NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

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
Applic	cation 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 RICHARDSON'S 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
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or _ Does Not Apply 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] approv applica	CERTIFICATION: I hereby certify that the information submitted with this application for administrative ral is accurate and complete to the best of my knowledge. I also understand that no action will be taken on action until the required information and notifications are submitted to the Division.

- this

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

Print or Type Name

BRIAN WOOD (505) 466-8120 FAX 466-9682

Title

Date

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 ≥ 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



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

The foregoing instrument was acknowledged before me this 30th day of May, 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, BLM, Richardson

OFFICIAL SEAL
Charles Gregory Klein

NOTARY PUBLIC
STATE OF NEW MEXICO
ires: 12 1 200

n 3100-5 gust 1999)	UNITED STA DEPARTMENT OF TI	IE INTERIOR	FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000	
	BURFAU OF LAND M. SUNDRY NOTICES AND RE To not use this form for proposals to disbandoned well. Use Form 3160-3 (APD)	5. Lease Serial No. 14-20-603-2198A 6. If Indian, Allottee or Tribe Name Navaio		
	JBMIT IN TRIPLICATE - Other ins	7. If Unit or CA/Agreement, Name and/or No.		
Type of Well	,		N/A	
Oil Well	Gas Well Other		8. Well Name and No.	
Name of Opera	Richardson Operating C	'amnany	NV Rachelle 23 #4	
	Richardson Operating C	ompany	9. API Well No.	
Address	3100 LaPlata Highway	3b. Phone No. (include uren code)	30-045-31184	
	Farmington, NM 87401	(505) 564-3100	10. Field and Pool, or Exploratory Area	
Location of Wo	Il (Fontage, Sec., T. R., M., or Survey Descr	W Kutz PC & Basin Fr. Coal		
0115546		11. County or Parish, State		

BHL: SAME	SA	SAN JUAN COUNTY, N		
12. CHECK AP	PROPRIATE BOX(ES) T	O INDICATE NATUR	E OF NOTICE, REPORT,	OR OTHER DATA
YPE OF SUBMISSION		TY	PE OF ACTION	
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal	☐ Water Shut-Off ☐ Well Integrity ☑ Other

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 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 BLMA. 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 give is ready for final impection.)

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

SURFACE: 435' FSL & 2050' FEL 23-29n-14w

cc: BIA, BLM, Jones, Tribe

14. Thereby certify that the foregoing is true and correct Name (Printed/Typed) BRIAN WOOD	Title	CONSULTANT	(505) 466-8120
Signature B	Date	5-28-03	
THIS SPACE FOR FEDERA	LORS	TATE OFFICE USE	
Approved by	- 1	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warr very that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to combict operations thereon.		Office	
Title 18 U.S.C. Section 1001 and Talle 43 U.S.C. Section 1212, make it a crime for a States any fake, fictitions or translation statements or representations as to any matter	ny person walaa as	n knowingly and willfully to make parisdiction.	to any department or agency of the U

The survey of th

State of New Mexico

Energy. Minerals & Mining Resources Department

* ADDITIONAL POOL: BASIN FRUITLAND COAL GAS

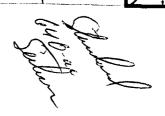
* ADDITIONAL POOL CODE: 71629

OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

Form C - 102

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Namber Pool Code 79680 * WEST KUTZ PICTURED CLIFFS * Property Code Wall Number NV Nava jo 23 4 OCRO No. Operator Name Bevation 019219 - RICHARDSON OPERATING COMPANY 5505 Surface Location U or Lot Sec. Feet from North/South Feet from East/West County 23 29, N. 14 W 435 SOUTH 2050. EAST SAN JUAN Bottom Hole Lacation II Different From Surface OC or Lot 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 Richardson's existing Printed Name BRIAN WOOD NV Navajo 23 #1 1570 FNL **CONSULTANT** 845 FEL 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 TCHANOD QUE 2050



is type of Work of DRILL

T PINTED STATES

15. Type of Well Onl Well Gas Well Other

Addiess 3100 LaPLATA HIGHWAY

FARMINGTON, NM 87401

RICHARDSON OPERATING CO..

DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL OR REENTER

D. REINDER

FORM APPROV	VLD
OMB No. 1004	D1 40
Expires November	SO, 2000

i Alam		
Leave Senat	No	

5	Lease Senat No
1	4-20-603-2198A

				Allettee		Nan

	NAVAJO
-	7. If Unit or CA Agreement, Name and No.
	AN/A

8 Lease Name and Well No NV RACHELLE 23	3 #4

| 9 API Well No 30-045-36. Phone No (include area code) | 1505) 564-3100 | W KUTZ PC

W KUTZ PC

11. Sec. T., R., M., or Blk. and Survey or Area

1 Treation of Well (Report location clearly and in accordance with any State requirements.*)

At surface 435' FSL & 2050' FEL 23-29n-14w NMPM

At proposed prod. gone SAME

25-2511-14W 1

25-2511-14W 1

25-2511-14W 1

1 Declarec in miles and direction from nearest town or post office*
3 AIR MILES SW OF FARMINGTON
12 County or Parish
SAN JUAN
13. State
NM
15. Spacing Unit dedicated to this well

15 Distance from proposed*
location to nearest
property or lease line, fit.
(Also to nearest drig, unit line, if any)

15 Distance from proposed location*
to nearest well, drilling, completed,
annoted for on this lease, fit.

1 282' (oil)

1 300'

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

20. BLM/BIA Bond No. on file

1 300'

#158293308 (BLM - NATIONWIDE)

21 Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23 Estimated duration 5.505' GL UPON APPROVAL 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

Well plat certified by a registered surveyor.
 A Dritting Plan.

A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification

Such other site specific information and/or plans as may be required by the authorized officer.

omments

Notice of Staking filed as "Navajo 23 #4"

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

Signature	75 W 100	V	Name (Printed/Typed	BRIAN WOOD	Date 8-16-02
title	CONSULTANT	7	PHONE: 505 466-8120	0 FAX: 505 466	9682
Approved by (Sig	nature)		Name (Printed/Types	1)	Date
fale			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 excitations thereon

'onditions 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, factitions 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

MENDED REPORT

Form C - 102

WELL LOCATION AND ACREAGE DEDICATION PLAT

0 23 29.N 14.W435' SOUTH 2050. EAST . SAN JUAN Bottom Hole Location & Different From Surface		PA Numb	oer Oer	79	ೌಎ ಡು 1680	1	NEST K	UTZ PIC	Pool Nome TURED	CLIFFS		
OCRD No. Operator Name	Property Code				Property Name						Well Number	
O19219 RICHARDSON OPERATING COMPANY S505"	•		<u> </u>	_ •	NV Nava jo 23					1	4	
Surface Location Surface Loc	OGRO No.					Operator N	· · · · · · · · · · · · · · · · · · ·				Bevotion	
UL or Lot Sec. Trip. Rige. Lot ldb. Feet from> North/South Feet from> East/West County	019219 RICHARDSON OPERATING COMPANY					ΛNY		5505				
0 23 29 N 14 W .435' SOUTH 2050. EAST . SAN JUAN Bottom Hole Lecation if Different From Surface						Surfac	ce Location					
Bottom Hole Location II Different From Surface	UL or Lot	Sec.	Tup.	Rge.	Lot kda.	Feet from>	North/South	Feet from>	East/West		County	
	Ó	23	29.N	14 W.	ĺ	.435	SOUTH	2050.	EAST	\. · · · ·	NAUL NA	
U. or Lot Sec. Tup. Rge. Lot ldn. Feet from> North/South Feet from> East/West County					Botto	m Hole Locatio	n If Different	From Surface				
	UC or Lot	Sec.	Tup.	Rge.	Lot lan	Feet from>	North/South	Feet from>	East/West		County	
						1				1		

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A MON-STANDARD UNIT HAS BEEN APPROVED BY THE DWISION

	23/ /	
	0 435	2050

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

Printed Name BRIAN WOOD

Title CONSULTANT

Date AUG. 16, 2002

SURVEYOR CERTIFICATION

I hereby certify that the well location on this plot 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.



