

DUMMY SHEET



3/30/03
 SUSPENSE 6/19/03 ENGINEER WLS LOGGED IN W TYPE NSL APP NO. PRRV0315350793

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

Rec. 5-30-03

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

RICHARDSON'S
 NV RACHELLE 23 #4
 (30-045-31184)

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or _ Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	Signature	Title	Date
BRIAN WOOD (505) 466-8120 FAX 466-9682		CONSULTANT	5-30-03
			e-mail Address brian@permitswest.com

REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION
FOR RICHARDSON OPERATING COMPANY'S
NV RACHELLE 23 #4 GAS WELL
435' FSL & 2050' FWL SEC. 23, T. 29 N., R. 14 W., SAN JUAN COUNTY, NM

I. The well is staked on Navajo Tribal Trust surface and on Navajo Tribal Trust lease 14-20-603-2198A. The proposed well is non-standard for the West Kutz Pictured Cliffs and the Basin Fruitland coal gas due to terrain (too steep). The well must be $\geq 660'$ from all quarter section lines. This proposed well is 435' from the south line and 2050' from the east line of Section 23. Thus, it is 225' too far south and 70' too far west. It is non-standard to the southwest quarter of Section 23 and north half of Section 26. The APD and a Sundry Notice are attached (EXHIBIT A).

Richardson controls all Pictured Cliff and Fruitland coal gas rights in a one mile radius. All leases in a one mile + radius are Navajo Tribal Trust (see Exhibit B).

Richardson has already has staked, filed APDs, or drilled wells for all Fruitland or Pictured Cliffs offset locations (Exhibit C). Closest such well is Richardson's NV Kyle 23 #3 (30-045-31184) which is 2,265' west.

II. A C-102 (Exhibit D) showing the well location and pro ration units (solid line marking the east half = 320 acres for the Fruitland and a dashed line marking the southeast quarter = 160 acres for the Pictured Cliffs) is attached. Richardson's lease 14-20-603-2198A (= solid line) is shown on Exhibit B) of the Kirtland USGS topo map. The well is $>7,000'$ from the closest non-Richardson operated lease or non-Tribal lease.

III. According to NM Oil Conservation Records; there is no existing or proposed production from the Fruitland or Pictured Cliffs within a 2,265' radius. Closest such well is Richardson's NV Kyle 23 #3 at 956' FSL & 1025' FWL 23-29n-14w. A copy of the Kirtland 7.5' USGS map (Exhibit C) is attached showing the proposed well site and other proposed or existing gas wells (all Richardson) within one mile. Richardson is the operator of all leases within $>7,000'$. Registered letters were sent on May 30, 2003 to the only affected interest owners. Copies are provided.

IV. The proposed well and Basin Fruitland coal gas pro ration unit (east half Section 23 = 320 acres) are both marked on the attached copy of the Kirtland USGS map (Exhibit E). Solid line represents the pro ration unit. Dashed line represents the drilling window.

The proposed well and Pictured Cliffs pro ration unit (southeast quarter of Section 23 = 160 acres) are both marked on Exhibit F. Solid line represents the pro ration unit. Dashed line represents the drilling window.

V. Terrain forces a non-standard location. The well was initially staked at a standard location of 1594 FSL & 1732 FEL (see Exhibit G). This was rejected because of the height of the cuts (13') and fills (13') on the pad and length (700') of road along a sandy ridge with a 10% grade. The non-standard location (435' FSL & 2050' FEL) has a maximum cut and fill of 2' each. It overlaps a plugged and abandoned Gallup oil well (NW Cha Cha Unit 34-23) beside a power line. No new road is needed since it overlaps an existing road.

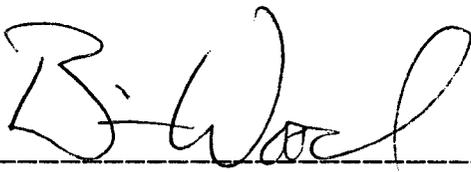
VI. Archaeology is not an issue.

VII. The non-standard location is requested because of terrain. All of the drilling window is a series of steep narrow sandy ridges.

VIII. Directional drilling is not a feasible for such a shallow well.

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:

Navajo Nation Minerals Department
Paul & Patricia Slayton



Brian Wood, Consultant

May 30, 2003
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **Richardson Operating Company**

3a. Address **3100 LaPlata Highway
Farmington, NM 87401**

3b. Phone No. (include area code)
(505) 564-3100

4. Location of Well (Frontage, Sec., T., R., M., or Survey Description)
**SURFACE: 435' FSL & 2050' FEL 23-29n-14w
BHL: SAME**

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.
14-20-603-2198A

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or C/A Agreement, Name and/or No.
N/A

8. Well Name and No.
NV Rachele 23 #4

9. API Well No.
30-045-31184

10. Field and Pool, or Exploratory Area
W Kutz PC & Basin Fr. Coal

11. County or Parish, State
SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or to recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Add Basin Fruitland Coal Gas as additional zone.
Otherwise, no change in down hole or surface use plans.**

cc: BIA, BLM, Jones, Tribe

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **BRIAN WOOD** Title **CONSULTANT** (505) 466-8120

Signature *B. Wood* Date **5-28-03**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice 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.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

State of New Mexico
Energy, Minerals & Mining Resources Department
OL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102
* ADDITIONAL POOL:
BASIN FRUITLAND COAL GAS
* AMENDED REPORT

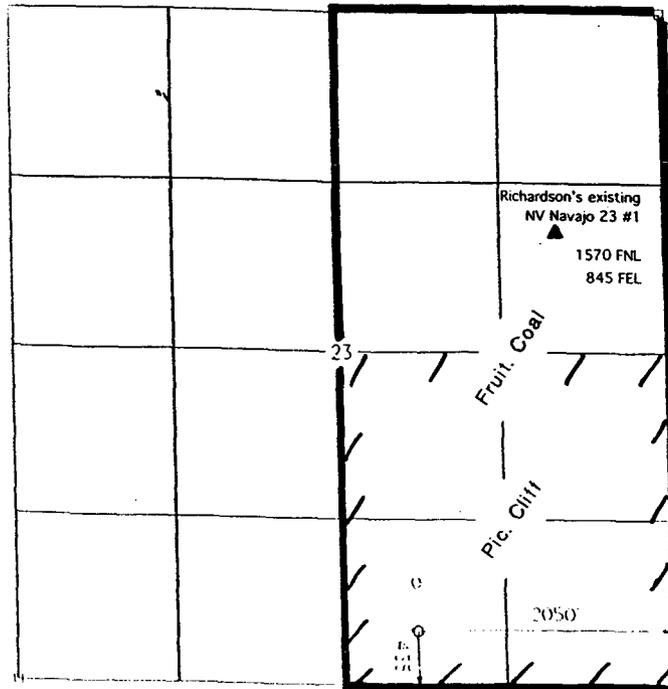
WELL LOCATION AND ACREAGE DEDICATION PLAT

APN Number	Pool Code	Pool Name
	79680 *	WEST KUTZ PICTURED CLIFFS *
Property Code	Property Name	Well Number
	NV Navajo 23	4
OGRD No.	Operator Name	Elevation
019219	RICHARDSON OPERATING COMPANY	5505'

UL or Lot	Sec.	Top.	Rge.	Lot Idn	Feet From	North/South	Feet From	East/West	County
0	23	29. N	14 W		.435'	SOUTH	2050.	EAST	SAN JUAN

UL or Lot	Sec.	Top.	Rge.	Lot Idn	Feet From	North/South	Feet From	East/West	County
Dedication	Joint ?				Consolidation			Order No.	

NO ALLOWABLE WELL 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 *B. Wood*

Printed Name **BRIAN WOOD**

Title **CONSULTANT**

Date **May 28, 2003**

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 _____

Signature and Seal of Professional Surveyor *[Signature]*

REGISTERED LAND SURVEYOR
6849

[Handwritten signatures]

EXHIBIT A

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0146
Expires November 30, 2000

5. Lease Serial No.
14-20-603-2198A

6. If Indian, Allottee or Tribe Name
NAVAJO

7. If Unit or CA Agreement, Name and No.
N/A

8. Lease Name and Well No.
NV RACHELLE 23 #4

9. AP Well No.
30-045-31184

10. Field and Pool, or Exploratory
W KUTZ PC

11. Sec., T., R., M., or Blk. and Survey or Area
23-29n-14w NMPM

12. County or Parish
SAN JUAN

13. State
NM

14. Type of Work DRILL REENTER

15. Type of Well Oil Well Gas Well Other Single Zone Multiple Zone

Name of Operator
RICHARDSON OPERATING CO..

