



12/3/01

SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO
12/23/01	MS	KV	NSL	133938469

### 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

### 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 \_\_\_\_\_

### [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.

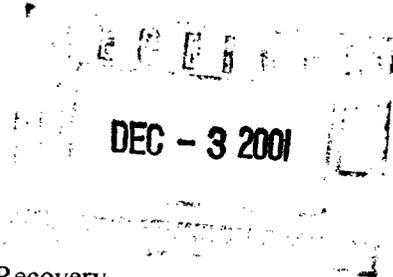
**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Print or Type Name  
 BRIAN WOOD  
 (505) 466-8120  
 FAX 466-9682

Signature

Title  
 CONSULTANT

Date  
 12-2-01  
 e-mail Address  
 brian@permitswest.com



NSL  
41679

REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION  
FOR ELM RIDGE RESOURCES, INC.  
JICARILLA C #4 WELL  
OTERO GALLUP FIELD & POOL  
885' FSL & 1095' FWL SEC. 26, T. 24 N., R. 5 W., RIO ARRIBA COUNTY, NM

I. The well is on Jicarilla Apache tribal surface and a Jicarilla Apache tribal oil and gas lease (BIA #13). The proposed location is non-standard for the Gallup. A standard Gallup location must be at least 330' from the quarter-quarter line. This well is staked 105' further east than standard. (Closest standard location would be 885' FSL and 990' FWL and in an arroyo.) The APD is attached.

II. A Form C-102 showing the well location and proration unit (SW4SW4 for the Gallup) is attached. The lease (contains 1,920 acres: SE4 Sec. 22, S2 Sec. 23, all Sec. 26, E2 Sec. 27, NE4 Sec. 34, and N2 Sec. 35; all T. 24 N., R. 5 W.) is shown on the attached copy of the Otero Store USGS topo map.

III. According to NM Oil Conservation Division records reviewed in their Santa Fe office on December 1, 2001; the closest producer is Elm Ridge's Apache C #3 - a Pictured Cliffs well which is 1,877' south at 990' FNL & 990' FWL 35-24n-5w. The closest Gallup producer is Dugan's Jicarilla Otero #1 well which is 7,538' northwest at 890 FSL & 990 FWL 22-24n-5w.

A copy of the Otero Store 7.5' USGS map is attached. The map shows the proposed well site, proposed Gallup acreage dedication (dashed line including all of SW4SW4 Sec. 26), lease (solid line), and other existing well bores within a one mile radius (0 Gallup or Dakota + 1 P&A + 5 Pictured Cliffs = 6). There is only one lease within a minimum 3,525' radius. Elm Ridge is the operator of the Gallup and Dakota rights in the tribal lease.

Registered letters were sent on December 2, 2001 to all offset interest owners. Copies of all the letters and green cards are attached.

IV. A copy of the Otero Store USGS map is attached. The proposed well site is marked. Proration unit for the Gallup is the 40 acre southwest quarter of the southwest quarter of Section 26, Township 24 North, Range 5 West, NMPM, Rio Arriba County, NM.



State of New Mexico  
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

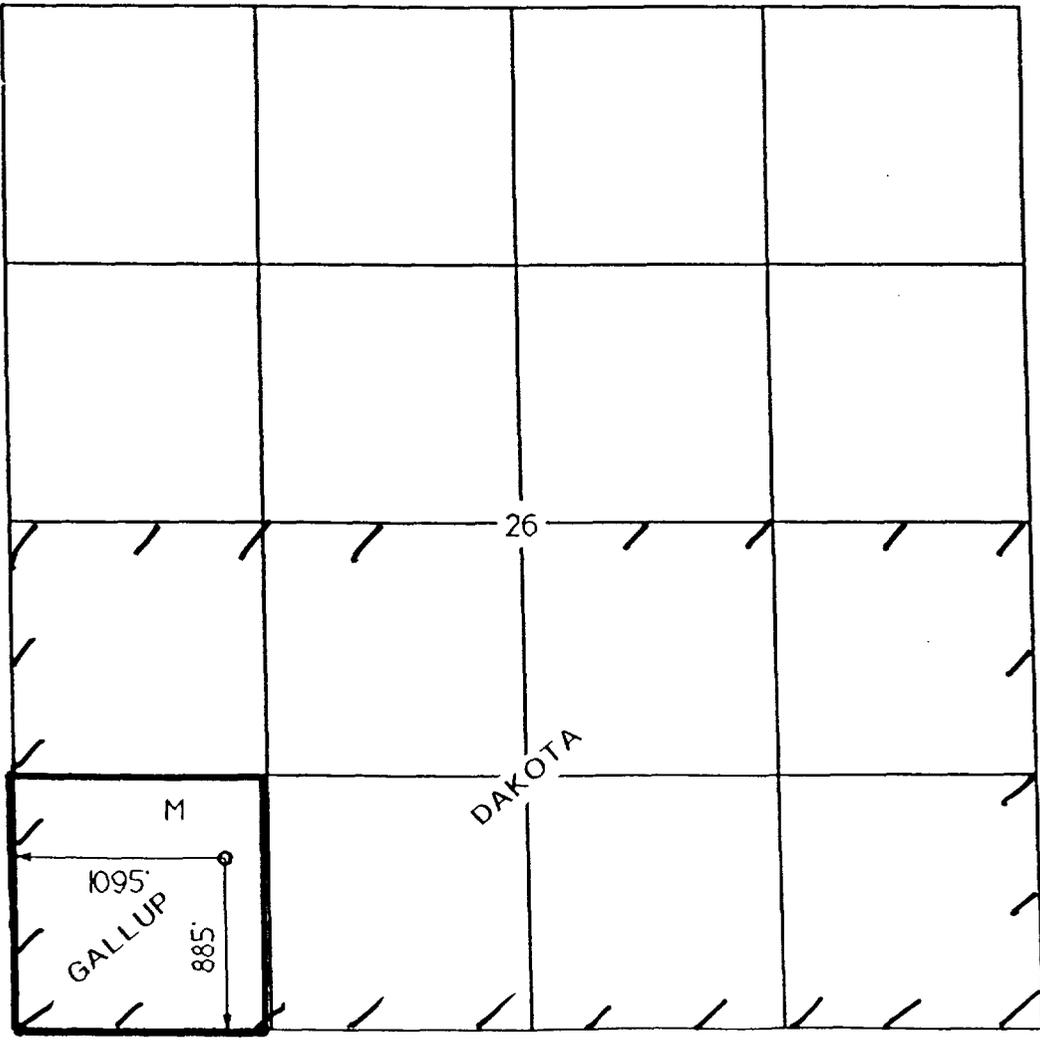
APA Number	Pool Code 48450 & 71599	Pool Name 78450 OTERO GALLUP & BASIN DAKOTA
Property Code	Property Name JICARILLA C	Well Number 4
GRID No. 149052	Operator Name ELM RIDGE RESOURCES	Elevation 6675

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
M	26	24 N.	.5 W.		885	SOUTH	1095	WEST	RIO ARRIBA

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

Dedication	Joint ?	Consolidation	Order No.
------------	---------	---------------	-----------

