

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

Solar Petroleum, Inc.

## 3. ADDRESS OF OPERATOR

999 18th St., #1300, Denver, CO 80202

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

At proposed prod. zone 2630' FSL &amp; 1330' FWL

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

12 miles N-NE of Shiprock, NM

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

1330'

10'

## 16. NO. OF ACRES IN LEASE

2560

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

800'

## 19. PROPOSED DEPTH

1125'

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

5282' GR

DRILLING OPERATIONS AUTHORIZED AND  
SUBJECT TO COMPLIANCE WITH ATTACHED

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	23#	90'	70 ex (84 cu. ft.)
7-7/8"	5-1/2"	15.5#	1090'	125 ex (150 cu. ft.)

Drill 7-7/8" hole to just above Gallup sand, set 5-1/2" casing  
Drill through pay with clear brine, log and complete open hole

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DIST. 3

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

TITLE Agent

DATE May 20, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

Joint with #104 + 150

NSL 1110

ahd

HMOCC

APPROVED  
AS AMENDED

DATE

JUL 25 1983

  
For Area Mgr.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

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

Operator: <b>SOLAR PETROLEUM, INCORPORATED</b>			Lease: <b>NAVAJO TRIBE OF INDIANS "F"</b>		Well No. <b>159</b>
Unit Letter <b>K</b>	Section <b>4</b>	Township <b>31N</b>	Range <b>17W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>2630</b> feet from the <b>South</b> line and <b>1330</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5282</b>	Producing Formation <b>Gallup</b>		Pool <b>Horseshoe Gallup</b>	Dedicated Acreage: <b>40</b> Acres with <b>10.4</b> Acres in <b>16</b>	

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, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

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**OIL CON. DIV.**

**DIST. 3**

<b>RECEIVED</b> JUL 27 1983 OIL CONSERVATION DIVISION SANTA FE, N.M.		Sec.	
		1330'	
2630'		4	

Scale: 1"=1000'

