

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-101

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Northland Operating Company 3500 Oak Lawn, Suite 380, Lock Box 31 Dallas, Tx 75219-4398		OGRID Number 149936
Property Code 20414	Property Name Drickey Queen Sand Unit	API Number 30-005-21185
		Well No. 58

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	15	14S	31E		2470'	North	2640'	West	Chaves

Proposed 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
N&C	15	14S	31E		C 10' N 10'	North South	2630' 2630'	West West	Chaves

Proposed Pool 1 Caprock Queen #8553- 8551	Proposed Pool 2
--	-----------------

Work Type Code N	Well Type Code O	Cable/Rotary R	Lease Type Code P	Ground Level Elevation 4259'
Multiple No	Proposed Depth 3100'	Formation Queen	Contractor Patterson Drilling	Spud Date August 9, 1998

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	380'	+200	surface
7 7/8"	5 1/2"	14#	+3000'	+250	surface

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Northland Operating Company proposes to drill a pilot well to 3100', then sidetrack a 3100' TVD and drill a northward horizontal 2460' lateral and then a southward horizontal 2800' lateral. Northland will use fresh water from the surface to approximately 350', then will mud-up and condition hole with mud necessary for catching samples, until TD.

BOP Program: BOP will be installed on the 8 5/8" casing and tested daily. Working pressure for the BOP is approximately 3000#.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

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

Signature:

Printed name:

Sam L. Shackelford

Title:

Consultant

Date:

7-27-98

Phone:

505-623-6036

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Title:

Approval Date:

AUG 12 1998

Expiration Date:

Conditions of Approval:

Attached ☐

30
MP

District I
PO Box 1968, Hobbs, NM 88241-1968
District II
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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

APN Number 30-008-4110		Pool Code 8553 8551	Pool Name Caprock Queen
Property Code 20414	Property Name Drickey Queen Sand Unit		Well Number 58
OGRID No. 149936	Operator Name Northland Operating Company		Elevation 4259

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
F	15	14S.	31E.		2470'	North	2640'	West	Chaves

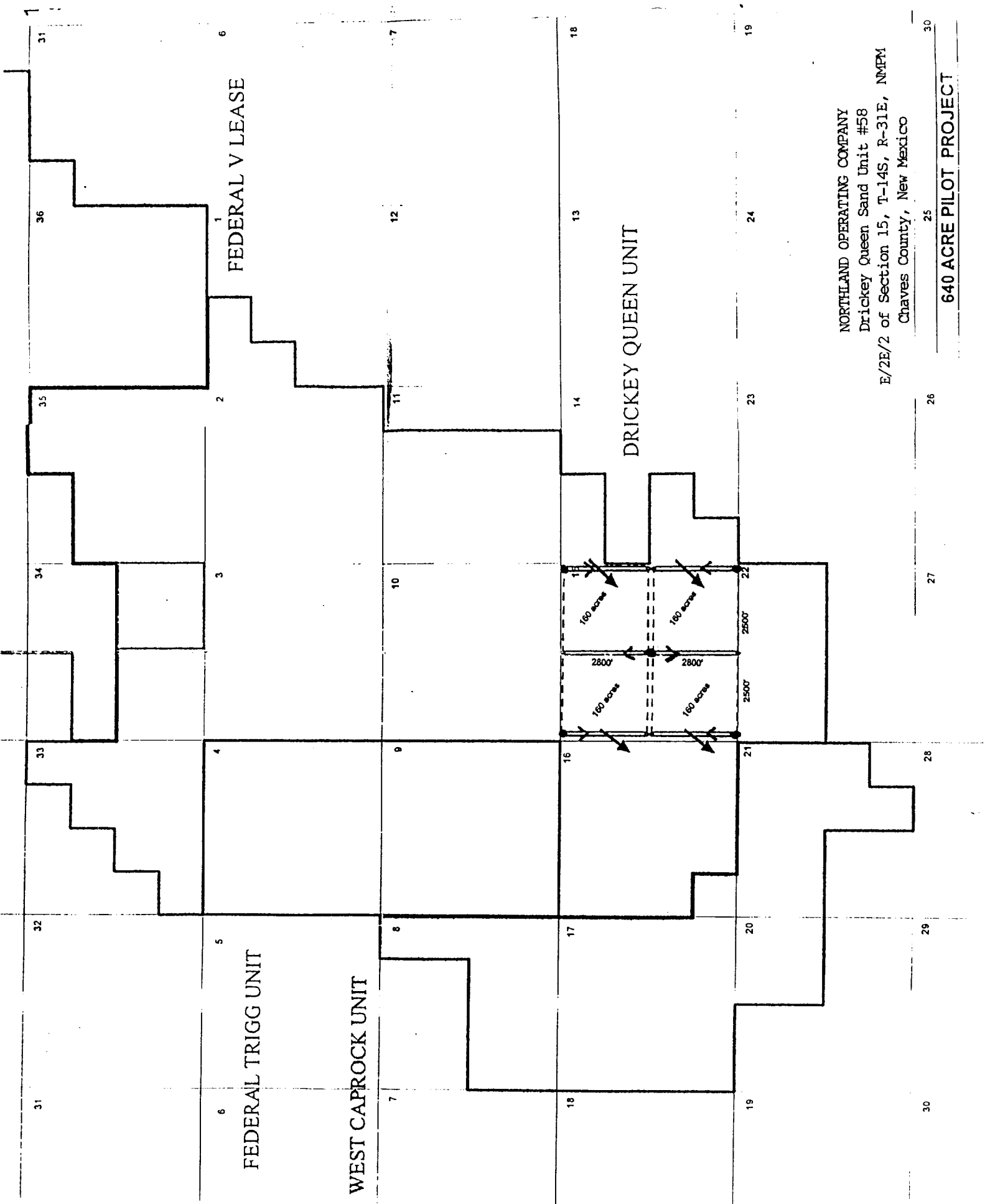
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
N&C	15	14S	31E		C 10' N 10'	North South	2630' 2630'	West West	Chaves