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



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

Signature: *Brian Wood*

Printed Name: BRIAN WOOD

Title: CONSULTANT

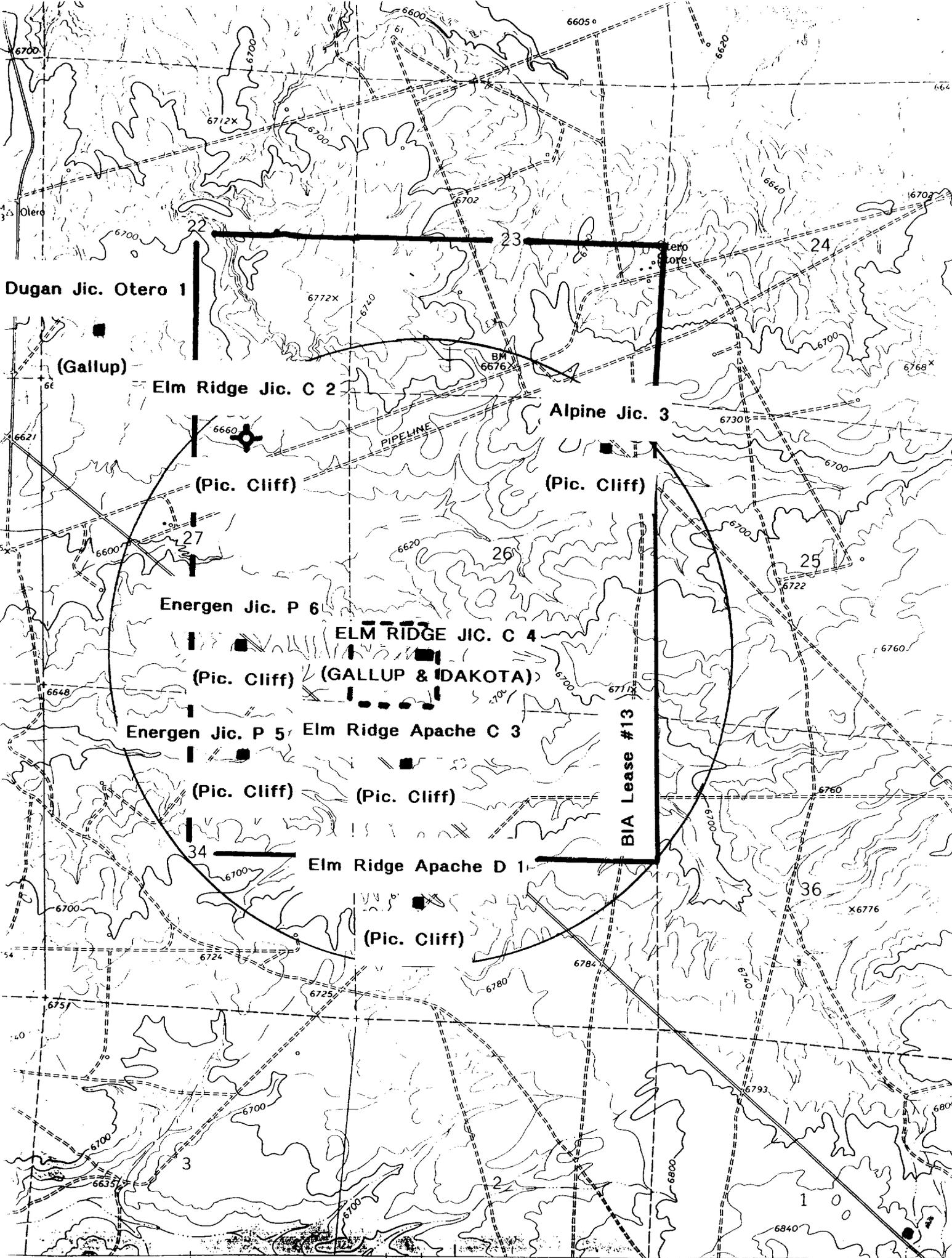
Date: JULY 6, 2001

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

Date of Survey:

Signature and Seal of Professional Surveyor: *April Hood*

APRIL HOOD  
REGISTERED LAND SURVEYOR  
6844



Dugan Jic. Otero 1

(Gallup)

Elm Ridge Jic. C 2

Alpine Jic. 3

(Pic. Cliff)

(Pic. Cliff)

Energen Jic. P 6

ELM RIDGE JIC. C 4

(Pic. Cliff)

(GALLUP & DAKOTA)

Energen Jic. P 5

Elm Ridge Apache C 3

(Pic. Cliff)

(Pic. Cliff)

Elm Ridge Apache D 1

(Pic. Cliff)

BIA Lease #13

PIPELINE

BM 6676

X6776

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
**BIA #13**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Jicarilla Apache**

7. UNIT AGREEMENT NAME **N/A**

8. FARM OR LEASE NAME WELL NO.  
**Jicarilla C 4**

9. API WELL NO.

10. FIELD AND POOL OR WILDCAT  
**Ot. Gall. & B. Dak.**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**26-24n-5w NMPM**

12. COUNTY OR PARISH 13. STATE  
**Rio Arriba NM**

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK  
**DRILL  DEEPEN**

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

2. NAME OF OPERATOR  
**Elm Ridge Resources, Inc. (505) 632-3476**

3. ADDRESS AND TELEPHONE NO.  
**P. O. Box 189, Farmington, NM 87499**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface **885' FSL & 1095' FWL**  
At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**9 air miles NE of Counselor**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	<b>3,525'</b>	16. NO. OF ACRES IN LEASE	<b>1,920</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL	<b>40 &amp; 320</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	<b>1,877'</b>	19. PROPOSED DEPTH	<b>6,900'</b>	20. ROTARY OR CABLE TOOLS	<b>Rotary</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	<b>6,675' ungraded</b>			22. APPROX. DATE WORK WILL START*	<b>Aug. 20, 2001</b>

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	K-55 8-5/8"	24	350'	≈250 cu. ft. & to surface
7-7/8"	J-55 4-1/2"	10.5	6,900'	≈3,235 cu. ft. & to surface

cc: BIA, BLM, Elm (D&F), OCD (via BLM), Tribe

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.  Consultant (505) 466-8120 7-6-01

SENT BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

\*See Instructions On Reverse Side

State of New Mexico  
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number	Pool Code	Pool Name
	48450 & 71599	OTERO GALLUP & BASIN DAKOTA
Property Code	Property Name	Well Number
	JICARILLA C	4
OGRID No.	Operator Name	Elevation
149052	ELM RIDGE RESOURCES	6675

