

116541381 NSL

6/25/01

PERMITS WEST, INC.

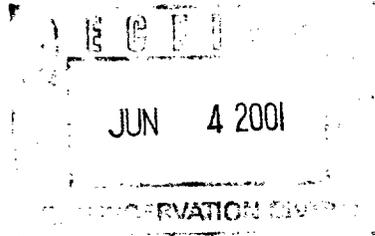
PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87505

(505) 466-8120

June 3, 2001

Mike Stogner
Oil Conservation Div.
1220 S. St. Francis Dr.
Santa Fe, NM 87505



Dear Mike,

On behalf of Richardson Operating Co., I am enclosing two copies of an application for a non-standard location for its proposed WF Federal 25 #1. The gas well is planned to produce from **Pictured Cliffs** and **Fruitland** coal. ~~The non-standard location~~ is due to topography and is staked on another Richardson well site which was approved as NSL-1138.

Please call me if you have any questions.

Sincerely,

Brian Wood

cc: Aztec OCD
Colby

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87505

(505) 466-8120

REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION
FOR RICHARDSON OPERATING CO.
WF FEDERAL 25 #1 GAS WELL
2130' FNL & 575' FEL SEC. 25, T. 30 N., R. 14 W., SAN JUAN COUNTY, NM

I. The well is on BLM surface and a BLM oil and gas lease (NMNM-0207001). The proposed location is non-standard for the **Basin Fruitland Coal and Harper Hill Pictured Cliffs Extension**. A standard location must be at least 660' from the quarter section boundary. This well is staked 85' further east and 150' further south than standard. (Closest standard location would be 1980' FNL and 660' FEL.) The APD is attached.

II. A C-102 showing the well location and proration units (Lots 1 & 2 and W2NE4 = 144.12 acres for the Pictured Cliffs and Lots 1-3, 6, 7, and W2E2 = 290.38 acres for the Fruitland coal) Section 25 is attached. A General Land Office survey plat is also attached which shows the smaller (610.74 acres) than standard size Section 25. The lease (contains 585.69 acres) is shown on the attached composite copy of the Farmington North and Young's Lake USGS topo maps.

III. According to NM Oil Conservation Records reviewed in their Santa Fe office on May 23, 2001; there is no production from the Pictured Cliffs or Fruitland within a minimum 5,119' radius. Closest such well is Dugan's Camp David #1 at 1800 FN & 1740 FE 36-30n-14w which produces from the Basin Fruitland coal. A composite copy of the Farmington North and Young's Lake 7.5' USGS maps is attached showing the proposed well site, spacing units (dotted lines for Pictured Cliffs and dashed lines for Fruitland), and lease (thick solid line). There is only one lease within a minimum 575' radius. Richardson is the operator of its BLM lease. Registered letters were sent on June 2 to the offset interest owners. A copy of the receipts and letters will be provided.

IV. A composite copy of the Farmington North and Young's Lake USGS maps is attached. The proposed well site is marked. Proration units are Lots 1 & 2 and W2NE4 = 144.12 acres for the Pictured Cliffs and a stand up Lots 1-3, 6, 7, and W2E2 = 290.38 acres for the Fruitland coal.

V. Richardson selected its location due to topography. The drilling window is in a very dissected badland area. No road enters the drilling window. Indeed, the closest road to the drilling window terminates at the proposed wells site. A standard drilling window (see map) for a dual completion well does not overlap an accessible drill site which could be built under BLM guidelines. Richardson staked its well on its Twin Mounds 1E, a Dakota producer. This location is also non-standard and as such was approved (NSL-1138) by the New Mexico Oil Conservation Division on January 2, 1980.

VI. No archaeology sites were found.

VII. See item V. above for a description of the surface conditions which are noted as "The Badlands" on the map. In addition, the east half and northeast quarter of Section 25 are 10% smaller than their standard aliquot parts.

VIII. Directional drilling is not feasible because it is not cost effective due to rod wear on tubing.

IX. I hereby certify that notice has been sent to the following lessees, lessors, operators of spacing units, or owners of undrilled leases which adjoin the applicant's spacing unit on one or more of the two sides or the single closest corner to the proposed well and that the information is current and correct:

Dugan Production Corp.
Robert L. Bayless
Amoco Production Co.
Calpine Natural Gas
BHP Petroleum Americas Inc.
Cross Timbers Operating Co.
Princeps Partners
Questar Exploration & Production
Wm. G. Helis Co.
Burlington Resources Oil and Gas Company
Colt Resources Corp.
Denver American Petroleum
Pure Resources LP
Viersen Oil & Gas Co.
George E. Hall & Elliott Hall Co.
Elliott Mgt. Co. & Elliott Industries Colorado
Humble Oil & Refinery Co.

State of New Mexico
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

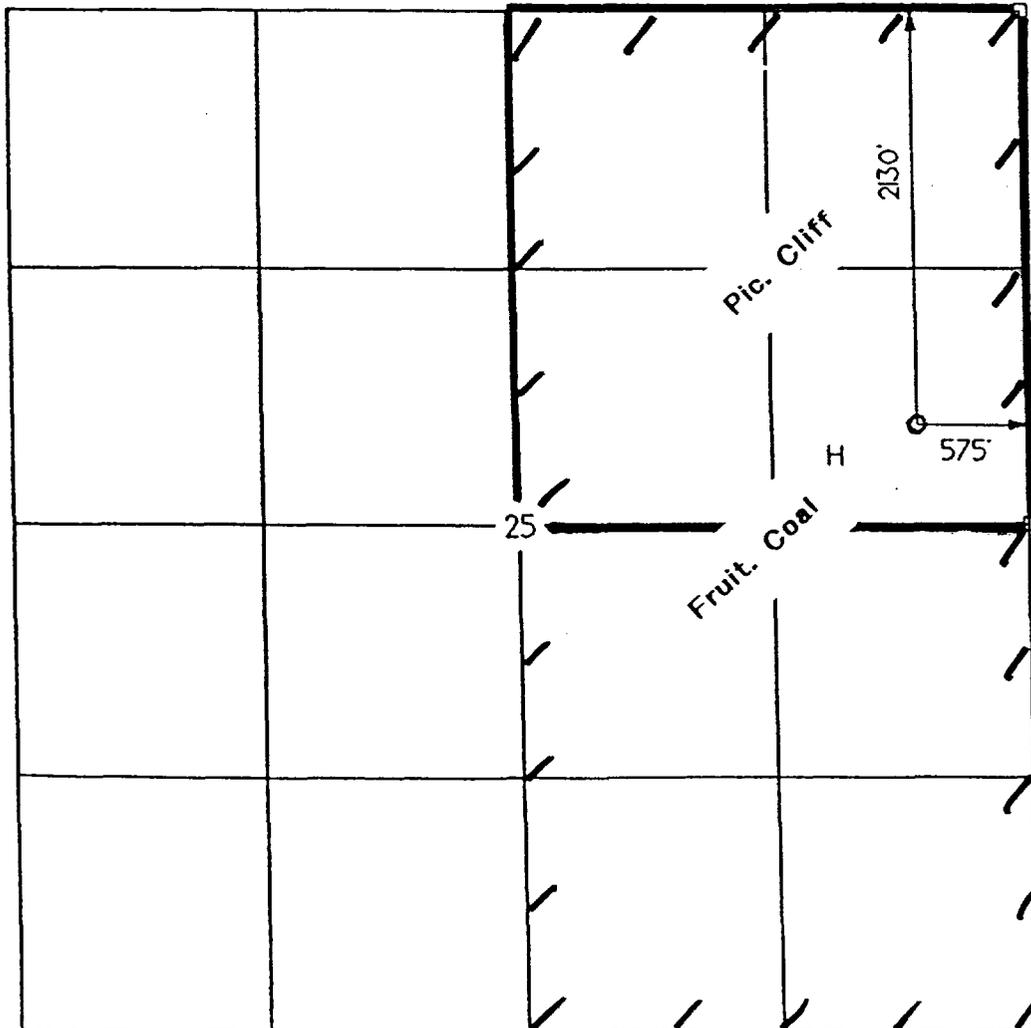
APA Number	Pool Code	Pool Name
	71629 & 78160	FRUIT. COAL & HARP. HILL PC EXT
Property Code	Property Name	Well Number
	WF FEDERAL	25 - 1
OGRID No.	Operator Name	Elevation
019219	.RICHARDSON OPERATING COMPANY	5450'

Surface Location									
UL or Lot	Sec.	Typ.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
H	25	30 N.	14 W.		2130'	NORTH	575'	EAST	SAN JUAN

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Typ.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County

Dedication	Joint ?	Consolidation	Order No.

