

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
Transwestern Gas Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 2521 Houston, TX 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1980 ft. from South lease line and 1980 ft. from East lease line
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
29 miles N.N.W. Of Roswell

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1980 ft.

16. NO. OF ACRES IN LEASE
1360 2008.01

17. NO. OF ACRES ASSIGNED TO THIS WELL
160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
15,300' 1,5050 ft.

19. PROPOSED DEPTH
4500

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4190' G.L. 4198' GL

22. APPROX. DATE WORK WILL START*
November 28, 1981

5. LEASE DESIGNATION AND SERIAL NO.
NM 32323

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Fivemile Tank Federal

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Wildcat ABO

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9 T6S R23E

12. COUNTY OR PARISH
Chaves

13. STATE
N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	54.5#-48.0K-55	60'	Redimix CIRCULATE
12 1/2	8 5/8	24.0# K-55	1600'-1800'±	± 950-sx CIRCULATE
7 7/8	4 1/2	10.5# J-55	TD	± 225-sx

13 3/8" Casing set two joints with rat hole machine and grout to surface.
8 5/8" Casing 350 sx Thixset-Class C containing 8-10# sx Gilsonite, 1/4#/sx Celoflake, 450 CaCl₂, 600 sx 50-50 Poz Class C w/2% CaCl₂-Total 950 sx
4 1/2" Casing Approximately 250 sx Pozmix - Class "C" w 2% gel, 8# sx salt and 0.4% CFR-2 friction reducer

GAS IS DEDICATED

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 [Signature] Oeffner TITLE Manager, US Onshore Prod DATE 10-28-81
(This space for Federal or State office use)

PERMIT NO. APPROVED AS AMENDED
APPROVED BY DEC 13 1981
CONDITIONS OF APPROVAL

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

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

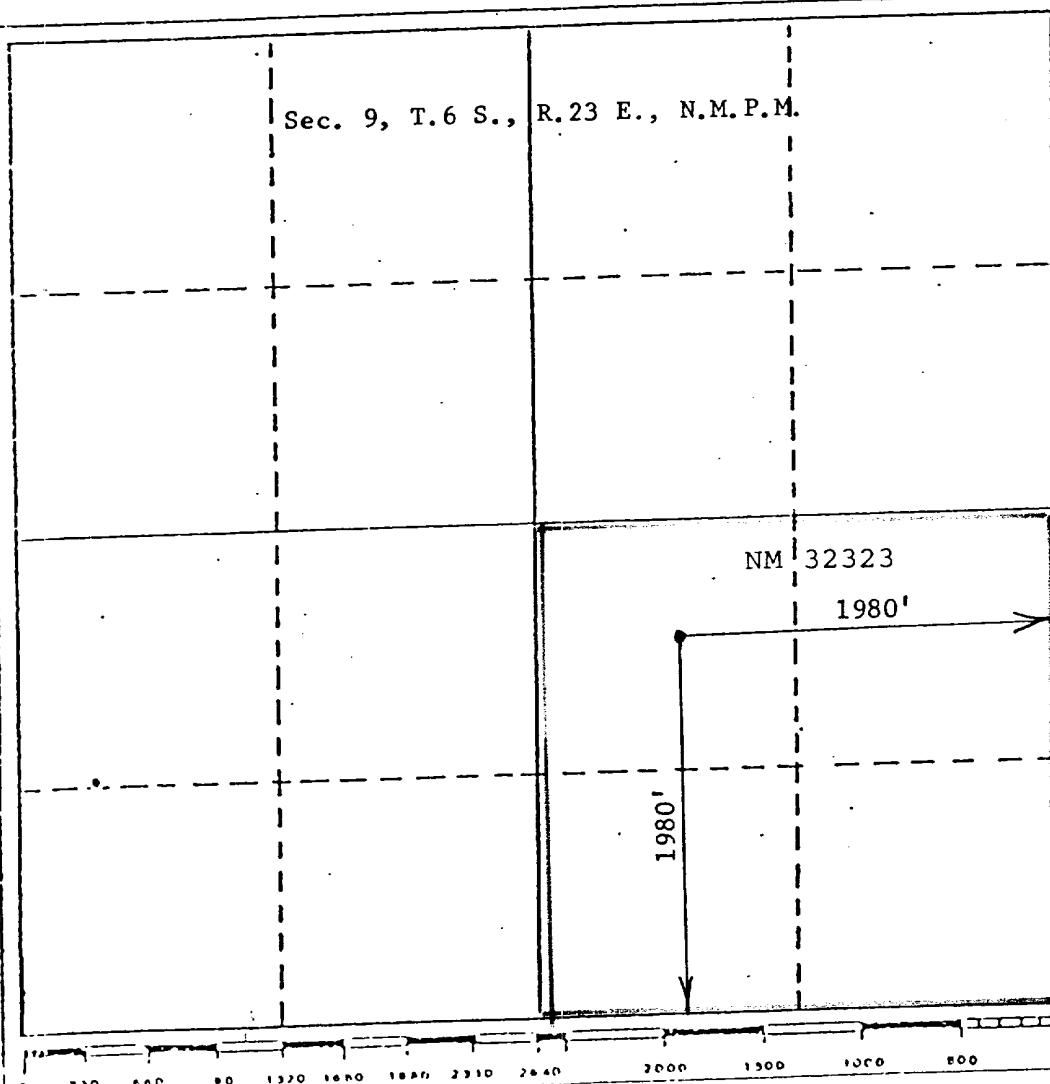
Operator Transwestern Gas Supply COMPANY			Lease Five Mile Tank Federal		Well No. 2
Unit Letter J	Section 9	Township 6 South	Range 23 East	County Chaves	
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 4198	Producing Formation ABO	Pool UNDESIGNATED ABO		Dedicated Acreage: (SE$\frac{1}{4}$) 160 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). **Single Lease**
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
JERRY W. LONG
Position
Agent
Company
TRANSWESTERN GAS SUPPLY CO
Date
November 24, 1981