Surface Location

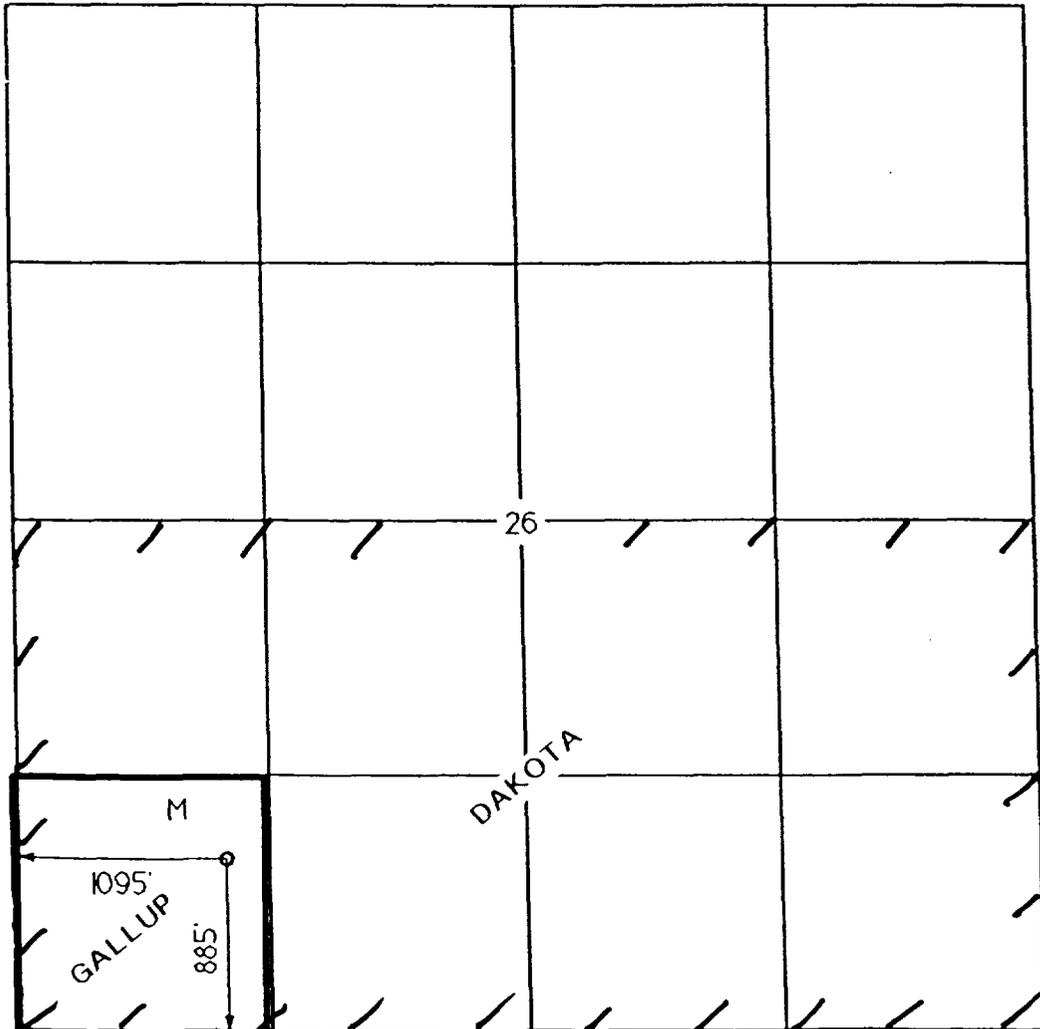
UL or Lot	Sec.	Top.	Rge.	Lot Idn.	Feet from >	North/South	Feet from >	East/West	County
. M	26	24 N.	.5 W.		885	SOUTH	1095	WEST	RIO ARRIBA

Bottom Hole Location If Different From Surface

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

Dedication	Joint ?	Consolidation	Order No.

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



OPERATOR CERTIFICATION

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

Signature

*Brian Wood*

Printed Name BRIAN WOOD

Title CONSULTANT

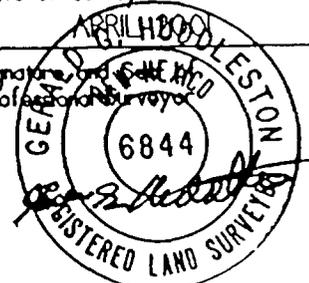
Date JULY 6, 2001

SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor



Elm Ridge Resources, Inc.  
 Jicarilla C 4  
 885' FSL & 1095' FWL  
 Sec. 26, T. 24 N., R. 5 W.  
 Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
San Jose	000'	12'	+6,675'
Ojo Alamo	1,940'	1,952'	+4,735'
Kirtland Fm	2,100'	2,112'	+4,575'
Fruitland Coal	2,275'	2,287'	+4,400'
Pictured Cliffs Ss	2,425'	2,437'	+4,250'
Lewis Shale	2,545'	2,557'	+4,130'
Gallup Ss	5,450'	5,462'	+1,225'
Dakota Ss	6,600'	6,337'	+75'
Burro Canyon	6,875'	6,887'	-200'
Total Depth (TD)*	6,900'	6,912'	-225'

\* all elevations reflect the ungraded ground level of 6,675'

2. NOTABLE ZONES

<u>Oil &amp; Gas Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	San Jose	Fruitland
Pictured Cliffs	Ojo Alamo	
Gallup	Fruitland	
Dakota		

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.

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### 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 3,000 psi model is on PAGE 3.

A  $\geq 3,000$  psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling surface casing plug. It will remain in use until the well is completed or abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

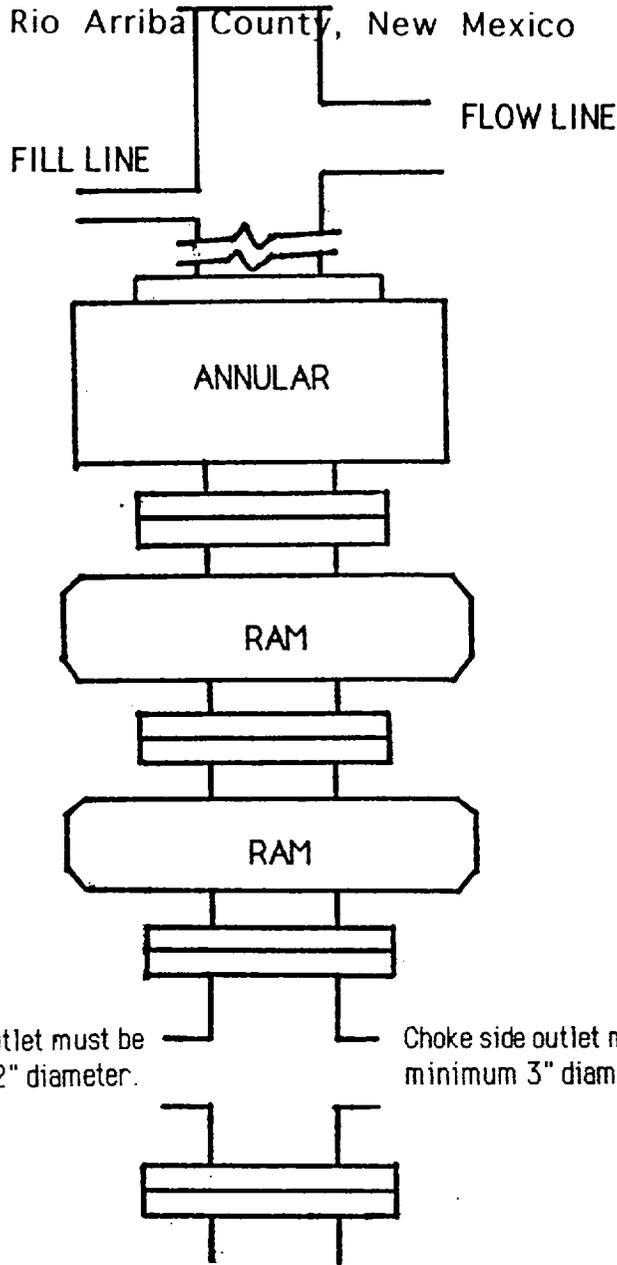
All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

### 4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	K-55	ST&C	New	350'
7-7/8"	4-1/2"	10.5	J-55	LT&C	New	6,900'

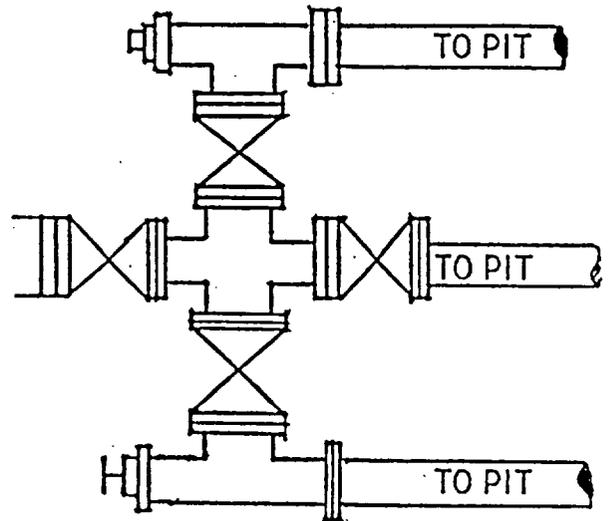
Surface casing will be cemented to the surface with  $\approx 250$  cubic feet ( $\approx 250$  sx) Class B with 1/4#/sk Flocele + 2% CaCl<sub>2</sub>. Volume is based on 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

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 Jicarilla C 4  
 885' FSL & 1095' FWL  
 Sec. 26, T. 24 N., R. 5 W.  
 Rio Arriba County, New Mexico



TYPICAL BOP STACK  
 & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill side outlet must be minimum 2" diameter.