16. Address **3100 LaPLATA HIGHWAY FARMINGTON, NM 87401**

36. Phone No. (include area code)
(505) 564-3100

17. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface **435' FSL & 2050' FEL**
At proposed prod. zone **SAME**

18. Distance in miles and direction from nearest town or post office*
3 AIR MILES SW OF FARMINGTON

18. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)
435'

16. No. of Acres in lease
600

17. Spacing Unit dedicated to this well
PC: 160 AC. (SE4)

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1,282' (oil)

19. Proposed Depth
1,300'

20. BLM/BIA Bond No. on file
#158293308 (BLM - NATIONWIDE)

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5,505' GL

22. Approximate date work will start*
UPON APPROVAL

23. Estimated duration
2 WEEKS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

Comments

Notice of Staking filed as "Navajo 23 #4"

cc: BIA, BLM (&OCD), Richardson, Tribe

5. Signature *B. Wood* Name (Printed/Typed) **BRIAN WOOD** Date **8-16-02**

Title **CONSULTANT** PHONE: **505 466-8120** FAX: **505 466-9682**

Approved by (Signature) _____ Name (Printed/Typed) _____ Date _____

Title _____ Office _____

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, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

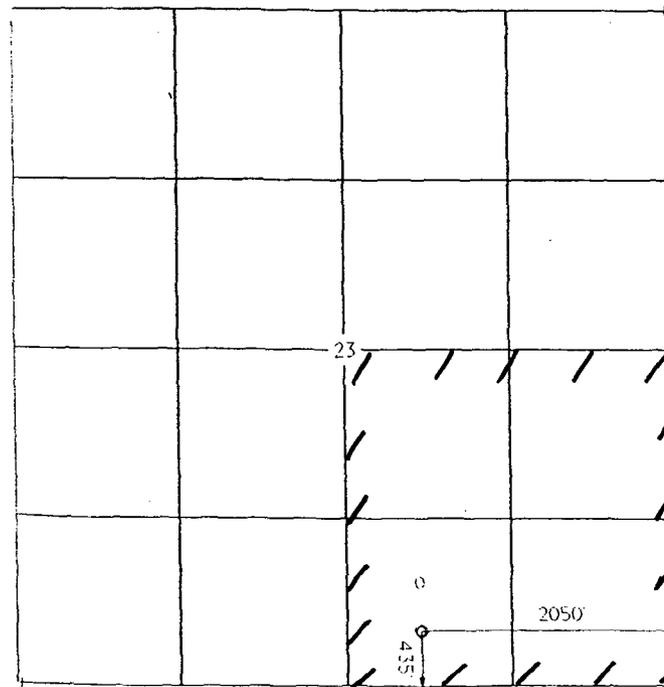
State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number	Pool Code	Pool Name							
	79680	WEST KUTZ PICTURED CLIFFS							
Property Code	Property Name	Well Number							
	NV Navajo 23	4							
OCRD No.	Operator Name	Elevation							
019219	RICHARDSON OPERATING COMPANY	5505							
Surface Location									
Ul. or Lot	Sec.	Typ.	Rge.	Lot lth.	Feet from >	North/South	Feet from >	East/West	County
0	23	29. N.	14. W.		.435'	SOUTH	2050.	EAST	SAN JUAN
Bottom Hole Location if Different From Surface									
Ul. or Lot	Sec.	Typ.	Rge.	Lot lth.	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 *B. Wood*

Printed Name **BRIAN WOOD**

Title **CONSULTANT**

Date **AUG. 16, 2002**

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



ENCLOSURE

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Kirtland Shale	000'	5'	+5,505'
Fruitland Coal	955'	960'	+4,550'
Pictured Cliffs Ss	1,060'	1,065'	+4,445'
Total Depth (TD)*	1,300'	1,305'	+4,205'

* all elevations reflect the ungraded ground level of 5,505'

2. NOTABLE ZONES

<u>Gas Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland Coal	Fruitland Coal	Fruitland Coal
Pictured Cliffs		

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.

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 ~440 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	1,300'

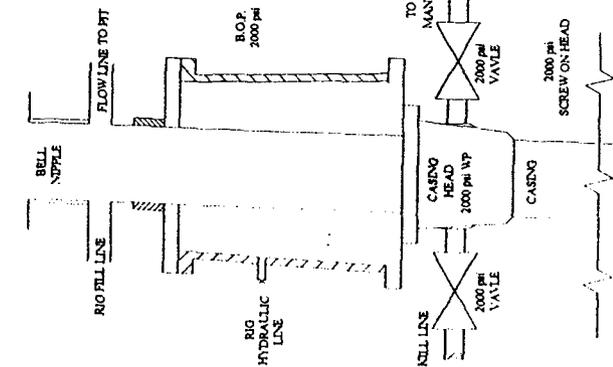
Surface casing will be cemented to surface with ~36 cu. ft. (~30 sacks) Class B + 2% CaCl₂. Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. W.O.C. = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

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 ~155 cubic feet (~75 sacks) Class B with 2% metasilicate (yield = 2.06 cubic feet per sack, slurry weight = 12.5 pounds per gallon). Tail with ~95 cubic feet (~80 sacks) of Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, slurry weight = 15.6 pounds per gallon). Total cement volume is ~250 cubic feet 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. Five centralizers will be spaced on every other joint starting above the shoe. Five turbolizers will be placed on every other joint starting from the top of the well.

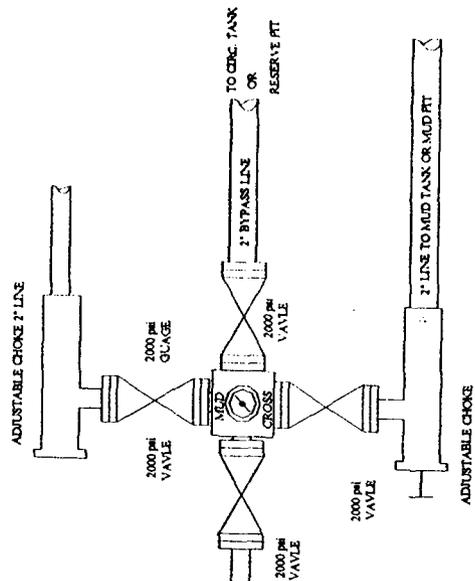
EXHIBIT A

BLOW OUT PREVENTER (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 Ts)
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.

EXHIBIT A

Richardson Operating Co.
 NV Rachele 23 #4
 435' FSL & 2050' FEL
 Sec. 23, T. 29 N., R. 14 W.
 San Juan County, New Mexico

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 drill stem tests are planned. Induction/GR and density log will be run from TD to surface.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ~520 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take four days to drill and one week to complete the well.

Surface Use Plan

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

From the San Juan River bridge in southwest Farmington ...
Go southwest on NM 371 to the equivalent of Milepost 105.9
Then turn right and go W 2.4 miles on paved N-36
Then turn left and go S 0.9 miles on N-363 (NM State University Road)
Then turn left at a white gate and go SE 0.5 mi. to the proposed well

Roads will be maintained to a standard at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED

No new road will be built. No road will be upgraded.

3. EXISTING WELLS (See PAGE 10)

Three gas wells, six oil wells, and seven plugged and abandoned wells are within a mile radius. There are no water or disposal wells within a mile according to NM Oil Conservation Division and NM State Engineer office records.

4. PROPOSED PRODUCTION FACILITIES (See PAGES 13 & 14)

A meter run and separator will be installed on the pad. Surface equipment will be painted a flat tan or juniper green color. Two 4" O. D. SDR-11 polyethylene pipelines will be buried by Richardson in one 36" deep trench. The trench will run west 2,415.10' to Richardson's NV Kyle 23 #3. Gas line will operate at 50 psi. 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 heat fused. Route will be posted with markers.

5. WATER SUPPLY

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

6. CONSTRUCTION MATERIALS & METHODS

NM One Call (1-800-321-ALERT), NAPI, and Kenson will be notified before construction starts. Soil and brush will be stripped and stored east of the pit. A minimum 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. Toilet contents will be hauled to an approved dump station.

8. ANCILLARY FACILITIES

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

Richardson Operating Co.
NV Rachele 23 #4
435' FSL & 2050' FEL
Sec. 23, T. 29 N., R. 14 W.
San Juan County, New Mexico

PAGE 7

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 filled. The pad and filled pit will be contoured to a natural appearance, soil spread evenly over disturbed areas, and disturbed areas ripped or harrowed. BLM's "down south" (aka, dry or low mix or mix #2) seed mix (below) will be drilled at a depth and time to be determined by BLM.

