

**REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION  
FOR RICHARDSON OPERATING COMPANY'S  
F-RPC 30 #4 GAS WELL  
2410' FSL & 1495' FEL SEC. 30, T. 29 N., R. 13 W., SAN JUAN COUNTY, NM**

I. The well is on BLM surface and on BLM 200.00 acre oil and gas lease NMNM-102885. The proposed location is non-standard for the West Kutz Pictured Cliffs and Basin Fruitland Coal due to topography. The well must be at least 660' from all quarter section lines. This well is 230' from the north line of the southeast quarter of Section 30. Thus, it is 430' too far north. Richardson controls the Pictured Cliff and Fruitland coal rights to the north. The F-RPC 30 #4 APD (Exhibit A) is attached.

II. A C-102 (Exhibit B) showing the well location and pro ration units (solid line marking the southeast quarter = 160 acres for the Pictured Cliffs and dashed line marking the east half = 320 acres for the Fruitland) is attached. Richardson's lease (= solid line) and area to be communitized (= dashed line) is shown on the attached copy (Exhibit C) of the Farmington South USGS topo map. The well is 175' from the closest lease boundary and 1,145' from the closest proposed communitization boundary.

III. According to NM Oil Conservation Records; there is no production from the Pictured Cliffs or Fruitland coal within a minimum 4,164' radius. Closest such well is Richardson's F-RPC 20 #3 at 660' FSL & 715' FWL 20-29n-13w. A copy of the Farmington South 7.5' USGS map (Exhibit D) is attached showing the proposed well site and 1 producing (black square) and 6 proposed (black circles) Fruitland or Pictured Cliffs wells within a mile radius. Closest such proposed well is Richardson's F-RPC 29 #2 which is 3,022' northeast. Richardson is the operator of its BLM lease and all 7 existing or proposed Fruitland or Pictured Cliffs wells. Registered letters were sent on January 13, 2003 to the offset interest owners. Copies of the receipts and letters are attached (Exhibit E).

IV. A copy of the Farmington South USGS map is attached (Exhibit F). The proposed well site is marked. Fruitland pro ration unit (dashed line) is all of the east half (320.00 acres) of Section 30. Pictured Cliffs' pro ration unit

(solid line) is all of the southeast quarter (160.00 acres) of Section 30.

V. Topography is the primary reason for a non-standard location. There is 260' of vertical relief in the quarter section ranging from flat wash bottoms to sheer cliffs - even the access is in a wash bottom for 6/10 mile. BLM's designation of the canyon as the Dunes Vehicle Recreation area further restricts site options. The off road vehicle play area is crisscrossed by numerous two wheel and four wheel trails, climbs, and load areas. The well was ultimately staked in a grove of trees where it is out of harm's way.

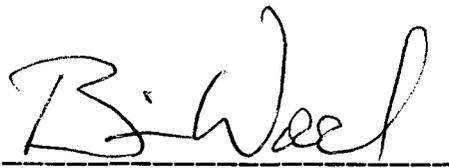
VI. Archaeology is not an issue.

VII. The non-standard location is requested because of topography (see V.).

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:

- BLM
- BP America Production Company
- Burlington Resources
- Dugan Production Corp.
- Edwards Energy Corp.
- NM State Land Office *wxt?*
- Paramount Petroleum Corp.
- Yates Petroleum Corporation



Brian Wood, Consultant

January 13, 2003  
Date

STATE OF NEW MEXICO )  
 ) SS:  
COUNTY OF SANTA FE )

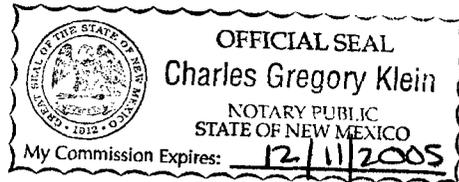
The foregoing instrument was acknowledged before me this 13th day of January, 2003 by Brian Wood. Witness my hand and official seal.

  
\_\_\_\_\_

Notary Public

My Commission Expires: 12/11/2005

Business Address: 37 VERANO LOOP, SANTA FE, NM 87508



cc: Aztec OCD, Jones

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>NMNM-102885</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>N/A</b>
Name of Operator <b>RICHARDSON OPERATING COMPANY</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>3100 LaPLATA HIGHWAY FARMINGTON, NM 87401</b>	3b. Phone No. (include area code) <b>(505) 564-3100</b>	8. Lease Name and Well No. <b>F-RPC 30 #4</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>2410' FSL &amp; 1495' FEL</b> At proposed prod. zone <b>SAME</b>		9. API Well No. <b>30-045-</b>
14. Distance in miles and direction from nearest town or post office* <b>3 AIR MILES SW OF FARMINGTON</b>		10. Field and Pool, or Exploratory <b>W KUTZ PC &amp; BASIN FRUIT COAL</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>175' to lease line 1,145' to comm. line</b>	16. No. of Acres in lease <b>200</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>30-29n-13w NMPM</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>N/A</b>	19. Proposed Depth <b>1,400'</b>	12. County or Parish <b>SAN JUAN</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5,515' GL</b>	22. Approximate date work will start* <b>FEBRUARY 5, 2003</b>	13. State <b>NM</b>
17. Spacing Unit dedicated to this well <b>PC: 160 AC. (SE4) COAL: 320 AC. (E2)</b>		
20. BLM/BIA Bond No. on file <b>#158293308 (BLM - NATIONWIDE)</b>		
23. Estimated duration <b>2 WEEKS</b>		

24. Attachments

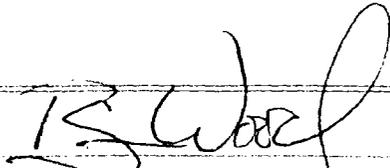
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

Comments

Notice of Staking filed as "RPC 30 4"

cc:BLM (&OCD), Richardson

25. Signature 	Name (Printed/Typed) <b>BRIAN WOOD</b>	Date <b>1-5-03</b>
Title <b>CONSULTANT</b>	PHONE: <b>505 466-8120</b>	FAX: <b>505 466-9682</b>
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the 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.

**EXHIBIT A**

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

Form C - 102

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number <b>30-045-</b>	Pool Code 71629 & 79680	Pool Name <b>BASIN FRUIT. COAL &amp; WEST KUTZ PC</b>
Property Code .	Property Name FRPC 30	Well Number 4
OGFD No. <b>019219</b>	Operator Name - RICHARDSON OPERATING COMPANY	Elevation 5515'

Surface Location

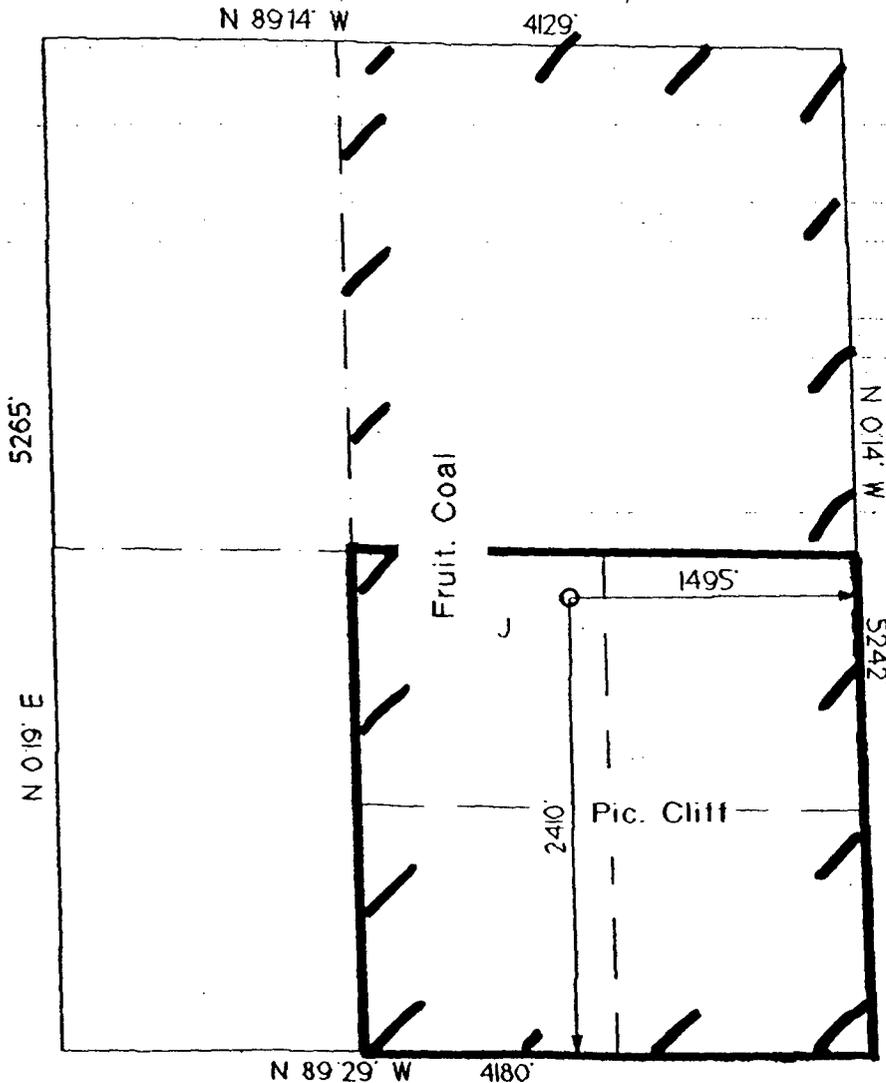
UL or Lot	Sec.	Top.	Rge.	Lot Idh.	Feet from>	North/South	Feet from>	East/West	County
J	30	29 N.	13 W.		2410'	SOUTH	1495'	EAST	SAN JUAN

Bottom Hole Location if Different From Surface

UL or Lot	Sec.	Top.	Rge.	Lot Idh.	Feet from>	North/South	Feet from>	East/West	County

Dedication	Joint ?	Consolidation C	Order No.
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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 **JAN. 5, 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 **14 NOVEMBER 2002**

Signature and Seal of Professional Surveyor  
*Justin R. Kutz*  
 Registered Land Surveyor  
 6844  
**EXHIBIT A**

Richardson Operating Company  
F-RPC 30 #4  
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San Juan County, New Mexico

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## 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'	+5,515'
Fruitland Fm	865'	870'	+4,650'
Pictured Cliffs Ss	1,165'	1,170'	+4,350'
Total Depth (TD)*	1,400'	1,405'	+4,115'

\* all elevations reflect the ungraded ground level of 5,515'

### 2. NOTABLE ZONES

#### Gas Zones

Fruitland

Pictured Cliffs

#### Water Zones

Fruitland

#### Coal Zones

Fruitland

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.