Choke side outlet must be minimum 3" diameter.

Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.  
 Safety valve and subs will fit all drill string connections in use.  
 All BOPE connections subjected to well pressure will be flanged, welded, or clamped.

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Rio Arriba County, New Mexico

Production casing will be cemented to the surface in 2 stages with a stage tool set at  $\approx 4,550'$ . First stage volume will be  $\approx 1,410$  cu ft consisting of  $\approx 345$  sx Halliburton Lite with 1/4 #/sk Flocele followed by  $\approx 640$  sx Class B with 2% CaCl<sub>2</sub>. Second stage volume will be  $\approx 1,825$  cu ft consisting of  $\approx 990$  sx of Halliburton Lite with 2% CaCl<sub>2</sub> followed by  $\approx 50$  sx Class B with 2% CaCl<sub>2</sub> to cover the Mesa Verde, Pictured Cliffs, and Ojo Alamo. Volume is based on 75% excess, but caliper log will be used to determine actual volume needed. Centralizers will be installed on the middle of the shoe joint and on every joint thereafter for a total of  $\approx 30$  centralizers. Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.

#### 5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>ppg</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>pH</u>
0' - 350'	Fresh water gel chem	9.0	50	NC	9
350' - TD'	Fresh water gel chem	9.0	38-50	6.0	9

Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well site while drilling. Mud will be checked hourly by rig personnel. Material to soak up possible oil or fuel spills will be on site.

#### 6. CORING, TESTING, & LOGGING

No cores or DSTs are planned. DIL/GR logs will be run from TD to surface. CNL/FDC logs may be run over selected segments. Samples will be collected every 10' from 200' above the Point Lookout to the base of the Point Lookout and through the Gallup and Dakota. Samples will be collected every 30' elsewhere.

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Jicarilla C 4  
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Rio Arriba County, New Mexico

PAGE 5

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, or hydrogen sulfide are expected. Maximum pressure will be  $\leq 2,800$  psi.

8. OTHER INFORMATION

The anticipated spud date is August 20, 2001. It is expected it will take  $\approx 2$  weeks to drill and  $\approx 10$  days to complete the well. Completion is expected to include  $\approx 1000$  to  $\approx 1500$  gallons 15% HCl and a 50 to 60 ton sand frac.

Questions or notices concerning down hole matters should be directed to BLM's petroleum engineer Dave Sitzler in Albuquerque at 505-761-8919 or petroleum engineering technician Al Yepa in Cuba at 505-289-3748.

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PAGE 6

## Surface Use Plan

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

From the equivalent of Milepost 4.4 at the junction of J-36 and NM 537 ...  
Go northwest 6.3 miles on J-36  
Then turn right onto the C 3 well pad and drive to the north side of the pad  
Then follow flags cross country 0.4 miles north to the well site

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

### 2. ROADS TO BE BUILT OR IMPROVED

Four-tenths of a mile of new road will be built. It will initially be flat bladed with a  $\approx 15'$  wide running surface. (It will be crowned and ditched if production results. Borrow ditches will turn out and be skewed to drain at least once every 500'.) One 18" x 40' CMP culvert will be installed at the entrance to the pad. No fence is crossed. No turnout is needed. No upgrading of existing roads is needed. Maximum disturbance will be 30'. Maximum grade will be 7%.

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

There are 6 existing oil or gas wells and one P&A well within a mile radius. There are no water or injection wells.

### 4. PROPOSED PRODUCTION FACILITIES (See Page 14)

Production facilities will include a pipeline, separator, dehydrator, meter run, and 210 bbl tank. Above ground equipment will be painted a flat juniper green.

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PAGE 7

A steel  $\leq 4$ " O.D. natural gas pipeline will be laid south 7,993.28" along roads to an existing Elm Ridge gas pipeline near Elm Ridge's AXI Apache C 9 pad. The pipeline will operate at  $\approx 250$  psi, be tested to  $\approx 2,500$  psi, has a burst rating of  $\approx 11,010$  psi, and will be buried at least 36" deep.

#### 5. WATER SUPPLY

Water will be trucked from the Otero Ranch water hole.

#### 6. CONSTRUCTION MATERIALS & METHODS

The top 6" of soil and brush will be stripped and piled south of the pad. A diversion ditch will be cut south of the pile. A minimum 12 mil plastic liner will be installed in the reserve pit.

#### 7. WASTE DISPOSAL

The reserve pit will be fenced sheep tight on 3 sides with woven wire fence topped with barbed wire. The fourth side will be fenced once the rig moves off. The fence will be kept in good repair while the pit dries. Once dry, contents of the reserve pit will be buried in place.

All trash will be placed in a portable trash cage and hauled to an approved landfill. Human waste will be disposed of in 10' deep rat holes under trailers or in chemical toilets. Holes will be filled when the trailers are removed.

#### 8. ANCILLARY FACILITIES

There will be no air strips or camps. Camper trailers will be on location for

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PAGE 8

the company man, tool pusher, and mud logger.

#### 9. WELL SITE LAYOUT

See Pages 12 and 13 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, trash cage, access road onto the location, parking, living facilities, soil stockpile, and rig orientation.

#### 10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate, at which point it will be backfilled. The pad, road, pipeline, and backfilled pit will be recontoured to a natural appearance, soil spread evenly over disturbed areas, and disturbed areas ripped or harrowed. The south half seed mix will be drilled as prescribed by the BIA and Tribe. Bladed brush will be used as mulch.

If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed as previously described. All of the topsoil pile will be used to reclaim the reserve pit.

#### 11. SURFACE OWNER

The well, road, and pipeline are all on Jicarilla Apache Tribal Trust land.

#### 12. OTHER INFORMATION

The nearest clinics are an hour plus drive away in Cuba and Dulce. The nearest hospital is over two hours away in southwest Farmington.

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Rio Arriba County, New Mexico

PAGE 9

### 13. REPRESENTATION

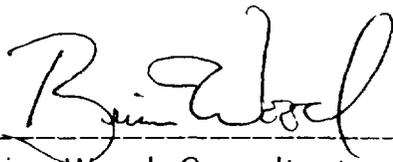
Anyone having questions concerning the APD should contact:

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

The field representative will be:

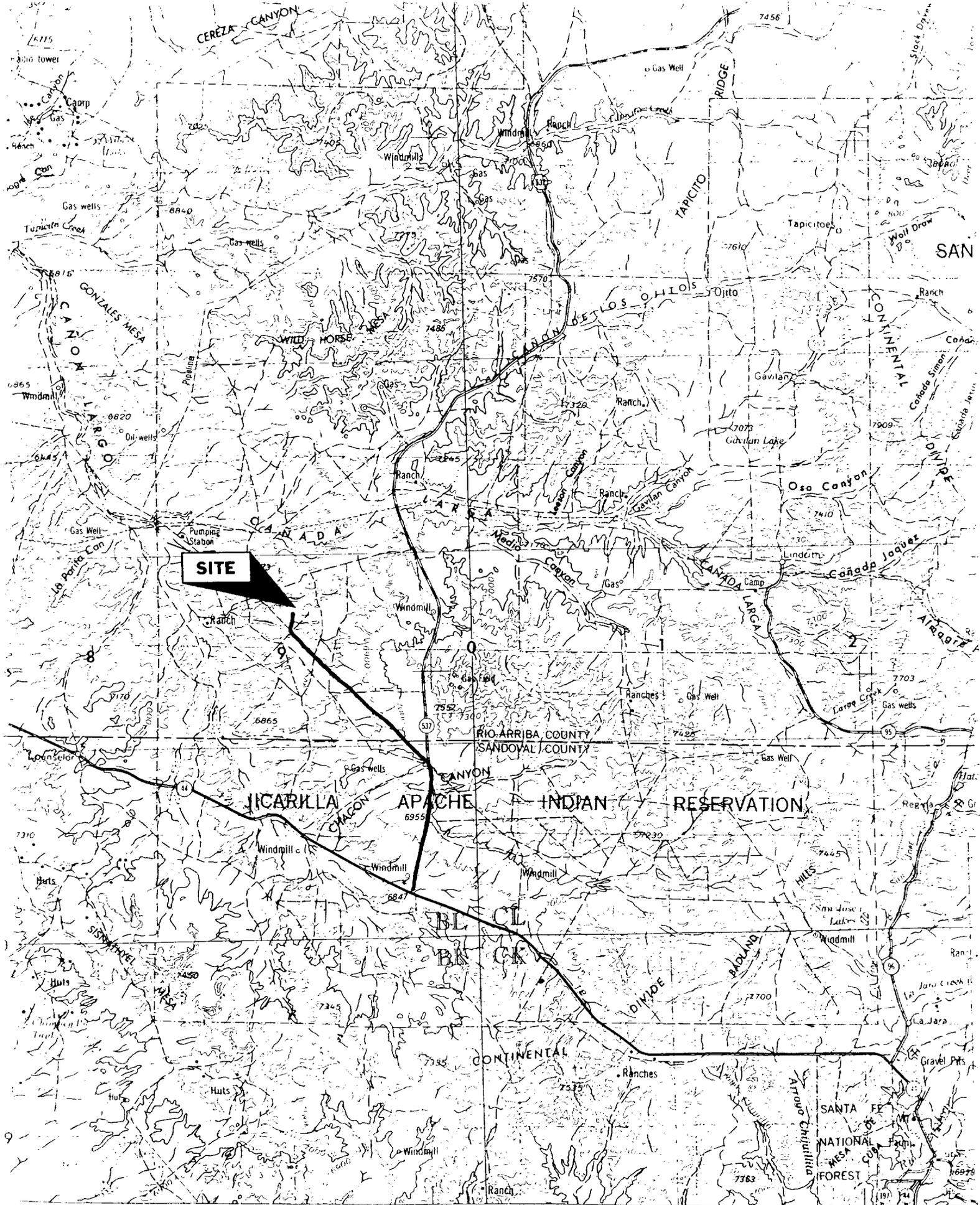
Doug Endsley  
Elm Ridge Resources, Inc.  
P. O. Box 189  
Farmington, NM 87499  
(505) 632-3476

Elm Ridge Resources, Inc. 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 Elm Ridge Resources, Inc. 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 Elm Ridge Resources, Inc. 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.