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature: *Brian Wood*

Printed Name: BRIAN WOOD

Title: CONSULTANT

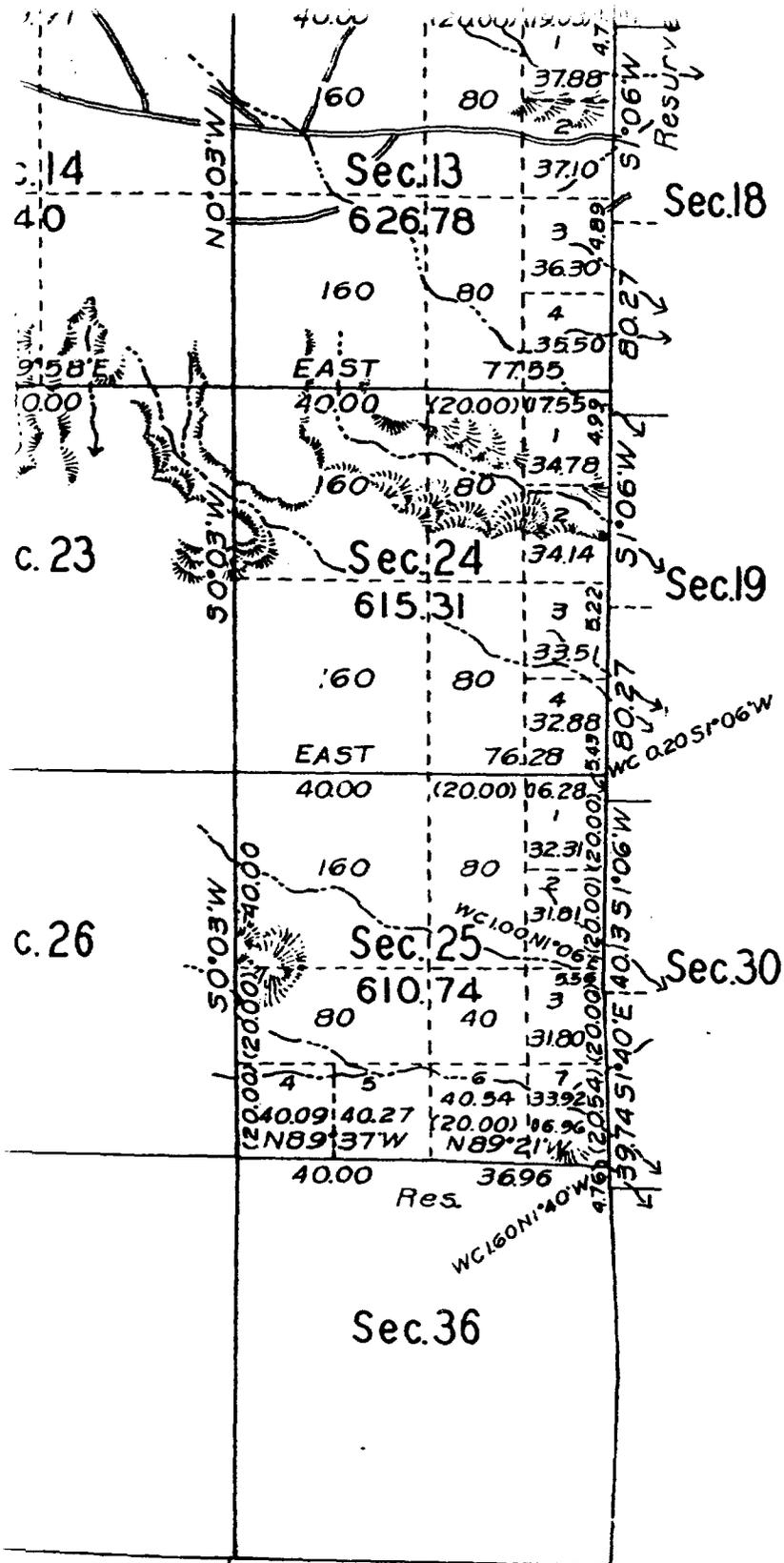
Date: MAY 20, 2001

SURVEYOR CERTIFICATION
I hereby certify that the well location 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 belief.

Date of Survey: ~~13~~ DECEMBER 2000

Signature and Seal: *G. Huddleston*

Professional Seal: GERMING H. HUDDLESTON, REGISTERED LAND SURVEYOR, 6844



OF U.S. SUPERVISOR OF SURVEYS
 VER, COLORADO, APRIL 14, 1937.
 T OF TOWNSHIP No. 30 NORTH, RANGE No.
 THE NEW MEXICO PRINCIPAL MERIDIAN,
 IS STRICTLY CONFORMABLE TO THE FIELD
 THE SURVEY THEREOF WHICH HAVE BEEN EX-
 APPROVED.

Walter P. Cannon
 SUPERVISOR OF SURVEYS.

DEPARTMENT OF THE INTERIOR
 GENERAL LAND OFFICE

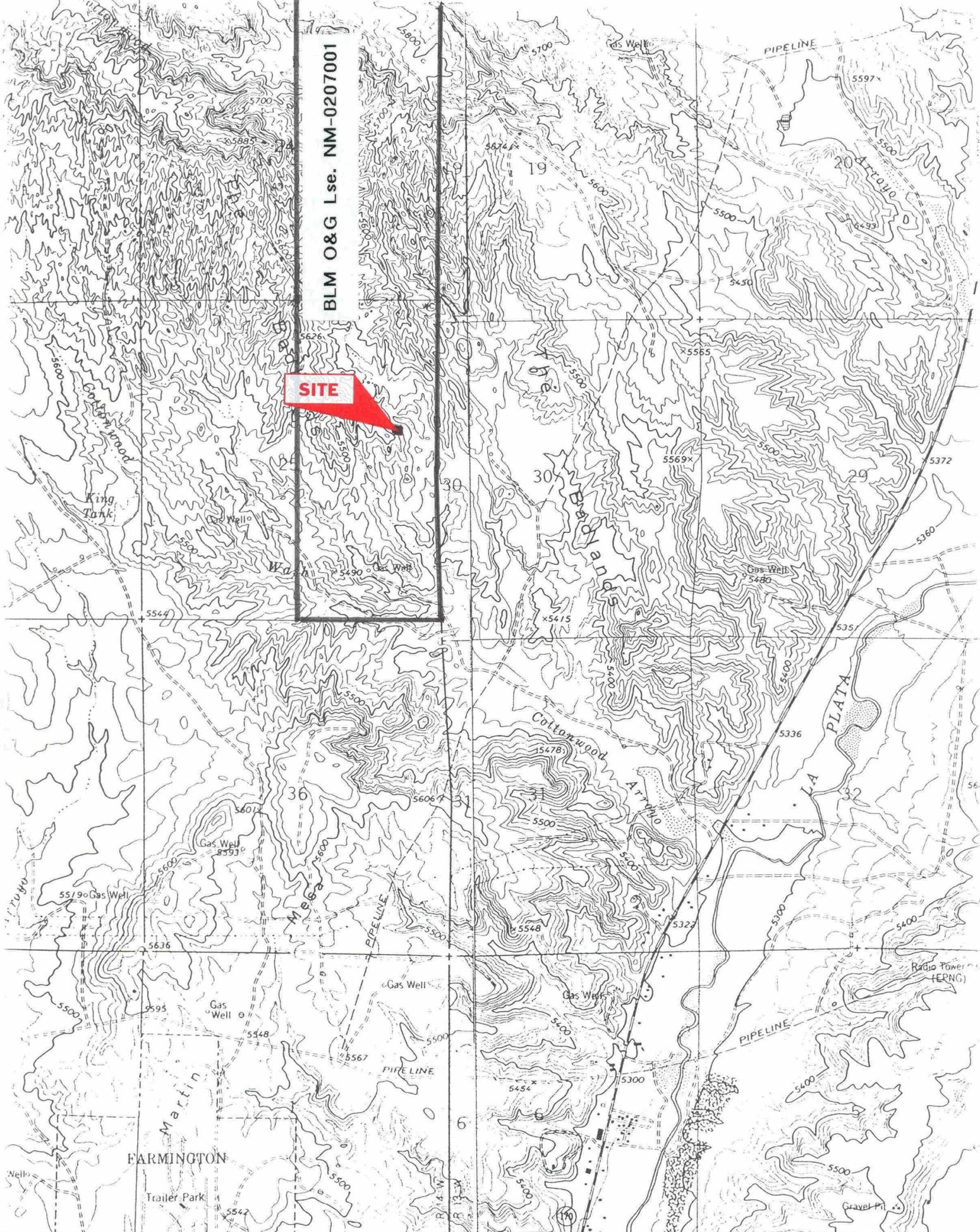
WASHINGTON, D.C., JULY 27, 19

THE SURVEY REPRESENTED BY THIS PLAT HAVING
 CORRECTLY EXECUTED IN ACCORDANCE WITH THE
 REQUIREMENTS OF LAW AND THE REGULATIONS OF T
 OFFICE. IS HEREBY ACCEPTED.