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.

JOHN D. JAQUESS
NEW MEXICO
Date Surveyed
November 24, 1981
Registered Professional Engineer
and/or Land Surveyor
John D. Jaquess, P.E. & L.S.
Certificate No.
6290

SUPPLEMENTAL DRILLING DATA

TRANSWESTERN GAS SUPPLY COMPANY
No.2 Fivemile Tank Federal
NW¼SE¼ Sec.9-6S-23E
Chaves County, N.M.

NM 32323

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

1. SURFACE FORMATION: Seven Rivers Formation of Artesia Group
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Seven Rivers	- Surface	Tubb	- 3022'
San Andres	- 554'	Abo	- 3667'
Glorietta	- 1464'		
3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water	-Surface to 300'
Gas	-3650' to 4000'
4. PROPOSED CASING PROGRAM: See Form 9-331C
5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of a double-ram blowout preventer and rotating head rated to 3000#WP. A sketch of the BOP is attached.
6. CIRCULATING MEDIUM: Hole for 13 3/8" conductor pipe will be drilled with a rat hole auger. Air will be used as the circulating medium for the remainder of the drilling. It is anticipated that a foam additive will be necessary until the intermediate casing is cemented.
7. AUXILIARY EQUIPMENT: Full-opening kelly cock, to fit the drill string in use, will be kept on the rig floor at all times.
8. TESTING, LOGGING AND CORING PROGRAM:

Samples:	Surface casing shoe to TD
DST's:	None anticipated
Logging:	Gamma Ray-Neutron log and other logs as recommended by well-site geologist.
Coring:	None anticipated
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE: None anticipated. Maximum bottom-hole pressure should not exceed 1500 psi. Bottom-hole temperature will be about 110°F.

10. ANTICIPATED STARTING DATE: Drilling will commence about December 1, 1981. Drilling should be completed within 10 days. Completion operations (perforations and stimulation) will follow drilling operations.

TRANSWESTERN GAS SUPPLY COMPANY
No. 2 Fivemile Tank Federal
NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 9-6S-23E
Chaves County, N.M.

R. 22 E. FIRST R. 23 E. R. 24 E. R. 25 E.
T. 36 N. T. 35 N. T. 34 N.

DANIELS
BRUNSON
SELMAN
COHN
MCKNIGHT
NATURAL
DRAW
CREEK
HILLS
CANYON
MOUNTAIN
TO ROSWELL

CALICHE PIT
MILE POST 136

EXHIBIT A

EXHIBIT A

T. 5 S.

T. 6 S.

TW GAS SUPPLY CO.
No. 2 Fivemile Tank Federal
NW 1/4 SE 1/4 Sec. 9-6S-23E
Chaves County, N.M.

3742

5051 / SW
(MESA SW)

3741

3740

3739

47'30"

MC KNIGHT RANCH 2 MI.