EXHIBIT A

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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, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is  $\approx$ 560 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	1,400'

Surface casing will be cemented to surface with  $\approx$ 36 cubic feet ( $\approx$ 30 sacks) Class B + 2% CaCl<sub>2</sub>. Volume is based on 100% excess, yield of 1.18 cubic feet per sack, and slurry weight of 15.6 pounds per gallon. W. O. C. = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

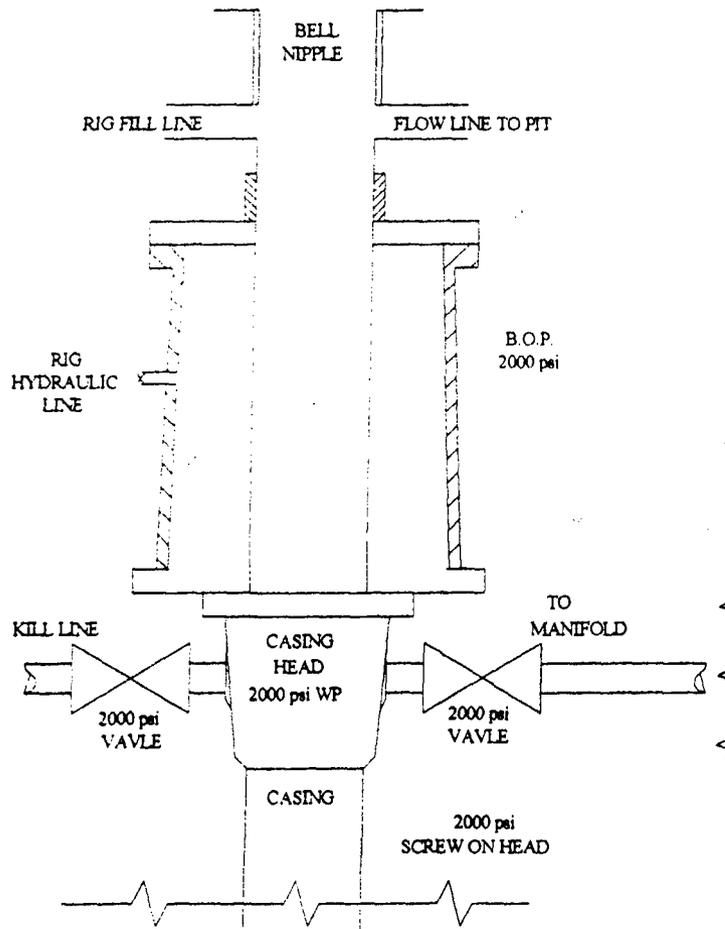
Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Forty barrels of fresh water will next be circulated. Lead with  $\approx$ 170 cubic feet ( $\approx$ 83 sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack, slurry weight = 12.5 pounds per gallon). Tail with  $\approx$ 110 cubic feet ( $\approx$ 93 sacks) of Class B with 2% CaCl<sub>2</sub> (yield = 1.18 cubic feet per sack, slurry weight = 15.6 pounds per gallon). Total cement volume is  $\approx$ 280 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. Seven centralizers will be spaced on every other joint starting above the shoe. Seven turbolizers will be placed on every other joint starting from the top of the well.

**EXHIBIT A**

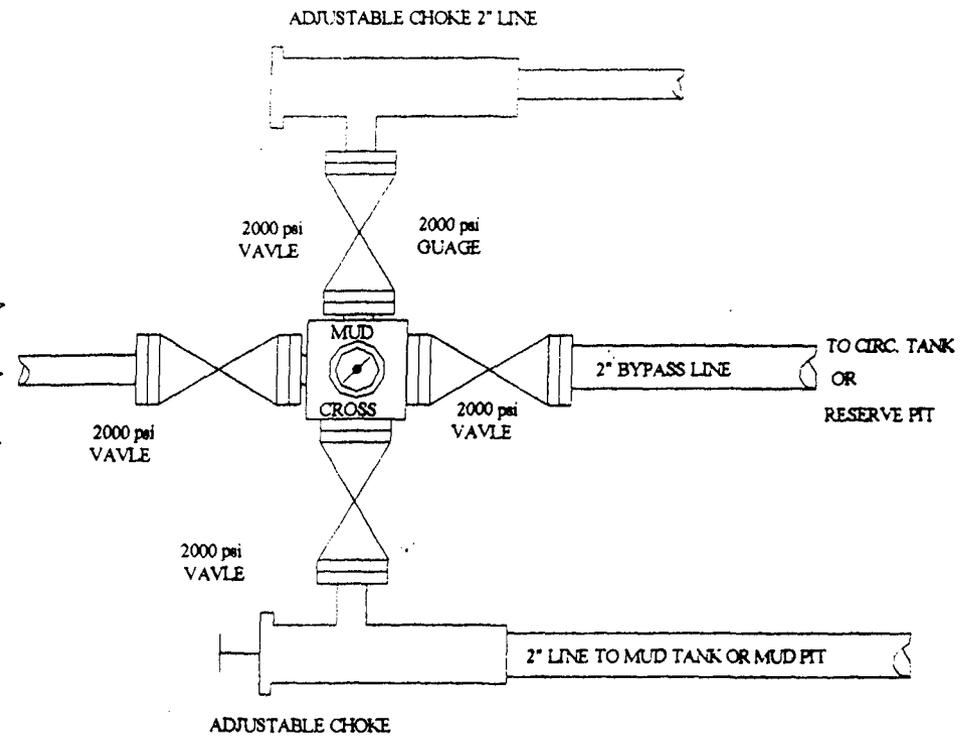
# BLOW OUT PREVENTER (B.O.P.)

EXHIBIT A



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.

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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  $\approx$ 560 psi.

8. OTHER INFORMATION

The anticipated spud date is February 5, 2003. It is expected it will take five days to drill and one week to complete the well.

EXHIBIT A

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## Surface Use Plan

### 1. DIRECTIONS & EXISTING ROADS (See Pages 10 & 11)

From the San Juan River bridge in southwest Farmington ...  
Go southwest on NM 371 to Milepost 104.99  
Then turn right at a green gate and go W through the gate  
Then turn left and go SE 100 yards to the first right  
Then turn right and go SW 0.3 mi. on a dirt road to the 19 #4 well site  
From the 19 #4, go SE 0.6 mi. on a dirt road to the 29 #2  
Then turn right and go SW 0.6 mi. on a wash bottom to the 30 #4

Roads will be maintained to a standard at least equal to their present condition. *This APD is doubling as a BLM road right-of-way (R/W) application. R/W width = 20'. R/W length = 6,600'. R/W area = 3.03 acres. R/W extends from NM 371 to east line of Section 30 (i.e., lease line) and crosses SE4 Sec. 19, W2SW4 Sec. 20, and N2NW4 & SW4NW4 Sec. 29; all T. 29 N., R. 13 W.*

### 2. ROAD TO BE BUILT OR UPGRADED (See Pages 10 - 12)

No new road will be built. The last 0.6 mile of road will be flat bladed. It will not be upgraded. Upgrading would impair a challenging motorized recreation experience. Maximum disturbed width will not exceed 20'. Maximum grade = 2%. Maximum cut or fill = 1'. No culvert, cattle guard, or turn out is needed.

### 3. EXISTING WELLS (See Page 11)

Thirteen plugged and abandoned wells and two oil or gas wells are within a mile radius according to NM Oil Conservation Division and NM State Engineer records. There are no water or disposal wells within a mile.

**EXHIBIT A**

**PERMITS WEST** INC.  
PROVIDING PERMITS for LAND USERS

Richardson Operating Company  
F-RPC 30 #4  
2410' FSL & 1495' FEL  
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San Juan County, New Mexico

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#### 4. PROPOSED PRODUCTION FACILITIES (See Page 12)

A meter run, compressor,  $\approx$ 300 bbl tank, and separator will be installed on the pad, if needed. Surface equipment will be painted a flat juniper green color and inside a fence. Well site will be fenced with a  $\geq$  6' high chain link fence until the well is plugged and abandoned. The fence will have at least 2 gates or exits. Gates will be kept locked except when Richardson personnel are within the fence.