Antoinette F.
 ASSISTANT COMMISSIONER

BLM O&G Lse. NM-0207001

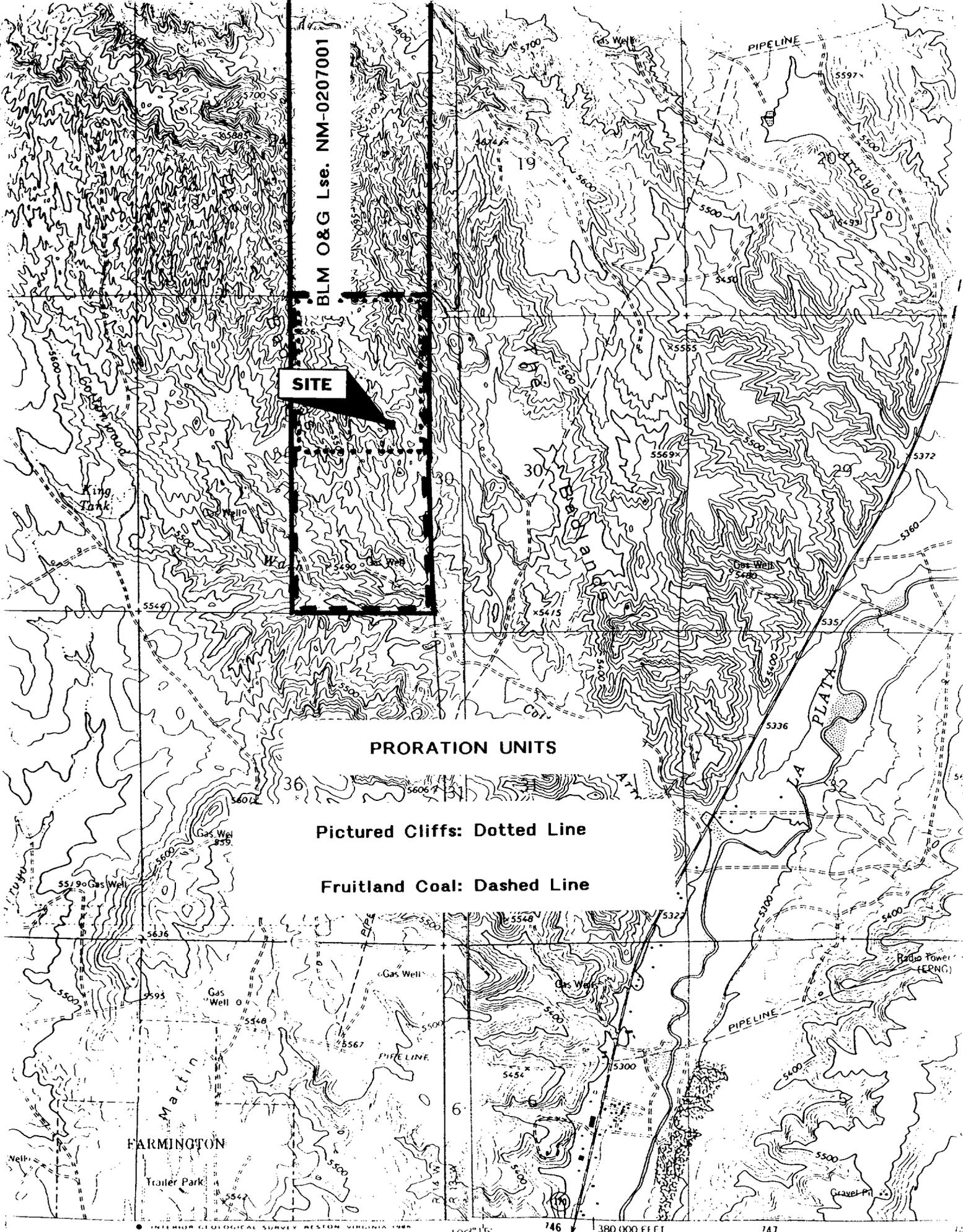
SITE



● INTERIOR GEOLOGICAL SURVEY RESTON VIRGINIA 1986 745000m E. 108° 15' 746 380 000 FEET 1 MI TO U.S. 550 747 748

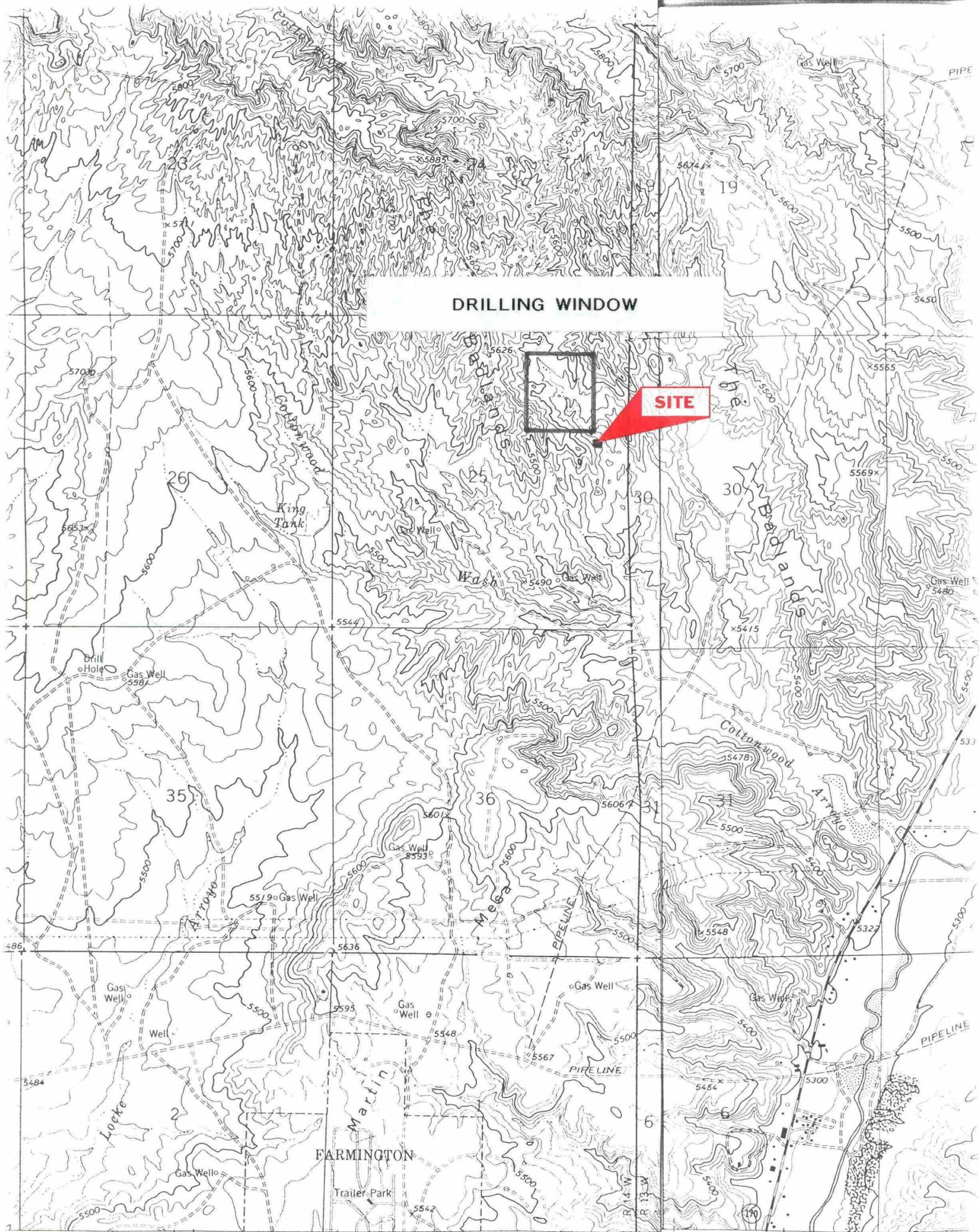
ROAD CLASSIFICATION

Mapped, edited, and published by the Geological Survey
Control by USGS, NOS/NOAA, and U. S. Bureau of Reclamation



ROAD CLASSIFICATION

Mapped, edited, and published by the Geological Survey
Control by USGS, NOS/NOAA, and U. S. Bureau of Reclamation



DRILLING WINDOW

SITE

FARMINGTON

Trailer Park

● INTERIOR GEOLOGICAL SURVEY RESTON, VIRGINIA 1988
745000m. E.

108° 15' 746 380 000 FEET
1 MI. TO U.S. 550 747

ROAD CLASSIFICATION

Mapped, edited, and published by the Geol.
Control by USGS, NOS/NOAA, and U.S. Bureau of R.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

January 2, 1980

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Powers Elevation
Cherry Creek Plaza
Suite 1201
600 South Cherry Street
Denver, Colorado 80222

Administrative Order NSL-1138

Gentlemen:

Reference is made to your application on behalf of Ladd Petroleum Corporation for a non-standard location for their Twin Mounds Well No. 1E located 2030 feet from the North line and 590 feet from the East line of Section 25, Township 30 North, Range 14 West, NMPM, Basin Dakota Field, San Juan County, New Mexico.

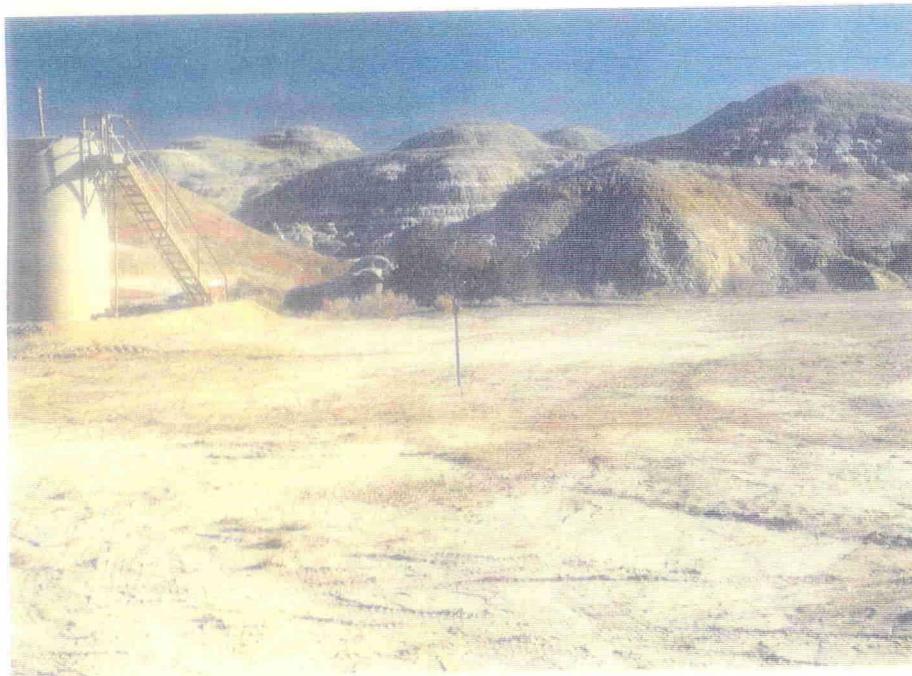
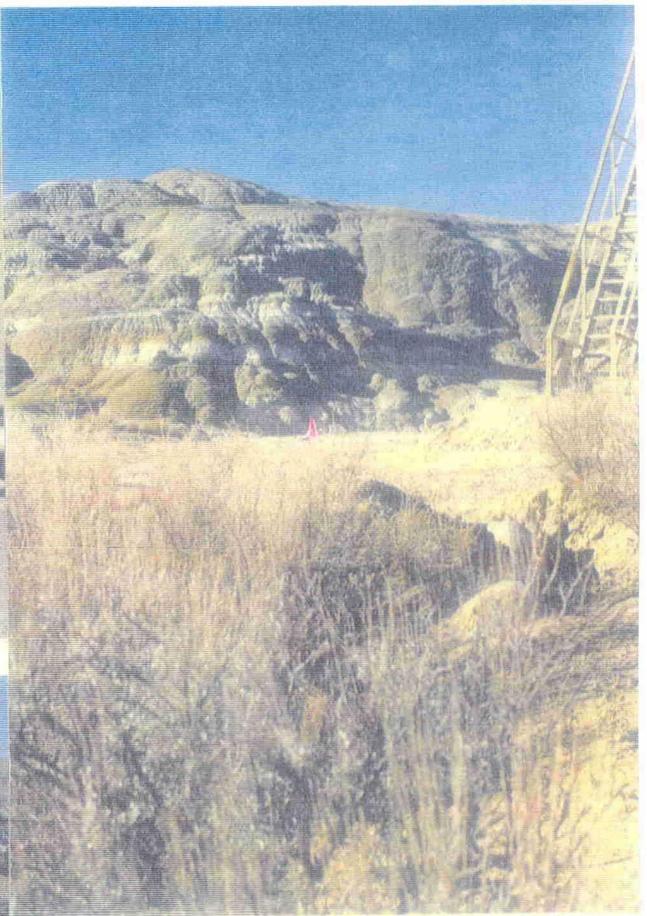
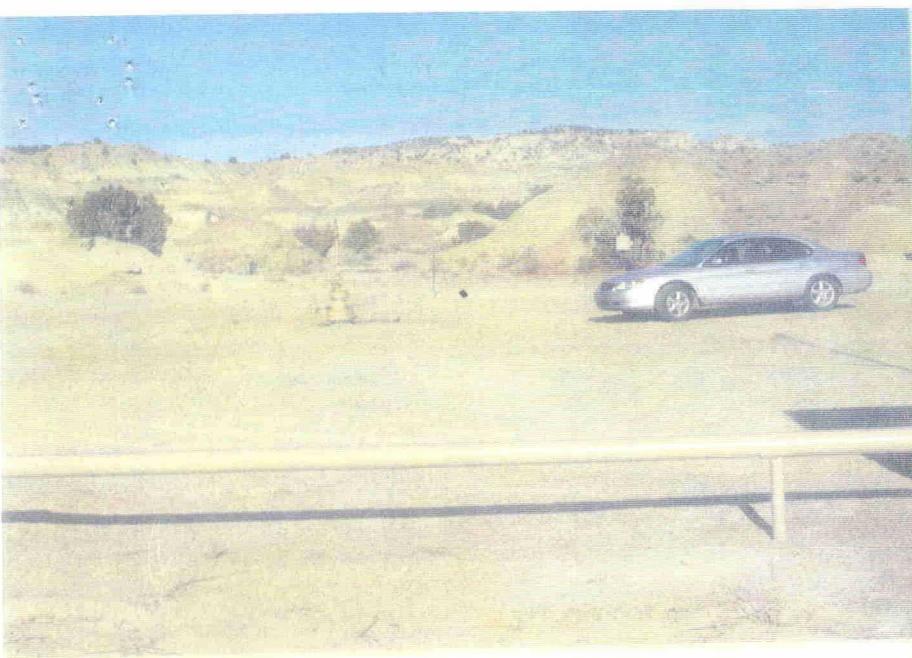
By authority granted me under the provisions of Rule 3 of Order No. R-1670-V, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Farmington



