

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501
October 8, 1983
SPUD
WITHIN

5A. Indicate Type of Lease
STATE ☐ FEE ☒
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. Type of Work
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. Name of Operator
Northwest Exploration Company

3. Address of Operator
P.O. Box 5800, Terminal Annex, Denver, CO 80217

4. Location of Well
UNIT LETTER E LOCATED 990 FEET FROM THE WEST LINE
AND 1850 FEET FROM THE north LINE OF SEC. 26 TWP. 25N RGE. 2W NMPM

7. Unit Agreement Name

8. Farm or Lease Name

Gavilan

9. Well No.
101E

10. Field and Pool, or Wildcat
Basin Dk/ WC M.V.

12. County
Rio Arriba

11. Elevations (Show whether D.F., K.T., etc.) <u>7307' GR</u>	21A. Kind & Status Plug. Bond <u>Blanket</u>	21B. Drilling Contractor <u>Not known</u>	22. Approx. Date Work will start <u>May 1, 1983</u>
---	---	--	--

23. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	32.3	250'	150	Surface
8-3/4"	7"	20 & 23	6070'	350	3000'
6-1/4"	4-1/2"	11.6	5870' - 7970'	225	5870'

A 12-1/4" surface hole will be drilled to approximately 250' and 9-5/8" 32.3#/ft H-40 casing will be set and cemented to the surface. A double ram 2000 W.P. B.O.P. will be installed and tested to 2000 psi. The 9-5/8" casing will be tested to 1500 psi prior to drilling the casing shoe.

An 8-3/4" hole will be drilled to approximately 6070' using a fresh water chem-gel mud system for a circulating medium. The open hole will be logged from T.D. to the surface casing shoe. 7" 20# & 23#/ft K-55 casing will be set to T.D. and cement to approximately 3000' to cover the Mesaverde and Ojo Alamo sections. B.O.P.'s and 7" intermediate casing will be tested to 2000 psi prior to drilling out the casing shoe.

A 6-1/4" hole will be drilled to T.D. using gas. The open hole section will be logged and a 4-1/2" 11.6#/ft K-55 liner will be set to T.D. and cement to the estimated liner top @ 5870'.

Zones of interest will be selectively perforated, fracture stimulated and tested to determine productivity. All completion operation will be conducted below a 600 series B.O.P. B.O.P.E tested to 2000 psi prior to perforating.

7. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Alex Nash, Jr. Title Manager, Drilling Operations Date April 6, 1983

(This space for State Use)
APPROVED BY [Signature] TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: No & CIST for communitization

APR 8 - 1983

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-120
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator Northwest Exploration			Lease		Well No. Gavilan 1E
Unit Letter e	Section 26	Township 25 North	Range 2 West	County Rio Arriba	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1850 feet from the North line and 990 feet from the West line </div>					
Ground Level Elev. 7307'	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: N 320	

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?