4 pounds per acre western wheatgrass
2-1/2 pounds per acre Indian ricegrass
1-1/2 pound per acre blue grama grass
0.1 pound pr acre antelope bitter brush
1/4 pound per acre four wing salt bush
1 pound per acre small burnet

If the well is a producer, then the pipeline route, reserve pit, and any other areas not needed for work overs will be reclaimed as described.

11. SURFACE OWNER

The project is on Navajo Tribal Trust surface. Project Review Office phone is (928) 871-7040. Address is P. O. Box 9000, Window Rock, Az. 86515.

12. OTHER INFORMATION

The nearest hospital is a 15 minute drive away in southwest Farmington.

PERMITS WEST INC.
PROVIDING PERMITS FOR LAND USERS

EXHIBIT A

Richardson Operating Co.
NV Rachele 23 #4
435' FSL & 2050' FEL
Sec. 23, T. 29 N., R. 14 W.
San Juan County, New Mexico

PAGE 8

13. REPRESENTATION

Anyone having questions concerning the APD should call:

Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87508
(505) 466-8120 FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:
David Richardson
Richardson Operating Co.
3100 LaPlata Highway
Farmington, NM 87401
(505) 564-3100 FAX: (505) 564-3109

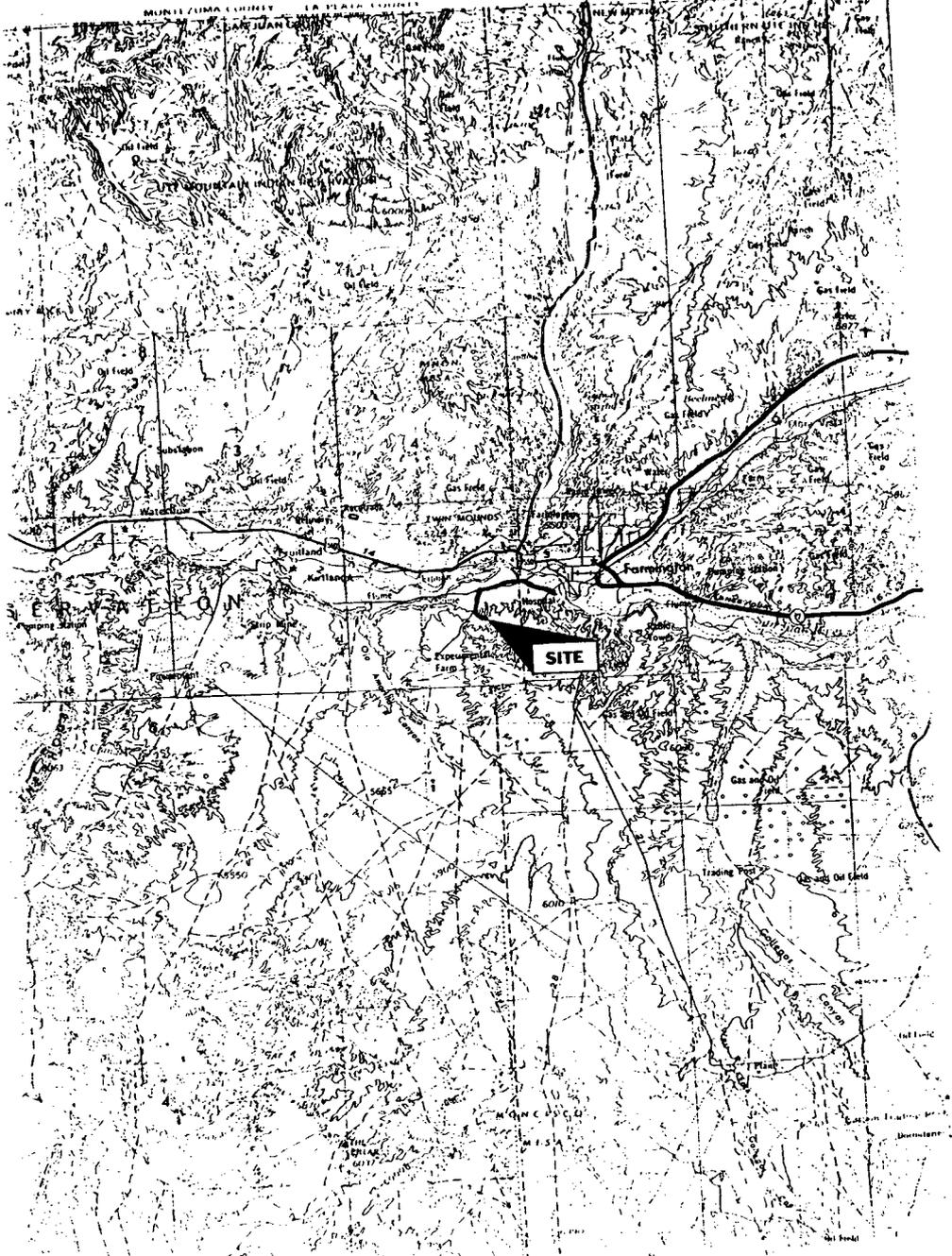
Richardson Operating Co. has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by Richardson Operating Co. I hereby certify that I, or persons under 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.



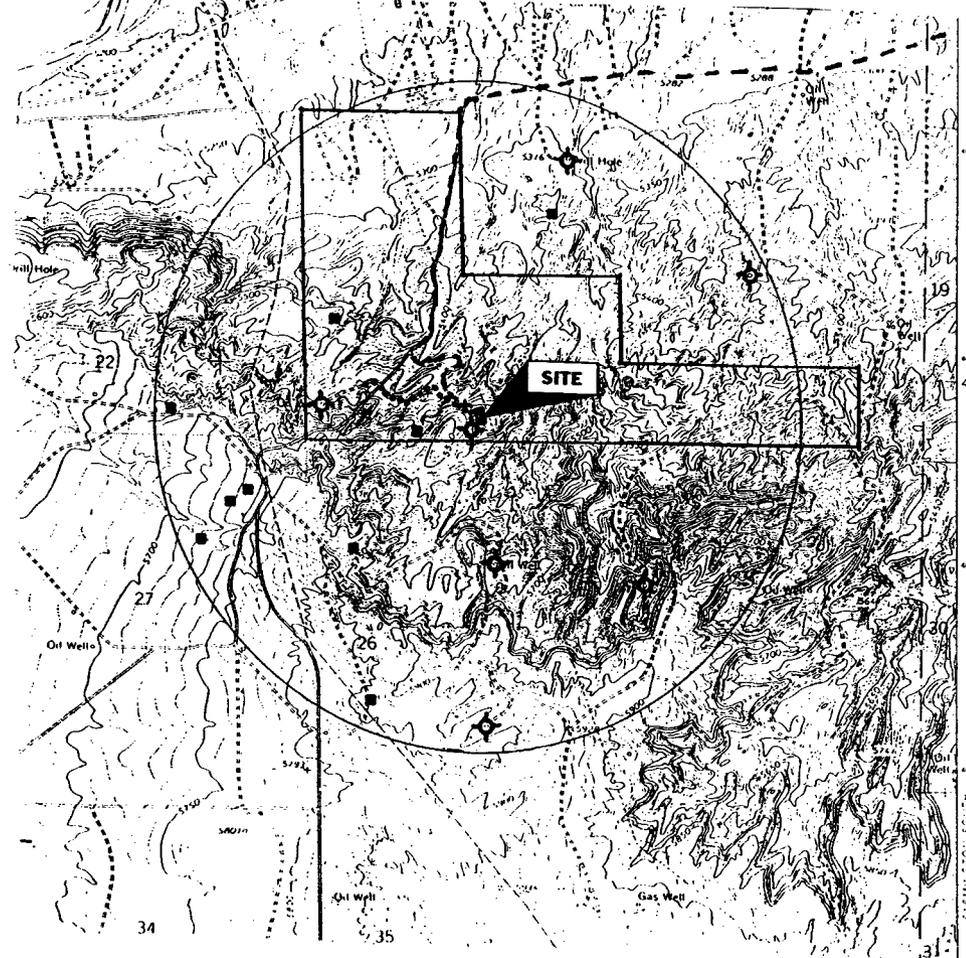
Brian Wood, Consultant

August 16, 2002
Date

PERMITS WEST INC.
PROVIDING PERMITS FOR LAND USERS



Richardson Operating Co.
 NV Rachele 23 #4
 435' FSL & 2050' FEL
 Sec. 23, T. 29 N., R. 14 W.
 San Juan County, New Mexico