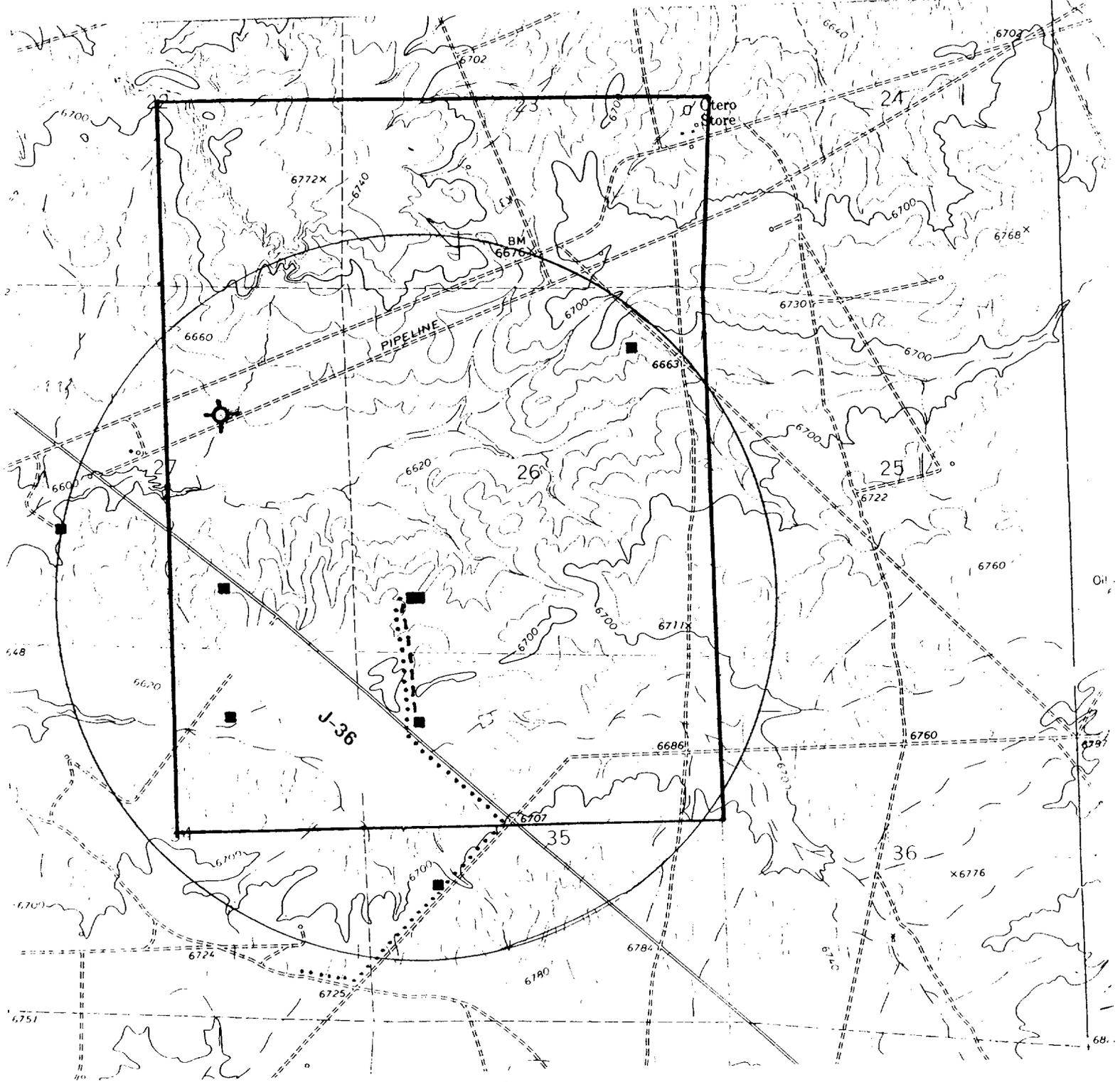
-----  
Brian Wood, Consultant

July 6, 2001



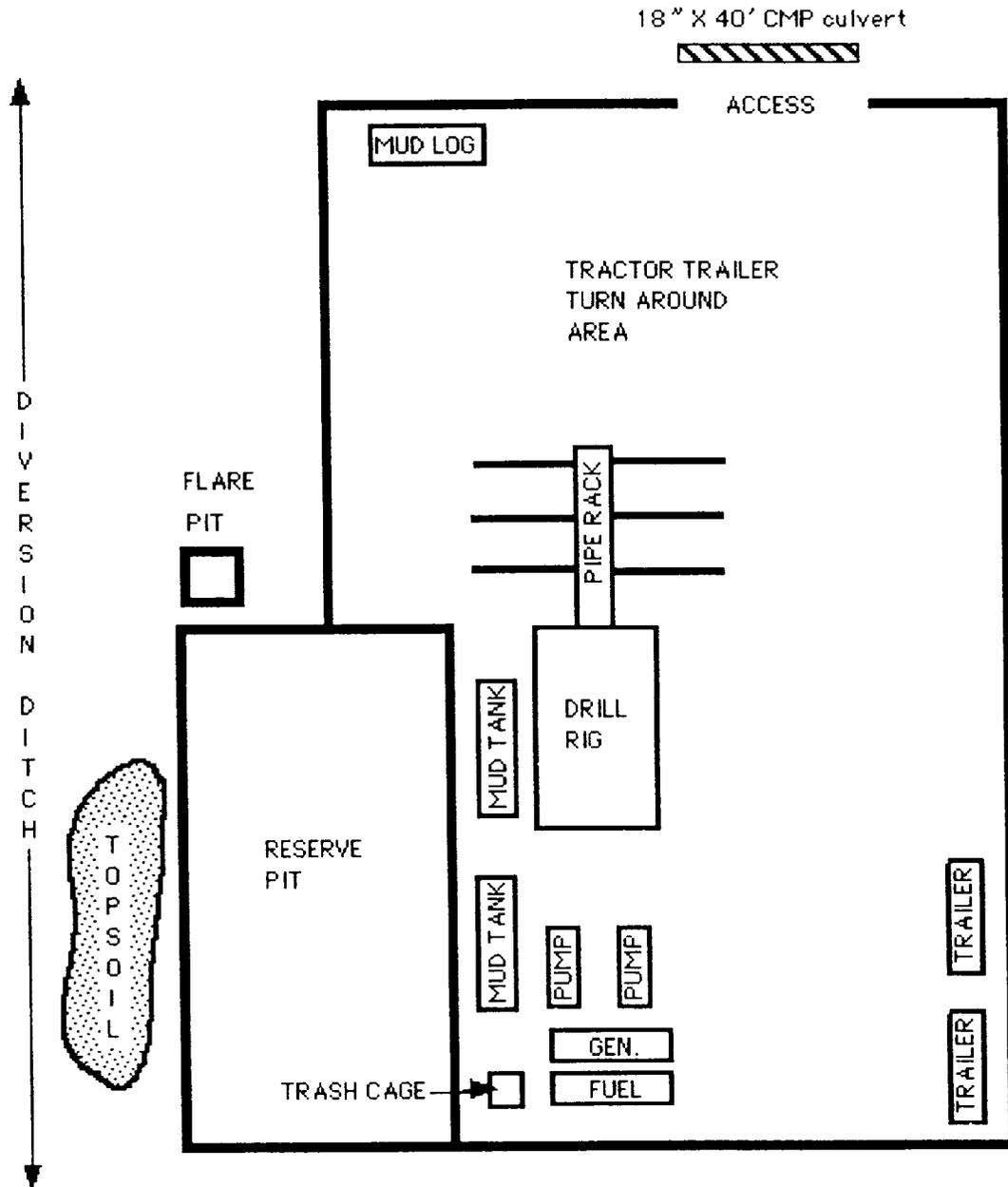
**SITE**

Elm Ridge Resources, Inc.  
Jicarilla C 4  
885' FSL & 1095' FWL  
Sec. 26, T. 24 N., R. 5 W.  
Rio Arriba County, New Mexico



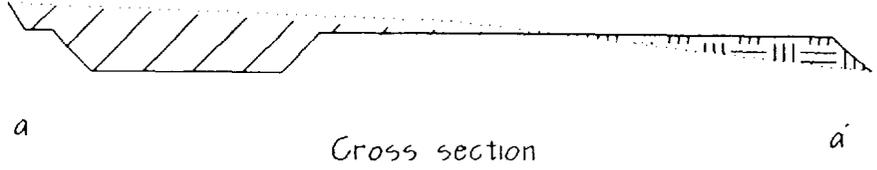
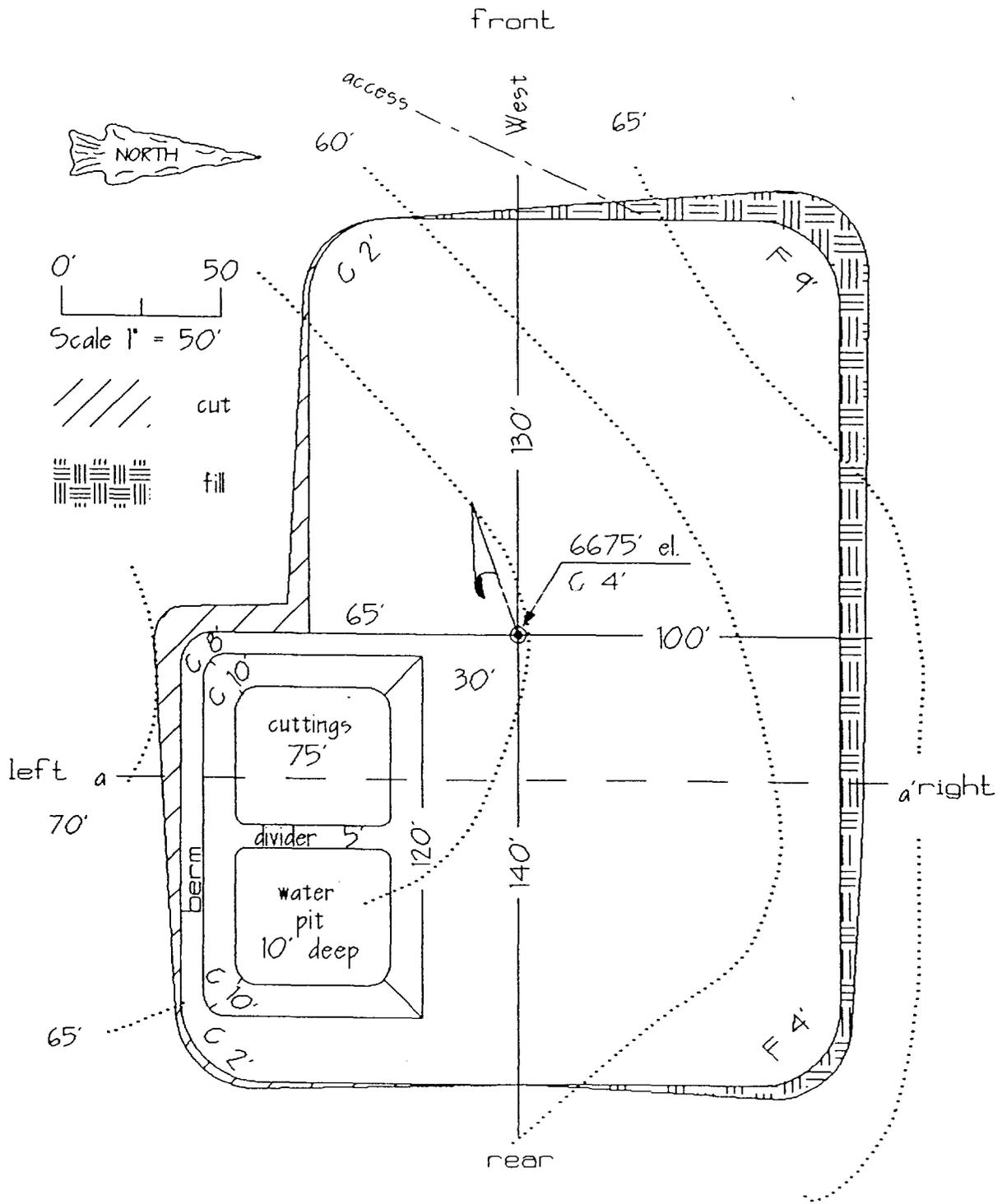
- PROPOSED WELL: ■
- EXISTING WELL: ■
- P & A WELL: ⊕
- PROPOSED PIPELINE: - · - · -
- NEW ROAD: - - -
- LEASE: ┌

