	North/South Line South	Feet From the 460	East/West Line East	County Rio Arriba County
---------------------------	----------------------	------------------------	--------------------	------------------------	------------------------------	----------------------------------	-----------------------------	-------------------------------	------------------------------------

11. Bottom Hole Location

UL or lot no. P	Section 19	Township 30N	Range 3W	Lot Idn. N/A	Feet From the 1165	North/South Line South	Feet From the 460	East/West Line East	County Rio Arriba County
12. Lse Code F	13. Producing Method Code F	14. Gas Connection Date 05/15/90	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 0521830	21. O/G G	22. POD ULSTR Location and Description P-19-30N-3W

IV. Produced Water

23. POD	24. POD ULSTR Location and Description P-19-30N-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. AOP	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:

Title: **37.8
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

Kevin H. McQuinn

Title

Res. Engineer

Date

2/13/97

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 API No. 30-039-24344
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 checked="" 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. 5	Pool Name, Including Formation East Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee	Lease No. Jic. Cont. 459
Location Unit Letter <u>P</u> : <u>1165</u> Feet From The <u>north</u> Line and <u>460</u> Feet From The <u>east</u> Line Section <u>19</u> Township <u>30</u> Range <u>3</u> , NMPM, Rio Arriba County NM				

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, Farmingotn, NM 87499					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twsp.	Rge.	Is gas actually connected?	When?
					No	Approx. 5/15/90

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 12-9-88	Date Compl. Ready to Prod. 4-13-90		Total Depth 4250'		P.B.T.D. 4115'			
Elevations (DF, RKB, RT, GR, etc.) 7262' GL 7274' RKB	Name of Producing Formation Pictured Cliffs		Top Oil/Gas Pay 3847		Tubing Depth 3909			
Perforations 3847-3926					Depth Casing Shoe 4189			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	8 5/8"		138		120 sx Class B (142 ft ³)			
7 7/8"	5 1/2"		4189		200 sx Class B (412 ft ³)			
	2 3/8"		3909					

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
		MAY 04 1990	

GAS WELL

Actual Prod. Test - MCF/D 173 1384	Length of Test 3 hrs.	Bbls. Condensate/MMCF -0-	Gravity of Condensate -0-
Testing Method (pilot, back pr.) back pressure	Tubing Pressure (Shut-in) 801	Casing Pressure (Shut-in) 801	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 Kevin McCord Title Petroleum Engineer
Date 5-2-90 Telephone No. 505-326-2659

OIL CON. DIV.

OIL CONSERVATION DIVISION

Date Approved MAY 29 1990
By [Signature]
Title MANAGER DISTRICT 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT DIVISION

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ DATE 11-9-90

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ 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 1165' FSL & 460' FEL

At top prod. interval reported below Same

At total depth Same

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

14. PERMIT NO.

DATE ISSUED

30-039-24344

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla 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.

5

10. FIELD AND POOL, OR WILDCAT

East Blanco P.C.

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

Section 19, T30N, R3W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED

12-9-88

16. DATE T.D. REACHED

12-16-88

17. DATE COMPL. (Ready to prod.)

4-13-90

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

7262' GL 7274' RKB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4250' KB

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

4115

22. IF MULTIPLE COMPLETIONS, HOW MANY?

1

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - TD

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

Pictured Cliffs 3847 - 3936

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IEL; CNL; FDC

OIL CON. DIV.

27. WAS WELL CORED

Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.0 #/ft	138' KB	12 1/4"	120 sx (142 ft ³) Class B w/2% CaCl ₂	
5 1/2"	17.0 #/ft	4189' KB	7 7/8"	200 sx (412 ft ³) Class B w/2% econofill	
				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*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	3909'	none

31. PERFORATION RECORD (Interval, size and number)

Perforate Pictured Cliffs w/4" casing 2JSPF
3847-3851 - 9 holes 3932-3936 - 9 holes
3864-3888 -49 holes (.50" diameter)
3850-3899 -19 holes
3908-3917 -19 holes
3921-3926 -11 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3847-3936	250 gal. 7 1/2% DI HCL Acid w/174 1.1 S.G. RCN ball sealers 78,749 gal. w/100,000 #20-40 mesh sand