Pipeline route will run northeast along the road for 3,084.66' to tie into proposed Richardson pipelines at the F-RPC 29 #2. Two  $\approx$ 4" SDR-11 poly pipelines will be buried by Richardson in one  $\approx$ 36" deep trench. Gas line will operate at  $\approx$ 50 psi. Water line will operate  $\approx$ 60 psi. Test pressure will be  $\approx$ 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. All above ground facilities (e. g., pipeline valve) outside the well site fence will be painted safety orange.

#### 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) will be notified before construction starts. Soil will be piled west of the reserve pit. A diversion ditch will be cut along the west side of the well site at the bottom of the cut slope. A minimum 12 mil plastic liner will be installed in the reserve pit.

**EXHIBIT A**

**PERMITS WEST** INC.  
PROVIDING PERMITS for LAND USERS

Richardson Operating Company  
F-RPC 30 #4  
2410' FSL & 1495' FEL  
Sec. 30, T. 29 N., R. 13 W.  
San Juan County, New Mexico

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## 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

See Pages 13 and 14 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 back filled. The pad and filled pit will be contoured to a natural appearance and disturbed areas ripped or harrowed. BLM "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

**EXHIBIT A**

**PERMITS WEST** INC.  
PROVIDING PERMITS for LAND USERS

Richardson Operating Company  
F-RPC 30 #4  
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San Juan County, New Mexico

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If broadcast, the rate will be increased as determined by BLM. A harrow or cable will be dragged over the area to assure seed cover. If the well is a producer, then the reserve pit, pipeline route, and any other areas not needed for work overs will be reclaimed as previously described.

#### 11. SURFACE OWNER

Well site, road, and pipeline construction are all on BLM. Portions of the pipeline and road route outside Section 30 are off lease. Richardson is simultaneously filing BLM right-of-way applications for the off-lease segments.

#### 12. OTHER INFORMATION

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

Archaeology report LAC 2002-15m filed December 16, 2002.

#### 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:

**EXHIBIT A**

**PERMITS WEST** INC.  
PROVIDING PERMITS for LAND USERS

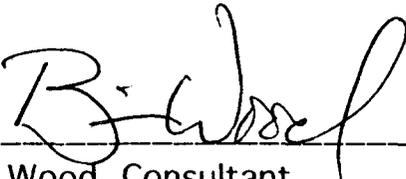
Richardson Operating Company  
F-RPC 30 #4  
2410' FSL & 1495' FEL  
Sec. 30, T. 29 N., R. 13 W.  
San Juan County, New Mexico

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Drew Carnes  
Richardson Operating Company  
3100 LaPlata Highway  
Farmington, NM 87401  
(505) 564-3100      FAX: (505) 564-3109      Cellular: (505) 215-3926

Richardson Operating Company 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 Company.

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 Company 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

January 5, 2003  
Date

**EXHIBIT A**

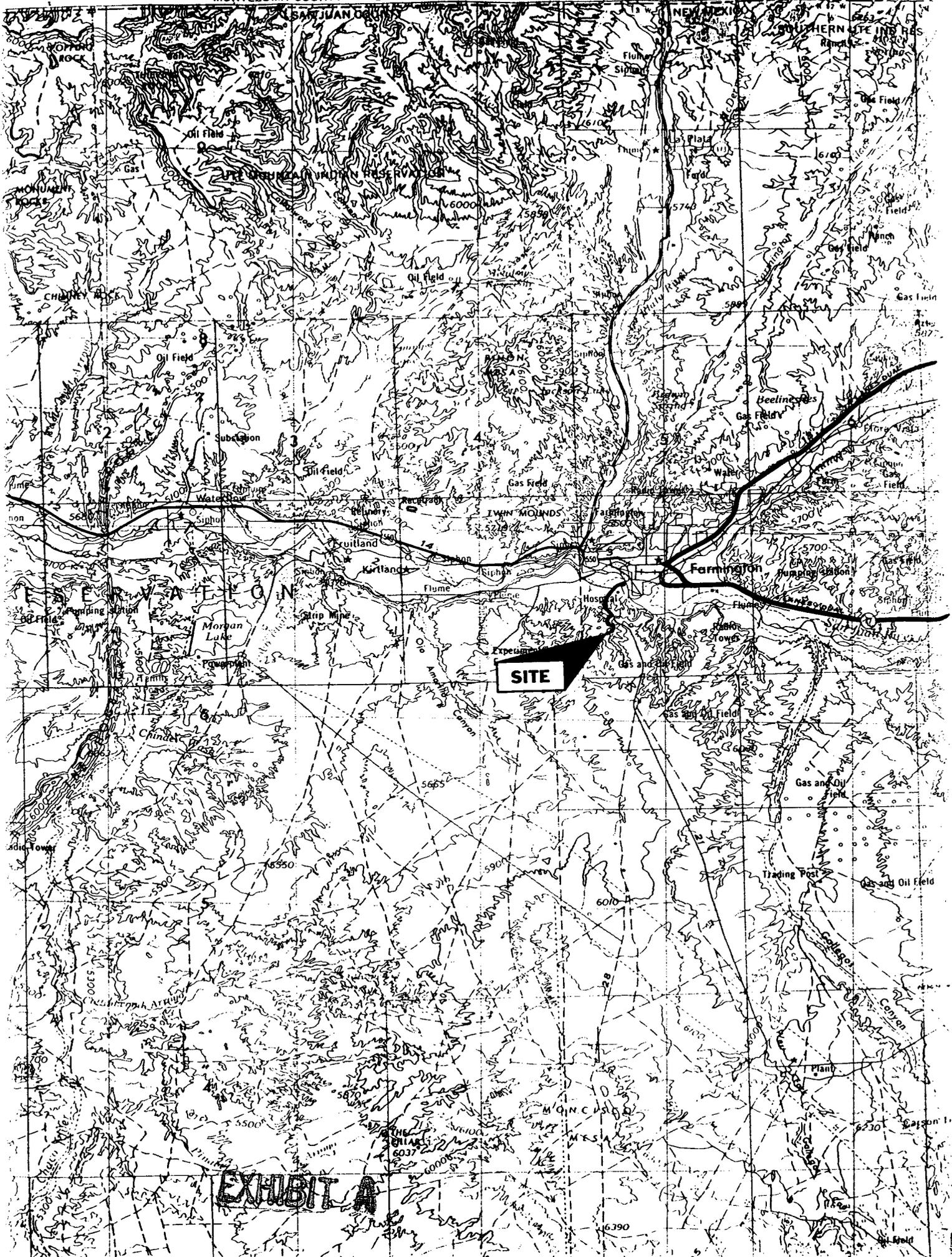
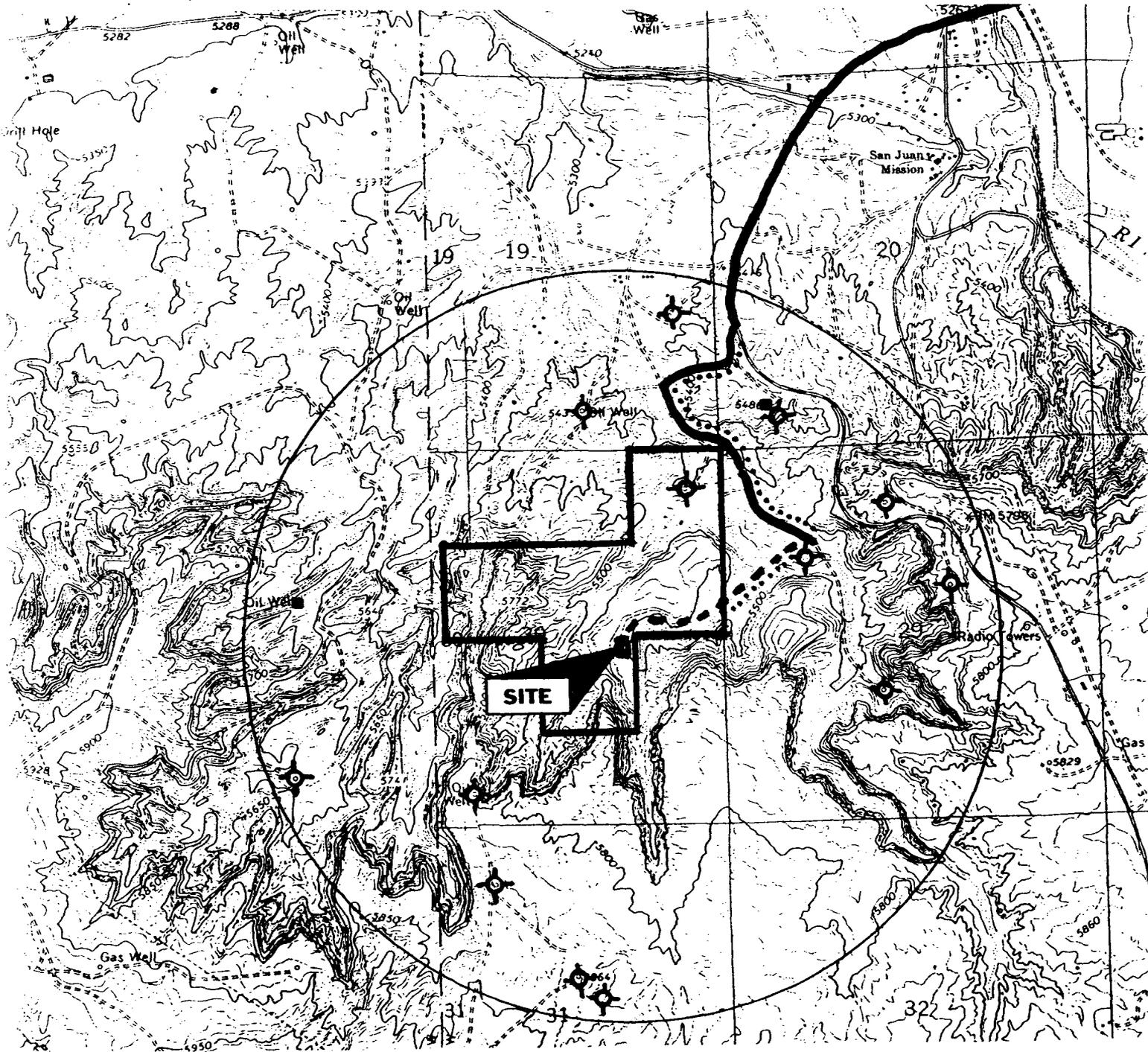