Richardson Operating Co. NV Rachelle 23 #4

435' FSL & 2050' FFI Sec. 23. T. 29 N., R. 14 W.

San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name Kirtland Shale Fruitland Coal Fruitland Coal Pictured Cliffs Ss 1,060' Total Depth (TD)* 1,300' * all elevations reflect the ungraded ground level of 5,50	5' 960' 1,065' 1,305'	Elevation +5,505' +4,550' +4,445' +4,205'
--	--------------------------------	---

2. NOTABLE ZONES

Gas Zones
Fruitland Coal
Distance Clies.

Water Zones Fruitland Coal

Coal Zones Fruitland Coal PAGE 1

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

3. PRESSURE CONTROL

the well site geologist's recommendations.

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



Richardson Operating Co. NV Rachelle 23 #4 435' ESL & 2050' FEL Sec. 23, T. 29 N., R. 14 W.

San Juan County, New Mexico

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

Hole Size	O. D.	Weight (lb/ft)	<u>Grade</u>	Age	GL Setting Depth
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,300'

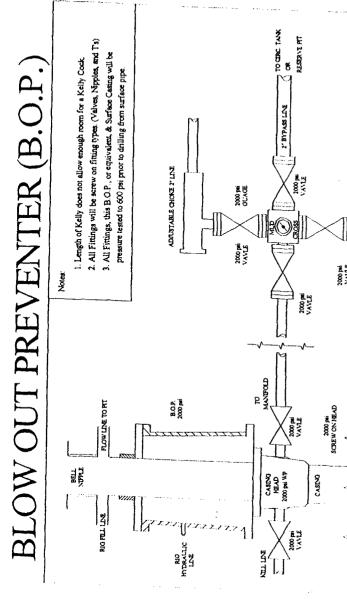
Surface casing will be cemented to surface with ~36 cu. ft. (~30 sacks) Class B + 2% CaCl₂. Volume is based on 100% excess, yield of 1.18 cu, ft./sk, and slurry weight of 15.6 PPG, W.O.C. = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

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 (vield = 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.



PAGE 2



EXILOI 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

5. MUD PROGRAM

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



San Juan County, New Mexico

San Juan County, New Mexico

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



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

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



PAGE 6





PAGE 7

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

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.



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

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

PAGE 8

Field representative will be:

David Richardson Richardson Operating Co. 3100 LaPlata Highway Farmington, NM 87401

(505) 564-3100

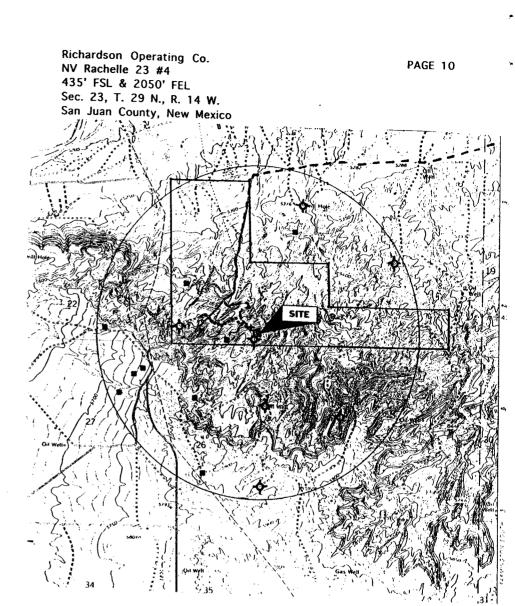
FAX: (505) 564-3109

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





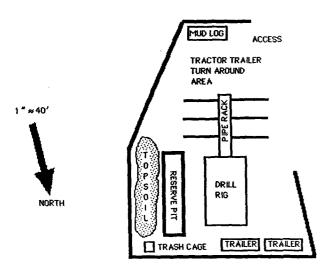
PROPOSED WELL:

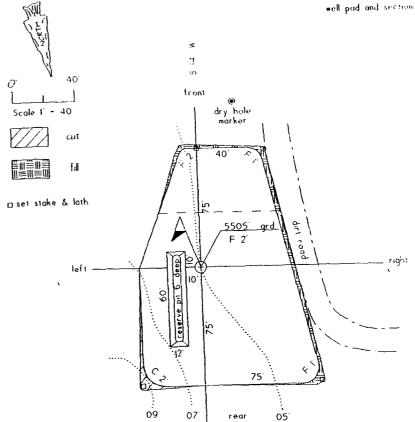
PROPOSED PIPELINES: •••• EXISTING ROAD: _ - -

EXISTING WELL: P & A WELL:

LEASE:

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

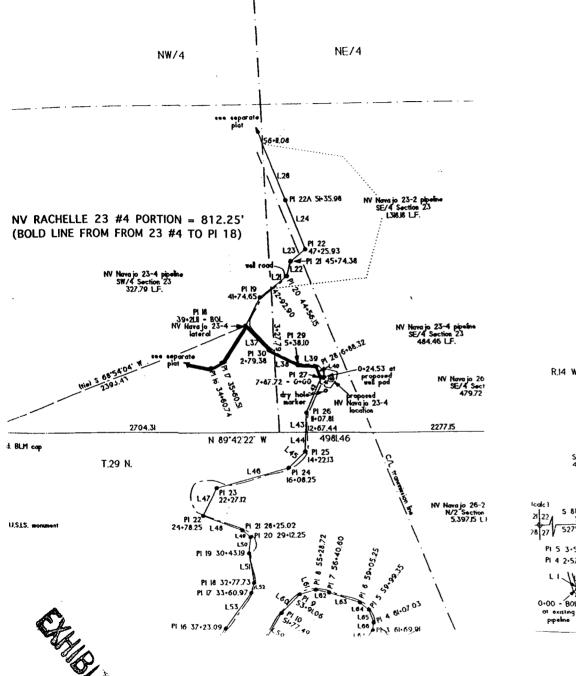


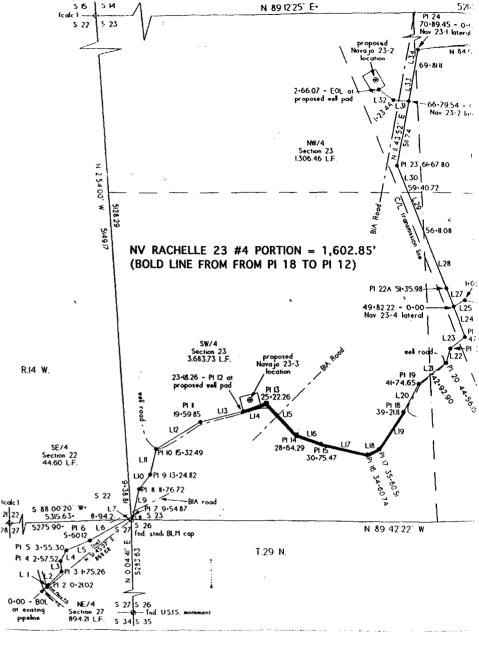


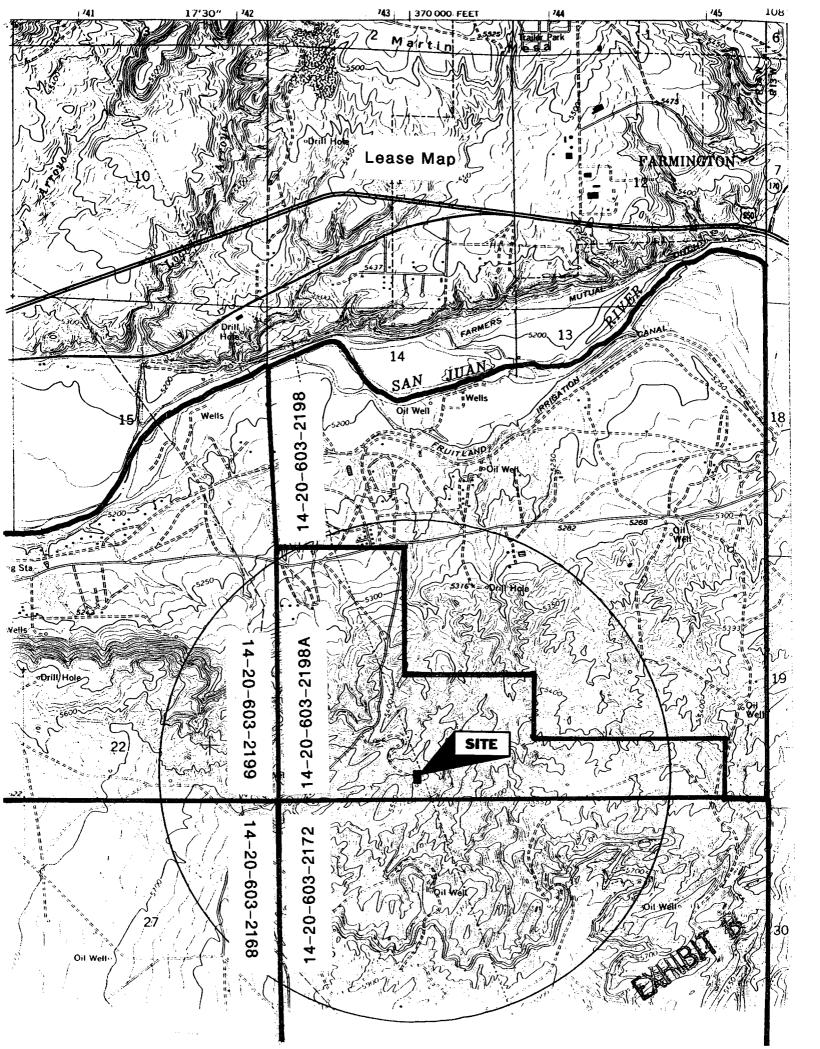


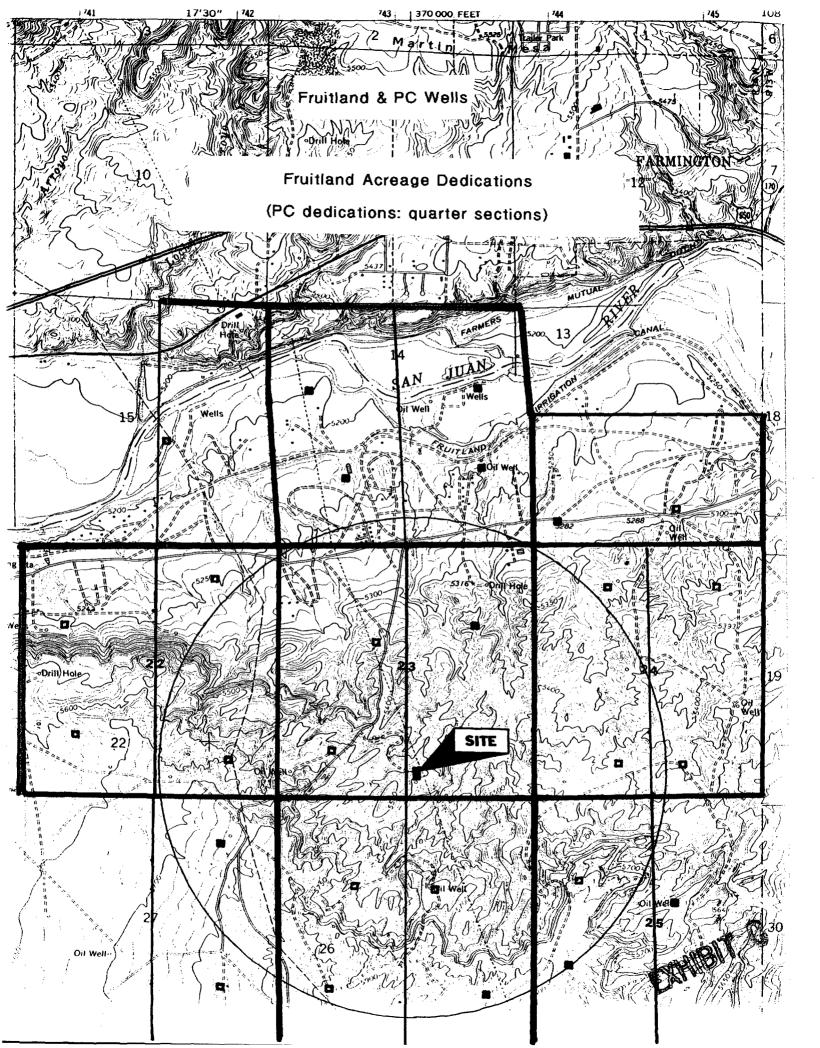












State of New Mexico

Energy. Minerals & Mining Resources Department