TOP RIGHT - Looking W at center stake.

TOP LEFT - Looking N at WF Federal 25 #1 center stake (between well head and car).

MIDDLE LEFT - Looking E at center stake.

LOWER LEFT - Looking S toward center stake.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Richardson Operating Co. (303) 830-8000

3. ADDRESS AND TELEPHONE NO.
 1700 Lincoln St., Suite 1700, Denver, Co. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 2130' FNL & 575' FEL
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4 air miles NW of Farmington

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 575'

16. NO. OF ACRES IN LEASE 585.69

17. NO. OF ACRES ASSIGNED TO THIS WELL 290.38 & 144.12

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 101'

19. PROPOSED DEPTH 1,320'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,450' ungraded

22. APPROX. DATE WORK WILL START* July 1, 2001

5. LEASE DESIGNATION AND SERIAL NO.
 NMNM-0207001

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME, WELL NO.
 WF Federal 25 #1

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Fruit Coal & Harp. PC Ex

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 25-30n-14w NMPM

12. COUNTY OR PARISH
 San Juan

13. STATE
 NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	K-55 7"	20	120'	≈36 cu. ft. & to surface
6-1/4"	K-55 4-1/2"	10.5	1,320'	≈190 cu. ft. & to surface

Archaeology report LAC-2000-73d filed 1-12-2001.

Authorization for off-lease access is being sought by this APD doubling as a BLM right-of-way application. Right-of-way application covers 30' x 6,800' (=4.68 acres) of existing road in SWSW & Lots 14 & 15, Section 30 and NESE, S2NE4, NWNE, NENW, & Lot 1 Sec. 31; both T. 30 N., R. 13 W.

cc: BLM, Colby, OCD (via BLM)

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.

24. SIGNED [Signature] TITLE Consultant (505) 466-8120 DATE 5-20-01

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

State of New Mexico
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

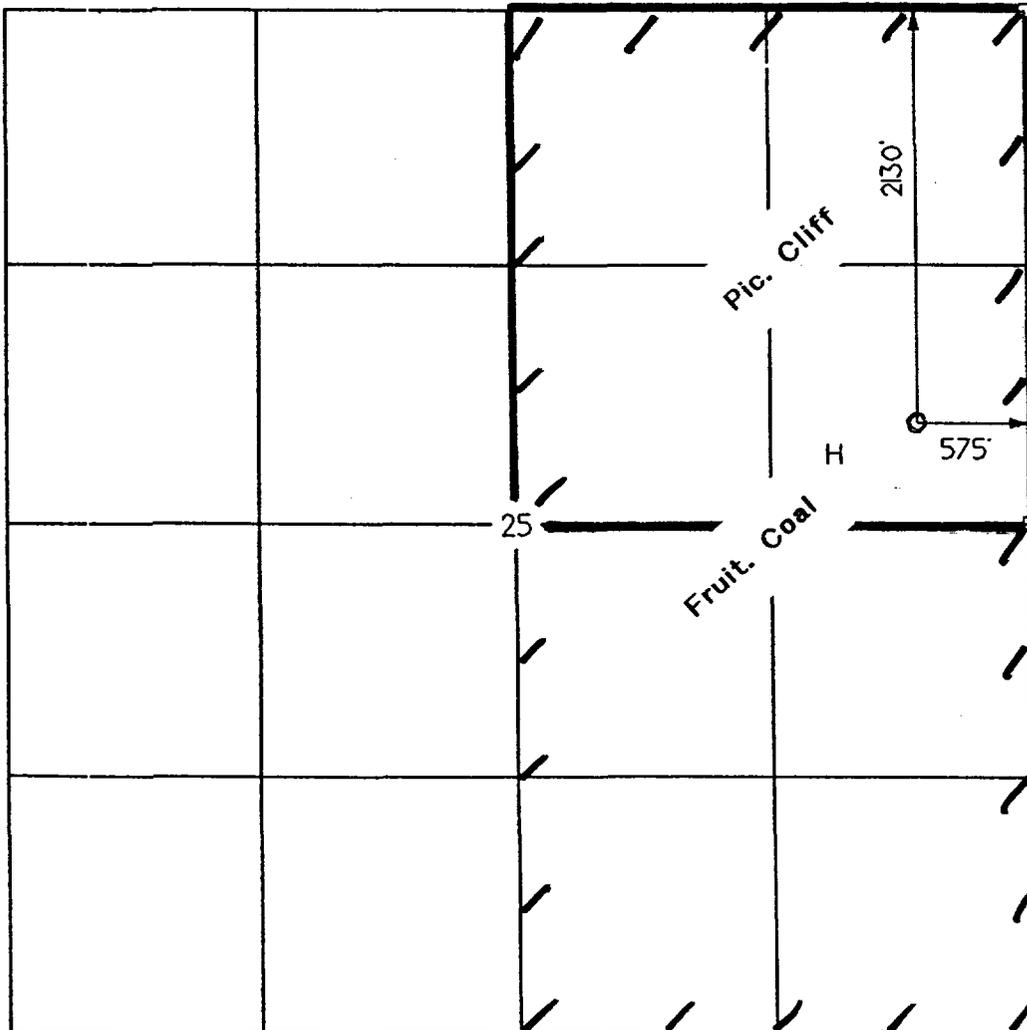
APA Number	Pool Code	Pool Name
	71629 & 78160	FRUIT. COAL & HARP. HILL PC EXT
Property Code	Property Name	Well Number
	WF FEDERAL	25 - 1
GRID No.	Operator Name	Elevation
019219	RICHARDSON OPERATING COMPANY	5450'

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
H	25	30 N.	14 W.		2130'	NORTH	575'	EAST	SAN JUAN

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County

Dedication	Joint ?	Consolidation	Order No.

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature *Brian Wood*

Printed Name **BRIAN WOOD**

Title **CONSULTANT**

Date **MAY 20, 2001**

SURVEYOR CERTIFICATION
I hereby certify that the well location 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 belief.

Date of Survey **13 DECEMBER 2000**

Signature and Seal of Professional Surveyor
GERALD G. HUBBLESTON
6844
REGISTERED LAND SURVEYOR

Richardson Operating Co.
WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 1

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
Kirtland Sh	000'	5'	+5,450'
Basal Fruitland Coal	1170'	1605'	+4,280'
Pictured Cliffs Ss	1190'	1630'	+4,260'
Total Depth (TD)*	1320'	1755'	+4,130'

* all elevations reflect the ungraded ground level of 5,450'

2. NOTABLE ZONES

Gas Zones

Fruitland Coal (1170')
Pictured Cliffs (1190')

Water Zones

Fruitland Coal (1170')

Coal Zones

Fruitland Coal (1170')

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple up and after any use under pressure to 1000 psi.