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4-26-90		flowing				shut-in waiting on completion	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/26/90	3	3/4"	→	-0-	173	-0-	-0-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
77	801	→	-0-	1384	-0-	-0-	

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

vented

TEST WITNESSED BY
ACCEPTED FOR RECORD
David Ball

35. LIST OF ATTACHMENTS

NMOCD

MAY 17 1990

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

FARMINGTON RESOURCE AREA

SIGNED

Kevin H. McCord

TITLE Petroleum Engineer

BY

DATE 5-2-90

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

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.
Ojo Alamo	3308	3537	Natural Gas, Water
Kirtland	3537	3803	Water
Fruitland Coal	3803	3876	Natural Gas, Water
Pictured Cliff	3846	4126	Natural Gas
Core 1	3803.5	3833	Shale, Coal
Core 2	3833	3842	Sandstone, Shale, Coal
Core 3	3842	3872	Shale, Coal, Sandstone
Core 4	3872	3932	Sandstone, Shale

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3308	Same
Kirtland	3537	
Fruitland Coal	3803	
Pictured Cliffs	3846	

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 4/26/90		OIL CON. DIV.	
Company Robert L. Bayless		Connection Robert L. Bayless			
Pool East Blanco Pictured Cliffs		Formation Pictured Cliffs		Unit	
Completion Date 4/13/90		Total Depth 4250		Plug back TD 4115	
Elevation 7262 GL		Farm or Lease Name Jicarilla 459		Well No. 5	
Csg. Size 5.500	Wt. 17.0	d 4.892	Set At 4189	Perforations: From 3847 To 3936	
Trg. Size 2.375	Wt. 4.7	d 1.995	Set At 3909	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple gas-single				Packer Set At none	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F	
Baro. Press. - P _a 12.0 (est)		State New Mexico		County Rio Arriba	
L	H	G _g .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.	
SI	13 days						801		801	
1.	2 inch x .750						77	60°	170	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		89	1.000	1.240	1.014	1384.
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.133		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 813	P _c ² 660,969	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0528$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0447$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		182	33,124	627,845
2				
3				
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1446$

Absolute Open Flow 1446 Mcfd @ 15.025

Angle of Slope θ _____

Slope, n .85

Remarks: very little water flow - no sand.

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 TRIPLICATE*
(Other instructions on reverse side)

Expires August 31, 1985

3. LEASE DESIGNATION AND SERIAL NO.

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.

5

10. FIELD AND POOL, OR WILDCAT

East Blanco P.C.

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

Sec. 19, T30N, R3W

12. COUNTY OR PARISH 13. STATE

Rio Arriba NM

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or (in 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 1165' FSL & 460' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, BT, GR, ETC.)

7262' GL 7274' RKB

16.

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 ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETION ☐

FRACTURE TREATMENT ☐

ALTERING CASING ☐

SHOOT OR ACIDIZE ☐

ABANDON* ☐

SHOOTING OR ACIDIZING ☐

ABANDONMENT* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

(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.)*

On 3/26/90 a bond log was run to confirm cement top @ 2000 ft. On 4/2/90 squeeze holes were shot @ 1950 ft. Could not establish circulation to surface. Following cement was pumped:

1st Stage: 25 sx Class B w/2% CaCl, .6% fluid loss
2nd Stage: 230 sx Class B w/2% Econolite
3rd Stage: 75 sx Class B w/2%

No returns throughout job.

On 4/9/90 ran CBL. Found cement top @ approximately 300 ft. below ground level. (Bond logs of 3/26/90 and 4/9/90 sent under separate cover by Huskey Wireline Services, Inc.)

ACCEPTED FOR RECORD

APR 19 1990

FARMINGTON RESOURCE AREA

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

BY

SIGNED

Price M. Bayless

TITLE Engineer

DATE 4/11/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMCOO

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.)