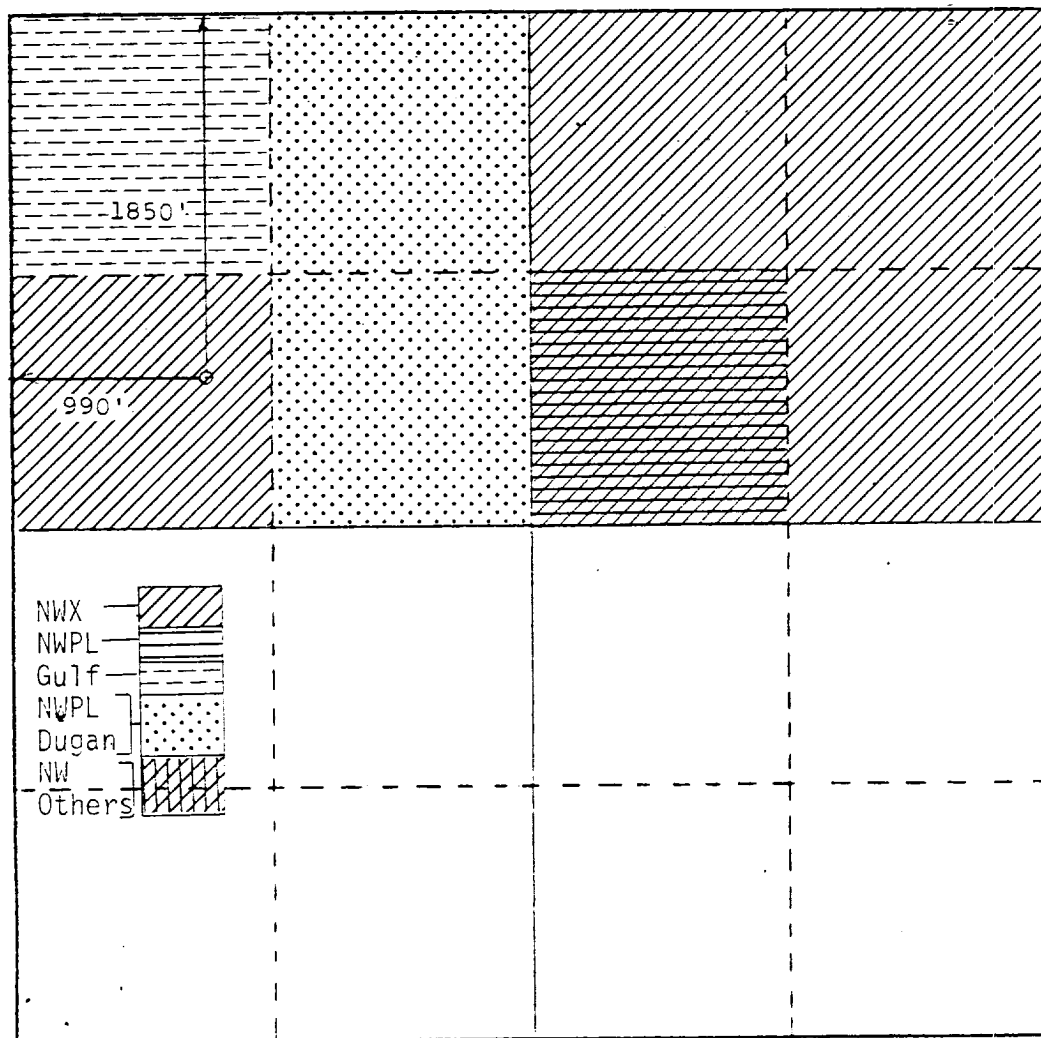
☐ Yes ☒ No

If answer is "yes," type of consolidation

Communitization Agreements submitted to B.L.M. for final approval.

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

Alex Nash, Jr.

Position

Manager, Drilling Operations

Company

Northwest Exploration

Date

April 5, 1983

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

25 March 83

Registered Professional Engineer and Licensed Surveyor

Donald E. Huddleston

Certificate No.

6894

**N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator Northwest Exploration			Lease		Well No. Gavilan 1E
Unit Letter e	Section 26	Township 25 North	Range 2 West	County Rio Arriba	
Actual Footage Location of Well:					
1850 feet from the North		line and		990 feet from the West line	
Ground Level Elev. 7307'	Producing Formation Mesaverde	Pool WC Blanco Mesaverde		Dedicated Acreage 160 320 Acres	

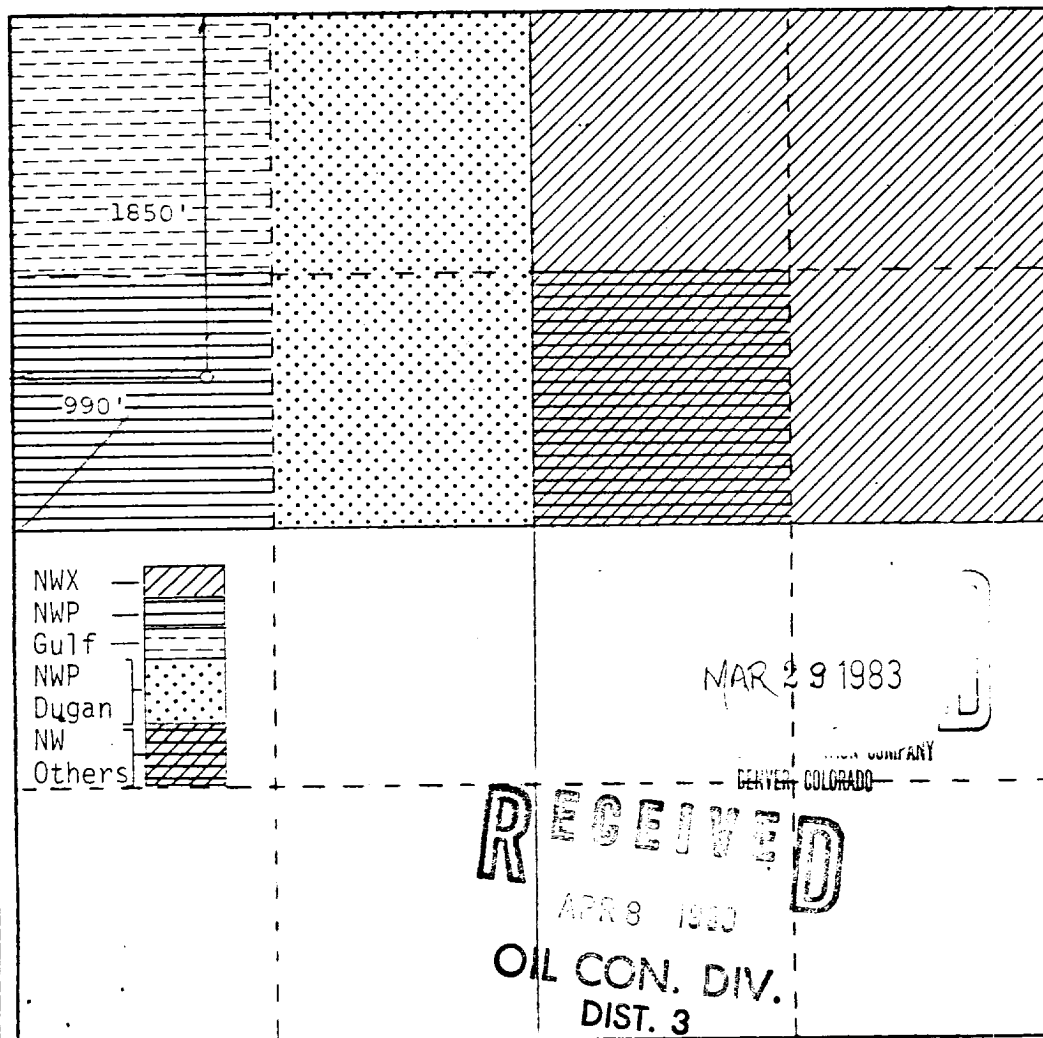
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

All interests will be communitized

☐ Yes ☒ No If answer is "yes," type of consolidation prior to production.

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 Alex Nash, Jr.
Position Manager, Drilling Operations
Company Northwest Exploration
Date April 5, 1983

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 25 March 83
Signed by Richard E. Huddleston
Professional Engineer
and a Licensed Surveyor
Continuation No. 6894