- PROPOSED WELL: ■
- EXISTING WELL: ■
- P & A WELL: ⊕
- PROPOSED PIPELINES: ····
- EXISTING ROAD: - - - -
- LEASE: ▭

PERMITS WEST INC.
 PROVIDING PERMITS TO LAND OWNERS

EXHIBIT A

Richardson Operating Co.
 NV Rachelle 23 #4
 435' FSL & 2050' FEL
 Sec. 23, T. 29 N., R. 14 W.
 San Juan County, New Mexico

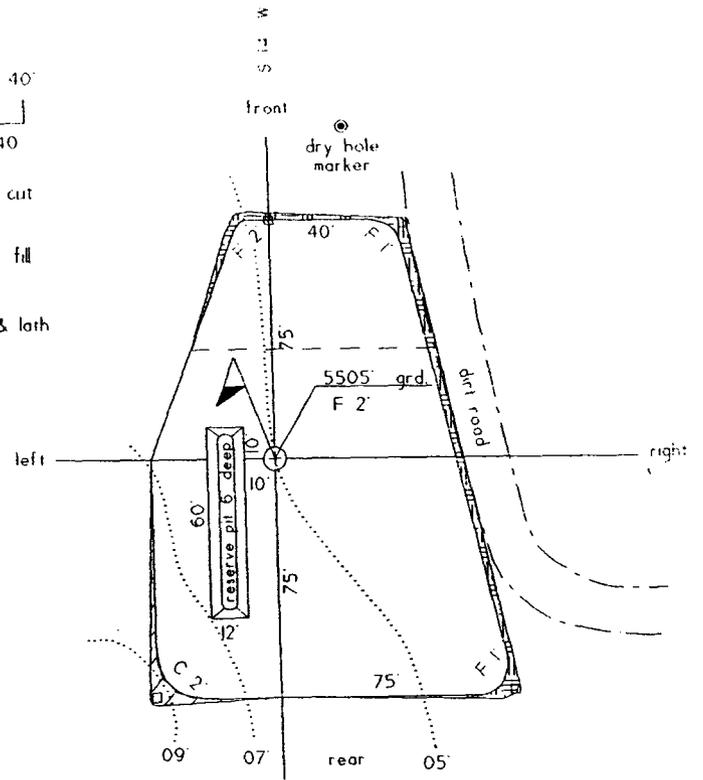
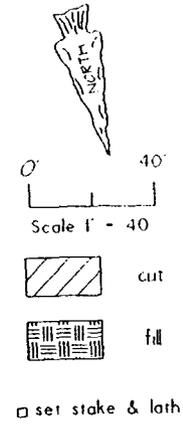
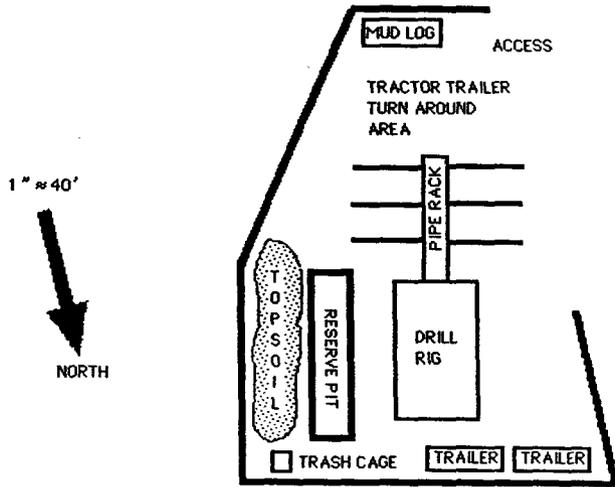
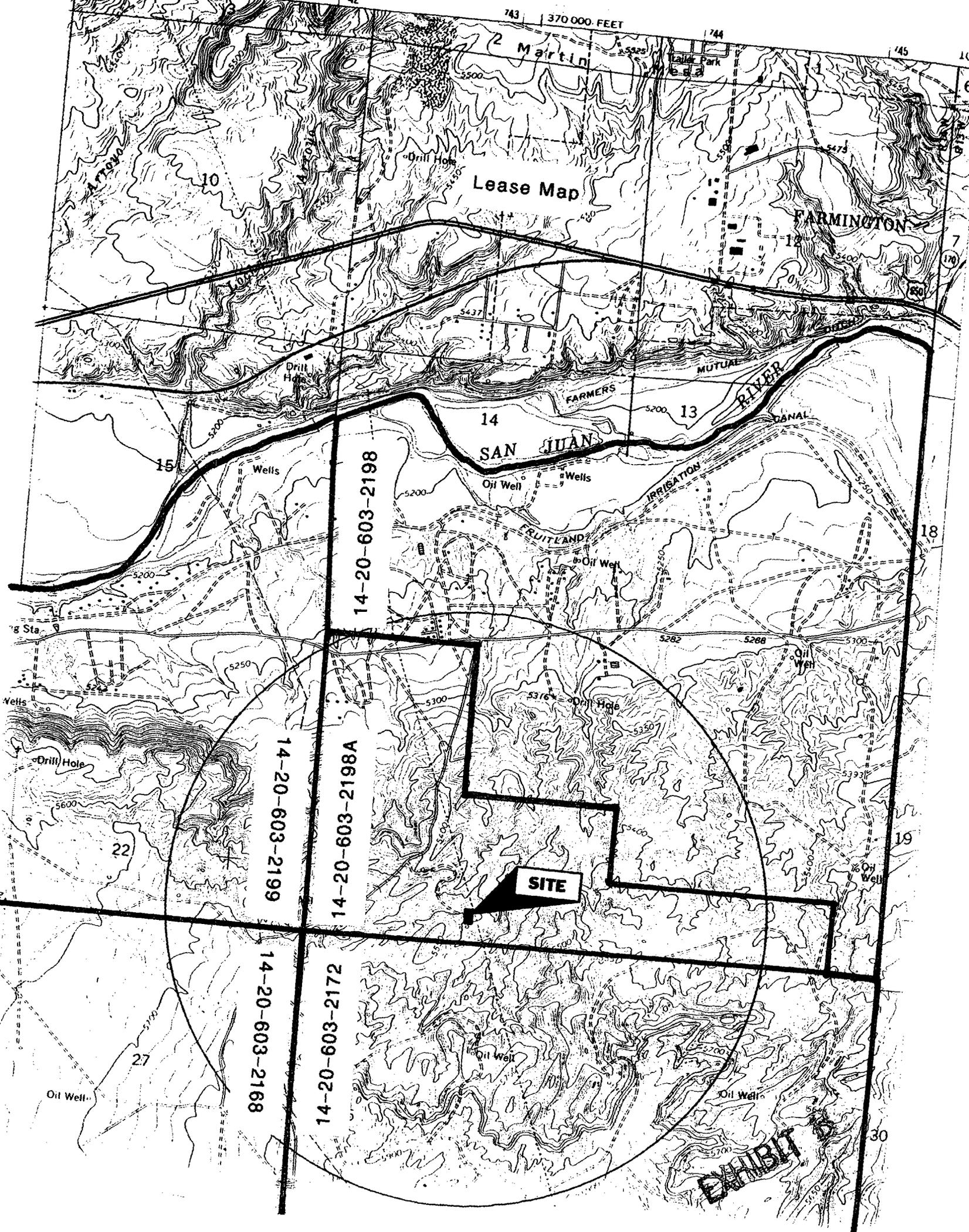


EXHIBIT A



370 000 FEET

Lease Map

FARMINGTON

SAN JUAN

SITE

EXHIBIT

14-20-603-2198

14-20-603-2199

14-20-603-2198
4-1

14-20-603-2168

14-20-603-2172

Martin

Taylor Park

FARMERS

MUTUAL RIVER CANAL

FRUITLAND

Wells

Oil Well

Wells

Oil Well

Drill Hole

Oil Well

Oil Well

Oil Well

Oil Well

g Sta.