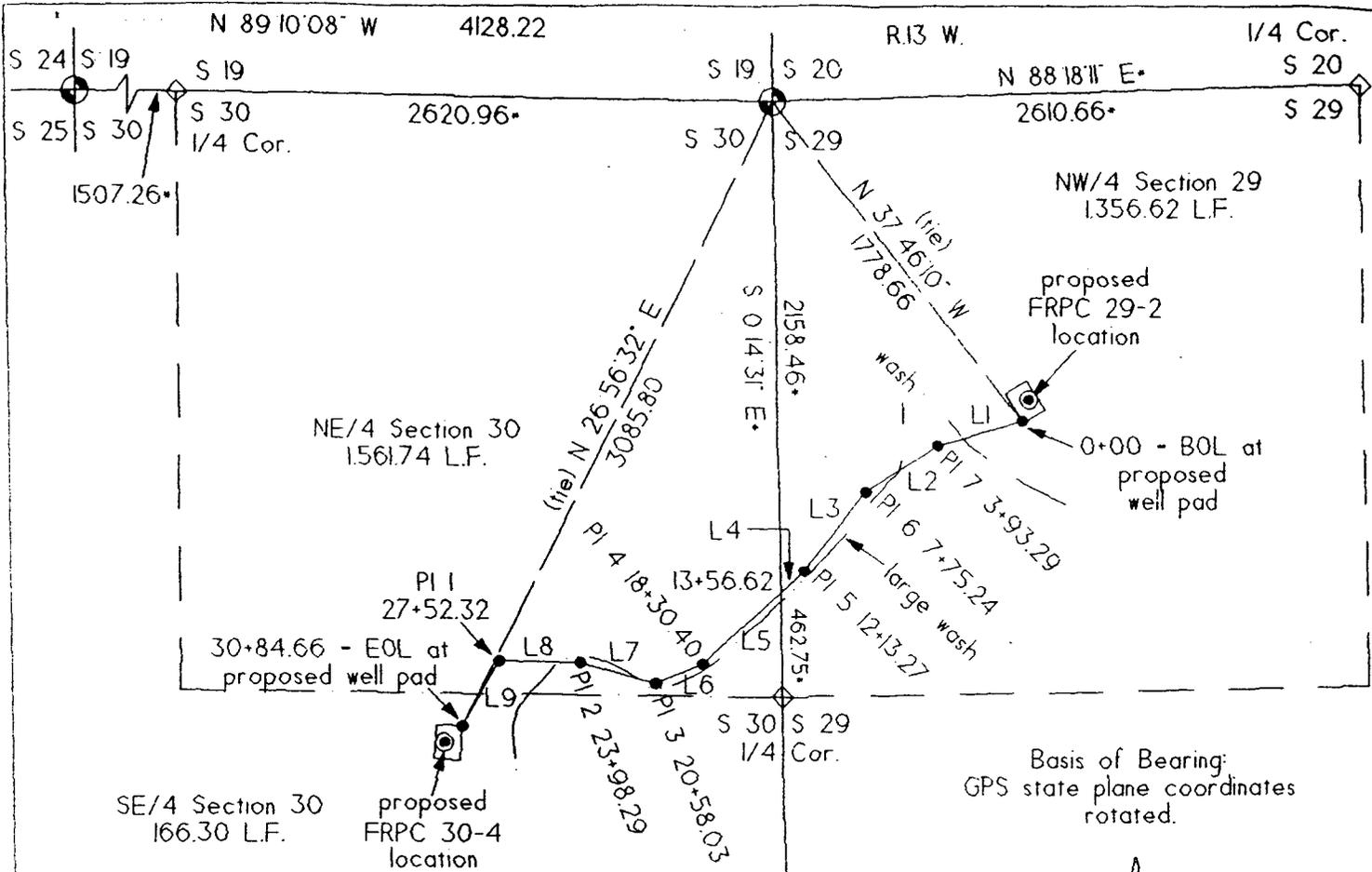
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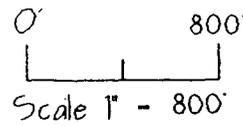
- PROPOSED WELL: ■
- EXISTING WELL: ●
- P & A WELL: ⊕
- LEASE: ┌
- ROAD WORK & PIPELINE ROUTE: - - - -
- EXISTING ROAD: ~
- RIGHT-OF-WAY: ····

EXHIBIT A

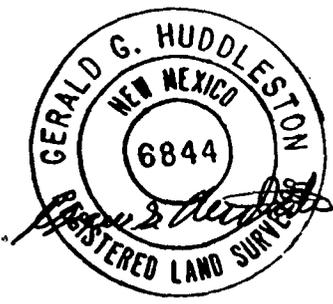


LINE DESCRIPTION TABLE

LINE NO.	DIRECTION	LENGTH
1	S 73°38'40" W	393.29
2	S 57°48'19" W	381.95
3	S 38°29'08" W	438.03
4	S 48°21'59" W	143.35
5	S 48°21'59" W	473.78
6	S 66°24'06" W	227.63
7	N 73°38'02" W	340.26
8	N 88°56'53" W	354.03
9	S 29°35'16" W	332.34



- fnd. stdnd. BLM monument
- calculated corner
- calculated bearing/distance
- survey centerline PI



**EXHIBIT A**

RICHARDSON OPERATING COMPANY

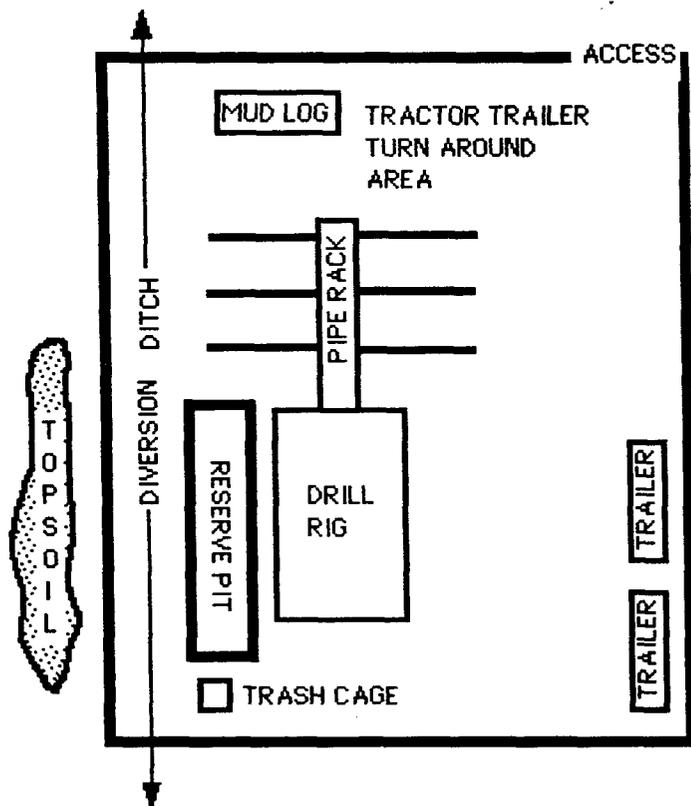
Proposed FRPC 30-4 pipeline and access road right-of-way -

Sections 29 and 30,  
 T.29 N., R.13 W., NMPM,  
 San Juan County, New Mexico

November 2002

HUDDLESTON LAND SURVEYING  
 P.O. DRAWER KK / CORTEZ, CO 81321 / 970-565-3330

Richardson Operating Company  
F-RPC 30 #4  
2410' FSL & 1495' FEL  
Sec. 30, T. 29 N., R. 13 W.  
San Juan County, New Mexico



NORTH  
↑  
1" ≈ 40'

