

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 ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Chace Oil Company, Inc.

3. ADDRESS OF OPERATOR

313 Washington SE, Albuquerque, NM 87108

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

At surface

782' FSL & 2189' FWL, Unit 'N', Section 11, T23N, R4W

At proposed prod. zone

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

15 miles west-southwest of Lindrith, New Mexico

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

2189' from lease line
451' from unit line

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

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

1410'

19. PROPOSED DEPTH

7625'

20. ROTARY OR CABLE TOOLS

Rotary

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

This action is subject to technical and

procedural review pursuant to 43 CFR 3165.3

7303' GR 7403

22. APPROX. DATE WORK WILL START*

6/30/90

23. PROPOSED CASING AND CEMENTING PROGRAM

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO CONDITIONS LISTED ATTACHED

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24# (J-55)	225'	170 sks (220 cf) Class B cement
6 7/8"	4 1/2"	11.6# (N-80)	7625'	1st stage: 850 sks (1200 cf) 50/50 pozmix
				2nd stage: 550 sks (1177 cf) 65/35 pozmix 50 sks (59 cf) class B cement

Drill 230' of 12 1/4" surface hole. Set 225' of 8 5/8" casing. Cement to surface with 170 sks (220 cf) cement. Using a water base mud and Schaeffer 5000# standard doublegate hydraulic BOP, drill 7 7/8" hole to 7625' to test the Dakota formation. Logging program: Run Dil, Caliper, GR, SP, FDC-CNL from TD to the surface. Casing program. (see attached page two)

Estimated tops:

Ojo Alamo	2655'	Point Lookout	5200'	Dakota "A"	7306'
Picutre Cliffs	3070'	Gallup	5900'	Dakota "D"	7446'
Chacra	3420'	Tocito	6912'	Burro Canyon	7550'
Cliff House	4620'	Greenhorn	7215'		

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

Frank Welker

Vice President Production

DATE

June 1, 1990

(This space for Federal or State office use)

Approval of this action does

not warrant that the applicant

PERMIT NO.

holds legal or equitable rights

AS AMPLIFIED BY

APPROVED BY

or title to this lease."

NOV 31 1990

CONDITIONS OF APPROVAL, IF ANY:

AREA MANAGER

NMOOD

*See Instructions On Reverse Side

Jicarilla Apache 47-21
Application for Permit to Drill
Page Two

Casing Program:

Run 7625' of 4 1/2", 11.60 lb/ft N-80 LT&C casing. Guide shoe at 7625', differential fill float collar at 7585'. Cement stage tool at 3200'. Casing centralizers at 7605', 7496', 7360', 7250', 6960', 6880', 6200', 6080', 5850', 3300', 3000'. Cement first stage (7625' - 3200') with 850 sks (1200 cf) 50/50 pozmix, 2% gel 6 1/4 lb/sk Gilsonite, 6 lb/sk salt. Rotate casing while cementing first stage.

Cement second stage casing (3200' - surface) with 550 sks (1177 cf) 65/35 pozmix, 6% gel, 12 1/4 lb/sk Gilsonite. Tail in with 50 sks (59 cf) Class B Neat cement.

1st stage estimated cement top - 3200'
2nd stage estimated cement top - surface.

RECEIVED
NOV 27 1980
OIL CON. DIV.
DIST. 3

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

Operator CHACE OIL COMPANY		Lease JICARILLA 47		Well No. AT-21
Unit Letter N	Section 11	Township 23 NORTH	Range 4 WEST	County RIO ARriba