Oil Well

Drill Hole

Drill Hole

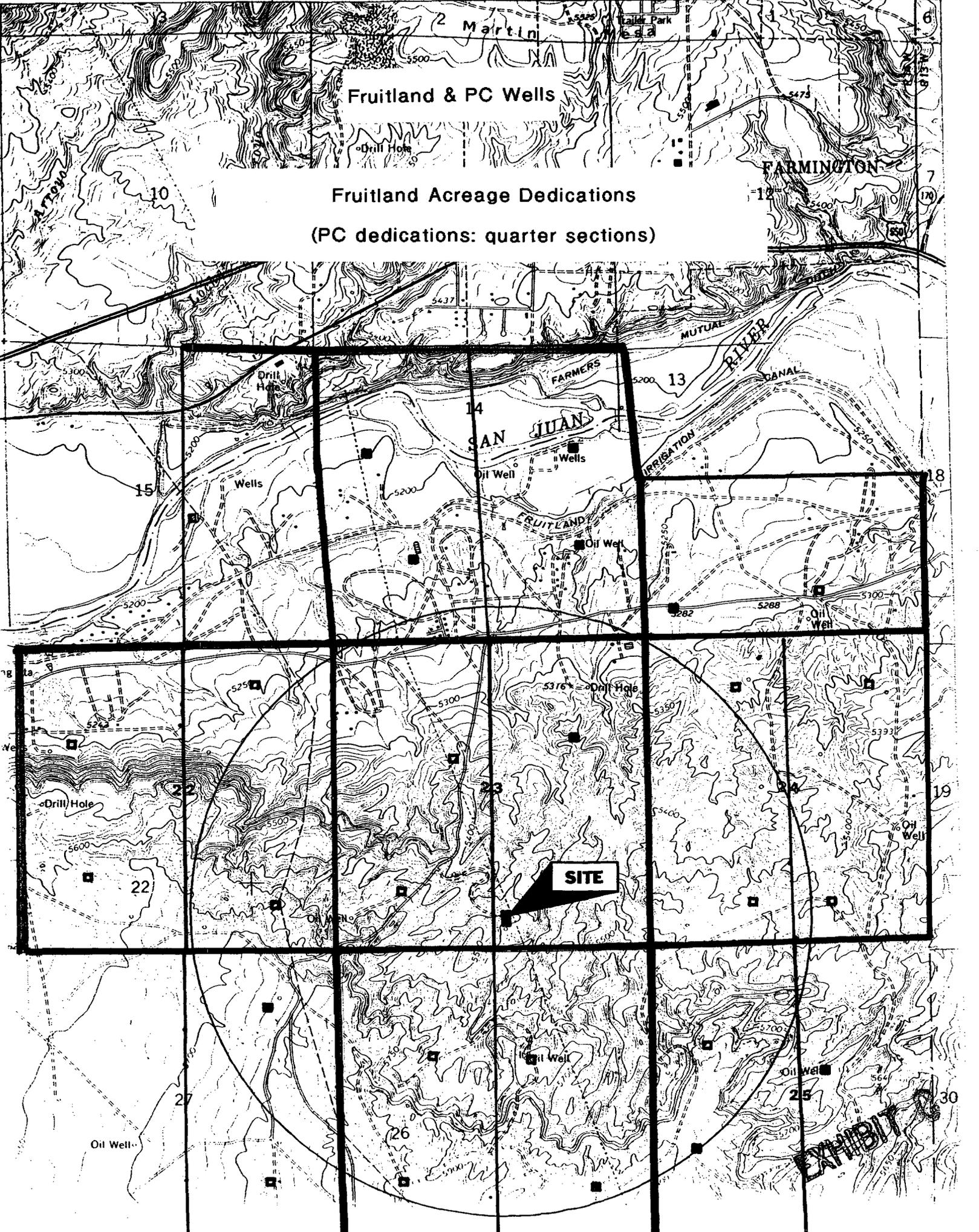
Drill Hole

Wells

Drill Hole

Fruitland & PC Wells

Fruitland Acreage Dedications (PC dedications: quarter sections)



State of New Mexico
 Energy, Minerals & Mining Resources Department
 OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C - 102

* ADDITIONAL POOL CODE:
 71629

* ADDITIONAL POOL:
 BASIN FRUITLAND COAL GAS
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

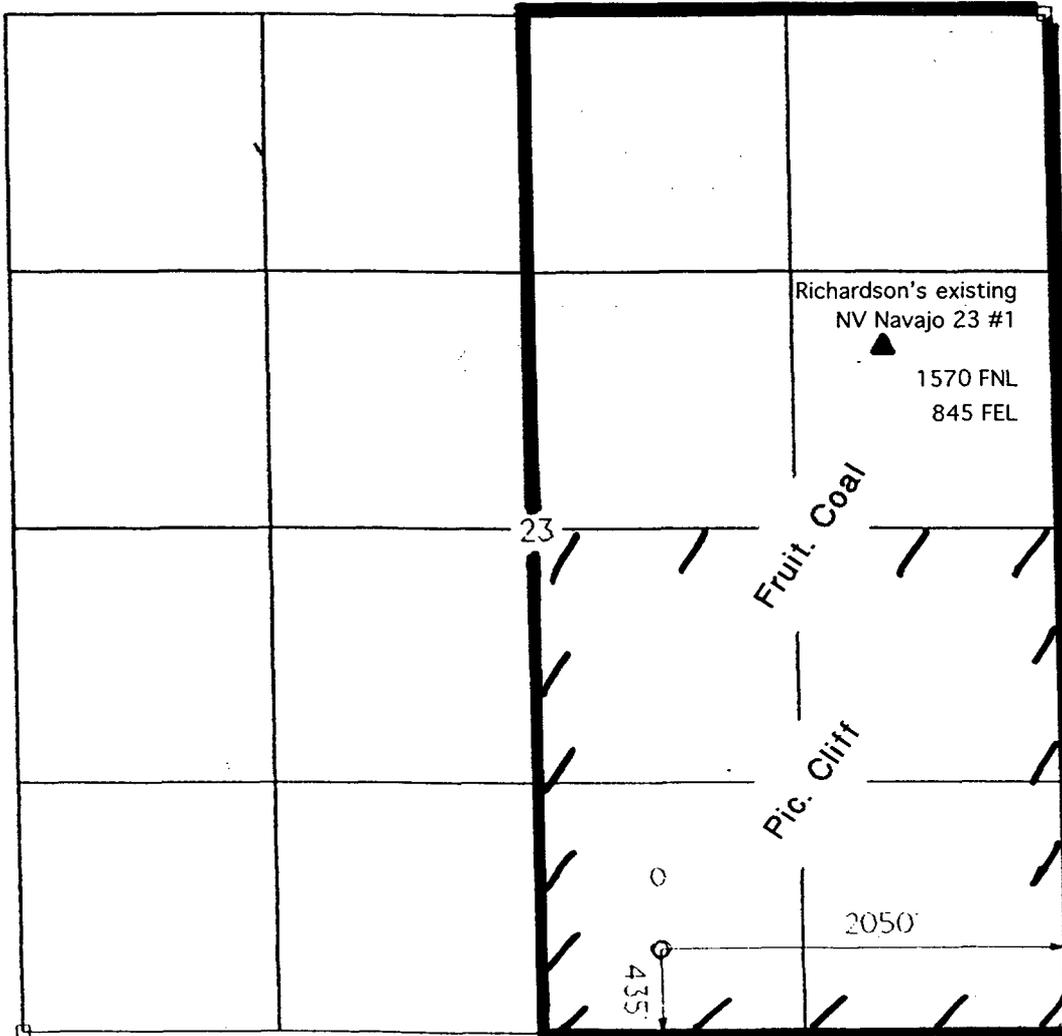
APA Number	Pool Code 79680 *	Pool Name WEST KUTZ PICTURED CLIFFS *
Property Code	Property Name NV Navajo 23	Well Number 4
OGRID No. 019219	Operator Name RICHARDSON OPERATING COMPANY	Elevation 5505'

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
0	23	29.N.	14.W.		.435'	SOUTH	2050.	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 *B. Wood*