EXHIBIT A

FRPC 30 \* 4

well pad and section

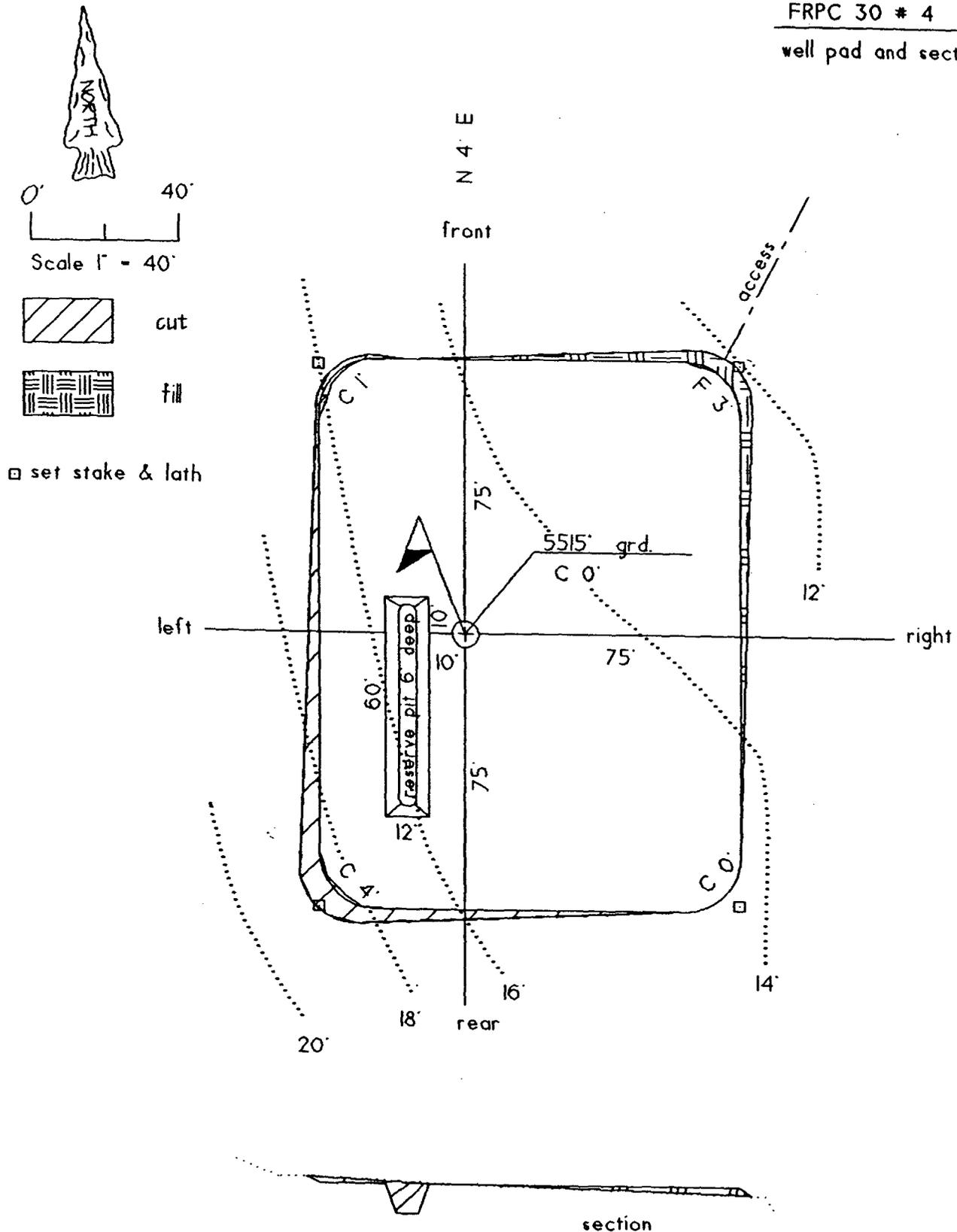


EXHIBIT A

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

Form C - 102

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number <b>30-045-</b>	Pool Code 71629 & 79680	Pool Name <b>BASIN FRUIT. COAL &amp; WEST KUTZ PC</b>
Property Code .	Property Name FRPC 30	Well Number 4
OGRD No. <b>019219</b>	Operator Name RICHARDSON OPERATING COMPANY	Elevation 5515'

Surface Location

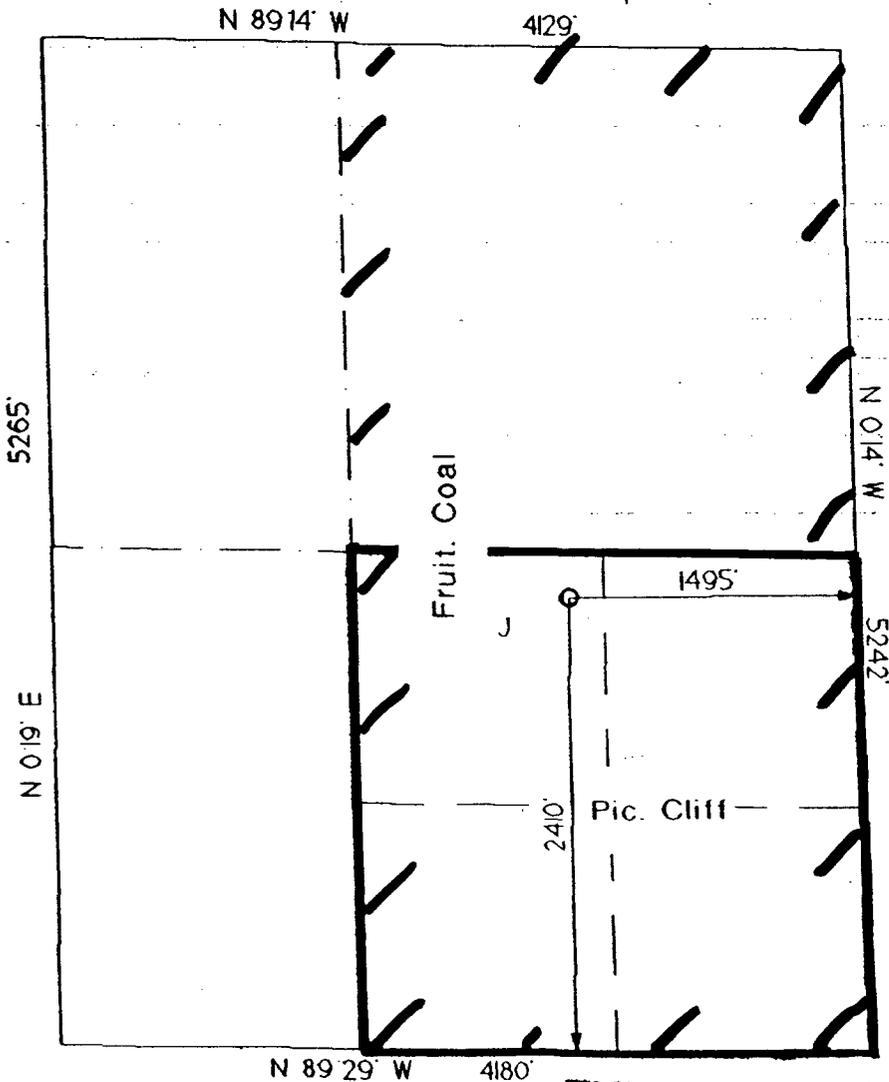
U. or Lot	Sec.	Twp.	Rge.	Lot Idh.	Feet from	North/South	Feet from	East/West	County
J	30	29. N.	13. W.		2410'	SOUTH	1495'	EAST	SAN JUAN

Bottom Hole Location if Different From Surface

U. or Lot	Sec.	Twp.	Rge.	Lot Idh.	Feet from	North/South	Feet from	East/West	County

Dedication	Joint ?	Consolidation C	Order No.
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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: **JAN. 5, 2003**