3. LEASE DESIGNATION AND SERIAL NO.

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.

5

10. FIELD AND POOL, OR WILDCAT

East Blanco P.C.

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

Sec. 19, T30N, R3W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

NM

1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Robert L. Rayless

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 1165' FSL & 460' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether OP, RT, CR, etc.)

7262' GL 7274' RKB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Cement bond log

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

Cement bond log performed on 12/18/88 showing top of cement at 2000'. (Log attached).

RECEIVED
OIL CON. DIV.
FARMINGTON, NEW MEXICO

60 DEC 22 AM 11:12

RECEIVED
JAN 09 1989
OIL CONSERVATION DIVISION
SANTA FE

RECEIVED
JAN 4 - 1989
OIL CON. DIV./
DIST. 2

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

SIGNED

Kevin H. McCord

TITLE Petroleum Engineer

DATE 12/21/88

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

DEC 30 1988

FARMINGTON RESOURCE AREA

*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.

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.)

3. LEASE DESIGNATION AND SERIAL NO.

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.

5

10. FIELD AND POOL, OR WILDCAT

East Blanco P.C.

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

Sec. 19, T30N, R3W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

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

1165' FSL & 460' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, CR, ETC.)

7262' GL 7274' RKB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZING

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Spud notice; cement casing

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

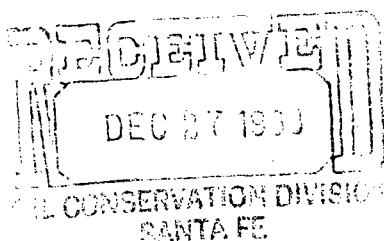
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED DAILY REPORT (12/10/88).

RECEIVED
BUREAU OF LAND MANAGEMENT

88 DEC 13 AM 10:31

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO



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

SIGNED

Kevin H. McCord

TITLE

Petroleum Engineer

DATE

12/12/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

ACCEPTED FOR RECORD

DEC 15 1988

FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

NMOCC

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 #5
Section 19, T30N, R3W
1165' FSL & 460' FEL
Rio Arriba County, New Mexico

DAILY REPORT

12/10/88 Spud well at 3:45 PM on 12/9/88. Drilled 143' of 12 1/4" surface hole. Ran 3 jts. of 8 5/8" 24#/ft J-55 casing (125.49 ft.) and landed at 138' RKB. Rigged up Cementers, Inc. Cemented surface with 120 sx (142 ft³) of Class B cement with 2% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 7:45 PM on 12/9/88. Wait on cement. Nipple up BOP. Drill 7 7/8" hole.

RECEIVED
BUM MAIL ROOM

86 DEC 13 AM 10:31

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

RECEIVED
DEC 13 1986
GAL

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. WELL <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 1165' FSL & 460' FEL	8. FARM OR LEASE NAME Jicarilla 459
14. PERMIT NO.	9. WELL NO. 5
15. ELEVATIONS (Show whether DP, ST, GL, etc.) 7262' GL 7274' RKB	10. FIELD AND POOL, OR WILDCAT East Blanco P.C.
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, 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:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Cement longstring

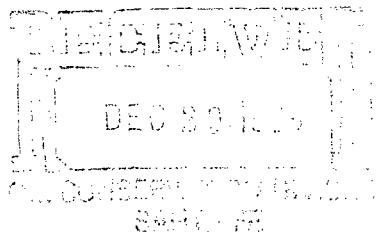
(Other)

(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 REPORTS (12/11/88 thru 12/18/88).