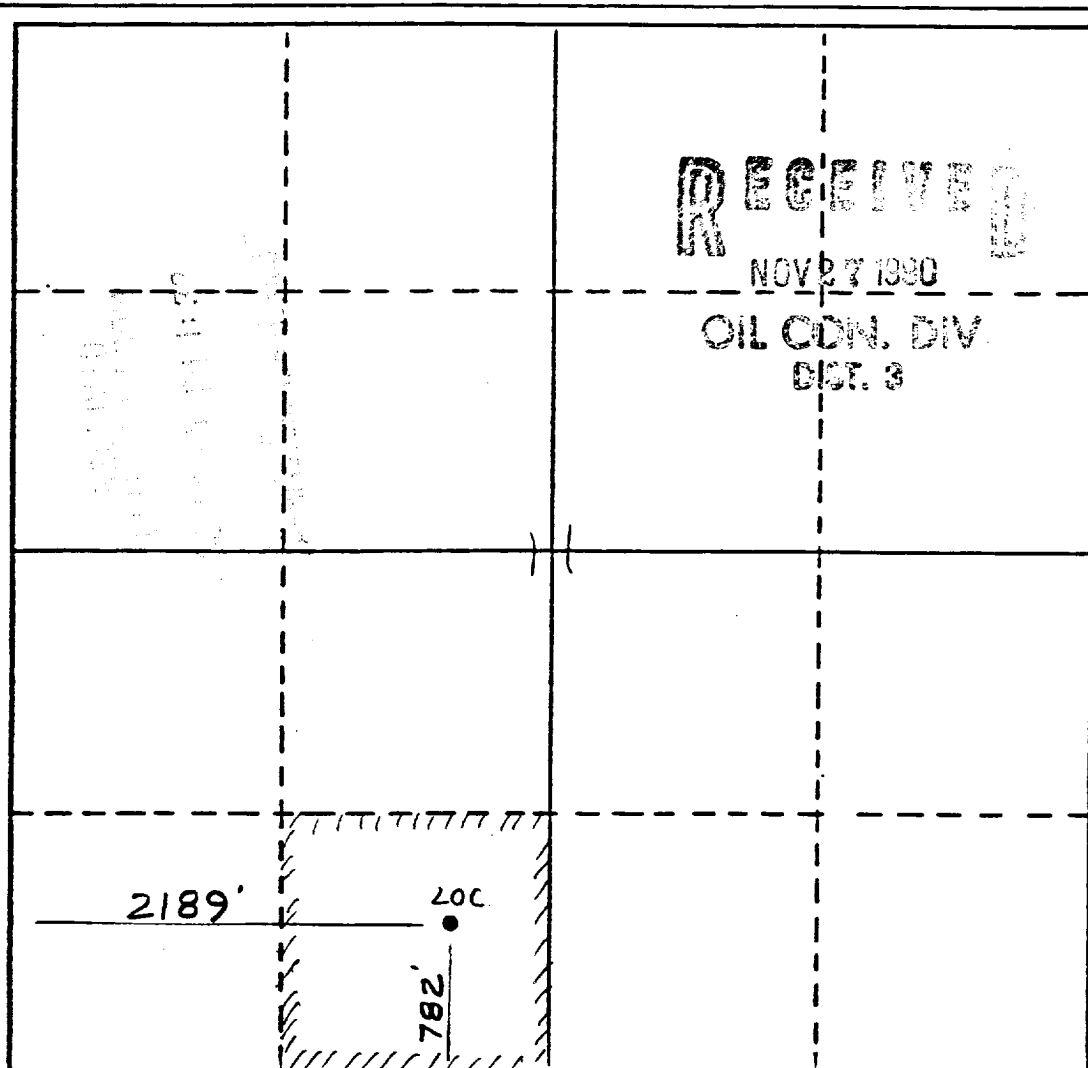
Actual Footage Location of Well: 782 feet from the SOUTH line and 2189 feet from the WEST line				
Ground Level Elev. 7403'	Producing Formation Gallup- Dakota	Pool South Lindrieth (Gallup- Dakota)	Dedicated Acreage: 40	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Division.

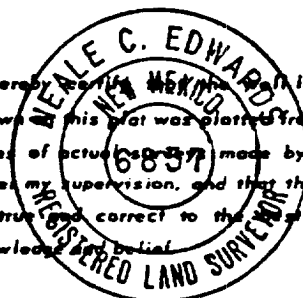


CERTIFICATION

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

Name Monte Anderson
Position Geologist
Company Chace Oil Comp.
Date 1-30-86

I hereby certify that the location shown on this plat was plotted from field notes of actual survey 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 1-20-86
Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards
Certificate No. 6857



RIO ARriba CO
SANDOVAL CO

Borrow
Pit

RIO ARriba CO
SANDOVAL CO

Bonita

wells and access roads