Printed Name **BRIAN WOOD**

Title **CONSULTANT**

Date **May 28, 2003**

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

Signature *[Signature]*

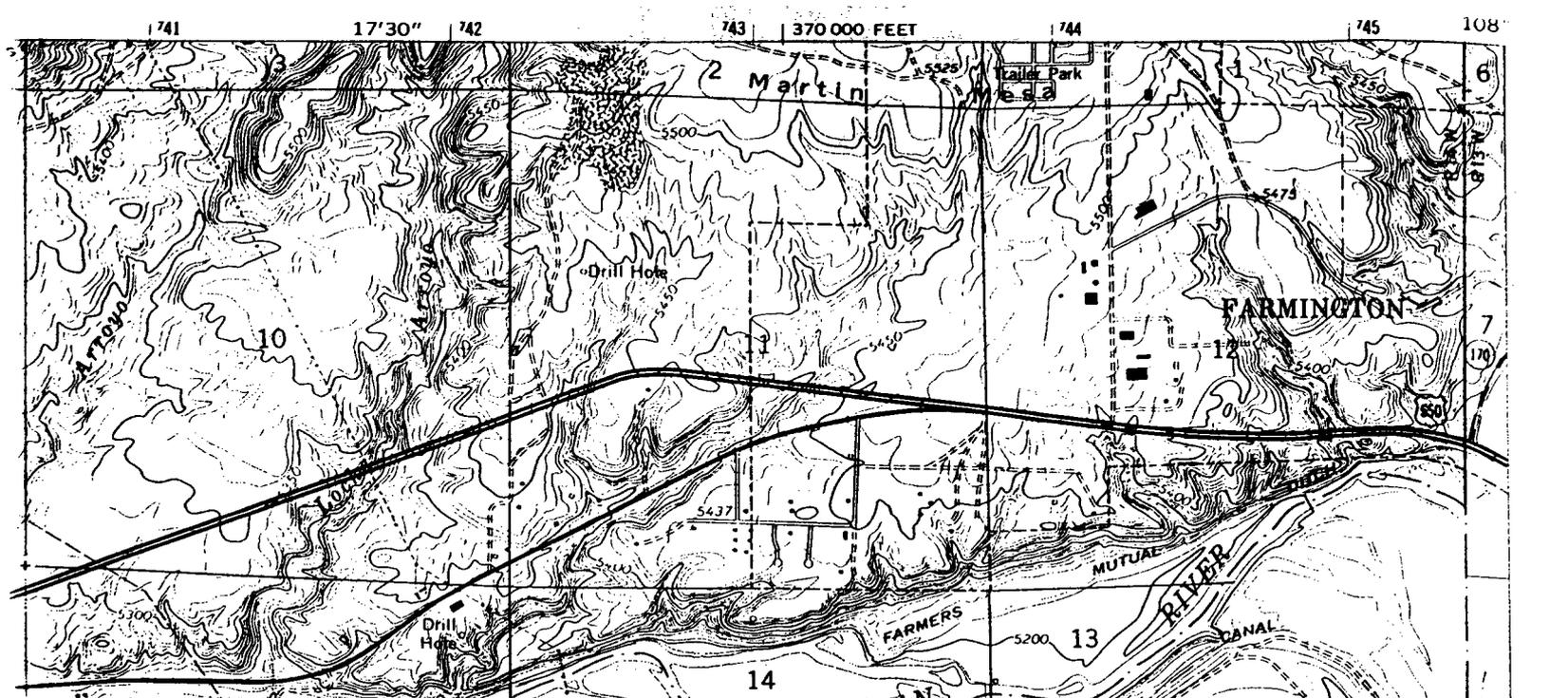
Professional Surveyor

CELESTINE, NM 87002