Elm Ridge Resources, Inc.  
Jicarilla C 4  
885' FSL & 1095' FWL  
Sec. 26, T. 24 N., R. 5 W.  
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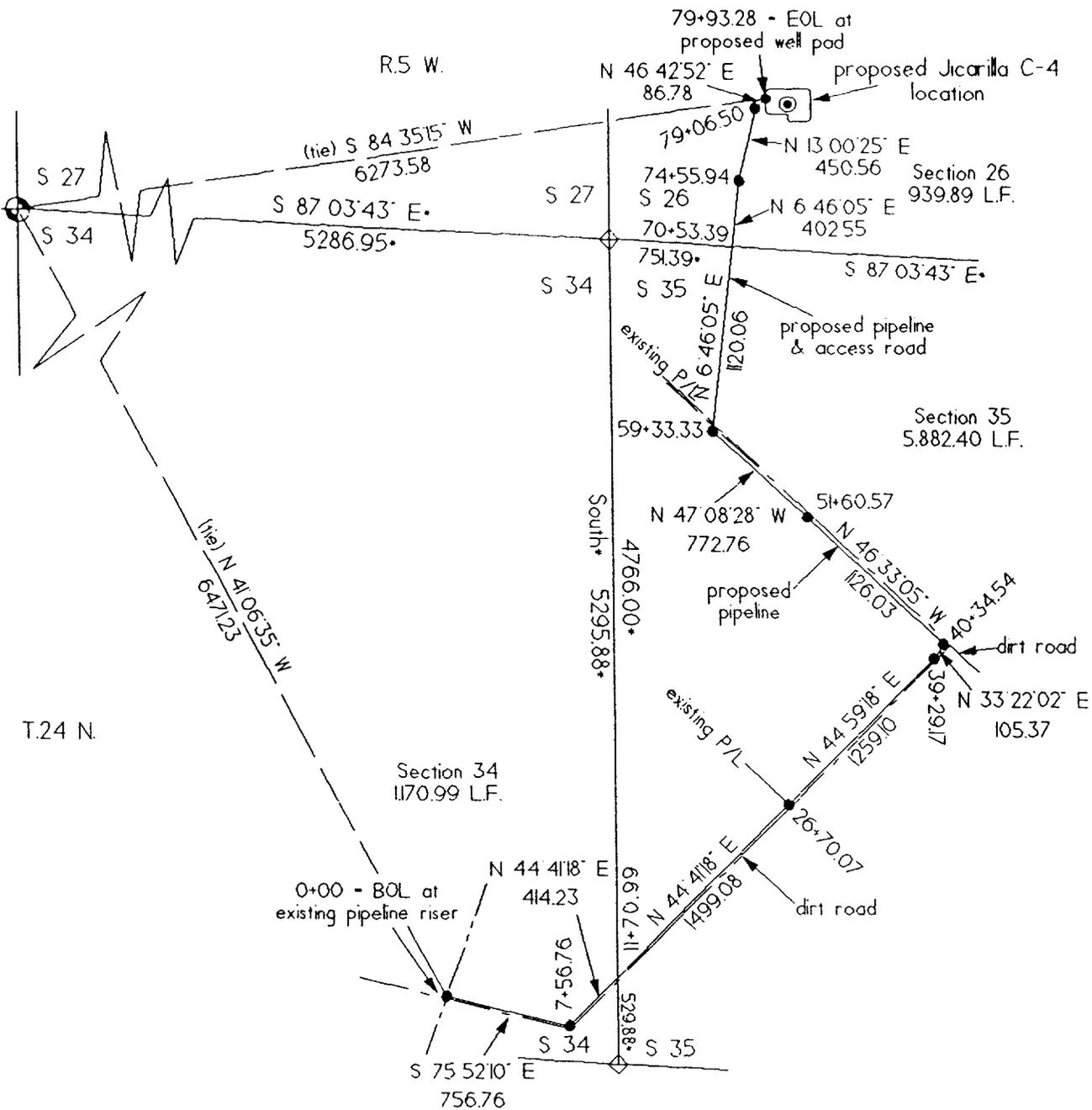


1" = 50'  NORTH

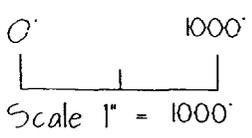
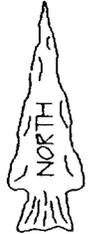
Jicarilla C - 4  
 well pod & section



Cross section



Basis of Bearing:  
GPS state plane coordinates  
rotated.



- ⊕ fnd. original stone in fenceline
- calculated distance/bearing
- ◇ calculated corner
- survey centerline PI

## Stogner, Michael

---

**From:** Hayden, Steven  
**Sent:** Thursday, December 06, 2001 1:59 PM  
**To:** Stogner, Michael  
**Subject:** Scott Federal 27-11-23 #1

Mike, this application has some small problems:  
The well name should contain the 23, not the well number- thus the Scott Fed 27-11-23 #1  
There is an available flat area in O.

This is about the only place to put a well in the NE/4, so I don't have any strong objections.

The other two applications from Elm Ridge have really poor topo maps, so I may be forced to go out and field check them next week. Darn!!!



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Fax: (505) 334-6170

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

12/28/01 14:36:  
OGOMES -TQ  
PAGE NO:

Sec : 26 Twp : 24N Rng : 05W Section Type : NORMAL

L 40.00	K 40.00	J 40.00	I 40.00
Indian owned	Indian owned	Indian owned	Indian owned
M 40.00	N 40.00	O 40.00	P 40.00
Indian owned	Indian owned	Indian owned	Indian owned

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

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

12/28/01 14:36:  
OGOMES -TQ  
PAGE NO:

Sec : 26 Twp : 24N Rng : 05W Section Type : NORMAL

D 40.00  Indian owned	C 40.00  Indian owned	B 40.00  Indian owned	A 40.00  Indian owned  A
E 40.00  Indian owned	F 40.00  Indian owned	G 40.00  Indian owned	H 40.00  Indian owned