RECEIVED
B-L MAIL ROOM
88 DEC 20 AM 11:19
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO



RECEIVED
FARMINGTON RESOURCE AREA
FARMINGTON, NM

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

SIGNED

Kevin H. McCord

TITLE Petroleum Engineer

DATE 12/19/88

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE
ACCEPTED FOR RECORD

NMOCC

*See Instructions on Reverse Side

DEC 21 1988

FARMINGTON RESOURCE AREA

ROBERT L. BAYLESS

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

JICARILLA 459 #5
Section 19, T30N, R3W
1165' FSL & 460' FEL
Rio Arriba County, New Mexico

DAILY REPORT

- 12/10/88 Spud well at 3:45 PM on 12/9/88. Drilled 143' of 12 1/4" surface hole. Ran 3 jts. of 8 5/8" 24#/ft J-55 casing (125.49 ft.) and landed at 138' RKB. Rigged up Cementers, Inc. Cemented surface with 120 sx (142 ft³) of Class B cement with 2% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 7:45 PM on 12/9/88. Wait on cement. Nipple up BOP. Drill 7 7/8" hole.
- 12/11/88 Drilling ahead at 1891'.
- 12/12/88 Drilling ahead at 2674'.
- 12/13/88 Drilling ahead at 3161'.
- 12/14/88 Drilling ahead at 3803'. Trip for core barrel.
- 12/15/88 Trip in hole with core barrel. Core #1 @ 3803 1/2 - 3833. Lay down core. Recovered 26 1/2 ft. of core. Trip in hole with core barrel. Core #2 @ 3833 - 3842. Core jammed in core barrel. Quit coring. Lay down core. Recovered 9 ft. of core. Rabbit jammed in core barrel. Trip in hole with core barrel.
- 12/16/88 Trip in hole with core barrel. Core #3 @ 3842 - 3872. Lay down core. Recovered 30 ft. of core. Trip in hole with core barrel. Core #4 @ 3872 - 3932. Lay down core. Recovered 60 ft. of core. Trip in hole. Resume drilling.
- 12/17/88 TD well @ 4250' at 4:00 PM on 12/16/88. Circulate 1 hour. Short trip 10 stands. Trip out of hole for logs. Rigged up Welex. Ran IEL, CNL, FDC logs from TD of 4219' RKB. Trip in hole with drillpipe. Lay down drillpipe and collars.

ROBERT L. BAYLESS

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

Jicarilla 459 #5

DAILY REPORT

Page 2

12/18/88 Finish lay down drillpipe and collars. Run 5 1/2" casing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	12.00	0- 12
82 jts. 5 1/2" 17#/ft J-55 used casing	3007.83	12-3020
21 jts. 5 1/2" 17#/ft N-80 used casing	838.27	3020-3858
7 jts. 5 1/2" 17#/ft J-55 used casing	286.57	3858-4145
1 DFFC	1.85	4145-4146
1 jt. 5 1/2" 17#/ft J-55 used casing	41.25	4146-4188
1 guide shoe	.85	4188-4189
	4188.62	

Centralizers at 3777, 3818, 3858, 3899, 3939, 3980, 4019, and 4169. Rigged up Halliburton. Cemented longstring with 200 sx (412 ft³) of Class B cement with 2% econofill, tailed by 175 sx (221 ft³) of 50/50 pozmix with 2% gel, 10% salt and 1/4# flocele/sx. Good circulation throughout job. Bumped plug--held OK. Plug down at 12:00 noon on 12/17/88. Released rig. Wait on completion.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

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.)

At surface 1165' FSL & 460' FEL

At proposed prod. zone same

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

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

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

16. NO. OF ACRES IN LEASE
Approx. 2267
irregular sections

19. PROPOSED DEPTH
4260'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

0 - TD

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

7262' GL

7274' RKB

22. APPROX. DATE WORK WILL START*

5/15/88

23.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
9-7/8"	7-5/8"	26.4#	125'	60 sx Class "B" - 71 ft ³
6-3/4"	4-1/2"	11.6#	4260'	200 sx 50/50 pozmix - 252 ft ³

Will drill hole to 125' and set 125 feet of 7-5/8" 26.4#/ft J-55 casing, cementing with 71 ft³ Class "B" cement, circulated to surface. Will drill 6-3/4" hole to 4260' and run 4260' of 4-1/2" 11.6#/ft J-55 casing and cement with 252 ft³ 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 - 3321'
Kirtland - 3549'
Fruitland - 3569'
Pictured Cliffs - 3859'
Lower P.C. - 4108'
Total Depth - 4260'

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive one. 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.