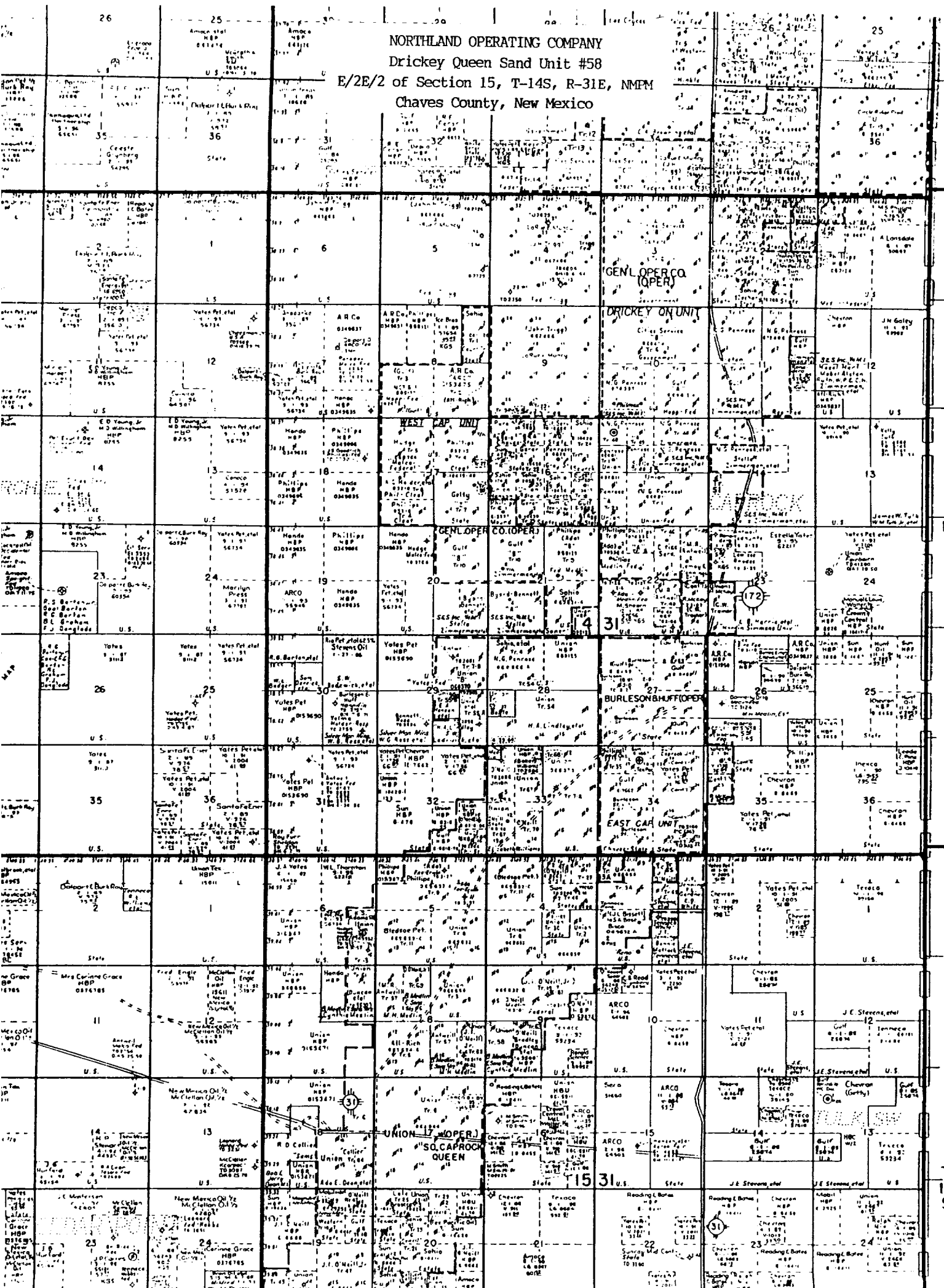
" Dedication Acres	" Joint or Infill	" Consolidation Code	" Order No.
160.0			

