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Form 3160-3 (July 1992)	UNIT	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995					
	DEPARTMENT	OF THE IN	ITERIOR			5. LEASE DESIGNATION	AND SERIAL NO.
	BUREAU OF	LAND MANAG	EMENT			10-060811	
APPI	LICATION FOR PI	ERMIT TO D	RILL OR	DEEPEN		6. IF INDIAN, ALLOTTER	OR TRIBE NAME
1a. TYPE OF WORK D b. TYPE OF WELL	RILL 🗵	DEEPEN [_			7. UNIT AGREEMENT NA #70935A Drickey Queen S	
OIL WELL	WELL OTHER IN	jection	SINGLE X	BULTIP		8. FARM OR LEASE NAME, WEL	L NO.
2. NAME OF OPERATOR Northland Operati	ing Company					Drickey Queen S 9. AM WELL NO.	and Unit#54
3. ADDRESS AND TELEPHONEN						30-005-	-21156
3500 Oak Lawn, Su	uite 380, Lock Box 31	, Dallas, <u>Tx 7</u>	5219-4398			10. FIELD AND POOL, O	R WILDCAT
 4. LOCATION OF WELL A At surface 330' FEL - 200' I At proposed prod. z 	(Report location clearly and FSL AF P	in accordance with	i any state requ	irements." i		Caprock Queen 11. SEC., T., E., M., OE E AND SUBVET OF AB	EA
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14. DISTANCE IN MILE	S AND DIRECTION FROM NEAR	LEST TOWN OR POST	OFFICE			_	
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PROPERTY OR LEASE		200	360.0)	80.0		
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	whether DF, RT, GR, etc.)	50.	5100		<u>, </u>	22. APPROX. DATE WO	
4414' GR						August 9, 190	18
		PROPOSED CASIN	IG AND CEMEN	TING PROGRA	M		
SIZE OF ROLE	GRADE, SIZE OF CASING	WEIGHT PER FO	0T SET	TING DEPTH		QUANTITY OF CEMENT	
12 1/4"	8 5/8"	24#				Class C	
7 7/8"	5 1/2"	14#	<u></u>)'	250\$x	<u>Hall light & 200</u>	Sx Class C

Northland Operating Company proposes to drill an injection pilot well to 3100 feet, then sidetrack a 3100' TVD and drill horizontal 2430' lateral. Northland will use fresh water from surface to approximately 350', then will mud up and condition hole with mud as 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#.

OFER. OGRID NO. 149936
PROPERTY NO. 20414
POOL CODE 8551 EFF. DATE 8-24-98
APINO. 30-005-2456

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

SIGNED S-S Shift	TITLE Consultant	DATE	
(This space for Federal or State office use)			
PERMIT NO	APPROVAL DATE		
Application approval does not warrant or certify that the applicant holds leg CONDITIONS OF APPROVAL, IF ANY:	gal or equitable title to those rights in the subject lease wi Acting Assistant Field Office Mana		thereon.
(ORIG. SGD.) ARMANDO A. LOPEZ	Lands and Minerals	A.G. 1998	ls -
	Instructions On Reverse Side	DATE	N
"Jee Title 18 (1.5 C. Section 100), maked it a grime for any p		any department or agency of the	

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District I PO Box 1980, Hobbs, NM 33241-1980 District II PO Drawer DD, Artenia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztoc, NM 87410 District IV PO Box 2083, Santa Fe, NM 87504-2088

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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

1

WELL LOCATION AND ACREAGE DEDICATION PLAT

30 - 00.5 - 21/56 BS53 Caprock Queen 'Property Nume 'Well Neuber 20-4/1 4 'Drickey Queen Sand Unit 'OORE No. Intickey Queen Sand Unit 'OORE No. Intickey Queen Sand Unit 'OORE No. 'Intickey Queen Sand Unit 'Inticke Section Inticke Section 'Inticke Section Inticke Section Intitintic	API Number ¹ Pool Code					* Pool Name							
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PERTINENT INFORMATION

For

NORTHLAND OPERATING COMPANY Drickey Queen Sand Unit #54 E/2SE/4 of Section 15, T-14S, R-31E, NMPM Chaves County, New Mexico LC-060811

39 air miles Southeast LOCATED: of Roswell, N.M. LC-060811 LEASE NUMBER: September 1, 1944 LEASE ISSUED: Matador Petroleum Corp. RECORD LESSEE: BLM Bond #NM2423 BOND COVERAGE: State of New Mexico #579286 Designation of Operator AUTHORITY TO OPERATE: 360.0 acres ACRES IN LEASE: Fee SURFACE OWNERSHIP: G. P. Sims **OWNER:** General Statewide Rules POOL RULES: Road Map Α. EXHIBITS: Contour Map в. C. Rig Layout D. BOP Diagram E. Lease and Well Map F. Location Topography

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SUPPLEMENTAL DRILLING DATA

NORTHLAND OPERATING COMPANY Drickey Queen Sand Unit #54 E/2SE/4 of Section 15, T-14S, R-31E, NMPM Chaves County, New Mexico LC-060811

The following items supplement Form 9-331C in accordance with instruction contained in NTL-6.