SIGNED Kevin H. McCord

TITLE Petroleum Engineer

DATE 4/28/88

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE NOV 04 1988

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

AREA MANAGER

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 24-11
Supersedes 1-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

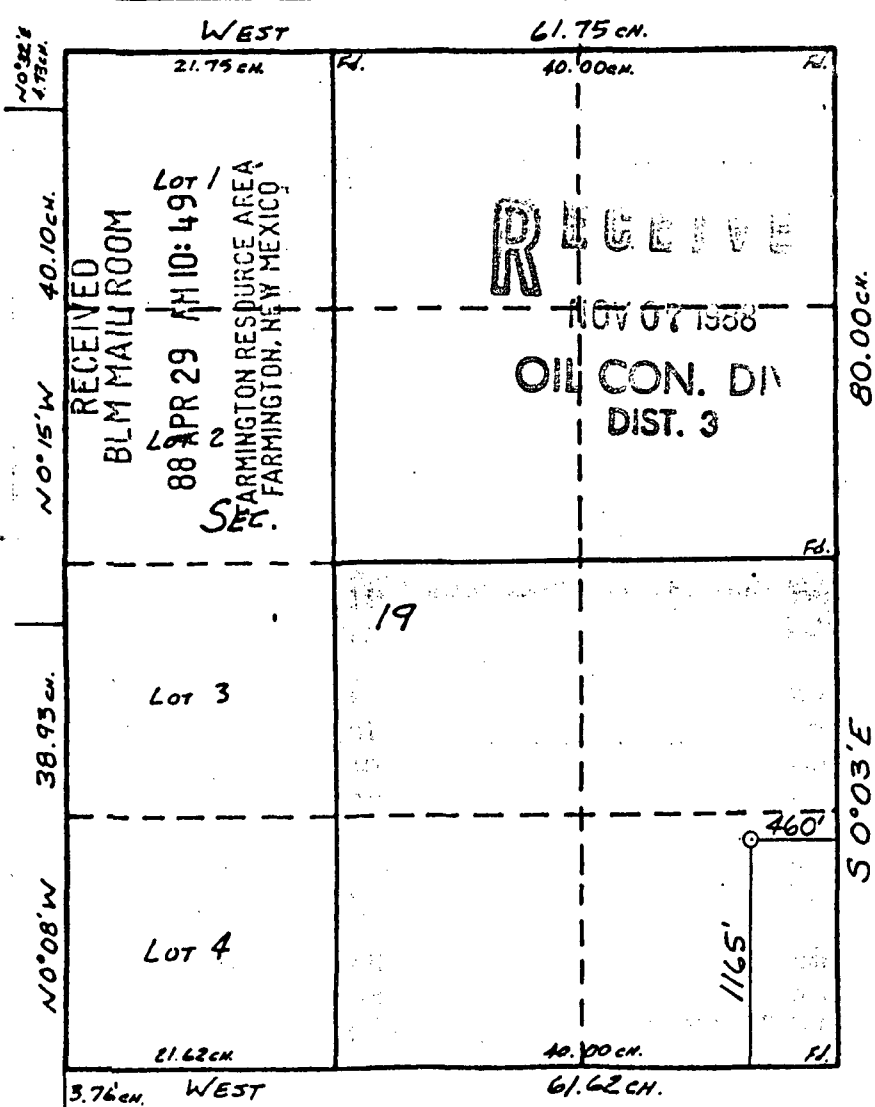
ROBERT L. BAYLESS			Lease JICARILLA 459		Well No. 5
Letter P	Section 19	Township 30 N	Range 3 W	County RIO ARRIBA	
Well Footage Location of Well: 1165 feet from the South line and 460 feet from the East line					
Well Level Elev: 7262	Producing Formation Pictured Cliffs	Pool EAST ISLAND	Dedicated Acreage: 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	
Position	
Company	
Date	NOV 25 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	1-7-88
Registered Professional Engineer and Land Surveyor	William E. Mahne II #8466
Certificate No.	8466