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 <i>Sam L. Shackelford</i> Signature Sam L. Shackelford Printed Name Consultant Title 7-27-98 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of a duly sworn and licensed surveyor, and that the same are true and correct to the best of my belief. 7/2/98 Date of Survey <i>John D. Jaquess</i> Signature and Seal of Professional Land Surveyor 0875 Certificate Number



NORTHLAND OPERATING COMPANY
Drickey Queen Sand Unit #58
E/2E/2 of Section 15, T-14S, R-31E, NMPM
Chaves County, New Mexico



T 14 S

T 15 S

Patterson Drilling Company

Rig #55

NORTHLAND OPERATING COMPANY
Drickey Queen Sand Unit #58
E/2E/2 of Section 15, T-14S, R-31E, NMPM
Chaves County, New Mexico

11,500'

DRAWWORKS

Mid Continent U36
Brake: Parmac V-80
Totco Weight Indicator
Brewster 2 engine compound (w/390 Quincy)

BLOWOUT PREVENTERS

12" 3000# Shaffer Type E double ram, 12" 3000#
Hudril GK, 180 gal 5 station Kooimey, Air/Electric,
4" 3000# manifold

ENGINES

Two Cat 3408 engines, 425 HP each

MUD SYSTEM

Two 650 bbl tanks and 1 200 bbl premix tank,
brandt 8-cone desilter w/5 x 6 centrifugal pump
w/3304 Cat engine

DERRICK

L. C. Moore, 131', 510,000# rated capacity

MUD HOUSE

SUBSTRUCTURE

L. C. Moore, 16' high, 250,000# set back
capacity, 375,000# casing capacity
KB - 14'

COMMUNICATIONS

24 hour direct cellular telephone

MUD PUMPS

Pump #1: Emsco DB550 w/Cat D379, 550 HP
Pump #2: Oilwell A700P w/Cat D379, 700 HP

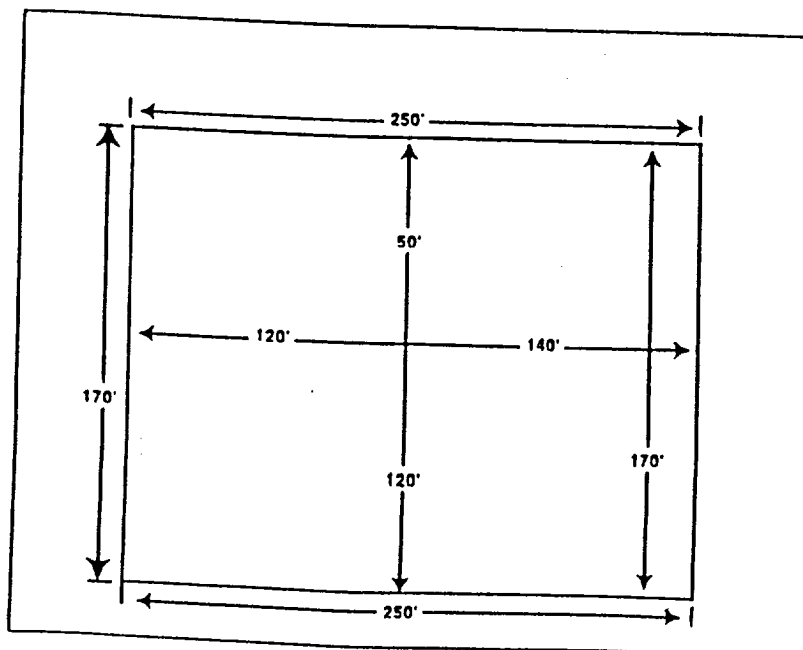
OTHER EQUIPMENT

Blocks. BJ 200
Hook. BJ Unimatic 200
Swivel. Emsco 250
Rotary Table. Ideco 27 1/2" 175 Ton
Shale Shaker. Brandt dual tandem screen
Electrical Power. Two 3306 Cat diesels w/135
kW generators
Fresh Water Storage. Two 800 bbl tanks
Housing.

DRILL STRING

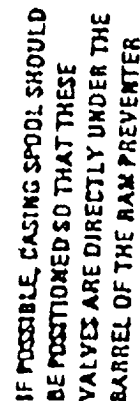
Grade E, 4 1/2", XH drill pipe
30 - 6 1/4 x 2 1/4" 30' long drill collars
14 - 8" x 2 1/4" 6 5/8 Reg drill collars
Other sizes of drill pipe and drill collars are
available

"Hole Requirements will dictate actual Reserve Pit size (TOOLPUSHER SHOULD BE CONSULTED)"



Rig 55

CLASS THREE PREVENTER



Beyond Edge of Derrick Floor

NORTHLAND OPERATING COMPANY
Drickey Queen Sand Unit #58
of Section 15, T-14S, R-31E, N4PM
Chaves County, New Mexico

ELF

**ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED**
6/23/00 *made*

*200
sent
received*