Richardson Operating Co.
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Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 2

Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is ≈ 700 psi.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,320'

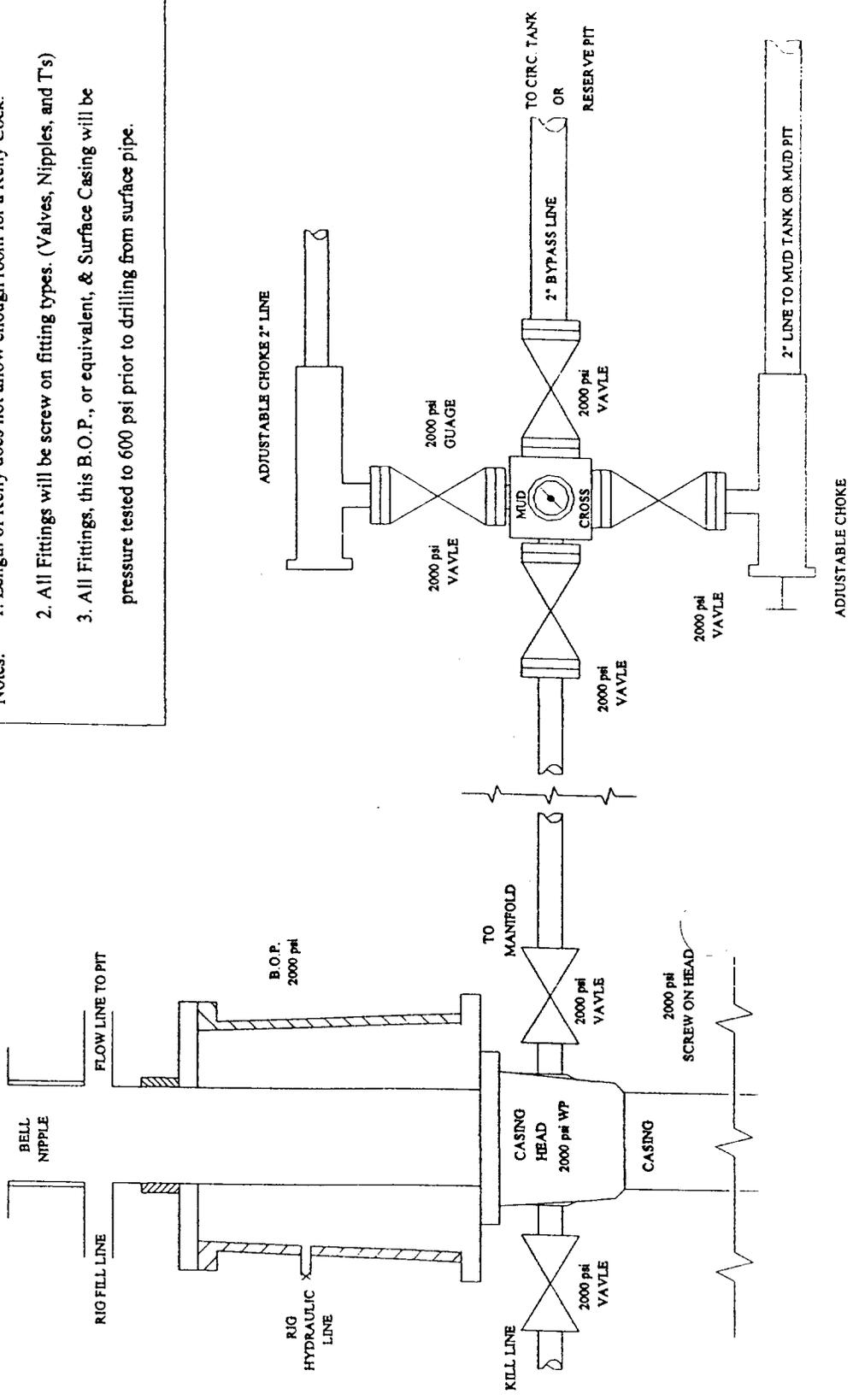
Surface casing will be cemented to surface with ≈ 36 cu. ft. (≈ 30 sx) Class B + 2% CaCl_2 . Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Thirty barrels of fresh water will next be circulated. Lead with ≈ 110 cu. ft. (≈ 54 sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with ≈ 80 cu. ft. (≈ 68 sx) of Class B with 2% CaCl_2 (yield = 1.18 cu. ft./sk, slurry weight = 15.6 PPG). Total cement volume is ≈ 190 cu. ft. based on 75% excess and circulating to surface.

Production casing will have 4-1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Four centralizers will be spaced on every other joint starting above the shoe. Four turbolizers will be placed on every other joint starting from the top of the well.

BLOW OUT PREVENTOR (B.O.P.)

- Notes:
1. Length of Kelly does not allow enough room for a Kelly Cock.
 2. All Fittings will be screw on fitting types. (Valves, Nipples, and T's)
 3. All Fittings, this B.O.P., or equivalent, & Surface Casing will be pressure tested to 600 psi prior to drilling from surface pipe.



** 2000 psi Rubber hose will be used from Well Head to Manifold & from Well Head to Kill Line.

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WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 4

5. MUD PROGRAM

Surface casing hole will be drilled with fresh water. Production casing hole will be drilled with a fresh water polymer mud. Weighting material will be drill solids or, if needed, barite. Maximum expected mud weight will be 8.7 pounds per gallon. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.

6. CORING, TESTING, & LOGGING

No cores or DSTs are planned. Induction/GR, cement bond, and density logs will be run from TD to surface.

7. DOWNHOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be \approx 530 psi.

8. OTHER INFORMATION

The anticipated spud date is July 1, 2001. It is expected it will take four days to drill and one week to complete the well.

Richardson Operating Co.
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2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 5

Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See Pages 9 & 10)

From the equivalent of Milepost 2.3 on the LaPlata Highway ...
Turn left through a broken aluminum gate ...
Then go NW 2.3 mi. on a dirt road to a junction
Then bear right and go N 0.1 mi. on a dirt road
Then bear right at a meter run and go N 2/3 mi. to the Twin Mounds 1-E
The new well is on the N side of the existing Twin Mounds 1-E pad

Roads will be maintained to a standard at least equal to their present condition. *Authorization for off-lease access is being sought by this APD doubling as a BLM right-of-way application. Right-of-way application covers 30' x 6,800' (=4.68 acres) of existing road in SWSW & Lots 14 & 15, Section 30 and NESE, S2NE4, NWNE, NENW, & Lot 1 Sec. 31; both T. 30 N., R. 13 W.*

2. ROAD TO BE BUILT OR UPGRADED (See Page 10)

No new road will be built. Existing road only needs maintaining.

3. EXISTING WELLS (See Page 10)

Nine gas and three plugged and abandoned wells are within a mile radius according to NM Oil Conservation Division records in Santa Fe. There are no water, oil, or injection wells within a mile.

4. PROPOSED PRODUCTION FACILITIES

Richardson Operating Co.
WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 6

A pump, meter run, and separator will be installed on the pad. Surface equipment will be painted a flat Carlsbad tan color.

Two ≈ 3 " SDR-11 poly pipelines will be buried in one ≈ 36 " deep trench by Richardson Operating Co. The trench will go south across Richardson's Twin Mounds 1-E pad for its entire 100' length. The gas line will operate at ≈ 50 psi. The water line will operate ≈ 60 psi. Test pressure will be 128 psi. Test medium will be the well's own gas and water. Water will be discharged into the reserve pit. Burst pressure is 630 psi at 60° Celsius. Wall thickness is 0.318". Joints will be joined with butt heat fusion. The pipeline route will be posted with markers.

5. WATER SUPPLY

Water will be trucked from a private water source in Farmington.

6. CONSTRUCTION MATERIALS & METHODS

A diversion ditch will be cut west of the pad to tie into the existing ditch. There is no topsoil. A ≈ 12 mil plastic liner will be installed in the reserve pit.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage and hauled to the county landfill. There will be no trash burning. Once dry, contents of the reserve pit will be buried in place. Human waste will be disposed of in chemical toilets and hauled to an approved dump station.

8. ANCILLARY FACILITIES

Richardson Operating Co.
WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

PAGE 7

There will be no air strips or camps. Camper trailers may be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Pages 11 and 12 for depictions of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate, at which point it will be backfilled. The pad and backfilled pit will be recontoured to a natural appearance, soil spread evenly over disturbed areas, and disturbed areas ripped or harrowed. Five pounds of shadscale will be drilled between July 1 and September 15. If broadcast, the rate will be doubled. A harrow or cable will be dragged over the area to assure seed cover.

If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed as previously described.

11. SURFACE OWNER

All construction is on BLM surface.

12. OTHER INFORMATION

The nearest hospital is a 20 minute drive away in southwest Farmington.

Richardson Operating Co.
WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico

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13. REPRESENTATION

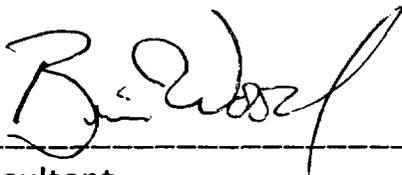
Anyone having questions concerning the APD should call:

Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87505
(505) 466-8120 FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:

John Durham
Richardson Operating Co.
3100 LaPlata Highway
Farmington, NM 87401
(505) 564-3100 FAX: (505) 564-3109 Cellular: (505) 320-0247