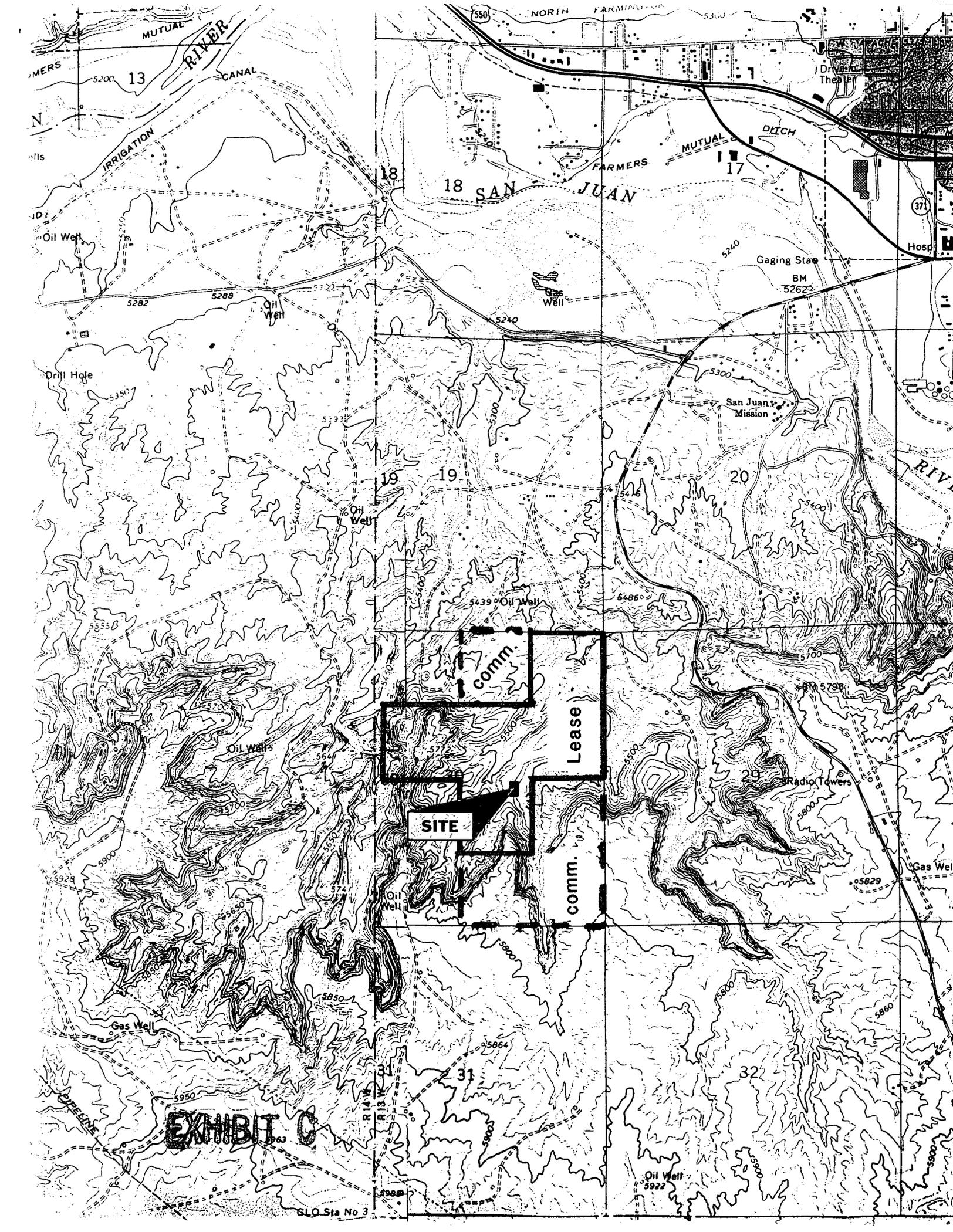
**SURVEYOR CERTIFICATION**

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: **14 NOVEMBER 2002**

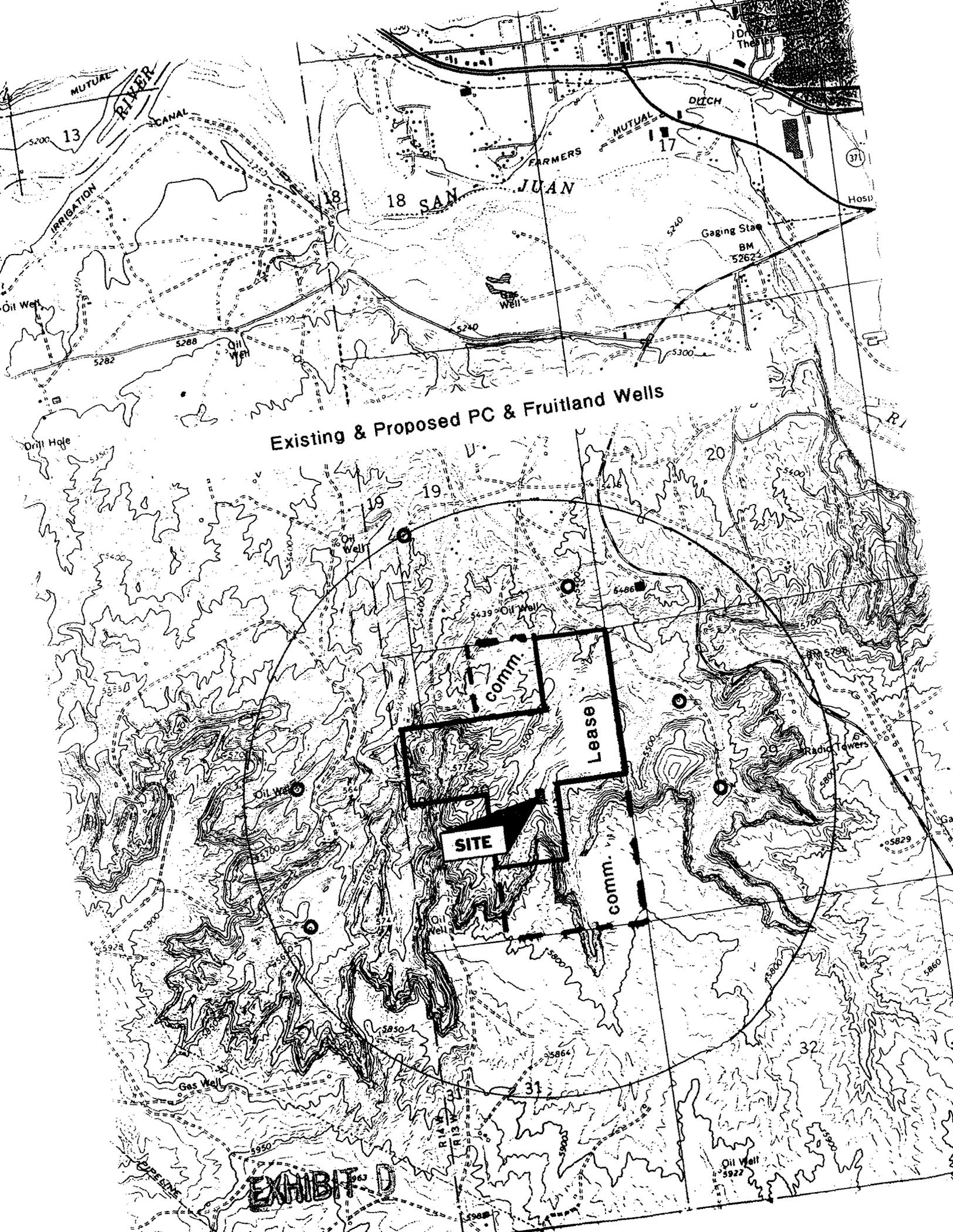
Signature and Professional Surveyor: *[Signature]*  
 Registered Land Surveyor  
 6844  
 HHO 0002  
 REGISTERED LAND SURVEYOR

**EXHIBIT B**



**EXHIBIT C**

G.L.O. Sta No 3



Existing & Proposed PC & Fruitland Wells

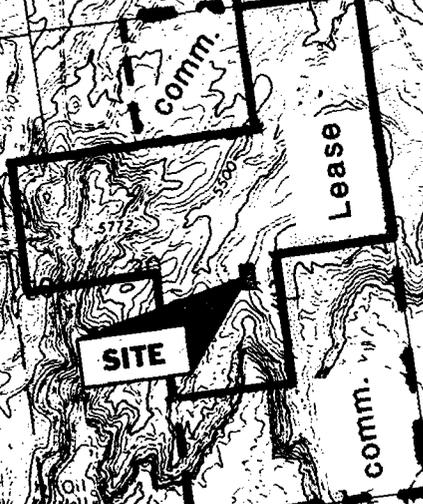


EXHIBIT D

**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 17 Arano Loop, Santa Fe, New Mexico 87508 (505) 466-0120

January 13, 2003

Roger Herrera  
 BLM  
 1235 LaPlata Highway  
 Farmington, NM 87401

Dear Roger,

As required by New Mexico Oil Conservation Division (NMOCD) 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 F-RPC 30 #4 gas well. The minimum distance from a Fruitland or Pictured Cliffs gas well to a quarter section line is 660'. Due to surface conditions, the well is 230' from the north line of the quarter section, or 430' less than the standard minimum. Thus, it is a non-standard location. The proposed well is 1,145' from the closest communitization line. The proposed well is 3,022' from the closest proposed Fruitland or Pictured Cliffs well (Richardson's F-RPC 29 #2). The proposed well is 4,164' from the closest existing Fruitland or Pictured Cliffs producer (Richardson's F-RPC 20 #3). See attached map for more details.

Well Name: F-RPC 30 #4 Total Depth: 1,400'  
Proposed Producing Zone: Fruitland coal & Pictured Cliffs sandstone  
Acreage Dedication: Fruitland (E2 Sec. 30) & PC (SE4 Sec. 30)  
Location: 2410' FSL & 1495' FEL Sec. 30, T. 29 N., R. 13 W.,  
 San Juan County, NM on BLM oil & gas lease NMNM-102885  
Approximate Location: 2 air miles southwest of Farmington, NM  
Applicant Name: Richardson Operating Company (505) 564-3100  
Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

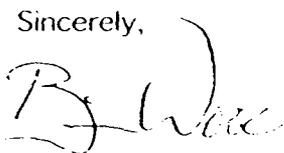
Submittal Information: Application for a non-standard location will be filed with the information complies with the applicable regulations, then address is 1220 S. St. Francis Dr., Santa Fe, NM 87503-3440.

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

Postage	\$ 32
Postage Insurance	230
Postage Insurance Fee	175
<b>Total Postage &amp; Fees</b>	<b>\$ 472</b>

Recipient:  
 BLM  
 1235 LaPlata Hwy  
 Farmington NM 87401

JAN 14 2003  
 SANTA FE, NM 87503

Sincerely,  
  
 Brian Wood

**EXHIBIT E**

2000 3670 0032 5356 7769

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

January 13, 2003

Cherry Hlava  
 BP America Production Company  
 P. O. Box 3092  
 Houston, Tx. 77253-3092

Dear Cherry,

As required by New Mexico Oil Conservation Division (NMOCD) 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 F-RPC 30 #4 gas well. The minimum distance from a Fruitland or Pictured Cliffs gas well to a quarter section line is 660'. Due to surface conditions, the well is 230' from the north line of the quarter section, or 430' less than the standard minimum. Thus, it is a non-standard location. The proposed well is 1,145' from the closest communitization line. The proposed well is 3,022' from the closest proposed Fruitland or Pictured Cliffs well (Richardson's F-RPC 29 #2). The proposed well is 4,164' from the closest existing Fruitland or Pictured Cliffs producer (Richardson's F-RPC 20 #3). See attached map for more details.