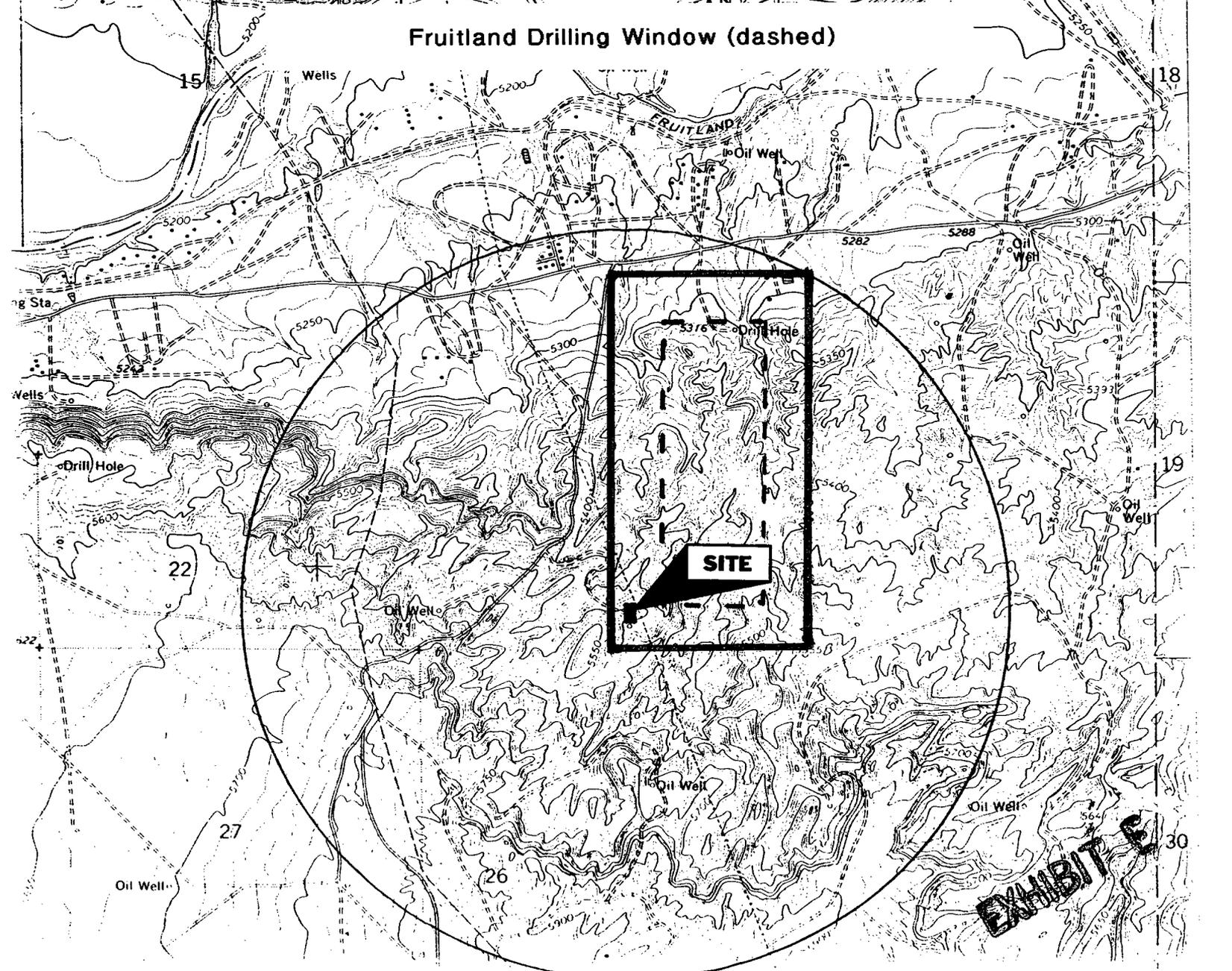
6844

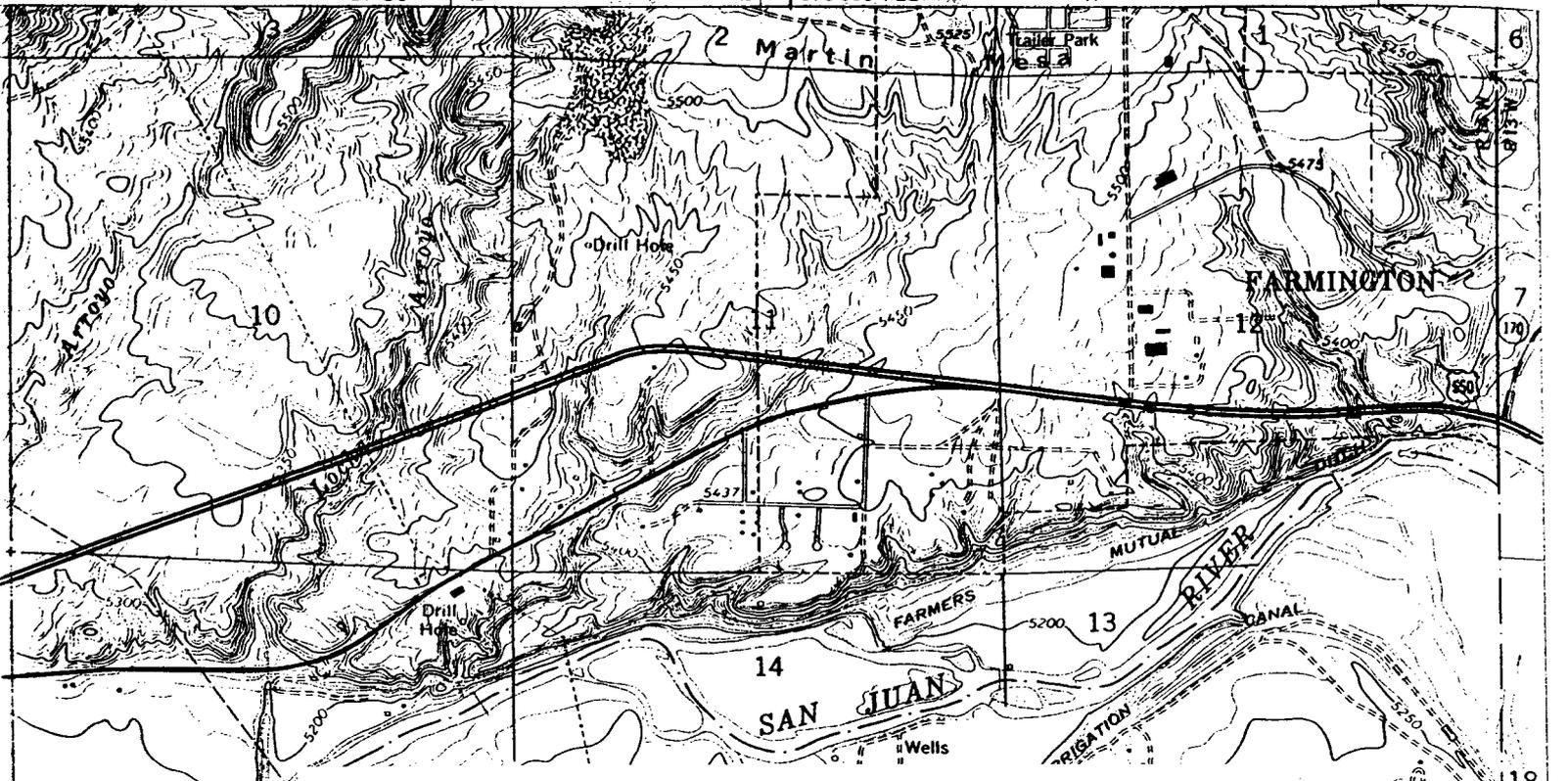
REGISTERED LAND SURVEYOR

EXHIBIT D

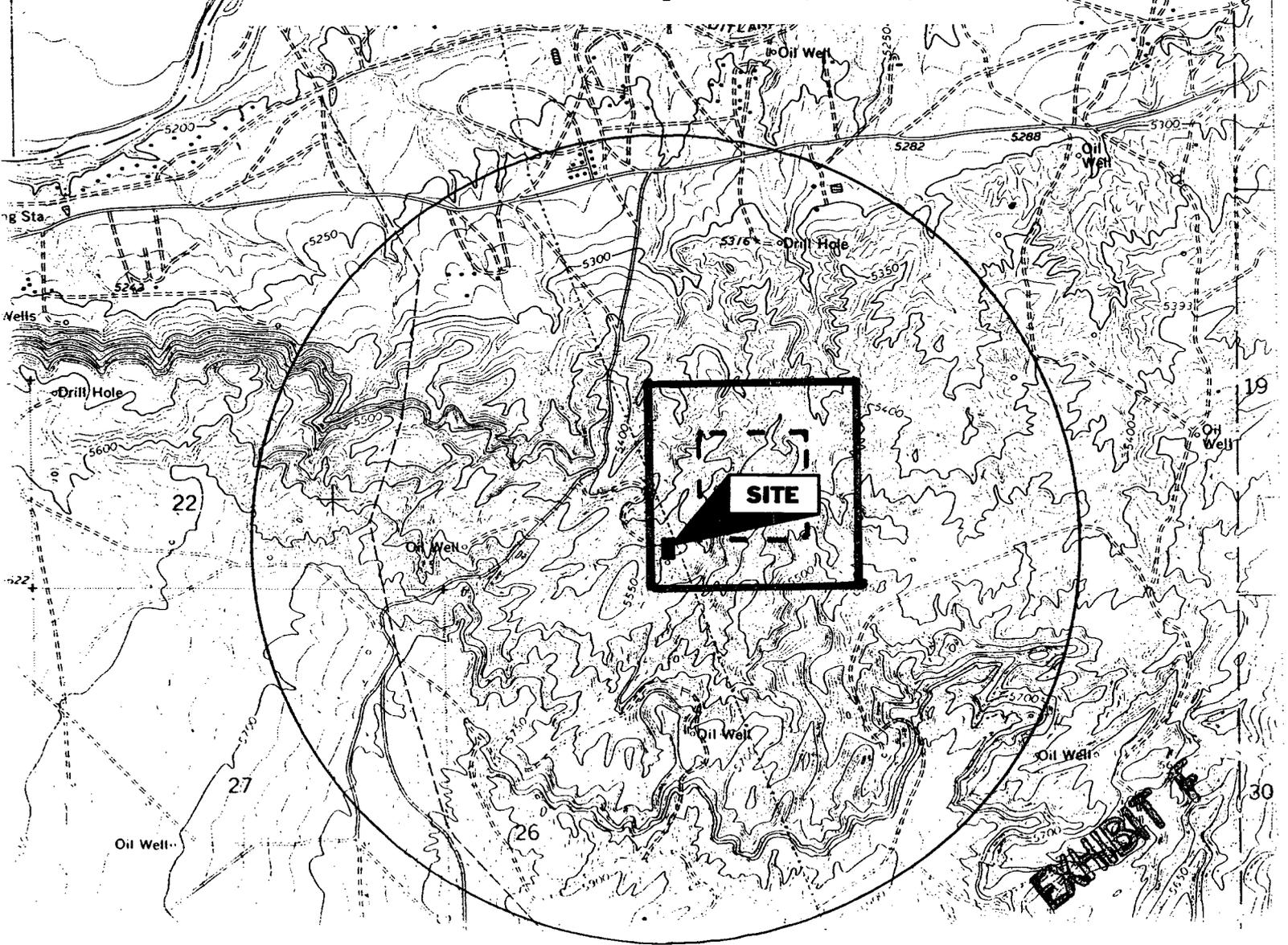


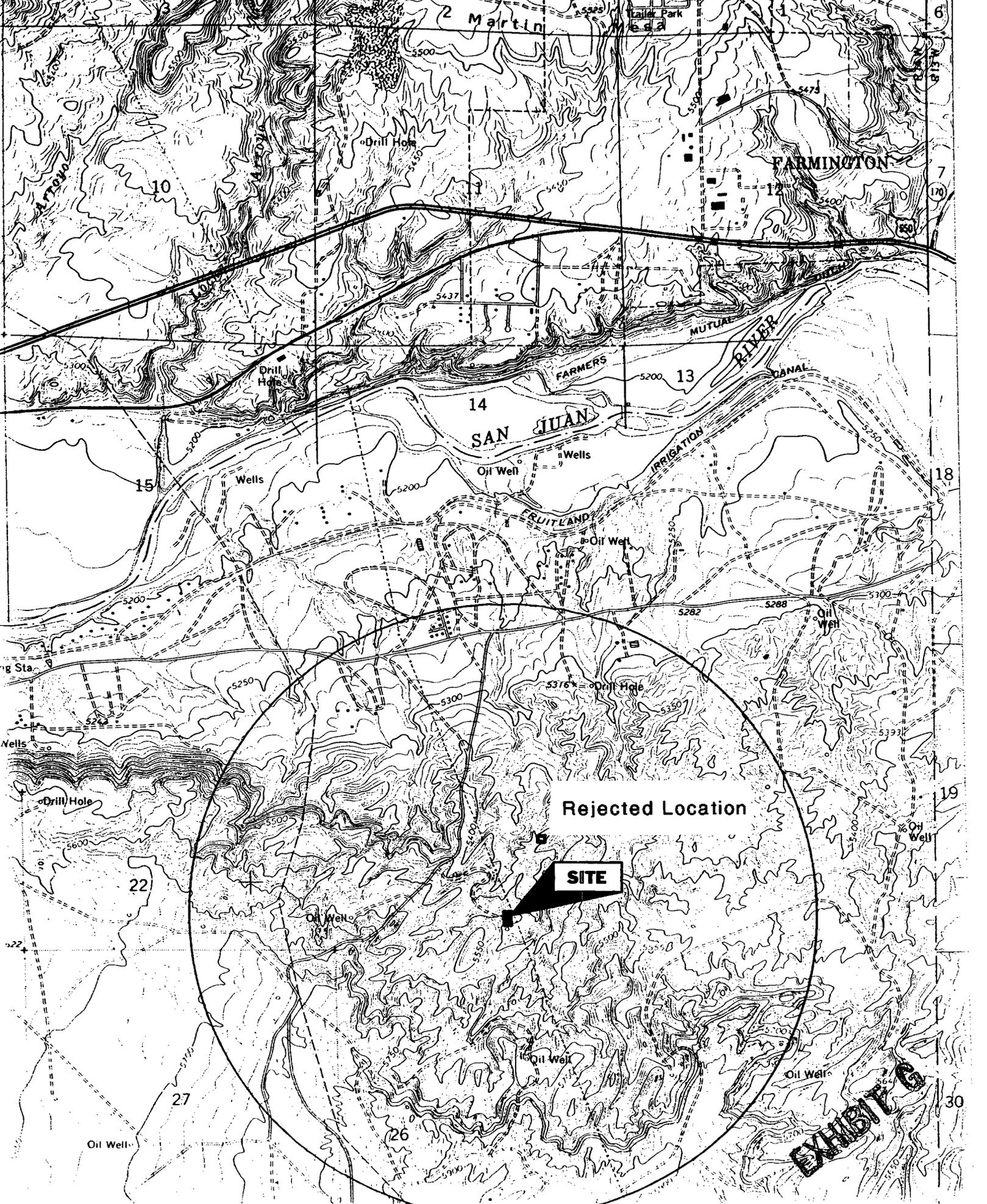
Fruitland Drilling Window (dashed)