* ADDITIONAL POOL: BASIN FRUITLAND COAL GAS

* ADDITIONAL POOL CODE: 71629

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

Form C - 102

WELL LOCATION AND ACREAGE DEDICATION PLAT

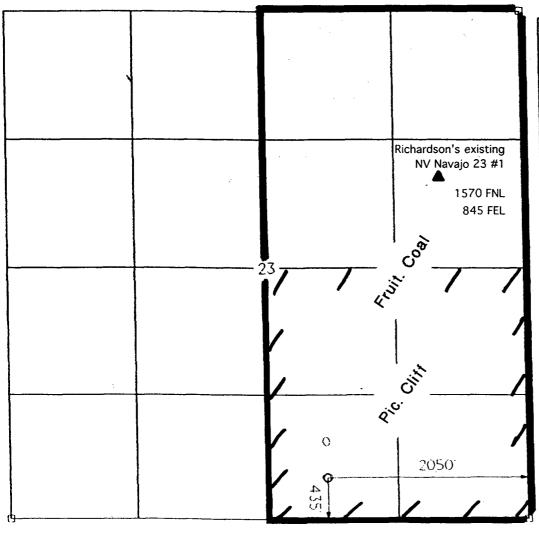
APA Number	Pool Code	Pool Name		
•	79680 *	WEST KUTZ PICTURED CL	_IFFS *	
Property Code	Prop	Property Name Well N		
•	· NV N	. 4		
OGRID No.	Oper	rator Name	Bevation	
019219	· RICHARDSON OF	ERATING COMPANY	5505	

Surface Location Rge. Feet from> North/South Feet from> East/West County UL or Lot Sec Tvp. Lot lan 0 23 29.N SOUTH SAN JUAN 14 W. 435 2050. **EAST**

Bottom Hole Location If Different From Surface

UL or Lot	Sec.	Twp.	Rge.	Lot kin.	Feet from>	North/South	Feet from>	East/West	County	
Dedication	J	virut ?	Consolida	tion	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 '