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Location: 2410' FSL & 1495' FEL Sec. 30, T. 29 N., R. 13 W.,  
 San Juan County, NM on BLM oil & gas lease NMNM-102885  
Approximate Location: 2 air miles 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 NMOCD. If they determine the application complies with the applicable regulations, then address is 1220 S. St. Francis Dr., Santa Fe, NM 87505-3440.

ions.

Sincerely,

*Brian Wood*  
 Brian Wood

**EXHIBIT E**

7692 9553 2100 0797 0002

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

Postage	\$ 32
Postnet Fee	230
Return Receipt Fee (Endorsement Required)	122
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 442</b>

Sent to: **BP America**  
 Street, Apt. No. or PO Box No: **PO Box 3092**  
 City, State, ZIP+4: **Houston, TX 77253**

Postmark: **JAN 14 2003**

PS Form 3800, May 2000

**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 17 W. 1st St., Santa Fe, New Mexico 87508 (505) 466-8120

January 13, 2003

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

Dear Van,

As required by New Mexico Oil Conservation Division (NMOCD) 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 F-RPC 30 #4 gas well. The minimum distance from a Fruitland or Pictured Cliffs gas well to a quarter section line is 660'. Due to surface conditions, the well is 230' from the north line of the quarter section, or 430' less than the standard minimum. Thus, it is a non-standard location. The proposed well is 1,145' from the closest communitization line. The proposed well is 3,022' from the closest proposed Fruitland or Pictured Cliffs well (Richardson's F-RPC 29 #2). The proposed well is 4,164' from the closest existing Fruitland or Pictured Cliffs producer (Richardson's F-RPC 20 #3). See attached map for more details.

Well Name: F-RPC 30 #4 Total Depth: 1,400'  
Proposed Producing Zone: Fruitland coal & Pictured Cliffs sandstone  
Acreage Dedication: Fruitland (E2 Sec. 30) & PC (SE4 Sec. 30)  
Location: 2410' FSL & 1495' FEL Sec. 30, T. 29 N., R. 13 W.,  
 San Juan County, NM on BLM oil & gas lease NMNM-102885  
Approximate Location: 2 air miles 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 NMOCD. If they determine the application complies with the applicable regulations, then address is 1220 S. St. Francis Dr., Santa Fe, NM 87440.

ions.

Sincerely,

*Brian Wood*  
 Brian Wood

**EXHIBIT E**

7000 1670 0012 5356 7707

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

Postage	\$ 57
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 460</b>

Postmark: JAN 14 2003

Sent To: Burlington Resources  
 Street, Apt. No. or PO Box No: PO Box 4289  
 City, State, ZIP+4: Farmington NM 87499

BB Form 3820, MAY 2000

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

January 13, 2003

John Alexander  
 Dugan Production Corp.  
 P. O. Box 420  
 Farmington, NM 87499

Dear John,

As required by New Mexico Oil Conservation Division (NMOCD) 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 F-RPC 30 #4 gas well. The minimum distance from a Fruitland or Pictured Cliffs gas well to a quarter section line is 660'. Due to surface conditions, the well is 230' from the north line of the quarter section, or 430' less than the standard minimum. Thus, it is a non-standard location. The proposed well is 1,145' from the closest communitization line. The proposed well is 3,022' from the closest proposed Fruitland or Pictured Cliffs well (Richardson's F-RPC 29 #2). The proposed well is 4,164' from the closest existing Fruitland or Pictured Cliffs producer (Richardson's F-RPC 20 #3). See attached map for more details.

Well Name: F-RPC 30 #4 Total Depth: 1,400'  
Proposed Producing Zone: Fruitland coal & Pictured Cliffs sandstone  
Acreage Dedication: Fruitland (E2 Sec. 30) & PC (SE4 Sec. 30)  
Location: 2410' FSL & 1495' FEL Sec. 30, T. 29 N., R. 13 W.,  
 San Juan County, NM on BLM oil & gas lease NMNM-102885  
Approximate Location: 2 air miles 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 information complies with the applicable regulations, then address is 1220 S. St. Francis Dr., Santa Fe, NM 87505.

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

Postage	\$ 1.37
Certified Fee	2.30
Return Receipt Fee (if endorsement Required)	1.75
Restricted Delivery Fee (if endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 5.42</b>

Postmark: JAN 14 2003 SANTA FE NM 87505

Sent to: Dugan Production  
 Street, Apt. No. or PO Box: PO Box 420  
 City, State, ZIP+4: Farmington NM 87499

PS Form 3800, May 2000

Sincerely,  
  
 Brian Wood

**EXHIBIT E**

7000 4670 0032 5354 7734

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

January 13, 2003

Keith Edwards  
 Edwards Energy Corp.  
 1401 17th St., Suite 1400  
 Denver, Co. 80202-1268

Dear Keith,

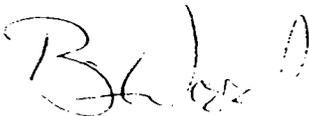
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Approximate Location: 2 air miles southwest of Farmington, NM  
Applicant Name: Richardson Operating Company (505) 564-3100  
Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

Submittal Information: Application for a non-standard location will be filed with the NMOCD. If they determine the application complies with the applicable regulations, then the address is 1220 S. St. Francis Dr., Santa Fe, NM 87505-3440.

ions.

Sincerely,  
  
 Brian Wood

**EXHIBIT E**

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

Postage	\$ 37
Contract Fee	2 30
Return Receipt Fee (if endorsement Requested)	1 75
Restricted Delivery Fee (if endorsement Requested)	
<b>Total Postage &amp; Fees</b>	<b>\$ 4 42</b>

Sent To: Edwards Energy  
 Street, Apt. No. or PO Box No. 1401 17th St, # 1400  
 City, State, ZIP+4 Denver Co 80202

PS Form 3800, May 2000

7000 1670 0032 5356 7221

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

January 13, 2003

Jeff Albers  
 NM State Land Office  
 P. O. Box 1148  
 Santa Fe, NM 87504-1148

As required by New Mexico Oil Conservation Division (NMOCD) 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 F-RPC 30 #4 gas well. The minimum distance from a Fruitland or Pictured Cliffs gas well to a quarter section line is 660'. Due to surface conditions, the well is 230' from the north line of the quarter section, or 430' less than the standard minimum. Thus, it is a non-standard location. The proposed well is 1,145' from the closest communitization line. The proposed well is 3,022' from the closest proposed Fruitland or Pictured Cliffs well (Richardson's F-RPC 29 #2). The proposed well is 4,164' from the closest existing Fruitland or Pictured Cliffs producer (Richardson's F-RPC 20 #3). See attached map for more details.

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Acreage Dedication: Fruitland (E2 Sec. 30) & PC (SE4 Sec. 30)  
Location: 2410' FSL & 1495' FEL Sec. 30, T. 29 N., R. 13 W.,  
 San Juan County, NM on BLM oil & gas lease NMNM-102885  
Approximate Location: 2 air miles 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 NMOCD. If they determine the application complies with the applicable regulations, then it will be approved. The NMOCD address is 1220 S. St. Francis Dr., Santa Fe, NM

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

Postage	\$ 3.30
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.25
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 4.42</b>



Sent To: NMSLO  
 Street, Apt. No. or PO Box No.: PO Box 1148  
 City, State, ZIP+4: SF NM 87504

PS Form 3800, May 2000 See Reverse for Instructions

Sincerely,

*Brian Wood*  
 Brian Wood

**EXHIBIT E**

2522 4955-2100 0291 0000

**PERMITS WEST, INC.**  
**PROVIDING PERMITS for LAND USERS**  
 17 Mirano Loop, Santa Fe, New Mexico 87508 (505) 466-0120

January 13, 2003

Paramount Petroleum Corp.  
 P. O. Box 22763  
 Houston, Tx. 77027

As required by New Mexico Oil Conservation Division (NMOCD) 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.

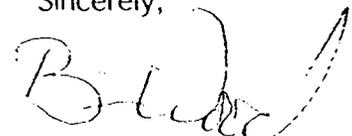
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Approximate Location: 2 air miles southwest of Farmington, NM  
Applicant Name: Richardson Operating Company (505) 564-3100  
Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

Submittal Information: Application for a non-standard location will be filed with the NMOCD. If they determine the application complies with the applicable regulations, then it will be approved. The NMOCD address is 1220 S. St. Francis Dr., Santa Fe, NM 87505. NMOCD phone is (505) 476-3440.

ons.

Sincerely,



Brian Wood

**EXHIBIT E**

7000 1670 0012 5356 7738

<b>U.S. Postal Service</b>	
<b>CERTIFIED MAIL RECEIPT</b>	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
Postage	\$ .37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	\$ 4.42
	
Sent to	
Paramount Petrol.	
Street, Apt. No. or PO Box No	
PO Box 22763	
City, State, ZIP+4	
Houston Tx 77027	
PS Form 3800, May 2000 See Reverse for Instructions	

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

January 13, 2003

Janet Richardson  
 Yates Petroleum Corp.  
 105 S. 4th St.  
 Artesia, NM 88210

Dear Janet,

As required by New Mexico Oil Conservation Division (NMOCD) 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.