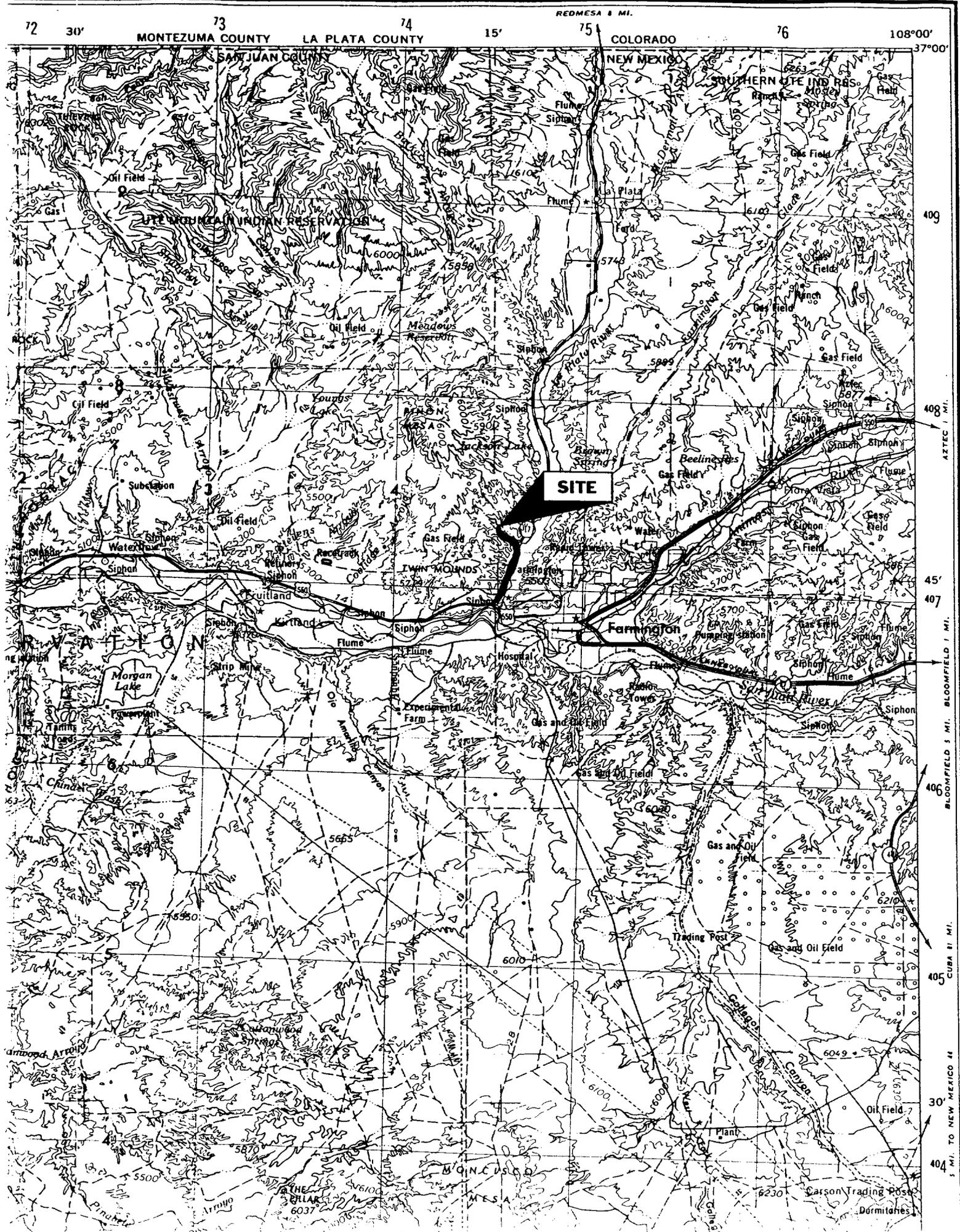
Richardson Operating Co. has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by Richardson Operating Co. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Richardson Operating Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Consultant

May 20, 2001

Date



SITE

Farmington

Morgan Lake

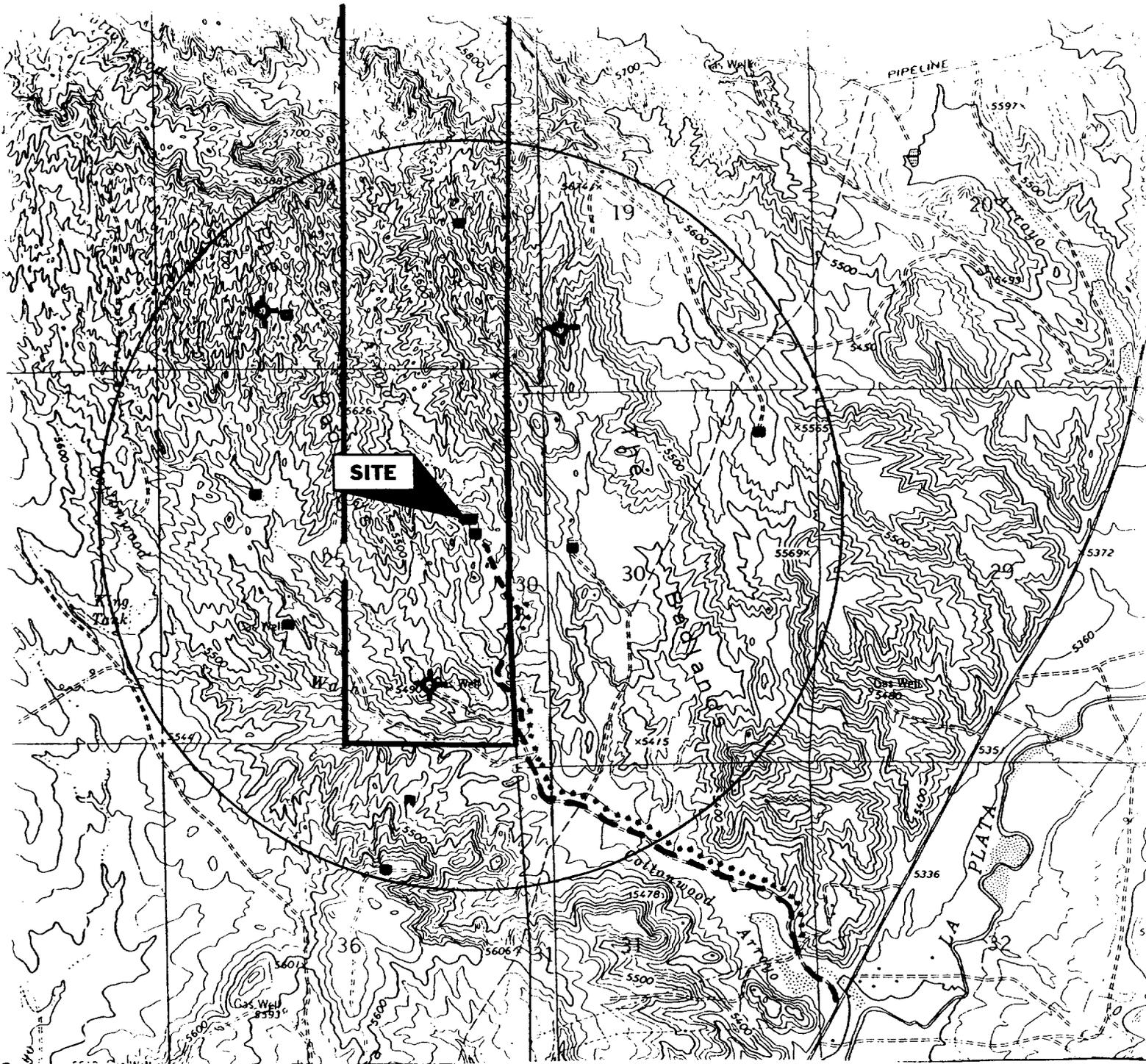
Experimental Farm

Trading Post

Carson Trading Post

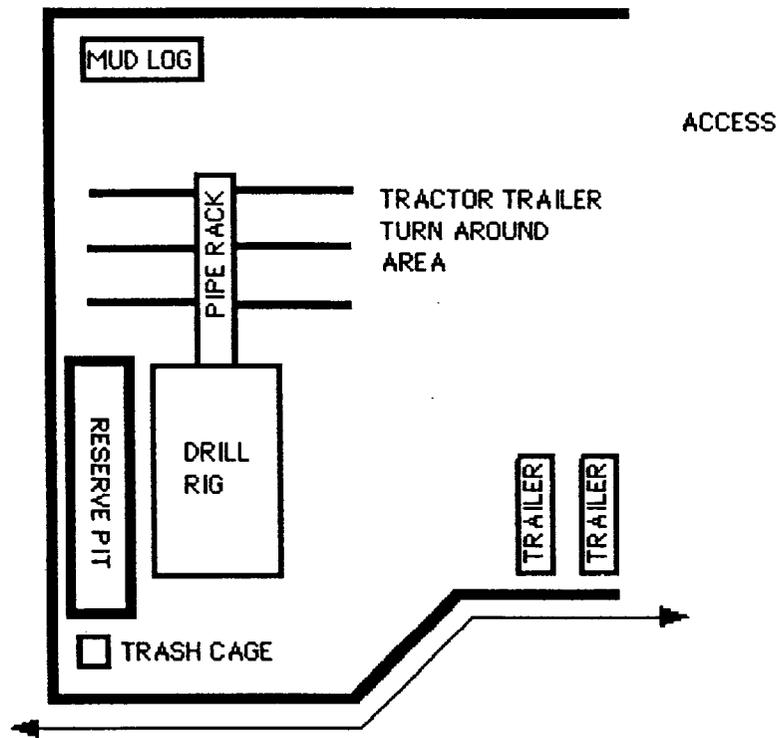
Dormitories

Richardson Operating Co.
 WF Federal 25 #1
 2130' FNL & 575' FEL
 Sec. 25, T. 30 N., R. 14 W.
 San Juan County, New Mexico



- PROPOSED WELL: ■
- EXISTING WELL: ●
- P&A WELL: ⊕
- LEASE: ┌
- EXISTING ROAD: - - -
- RIGHT-OF-WAY APPLN.:

Richardson Operating Co.
WF Federal 25 #1
2130' FNL & 575' FEL
Sec. 25, T. 30 N., R. 14 W.
San Juan County, New Mexico



NORTH ← 1" ≈ 40'

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 17 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Amoco Production Co.
 P. O. Box 800
 Denver, Co. 80202

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

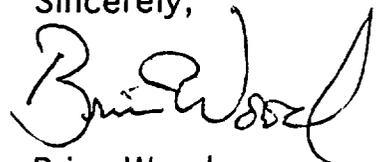
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Proposed Producing Zones: Pictured Cliffs sandstone & Fruitland coal
Acreage Dedication: 144.12 ac. (≈NE4) to PC & 290.38 ac. (≈E2) to Fruit.
Location: 2130' FNL & 575' FEL Sec. 25, T. 30 N., R. 14 W.,
 San Juan County, NM on Federal lease NM-0207001
Approximate Location: ≈4 air miles northwest of Farmington, NM
Applicant Name: Richardson Operating Co. (303) 830-8000
Applicant's Address: 1700 Lincoln St., Suite 1700, Denver, Co. 80203

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 2040 S. Pacheco, Santa Fe, NM 87504. Their phone number is (505) 827-7131.

Please call me if you have any questions.