Printed Name BRIAN WOOD

Title CONSULTANT

Date Nav 28 20

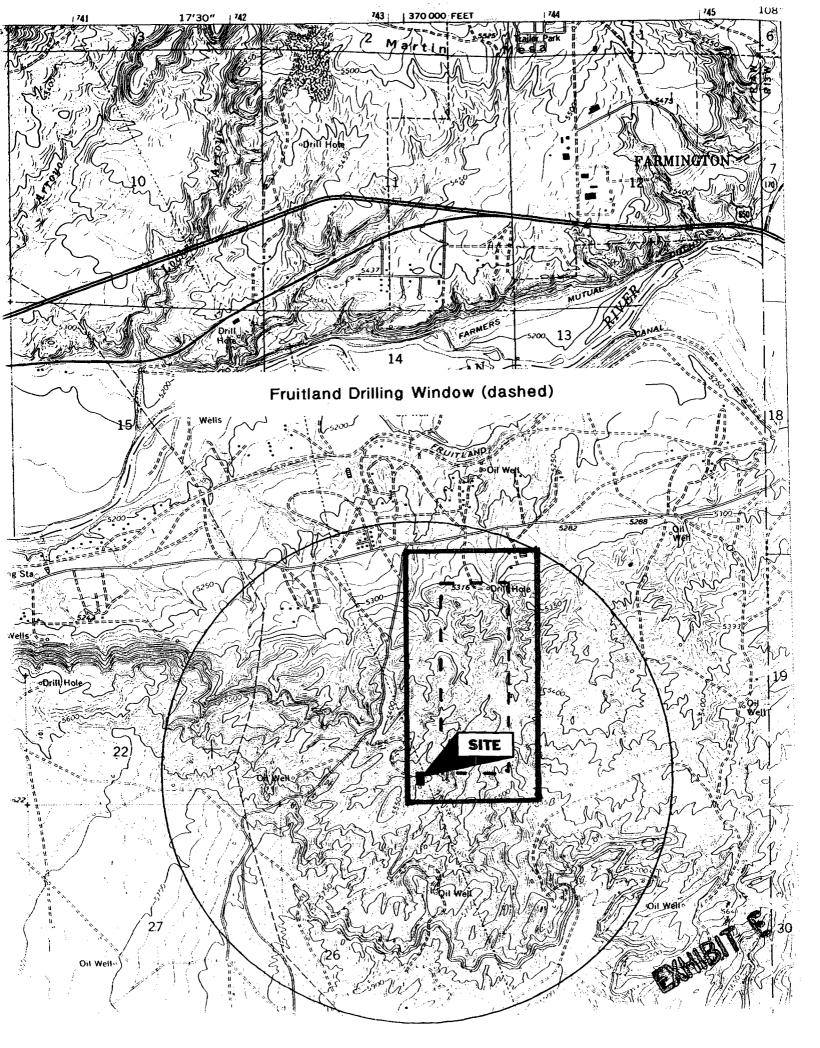
May 28, 2003

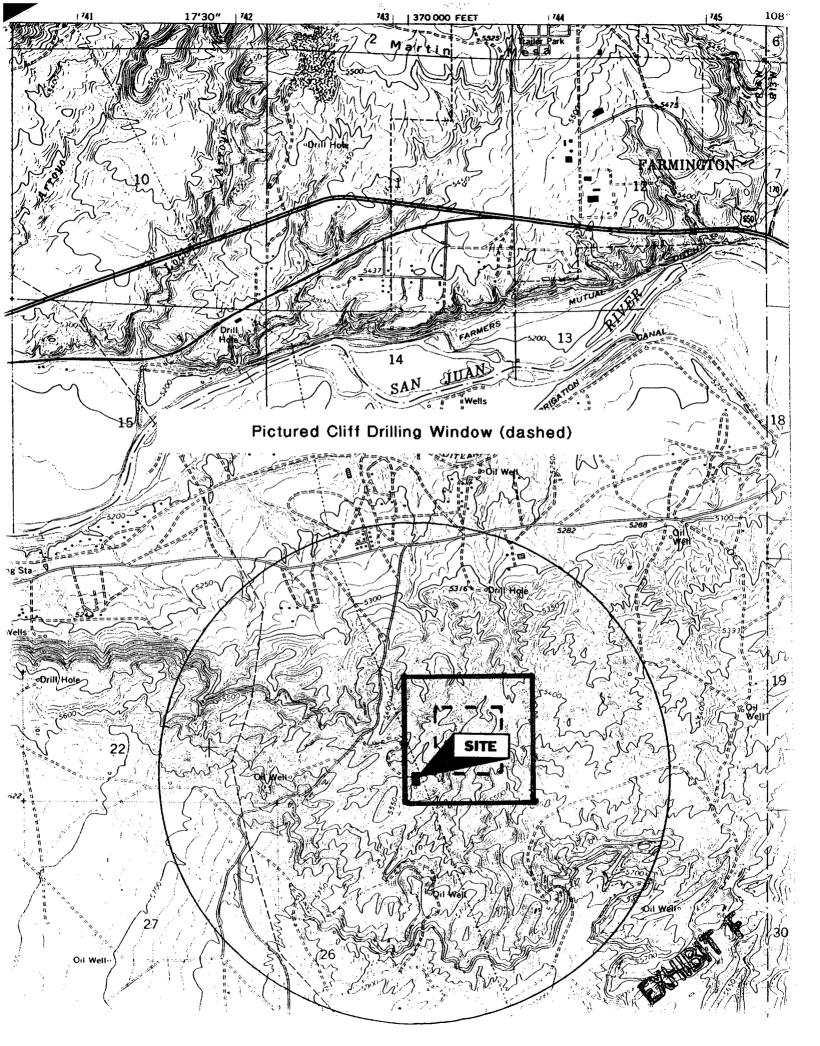
SURVEYOR CERTIFICATION

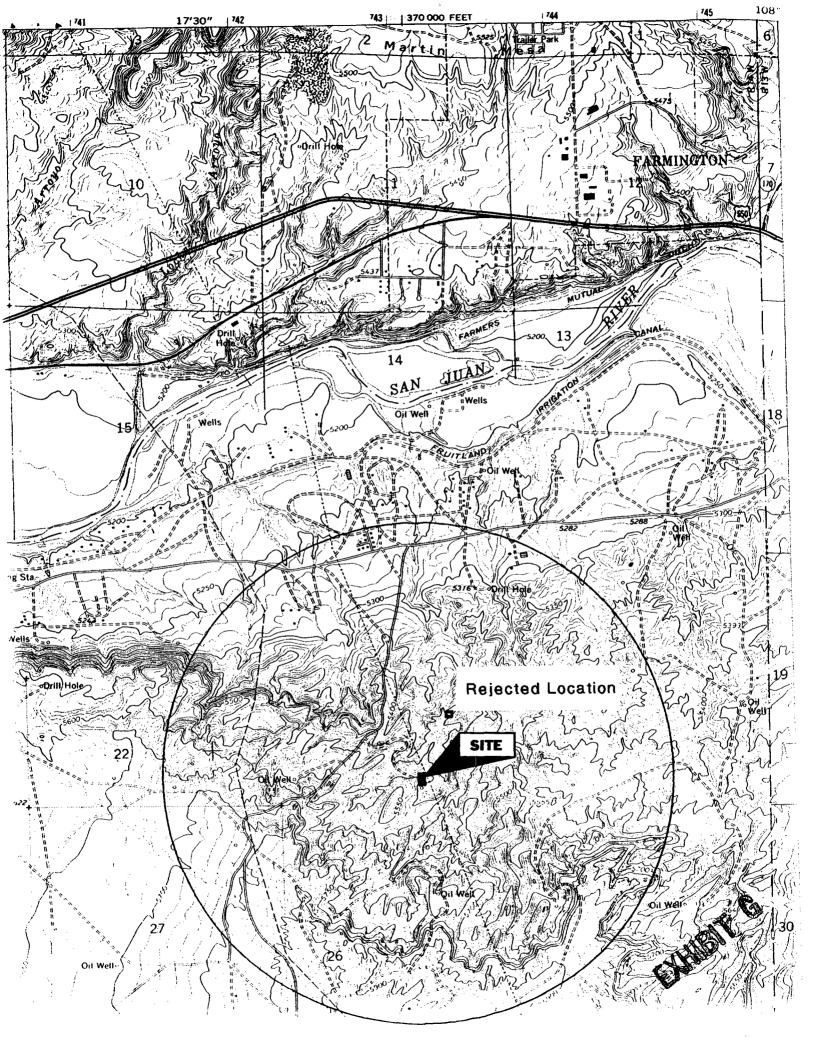
I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signoure Sta Sherry Co.
Professional Coveyor Co.
6844
6844
Figure For LAND SURILL









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 ≥ 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

<u>Approximate Location:</u> ≈3 air mile southwest of Farmington, NM

Applicant Name: Richardson Operating Company (505) 564-3100

Applicant's Address: 3100 LaPlata Highway, Farmington, NM 87401

<u>Submittal Information:</u> 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,



37 Verano Loop, Santa Fe, New Mexico 87508

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.

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Sincerely,