- 1. SURFACE FORMATION: Quaternary
- 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

-	1210'
-	1300'
	1940'
_	2050'
_	2160'
	2793'
	-

- 3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION: Fresh Water - In surface formation above 300' Oil - In the Queen formation below 2793'
- 4. PROPOSED CASING PROGRAM: See Form 9-331C
- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: Blowout preventer will consist of at least a double-ram blowout preventer rated to 3000#WP. The BOP will be tested to 1100 PSI through the rig pumps. We feel that this is a sufficient test, because the target producing formation is historically a low pressure reservoir and will not exceed 1000 PSI.
- 6. <u>CIRCULATING MEDIUM</u>:

Fresh water spud mud from the surface to 350'. From 350' to TD mud-up sufficient for samples.

7. <u>AUXILIARY EQUIPMENT</u>: Full-opening drill string safety valve fit for the drill string in use, will be kept on the rig floor at all times.

8. TESTING, LOGGING AND CORING PROGRAM:

Samples: DST'S:	Catch samples from surface to TD. One DST of determined pay zone
Logging:	Dual Lateral/Micro-SFL w/Gamma Ray & Caliper TD to surface.
	Compensated Neutron/Formation Density w/Gamma Ray- TD to surface
Coring:	Core of determined pay zone

9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None anticipated.

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10. <u>ANTICIPATED STARTING DATE</u>: August 9, 1998 Drilling should be completed within 30 days. Completion operations (perforations and stimulation) will follow drilling operations.

-2-

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

NORTHLAND OPERATING COMPANY Drickey Queen Sand Unit #54 E/2SE/4 of Section 15, T-14S, R-31E, NMPM Chaves County, New Mexico LC-060811

This plan is submitted with the application for permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS:
 - A. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 39 air miles southeast of Roswell, N.M.
 - B. <u>Directions</u>: Heading east out of Roswell, New Mexico on U.S. 380 for approximately 40 miles and turn south on state road 172 at the top of the Caprock. Go approximately 22 miles then turn west at wire gate, which is 4/10 miles past Zimmersman Ranch entrance. Use attached detailed topo map to location.
- 2. PLANNED ACCESS ROAD:
 - A. <u>Length and Width</u>: Approximately 1200 feet of new access. 14' wide with a 30' disturbance.
 - B. <u>Surfacing Materials</u>: Sand, gravel and caliche where needed, if the Well is determined to be a producer and operations will continue after drilling.
 - C. <u>Turnouts</u>: None
 - D. <u>Maximum Grade</u>: No more than 3%.
 - E. <u>Drainage Design</u>: Road will have drainage ditches on both sides and a crowned top, with culverts and/ or low water crossings as necessary, if the Well is determined to be a producer and operations will

continue after drilling.

F. <u>Culverts</u>: None.

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- G. Cut and Fill: Less than 1 foot.
- H. <u>Gates, Cattleguards</u>: A temporary gate will be installed at the fence crossing in the NW/4NW/4 of Section 23, T-14S, R-31E and SE/4SE/4 of Section 15, T-14S, R-31E. If the Well is determined to be a producer and operations will continue after drilling, then a more permanent gate will be install at the same location.
- I. <u>Top Soil</u>: Any top soil that can sustain plant life will be stockpiled at location reflected on rig plat.
- 3. LOCATION OF EXISTING WELLS:
 - A. A map indicating the location of adjacent wells is attached.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. <u>See Exhibit "A"</u> for location of existing lease wells.
 - B. <u>Cuts and Fills</u>: Less than 1' of cut and fill will be required for the pad size of 125' x 175'. (See Exhibit "F")
 - C. <u>Top Soil</u>: Any top soil which can sustain plant vegetation will be bladed and piled for future rehabilitation at the northeast side of location.
 - D. Off Lease Right of Way Application: None
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. Water will come from the Drickey Queen Fresh Water Well located at SE/SE/4 of Section 14, T-14S, R-31E, NMPM.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Pit located in the SE/4NW/4 of Sec. 10-14S-31E, NMPM. The route of delivery would be to on the established roads as reflected on Exhibit "B".