CERTIFICATION

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

Name

Position

Agent

Company

**SOLAR PETROLEUM, INC.**

Date

**May 20, 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.

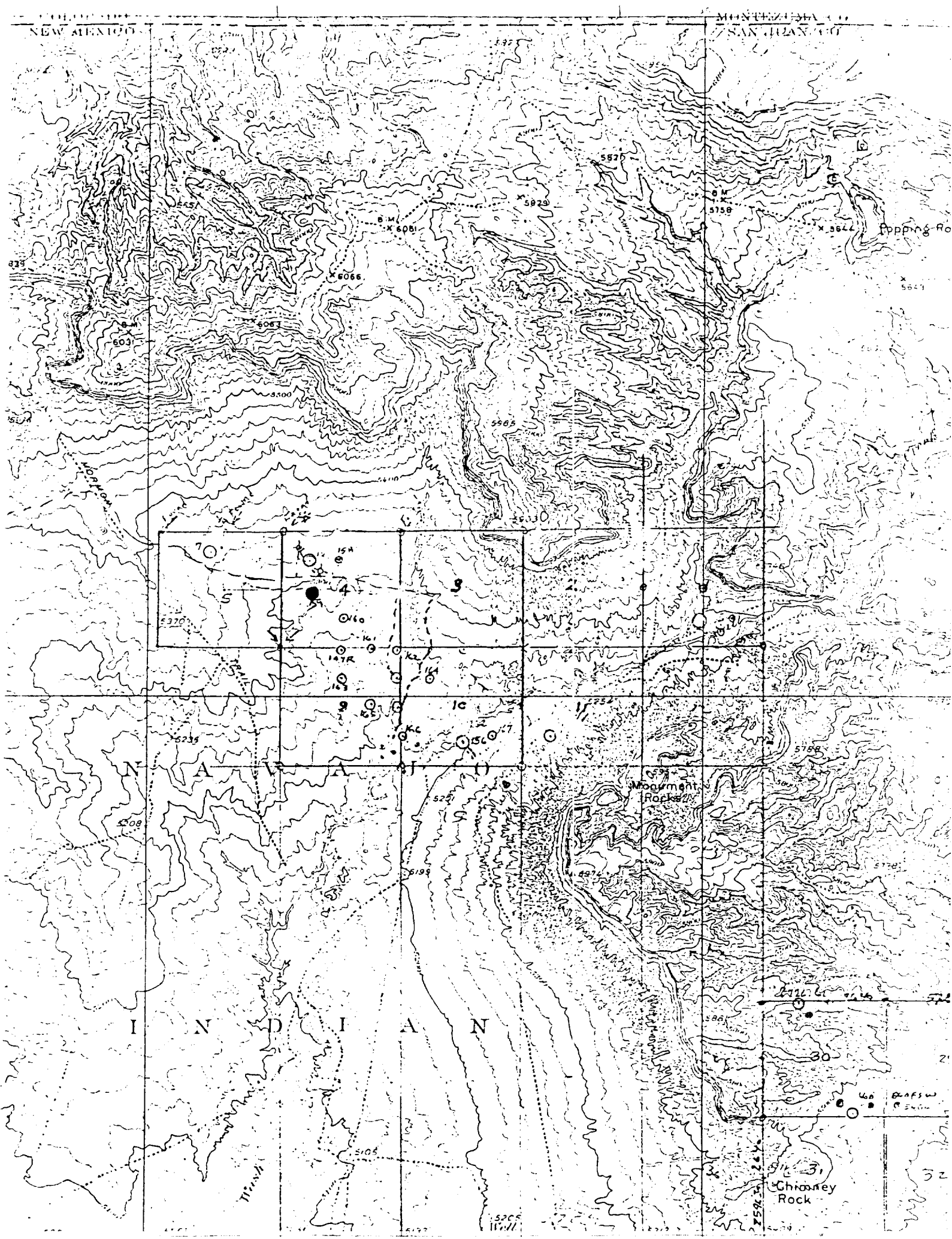
Date Surveyed

**May 3, 1983**

Registered Professional Engineer and Land Surveyor

**Fred B. Kery Jr.**

Certificate No. **3950**





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

June 16, 1983

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Mr. Joe Elledge  
Oil and Gas Property Management  
200 West 25th Street  
Farmington, New Mexico 87401

Administrative Order NSL-1710

Gentlemen:

Reference is made to your application on behalf of Solar Petroleum, Inc. for eleven non-standard locations in the Horseshoe Gallup Pool, San Juan County, New Mexico, as follows:

Navajo "F" Well No. 158  
1330' FNL and 2630' FWL  
Unit G, Section 4;

Navajo "F" Well No. 159  
2630' FSL and 1330' FWL  
Unit K, Section 4

Navajo "F" Well No. 160  
1310' FSL and 2630' FWL  
Unit N, Section 4

Navajo "F" Well No. 164  
1330' FNL and 1310' FWL  
Unit E, Section 10

Navajo "F" Well No. 165  
2600' FNL and 1287' FEL  
Unit L, Section 9

Navajo "F" Well No. 161  
10' FNL and 1330' FEL  
Unit B, Section 9;

Navajo "F" Well No. 162  
10' FNL and 10' FEL  
Unit A, Section 9

Navajo "F" Well No. 163  
1310' FNL and 2600' FWL  
Unit C, Section 9

Navajo "F" Well No. 167  
1310' FSL and 1330' FEL  
Unit O, Section 10

Navajo "F" Well No. 147R  
80' FNL and 2600' FEL  
Unit B, Section 9

Navajo "F" Well No. 166  
1330' FSL and 10' FWL  
Unit L, Section 10

all in Township 31 North, Range 17 West.

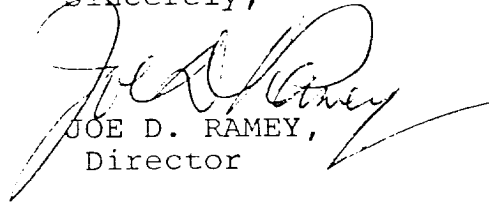
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OIL CON. DIV.  
DIST. 3

By authority granted me under the provisions of Rule 104 F of the Division Rules and Regulations, the above-described unorthodox locations are hereby approved.

Sincerely,

  
JOE D. RAMEY,  
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec  
Oil & Gas Engineering Committee - Hobbs  
Minerals Management Service - Farmington

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DIST. 3



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
15051, 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 6-9-83

*Original # 147R*

- RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL ✓ \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PHX \_\_\_\_\_

Gentlemen:

I have examined the application dated 6-6-83  
for the Solar Petroleum Corp Navajo Tribe of Indians F secs. 49 + 10 - 31N - 17W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve wells 147R, 158, 159, 160, 161, 162, 163, 164, 165, 166,  
and 167 ✓

Yours truly,

Jeff A. Edmister  
JAE

OE  
H  
LLEDGE

200 West 25th Street  
Farmington, New Mexico 87401  
(505) 327-9267  
(505) 325-1873 (Car 2893)

OIL and GAS PROPERTY MANAGEMENT

Mr. R. L. Stamets  
State of New Mexico  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87501

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**OIL CON. DIV.]**  
**DIST. 3**

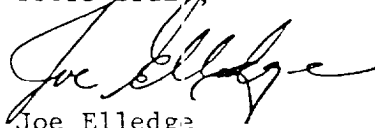
Re: Non-Standard Locations in the  
Horseshoe Gallup Pool  
Sections 4, 9, and 10, T31N, R17W  
San Juan County, New Mexico

Dear Mr. Stamets:

Solar Petroleum, Inc. proposes to drill eleven non-standard oil wells to the Gallup sand on the Navajo Tribe of Indians Reservation as shown on the enclosed plat and listed on the enclosed application.