Sincerely,



Brian Wood

7099 3220 0006 3444 4764

Article Sent To:		Amoco Denver	
Postage	\$.34	Certified Fee	1.90
Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)	1.50
Total Postage & Fees		\$ 3.74	

POST OFFICE EMBRESS SANTA FE, NM
 JUN - 2 2001
 Postmark Here
 87505-5458

PS Form 3800, July 1999 See Reverse for Instructions

June 1, 2001

Tucker Bayless
 Robert L. Bayless
 P. O. Box 168
 Farmington, NM 87499

Dear Tucker,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

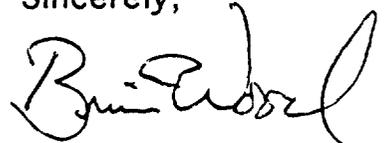
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Sincerely,

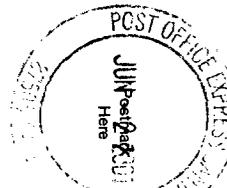


Brian Wood

7099 3220 0006 3444 4757

Postage		\$.34
Certified Fee		1.90
Return Receipt Fee (Endorsement Required)		1.50
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees		\$ 3.74

Article Sent To: Bayless Fern 87499



PERMITS WEST INC.
 17 VERANO LOOP
 SANTA FE, NM 87505
 See Reverse for Instructions

PS Form 3800, July 1999

U.S. Postal Service
CERTIFIED MAIL RECEIPT 1
 (Domestic Mail Only: No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

BHP Petroleum Americas Inc.
 1360 Post Oak, #500
 Houston, Tx. 77056-3020

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood
 Brian Wood

7099 3220 0006 3444 4979

Article Sent To:		BHP	Houston	77056
Postage	Certified Fee	\$.34	1.90	
Return Receipt Fee (Endorsement Required)	Restricted Delivery Fee (Endorsement Required)		1.50	
Total Postage & Fees		\$ 3.74		

Name (Please Print Clearly) *PERMITS WEST, INC.*
 Street, Apt. No.; or *37 VERANO LOOP*
 City, State, ZIP *SANTA FE, NM 87505*

PS Form 3800, July 1999 See Reverse for Instructions

POST OFFICE EXPRESS
 Postmark Here
 JUN - 2 2001
 SANTA FE, NM

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only: No Insurance Coverage Provided)

PERMITS WEST . INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Van Goebel
 Burlington Resources Oil and Gas Company
 P.O. Box 4289
 Farmington, NM 87499

Dear Van,

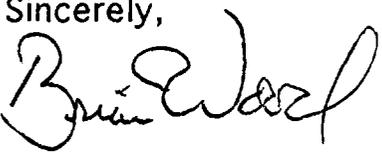
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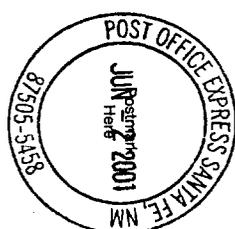
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Please call me if you have any questions.

Sincerely,

 Brian Wood

7099 3220 0006 3444 4948

Article Sent To:	
Burlington Farm - 87499	
Postage	\$.34
Certified Fee	1.90
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.74



Name (Please Print Clearly) to be completed by sender: PERMITS WEST, INC.
 Street, Apt. No. or P.O. No.: 37 VERANO LOOP
 City, State, ZIP+4: SANTA FE, NM 87505
 PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only. No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Calpine Natural Gas
 1000 Louisiana, #8
 Houston, Tx. 77002

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Please call me if you have any questions.

Sincerely,

Brian Wood
 Brian Wood

7099 3220 0006 3444 4986

Article Sent To:		Calpine		Houston TX 77002	
Postage	\$.34	Return Receipt Fee (Endorsement Required)	1.90	Restricted Delivery Fee (Endorsement Required)	1.50
Total Postage & Fees	\$ 3.74				

Name (Please Print Clearly) (To be completed by mailer)
 PERMITS WEST, INC.
 37 VERANO LOOP
 SANTA FE, NM 87505

POST OFFICE EXPRESS SANTA FE, NM
 JUN 1 2001
 87505-5458

PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only: No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 17 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Colt Resources Corp.
 550 N. 31st, #300
 Billings, Mt. 59103

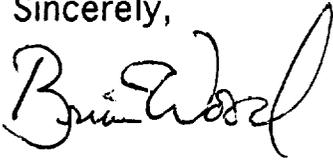
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Please call me if you have any questions.

Sincerely,

 Brian Wood

7099 3220 0006 3444 4931

Article Sent To:		Colt	
Postage	\$.34	Return Receipt Fee (Endorsement Required)	1.90
Certified Fee	1.50	Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees		\$ 3.74	

POST OFFICE EXPRESS SANTA FE, NM
 JUN 2 2001
 Here
 87505-5458

Name (Please Print): PERMITS WEST, INC.
 Street, Apt. No.: or P.O. No.: 17 VERANO LOOP
 City, State, ZIP+4: SANTA FE, NM 87501
 PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only. No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Dave Poage
 Dugan Production Corp.
 P. O. Box 420
 Farmington, NM 87499

Dear Dave,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,



Brian Wood

7099 3220 0006 3444 4740

Article Sent To:	
Dugan	Farm. 87499
Postage	\$.34
Certified Fee	1.90
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.74

Postmark
JUN - 2 2001

PERMITS WEST, INC.
 37 VERANO LOOP
 SANTA FE, NM 87505

PS Form 3800, July 1999 See Reverse for Instructions

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)**

June 1, 2001

Stella Dysart
 4925 2nd Ave. South
 St. Petersburg, Fl. 33707-1905

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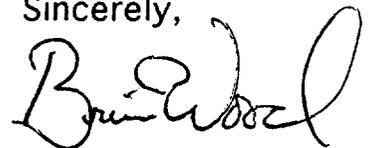
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Sincerely,



Brian Wood

7099 3220 0006 3444 4863

Name (Please Print Clearly) (To be completed by mailer) PERMITS WEST, INC. 37 VERANO LOOP SANTA FE, NM 87505		Article Sent To: Dysart St. Pete 33707	
City, State, ZIP+4 Santa Fe, NM 87505	Street, Apt. No., or PO Box No. 4925 2nd Ave. South	Postage \$.24	Certified Fee 1.90
PS Form 3800, July 1999 See Reverse for Instructions	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$ 3.74	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)	1.50



U.S. POSTAL SERVICE
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only: No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Elliott Mgt. Co.
 Elliott Industries Colorado
 P. O. Box 1355
 Roswell, NM 88202-1355

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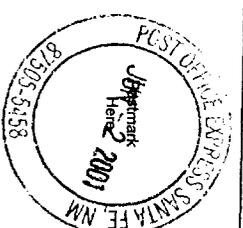
Please call me if you have any questions.

Sincerely,

Brian Wood
 Brian Wood

7099 3220 0006 3444 4894

Article Sent To:		Elliott	Roswell	88202
Postage	Certified Fee	\$.34	1.90	
Return Receipt Fee (Endorsement Required)	Restricted Delivery Fee (Endorsement Required)		1.50	
Total Postage & Fees		\$ 3.74		



Name (Please Print) **PERMITS WEST, INC.**
 Street, Apt. No., or P.O. Box **37 VERANO LOOP**
 City, State, ZIP+4 **SANTA FE, NM 87505**
 PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

George E. Hall & Elliott Hall Co.
 P. O. Box 1231
 Ogden, Ut. 84402-1231

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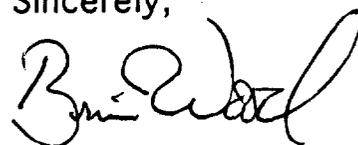
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Please call me if you have any questions.

Sincerely,



Brian Wood

7099 3220 0006 3444 4801

Article Sent To: Hall Ogden 84402	
Postage \$ Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$	PS Form 3800, July 1999 See Reverse for Instructions Name (Please Print Clearly) (To be completed by mailer) PERMITS WEST, INC. 37 VERANO LOOP SANTA FE, NM 87505
POST OFFICE BOX JUN - 12 2001 POSTMARK	
CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Wm. G. Helis Co.
 228 St. Charles Ave.
 New Orleans, La. 70130

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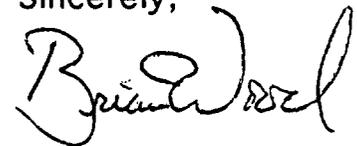
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Applicant Name: Richardson Operating Co. (303) 830-8000
Applicant's Address: 1700 Lincoln St., Suite 1700, Denver, Co. 80203

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 2040 S. Pacheco, Santa Fe, NM 87504. Their phone number is (505) 827-7131.

Please call me if you have any questions.

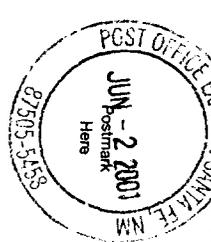
Sincerely,



Brian Wood

7099 3220 0006 3444 4955

Article Sent To:		Helis Richardson 70130	
Postage	\$.34	Return Receipt Fee (Endorsement Required)	1.90
Certified Fee	1.50	Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.74		



Name (Please Print Clearly) (To be completed by mailer)
 PERMITS WEST, INC.
 Street, Apt. No.; or PO Box #
 37 VERANO LOOP
 City, State, ZIP+4
 SANTA FE, NM 87505
 PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only. No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 17 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Jane Seiler
 Questar Expl. & Production Company
 1331 17th St., Suite 300
 Denver, Co. 80202

Dear Jane,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

Richardson Operating Co. is applying to drill its WF Federal 25 #1 gas well. The minimum state distance is 660' from a quarter section line. The proposed well is 85' further east and 150' further south than is standard. Thus, it is a non-standard location. The non-standard location is due to topography (see attached map).

Well Name: WF Federal 25 #1 Total Depth: 1,320'
Proposed Producing Zones: Pictured Cliffs sandstone & Fruitland coal
Acreage Dedication: 144.12 ac. (≈NE4) to PC & 290.38 ac. (≈E2) to Fruit.
Location: 2130' FNL & 575' FEL Sec. 25, T. 30 N., R. 14 W.,
 San Juan County, NM on Federal lease NM-0207001
Approximate Location: ≈4 air miles northwest of Farmington, NM
Applicant Name: Richardson Operating Co. (303) 830-8000
Applicant's Address: 1700 Lincoln St., Suite 1700, Denver, Co. 80203

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 2040 S. Pacheco, Santa Fe, NM 87504. Their phone number is (505) 827-7131.