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage, and junk will be hauled from the location and disposed of in a approved landfill.
- F. All trash and debris will removed from the well site within 30 days after finishing drilling and/or completion operations.
- The following is a list of Hazardous Materials that G. may be used during operations - Gasoline, New & Used Oil, Desiel, Hydrochloric acid, A-2(corrosion inhibitor), liquid citric(iron sequestrant), NE-17(non-emulsifier), CL-33(clay stabilizer), CL-55C (liquid KCL), Breaker E (water gel breaker), Class C Cement, Flocele, Calcium Chloride, Gilsonite(Gel), Bentonite(Gel), Poz Mix "A", Salt, Halad-322. All of the above materials will be contained in a manner that is considered by the BLM as environmentally safe. Upon completion of the well all of these materials will be taken from the location and disposed of in accordance with applicable local, state & federal Laws. (This includes used oil)

8. ANCILLARY FACILITIES: None

- A. Off Lease Right of Way Application: None
- 9. WELL SITE LAYOUT:
 - A. <u>Exhibit "C"</u> indicates the relation location and dimensions of the well pad, mud pits, reserve pit and major rig equipment.
 - B. The location slopes slightly to the west.
 - C. The reserve pit will be lined with plastic to prevent loss of water.

-3-

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive or abandoned, the disturbed area will be rehabilitated using the preserved soil mentioned in 2. I. and 4. C.

11. OTHER INFORMATION:

- A. <u>Topography</u>: The topography is a gradual slope to the west in the vicinity of the access road and in the vicinity of the drill pad. Regional slope is west toward the Pecos River.
- B. Soil: Sandy loam with limestone outcropping.
- C. <u>Flora and Fauna</u>: The flora consists of typical desert vegetation, such as yucca, cactus and various grasses. Fauna consists of desert wildlife such as coyotes, rodents, snakes, deer and antelope.
- D. Ponds or Streams: None in near vicinity.
- E. <u>Residences and other Structures</u>: The Zimmerman Ranch House is approximately 1/2 mile to the northeast of this location.
- F. <u>Archaeological</u>, <u>Historical</u> and <u>Other Cultural</u> <u>Sites</u>: Archaeological Survey Consultants, P.O. Box D, Roswell, NM 88202, has checked and approved this site and access road.
- G. Land Use: Grazing
- H. <u>Surface Ownership</u>: Fee: G. P. Sims P.O. Box 1046, Eunice, NM 88230 (505) 394-2980

-4-

12. **OPERATOR'S REPRESENTATIVE:**

Mr. Jim Hull (214) 521-9959

13. **CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exists; that the statements made in this plan are, to the best of my knowledge true and correct; also to the best of my knowledge the work associated with the operations proposed herein will be performed by Circle Ridge Production, Inc. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to provisions of 18 USC 1001 for the filing of a false statement.

7-22-98 S-52/





EXHIBIT "C"

Patterson Drilling Company

NORTHLAND OPERATING COMPANY

Rig #55

Drickey Queen Sand Unit #54 E/2SE/4 of Section 15, T-14S, R-31E Chaves County, New Mexico

DRAWWORKS

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

ENGINES

Two Cat 3408 engines, 425 HP each

DERRICK

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

SUBSTRUCTURE

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

MUD PUMPS

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

DRILL STRING

Grade E, 4 $\frac{1}{2}^{*}$, XH drill pipe 30 – 6 $\frac{1}{2}$ x 2 $\frac{1}{2}^{*}$ 30' long drill collars 14 - 8" x 2 $\frac{1}{2}^{*}$ 6 5/8 Reg drill collars Other sizes of drill pipe and drill collars are available

BLOWOUT PREVENTERS

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

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

MUD HOUSE

COMMUNICATIONS

24 hour direct cellular telephone

OTHER EQUIPMENT

Blocks. BJ 200 Hook. BJ Unimatic 200 Swivel. Emsco 250 Rotary Table. Ideco 27 ½ 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.

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

Rig 55



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John D. Jaquess & Associates Well Grid Elevations



E/2SE/4 of Section 15, T-14S, R-31E Chaves County, New Mexico

EXHIBIT "F"

ABOVE DATE DOES NGT INDICATE WHEN CONFIDENTIAL LOGS WILL BE RELEASED - 11 10/1 Ē

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Horney Branch

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