1010 000
FEET

3737

4

9

16

21

4123

4190

4173

4150

4165

4196

4199

4182

10

15

22

2

11

14

23

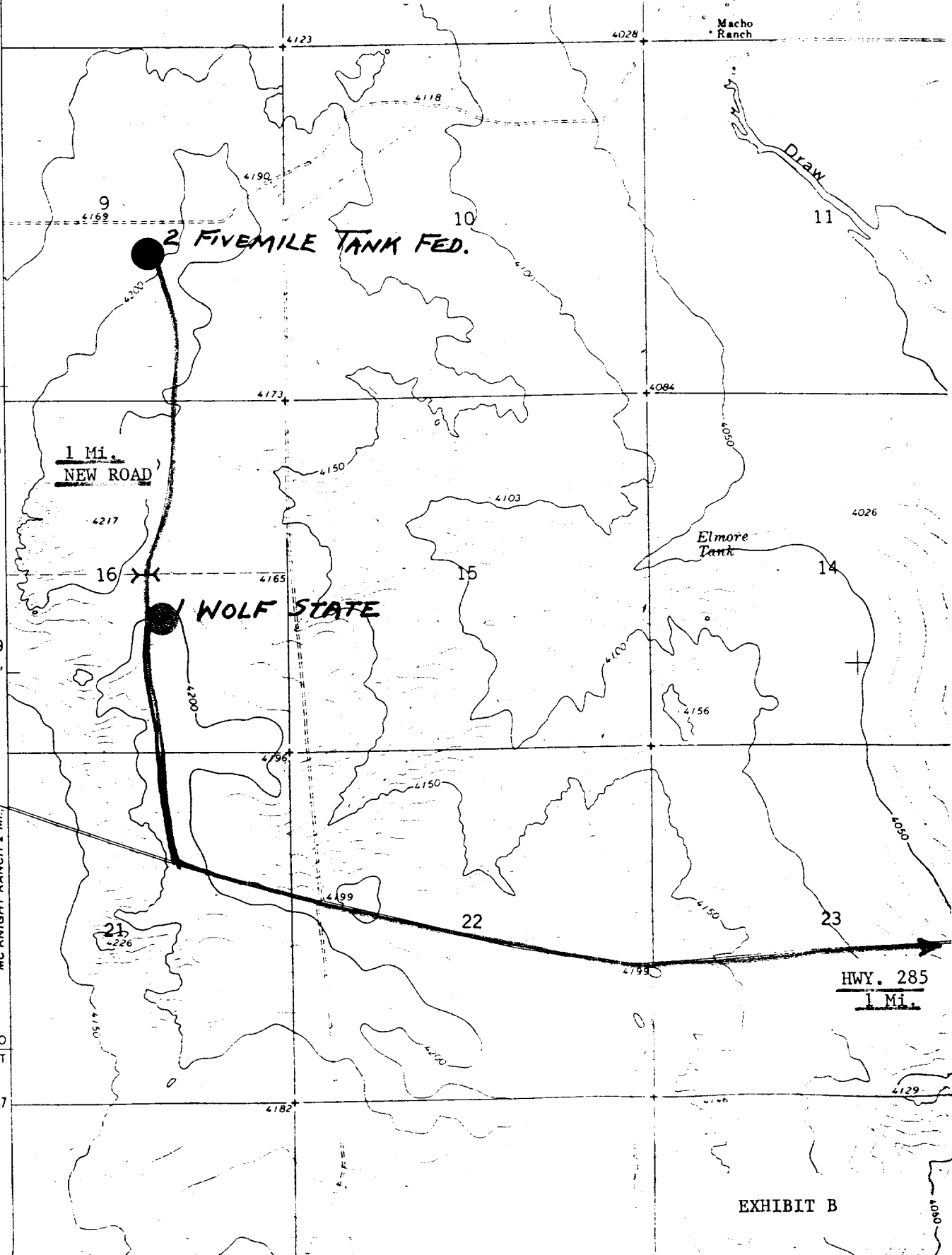
Macho
Ranch

Draw

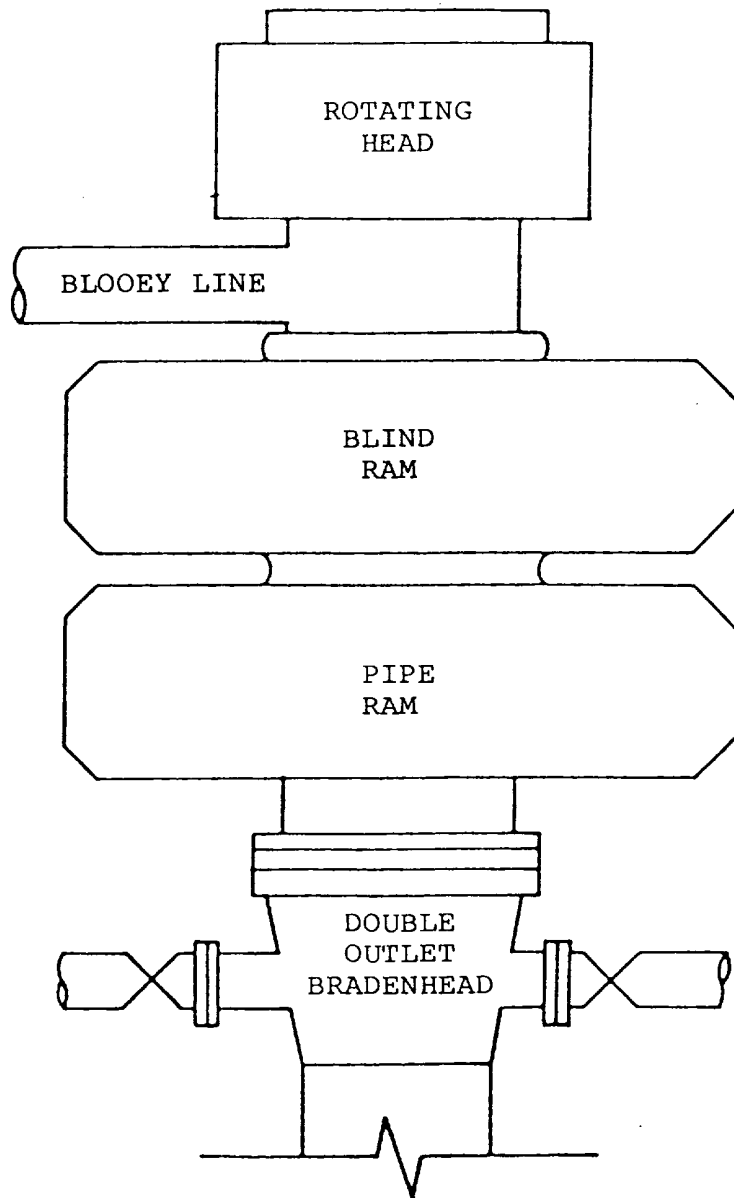
Elmore
Tank

HWY. 285
1 Mi.

EXHIBIT B



TW GAS SUPPLY CO.
No.2 Fivemile Tank Federal
NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec.9-6S-23E
Chaves County, N.M.



BOP STACK

3000 PSI WORKING PRESSURE

REHABILITATION PLAN

Lease No.: NM-32323 ; Well Names and No.: Five Mile Tank Federal #2
Subdivision: SE/4 , Section 9 , T. 6 S., R. 23 E.,
County Chaves , State New Mexico

Transwestern Gas Supply ~~XXXX~~ Company intends to drill a well on surface owned by William D. McKnight . The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access road and provide adequate drainage from road.

☒ Yes ☐ No Reshape and seed any area not needed for maintenance of the production facilities.

Other requirements: _____

The following work will be completed when the well is abandoned/dry hole:

WELL LOCATION

☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to surrounding topography.

☒ Yes ☐ No Water bars will be constructed as deemed necessary.

☒ Yes ☐ No Site will require reshaping to conform to surrounding topography.

☒ Yes ☐ No Entire disturbed area will be seeded with the following seed mixture:

To be decided later.

ACCESS ROAD

☒ Yes ☒ No Access road will be closed, rehabilitated and seeded using the same seed mixture as above.

☒ Yes ☐ No Water bars will be constructed on the access road as deemed necessary.

Other requirements: _____

SURFACE OWNER

Name: William D. McKnight
Address: Dunlap Route
City: Roswell
State: New Mexico
Phone No.: (50) 623-6403
Date: 11-10-81

OPERATOR/LESSEE

Name: Transwestern Gas Supply Co.
Address: _____
City: _____
State: _____
Phone No.: _____
Date: 11-10-81

I CERTIFY rehabilitation has been discussed with me, the surface owner:

William D. McKnight

William D. McKnight
(Surface owner's signature)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.