Please call me if you have any questions.

Sincerely,

Brian Wood
 Brian Wood

7099 3220 0006 3444 4962

Article Sent To: Questar Denver 80202	
Postage	\$.34
Certified Fee	1.90
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.74

POST OFFICE EXPRESS SANTA FE, NM
 JUN 1 2001
 87503-5458

Name (Please Print)
 PERMITS WEST, INC.
 Street, Apt. No.:
 17 VERANO LOOP
 City, State, ZIP+4:
 SANTA FE, NM 87505

PS Form 3800, July 1999 See Reverse for Instructions

CERTIFIED MAIL RECEIPT
 (Domestic Mail Only. No Insurance Coverage Provided)

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

June 1, 2001

Laurie Tur
 Texaco, Inc.
 P. O. Box 2100
 Denver, Co. 80201-2100

Dear Laurie,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location for a well. This letter is a notice only. No action is needed unless you have questions or objections.

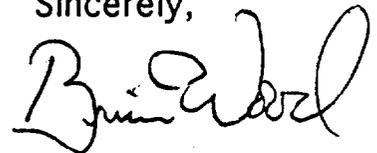
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Approximate Location: ≈4 air miles northwest of Farmington, NM
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Applicant's Address: 1700 Lincoln St., Suite 1700, Denver, Co. 80203

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 2040 S. Pacheco, Santa Fe, NM 87504. Their phone number is (505) 827-7131.

Please call me if you have any questions.

Sincerely,



Brian Wood

7099 3220 0006 3444 4870

Article Sent To:		Texaco Denver 80201	
Postage	\$.34	Certified Fee	1.90
Return Receipt Fee (Endorsement Required)	1.50	Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.74		

POST OFFICE EXPRESS SANTA FE, NM
 JUN - 2 2001
 87505-5458

PERMITS WEST, INC.
 37 VERANO LOOP
 SANTA FE, NM 87505

PS Form 3800, July 1999 See Reverse for Instructions

CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/07/01 15:34:40
OGOMES -TPEN
PAGE NO: 1

Sec : 25 Twp : 30N Rng : 14W Section Type : NORMAL

D 40.00 Federal owned	C 40.00 Federal owned	B 40.00 Federal owned	1 32.31 Federal owned
E 40.00 Federal owned	F 40.00 Federal owned A	G 40.00 Federal owned	<i>144.12</i> 2 31.81 <i>90.03%</i> Federal owned A

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/07/01 15:34:43
OGOMES -TPEN
PAGE NO: 2

Sec : 25 Twp : 30N Rng : 14W Section Type : NORMAL

L 40.00 Federal owned C	K 40.00 Federal owned A	J 40.00 Federal owned	3 31.80 Federal owned 7
4 40.09 Federal owned	5 40.27 Federal owned	6 40.54 Federal owned	7 33.92 Federal owned

146.26

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 EKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

290.38
90.74%

Stogner, Michael

From: Stogner, Michael
Sent: Saturday, July 07, 2001 4:11 PM
To: Hayden, Steven; Perrin, Charlie
Cc: Chavez, Frank
Subject: WF Fed. 25 #1

I'm reviewing an application for Richardson Operating Company (submitted by Permits West, Inc. on June 4, 2001) for the W.F. Federal "25" Well No. 1 to be drilled 2130' FNL & 575' FEL (Lot 2/Unit H) of Section 25, T30N, R14W and dually completed in both the Pictured Cliffs (to be dedicated to the NE/4 equivalent of Section 25) and Fruitland Coal (to be dedicated to the E/2 equivalent of Section 25) intervals. The application indicates that a copy was sent to Aztec. Does Aztec have any comments or concerns with this filing? I'll wait your response. Thanks.

Stogner, Michael

From: Hayden, Steven
Sent: Monday, July 09, 2001 7:47 AM
To: Stogner, Michael
Subject: RE: WF Fed. 25 #1

Mike

I don't have any objection to the topographic exception on this well. We have not received this apd yet. The BLM typically take 6 to 10 months to approve ROPCO's apds. Other operators (mostly the large ones) seem to get their applications through much faster, some as fast as three weeks.

I recently started making notes of how long it takes before we get them.

From: Stogner, Michael
Sent: Saturday, July 07, 2001 4:11 PM
To: Hayden, Steven; Perrin, Charlie
Cc: Chavez, Frank
Subject: WF Fed. 25 #1

I'm reviewing an application for Richardson Operating Company (submitted by Permits West, Inc. on June 4, 2001) for the W.F. Federal "25" Well No. 1 to be drilled 2130' FNL & 575' FEL (Lot 2/Unit H) of Section 25, T30N, R14W and dually completed in both the Pictured Cliffs (to be dedicated to the NE/4 equivalent of Section 25) and Fruitland Coal (to be dedicated to the E/2 equivalent of Section 25) intervals. The application indicates that a copy was sent to Aztec. Does Aztec have any comments or concerns with this filing? I'll wait your response.
Thanks.

County SAN JUAN

Pool HARPER HILL FRUITLAND ^{SAND} PICTURED CLIFFS

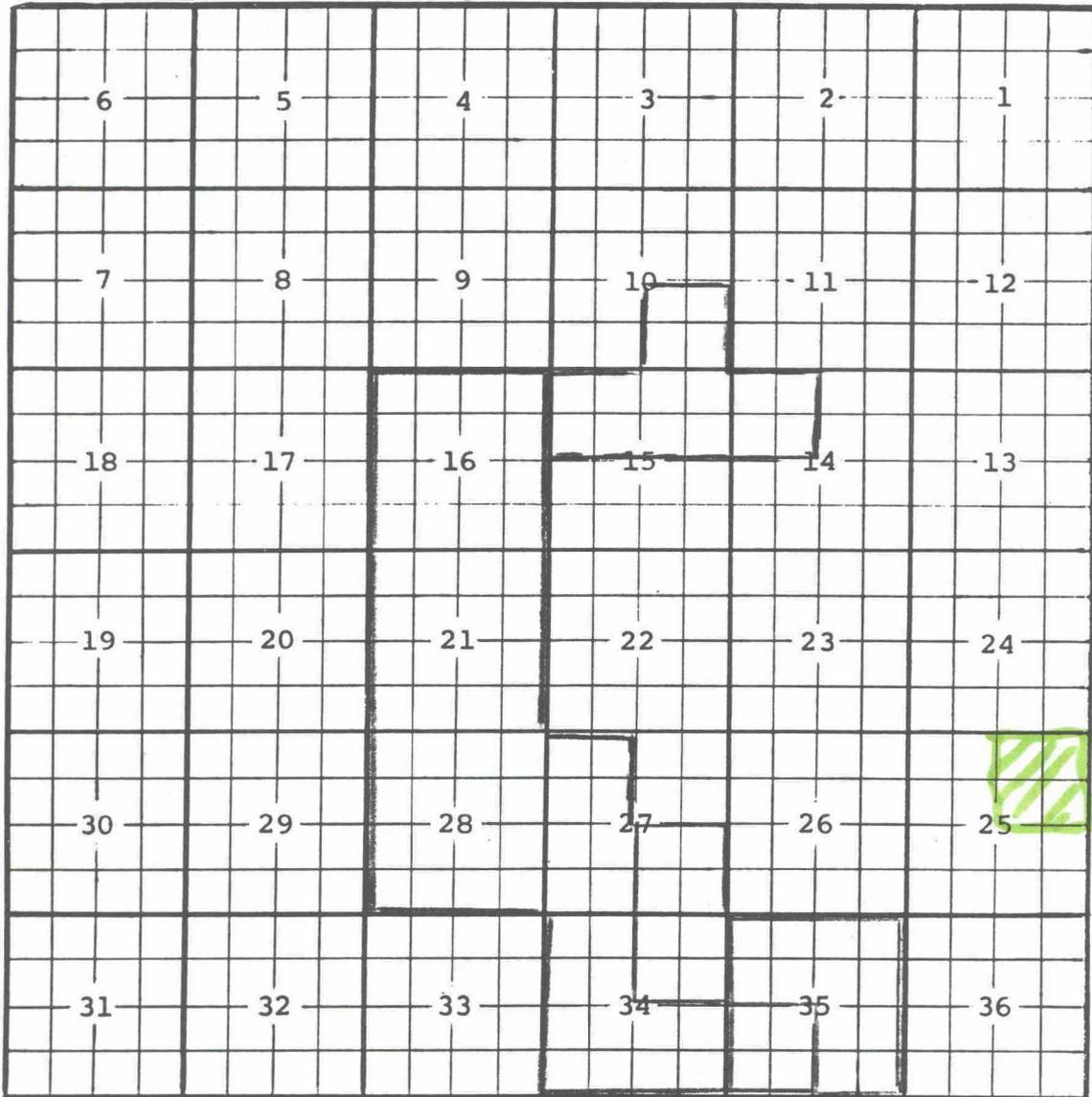
TOWNSHIP

30 N

Range

14 W

NMPM



Ext: $N\frac{1}{2} + SE\frac{1}{4}$ Sec. 35 (R-6180, 11-1-79) Ext: $SE\frac{1}{4}$ Sec. 27, $NE\frac{1}{4}$ Sec. 34,
 $SW\frac{1}{4}$ Sec. 35 (R-6327, 5-1-80) REDESIGNATED (R-8769, 10/17/88)
 Ext: All Sec. 16, All Sec. 21, $W\frac{1}{2}$ Sec. 27, All Sec. 28, $SE\frac{1}{4}$ and $W\frac{1}{2}$ Sec. 34 (R-11445, 9-5-00)
 Ext: $SE\frac{1}{4}$ Sec. 10, $NE\frac{1}{4}$ Sec. 14, $N\frac{1}{2}$ Sec. 15 (R-11540, 2-26-01)