These proposed non-standard locations will maximize oil production and are located within a waterflood licensed by the State of New Mexico.

Yours truly,



Joe Elledge

Agent - Solar Petroleum, Inc.

JE:en

Attachments (2)

cc: Dave Cushman, Solar Petroleum, Inc.  
Jeff Edmister, Oil Conservation Division

## OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO  
OIL AND MINERALS DEPARTMENT

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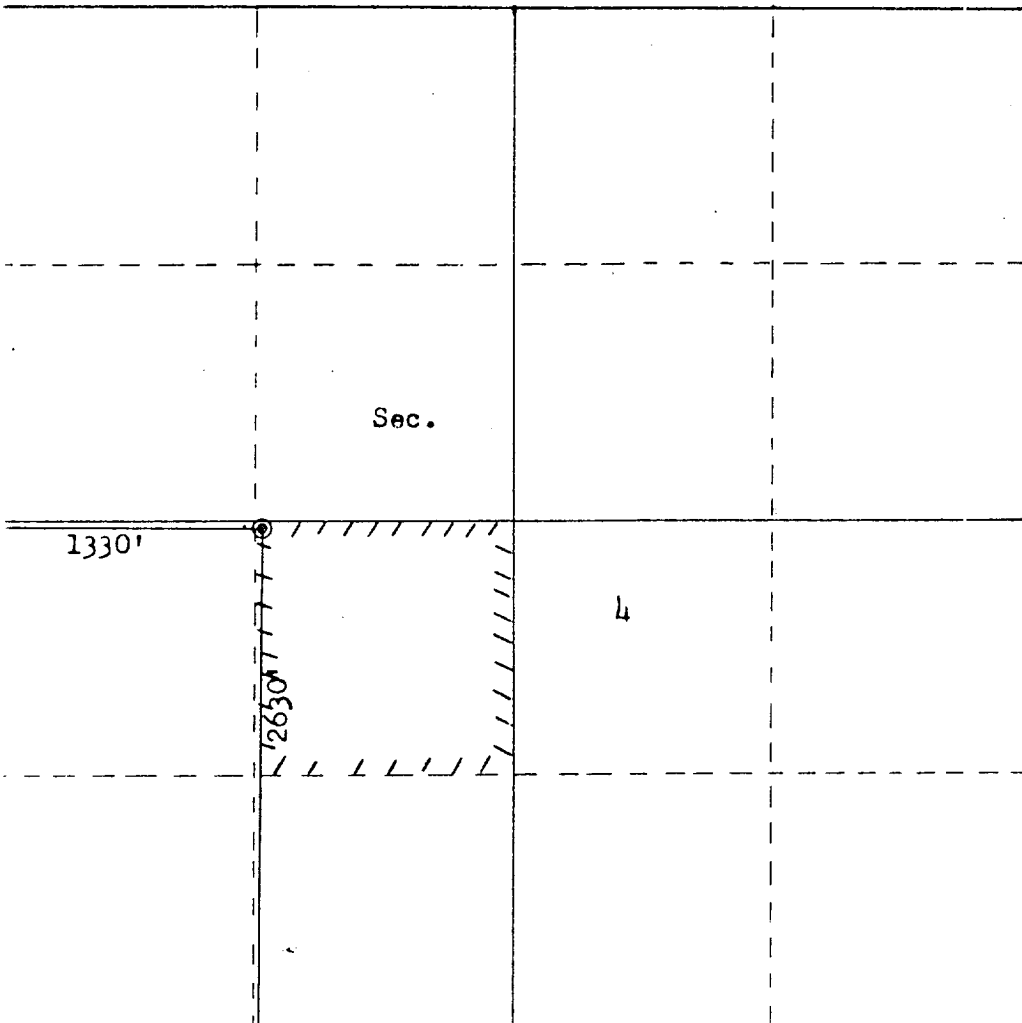
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Name

Position

Agent

Company

SOLAR PETROLEUM, INC.

Date

May 20, 1983

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Date Surveyed

May 3, 1983

Registered Professional Engineer  
and Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950