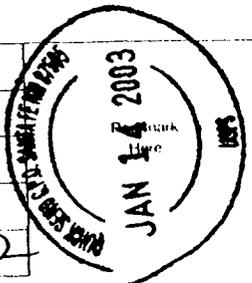
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Approximate Location: 2 air miles southwest of Farmington, NM  
Applicant Name: Richardson Operating Company (505) 564-3100  
Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

Submittal Information: Application for a non-standard location will be filed with the [redacted] address is 1220 S. St. Francis Dr., Santa Fe, NM 87504.

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

Postage	\$ 1.37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 4.42</b>

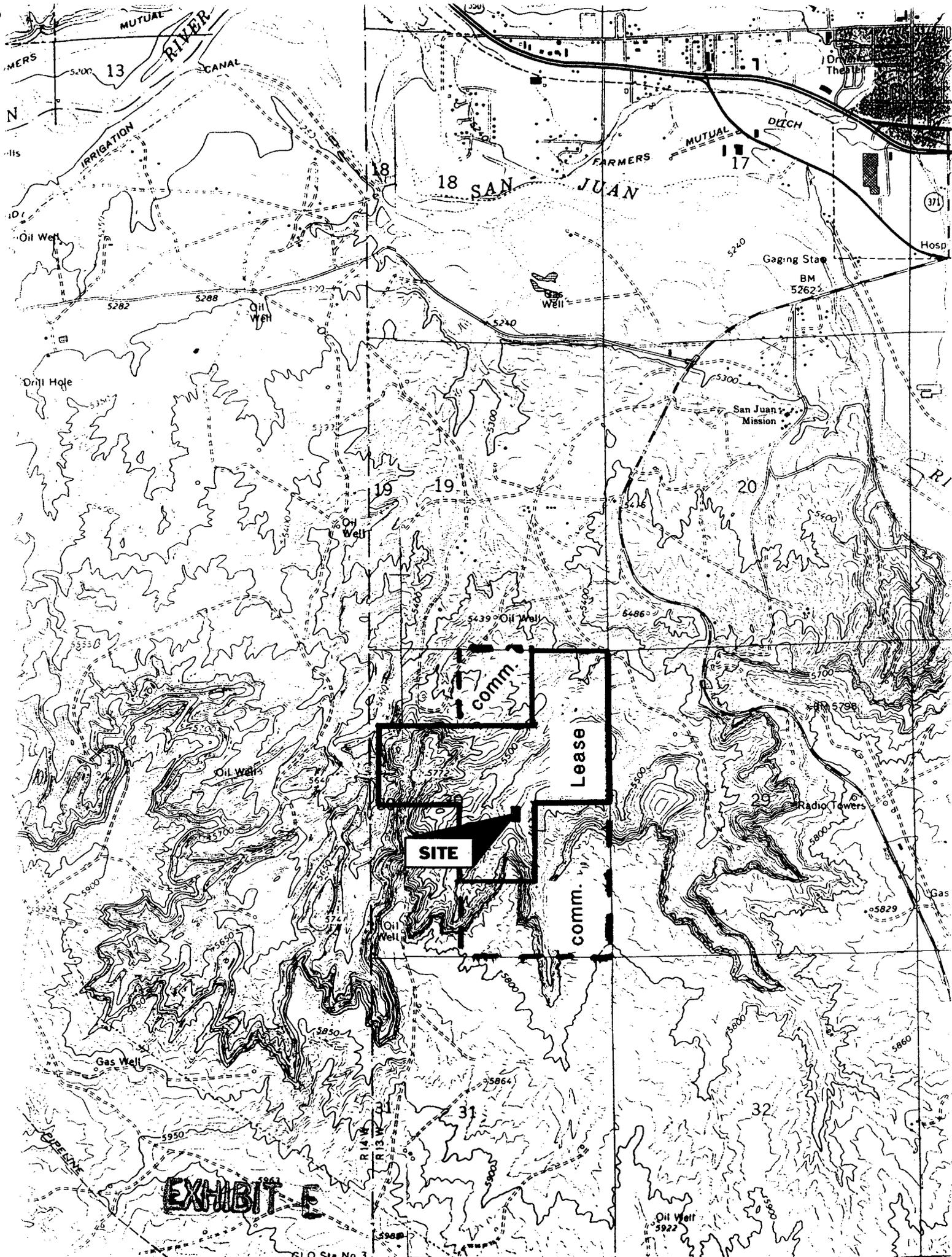


Sent To: Yates  
 Street, Apt. No. or PO Box No: 105 S 4th St.  
 City, State, ZIP+4: Artesia NM 88210

Sincerely,  
  
 Brian Wood

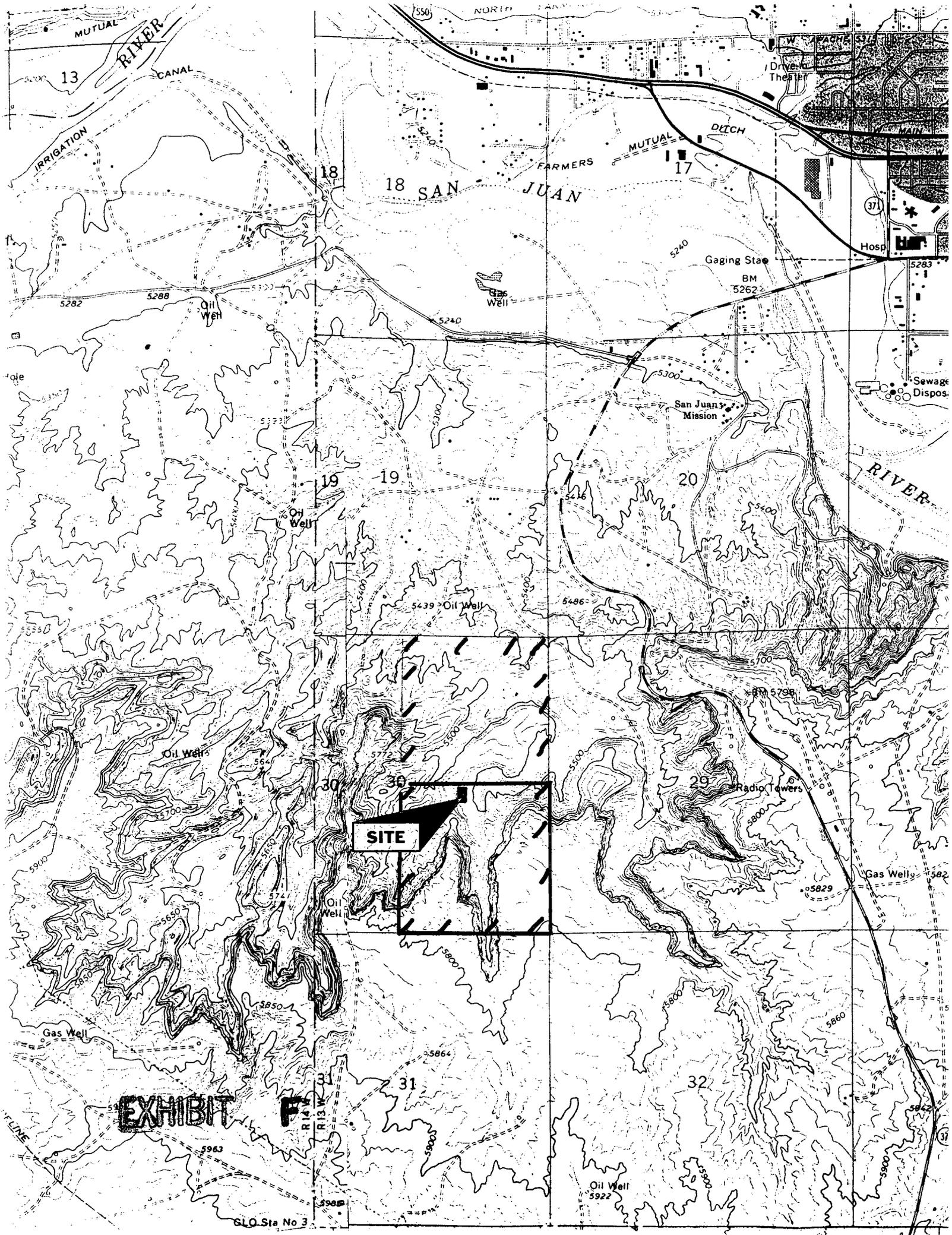
**EXHIBIT E**

7000 1670 0012 5356 2745



**EXHIBIT E**

G.L.O. Sta No 3



**EXHIBIT**

**F**

**SITE**

GLO Sta No 3

Sec : 30 Twp : 29N Rng : 13W Section Type : NORMAL

1 6.18  Federal owned	C 40.00  765 FNL/SI75 FEL Federal owned 30-045-07925 A #15 To TAH Gully	B 40.00  Federal owned	A 40.00  Federal owned 30-045-07928 (? PEA?) A To TAH Gully #19 SI0FNL/SI0FEL
2 6.12  Federal owned	F 40.00  Federal owned	G 40.00  Federal owned	H 40.00  Federal owned
3 6.08  Federal owned	K 40.00  Federal owned	J 40.00   Federal owned	I 40.00  Federal owned
4 6.02  Federal owned	N 40.00  Federal owned 30-045-07757 A CHA CHA Gully #6 (45 FSL) (3600 FEL)	O 40.00  Federal owned	P 40.00  Federal owned

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

PF06  
PF12 Is this COMMUNITIZED?

Well Proposed 1495' FEL/2410' FSL Sec 30  
West KUTZ - PC  
Basin - F.R.C.  
To POGRAPHY