Pictured Cliff Drilling Window (dashed)





Martin

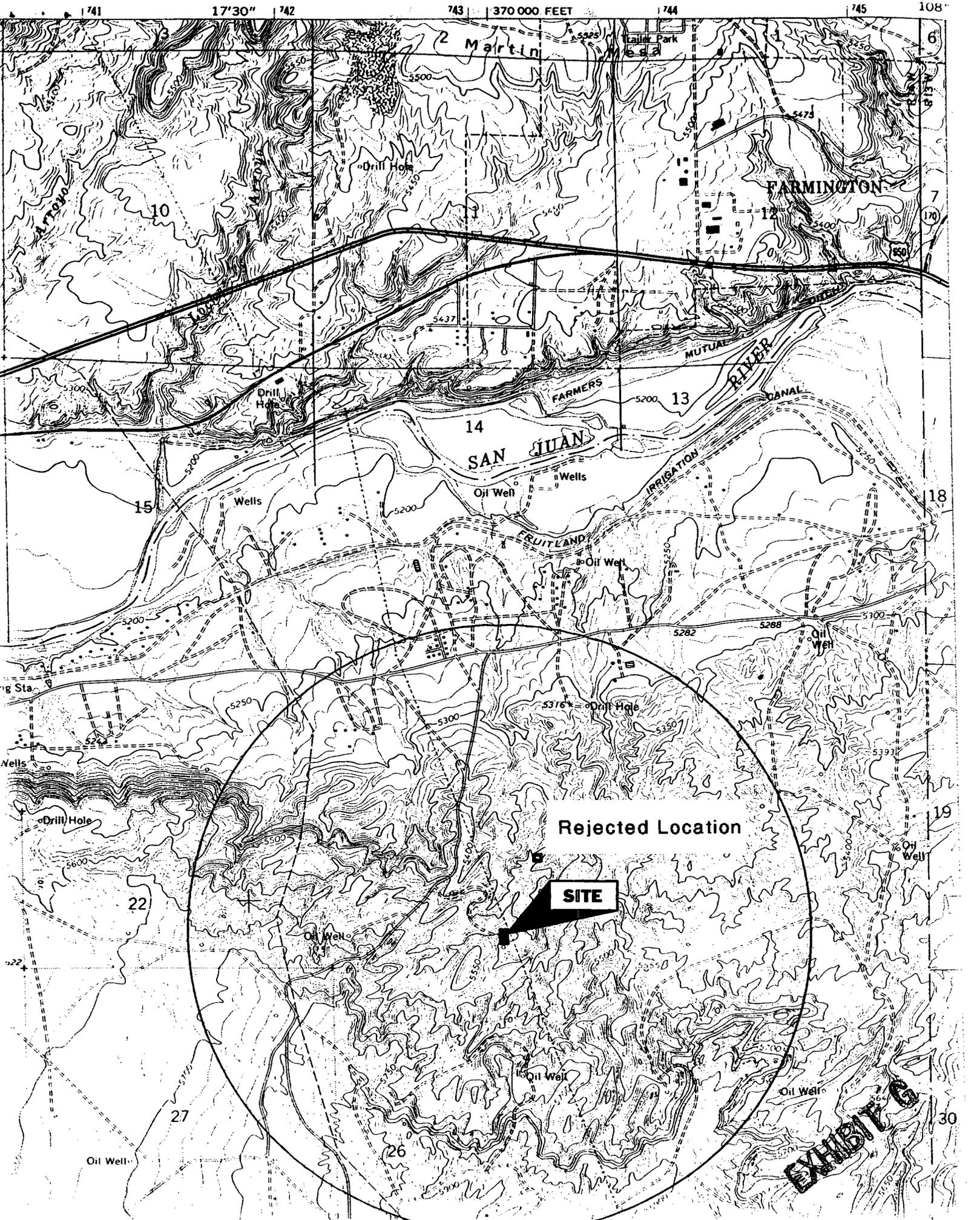
FARMINGTON

SAN JUAN

Rejected Location

SITE

EXHIBIT CO



PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
17 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 29, 2003

Akhtar Zaman
Minerals Dept.
P. O. Box 1910
Window Rock, Az. 86515

Dear Akhtar,

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 Company is applying to drill its NV Rachelle 23 #4 gas well. Such a gas well must be $\geq 660'$ from a quarter section line. Due to surface conditions (steep sandy terrain), the well is 225' too far south and 70' too far west. Thus, it is a non-standard location. The proposed well is 2,265' from the closest existing or proposed gas well (Richardson's NV Kyle 23 #). See attached map for more details.

Well Name: NV Rachelle 23 #4 Total Depth: 1,300'
Proposed Producing Zones: Fruitland coal gas & Pictured Cliffs sandstone
Acreage Dedication: Fruitland: E2 Sec. 23 & PC SE4 Sec. 23
Location: 435' FSL & 2050' FEL Sec. 23, T. 29 N., R. 14 W.,
San Juan County, NM on Tribal lease 14-20-603-2198A
Approximate Location: ≈ 3 air mile southwest of Farmington, NM
Applicant Name: Richardson Operating Company (505) 564-3100
Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

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 1220 S. St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

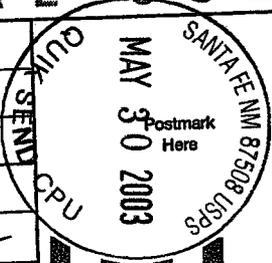


U.S. Postal Service
CERTIFIED MAIL RECEIPT
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OFFICIAL USE

2259 2875 0000 0940 2001

Postage	\$.37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.42



Sent To Minerals Dept
Street, Apt. No.; or PO Box No. PO Box 1910
City, State, ZIP+4 Window Rock AZ 86515

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508

(505) 466-8120

May 29, 2003

Paul & Patricia Slayton
P. O. Box 1936
Roswell, NM 88202

Dear Mr. & Ms. Slayton:

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 Company is applying to drill its NV Rachelle 23 #4 gas well. Such a gas well must be $\geq 660'$ from a quarter section line. Due to surface conditions (steep sandy terrain), the well is 225' too far south and 70' too far west. Thus, it is a non-standard location. The proposed well is 2,265' from the closest existing or proposed gas well (Richardson's NV Kyle 23 #). See attached map for more details.

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Total Depth: 1,300'

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Acreage Dedication: Fruitland: E2 Sec. 23 & PC SE4 Sec. 23

Location: 435' FSL & 2050' FEL Sec. 23, T. 29 N., R. 14 W.,

San Juan County, NM on Tribal lease 14-20-603-2198A

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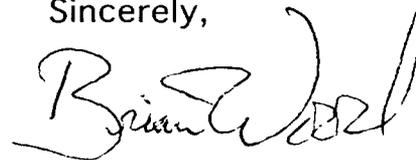
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Please call me if you have any questions.

Sincerely,



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

OFFICIAL USE

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ST59 2916 6535

Postage	\$.37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.42



Sent To P + P Slayton
Street, Apt. No.; or PO Box No. PO Box 1936
City, State, ZIP+ 4 Roswell NM 88202