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

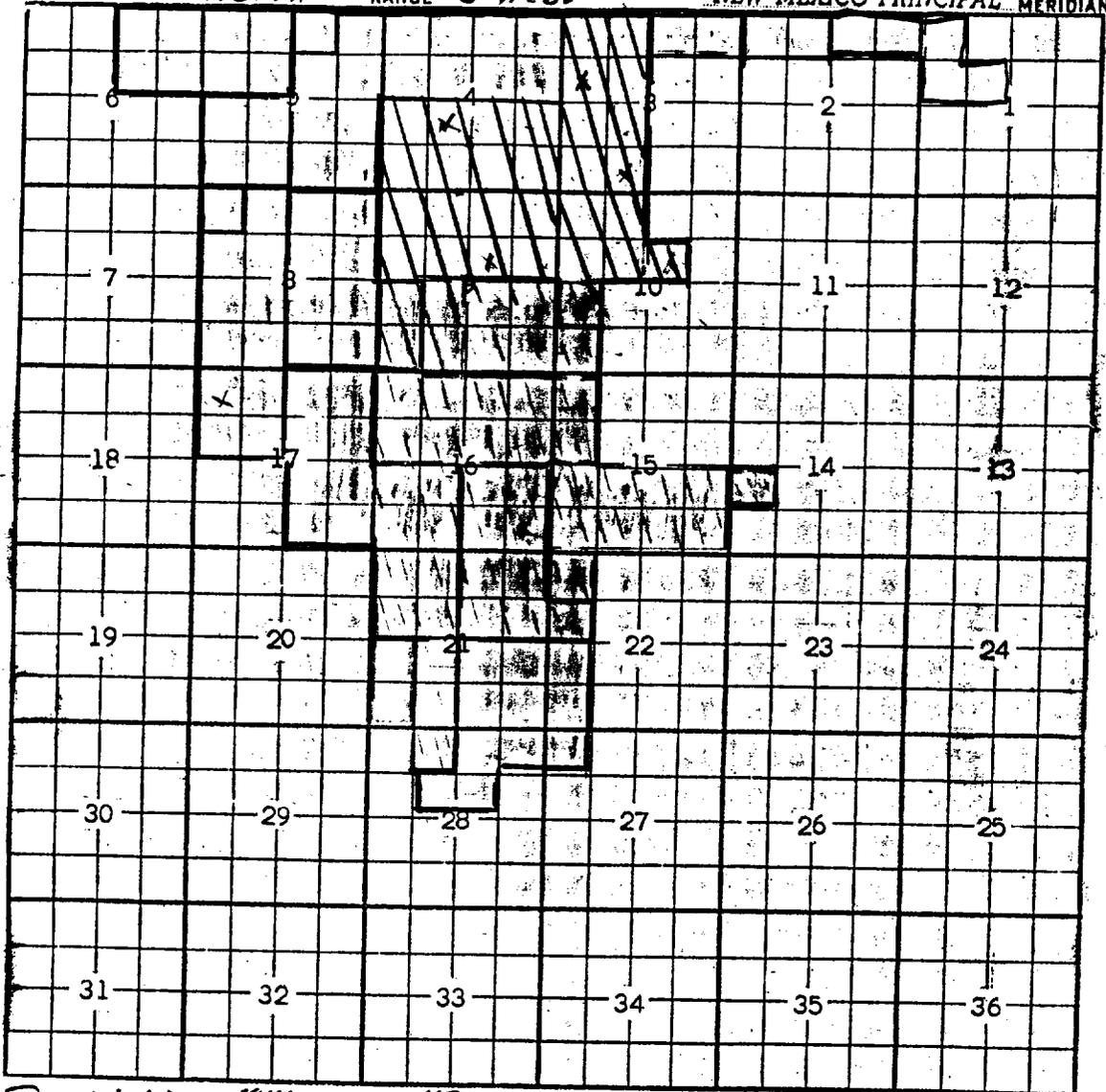
PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

County Rio Arriba Pool Otero - Gallup Oil

TOWNSHIP 24 North RANGE 5 West NEW MEXICO PRINCIPAL MERIDIAN



Description:  $NW\frac{1}{4}$  Sec. 5;  $NE\frac{1}{4}$  Sec. 6 (R-1119, 2-1-58)

Ext:  $NW\frac{1}{4}$   $NE\frac{1}{4}$  Sec. 5 (R-1249, 10-1-58) -  $SW\frac{1}{4}$  Sec. 5;  $NW\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 8 (R-1489)  
 -  $SW\frac{1}{4}$ ,  $S\frac{1}{2}$   $NW\frac{1}{4}$  &  $NE\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 8;  $NW\frac{1}{4}$  Sec. 17 (R-1858, 2-1-61) -  $E\frac{1}{2}$  Sec. 8;  
 $W\frac{1}{2}$   $SW\frac{1}{4}$  Sec. 9 (R-1908, 4-1-61) -  $SW\frac{1}{4}$  Sec. 16;  $E\frac{1}{2}$  Sec. 17;  $NW\frac{1}{4}$  Sec. 21 (R-2570)  
 -  $SE\frac{1}{4}$  Sec. 16;  $NE\frac{1}{4}$  Sec. 21;  $SW\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 27 (R-2580, 11-1-63) -  $W\frac{1}{2}$   $NW\frac{1}{4}$  Sec. 15;  
 $N\frac{1}{2}$  Sec. 16 (R-2676, 1-1-64) -  $W\frac{1}{2}$  Sec. 3; All Sec. 4;  $SE\frac{1}{4}$ ,  $S\frac{1}{2}$   $NE\frac{1}{4}$ , &  $NE\frac{1}{4}$   $NE\frac{1}{4}$  Sec. 5;  
 $N\frac{1}{2}$  &  $E\frac{1}{2}$   $SW\frac{1}{4}$  Sec. 9;  $NW\frac{1}{4}$   $SW\frac{1}{4}$   $NE\frac{1}{4}$  &  $NW\frac{1}{4}$   $SW\frac{1}{4}$  Sec. 10 (R-4269, 3-1-72)

Ext:  $S\frac{1}{2}$  Sec. 15 (R-5339, 2-1-77) Ext:  $NW\frac{1}{4}$   $SW\frac{1}{4}$  Sec. 14,  $E\frac{1}{2}$   $SW\frac{1}{4}$  Sec. 21,  
 $NE\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 28 (R-6056, 8-1-79) Ext:  $N\frac{1}{2}$   $NW\frac{1}{4}$  Sec. 2 (R-6327, 5-1-80)

Ext:  $W\frac{1}{2}$   $NW\frac{1}{4}$  &  $SE\frac{1}{4}$   $NW\frac{1}{4}$  sec. 1,  $N\frac{1}{2}$   $NE\frac{1}{4}$  sec. 2 (R-6886, 1-22-82)

Ext:  $N\frac{1}{2}$   $NE\frac{1}{4}$  sec. 3 (R-7046, 8-6-82) Ext:  $SE\frac{1}{4}$  Sec. 9,  $SW\frac{1}{4}$   $SW\frac{1}{4}$  Sec. 10,  $NW\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 22 (R-7185, 1-13-82)

Delete:  $W\frac{1}{2}$  Sec. 3,  $S\frac{1}{2}$  Sec. 4,  $N\frac{1}{2}$  Sec. 9,  $NW\frac{1}{4}$  and  $SW\frac{1}{4}$   $NE\frac{1}{4}$  Sec. 10 (R-8106, 12-26-85)

Ext:  $SE\frac{1}{4}$  Sec. 21,  $W\frac{1}{2}$   $SW\frac{1}{4}$  Sec. 22,  $NW\frac{1}{4}$   $NW\frac{1}{4}$  Sec. 27,  $N\frac{1}{2}$   $NE\frac{1}{4}$ ,  $SW\frac{1}{4}$   $NE\frac{1}{4}$ , and  $SE\frac{1}{4}$   $NW\frac{1}{4}$  (R-8417, 3-29-82)  
 sec 28

## Stogner, Michael

---

**From:** Hayden, Steven  
**Sent:** Tuesday, December 18, 2001 8:11 AM  
**To:** Stogner, Michael  
**Subject:** NSLs

Mike,

I am getting back to you here on the two Elm Ridge wells from a week or so ago and a new MarkWest one.

Elm Ridge State of New Mexico 16 #21 I have no objection to using this wellbore in the NW as there are no other close BFC wells.

Elm Ridge Jicarilla C #4 I am not sure from looking at topo maps and Terraserver photos whether or not they could have a standard location in this 40 acres.

I was out in the field in the general area last week, but there was ~8" of new snow and things were difficult and I didn't make it in to this location to field check it.

MarkWest Scott Federal 27-11-23 #1 I agree on the topographic reason for the NSL (this just came in yesterday).



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Fax: (505) 334-6170



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- Deg/min/sec
- UTM coords

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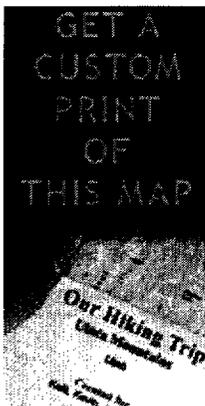
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- Get digital data
- Link to us

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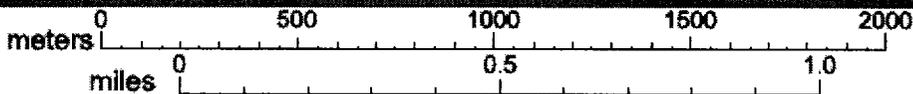
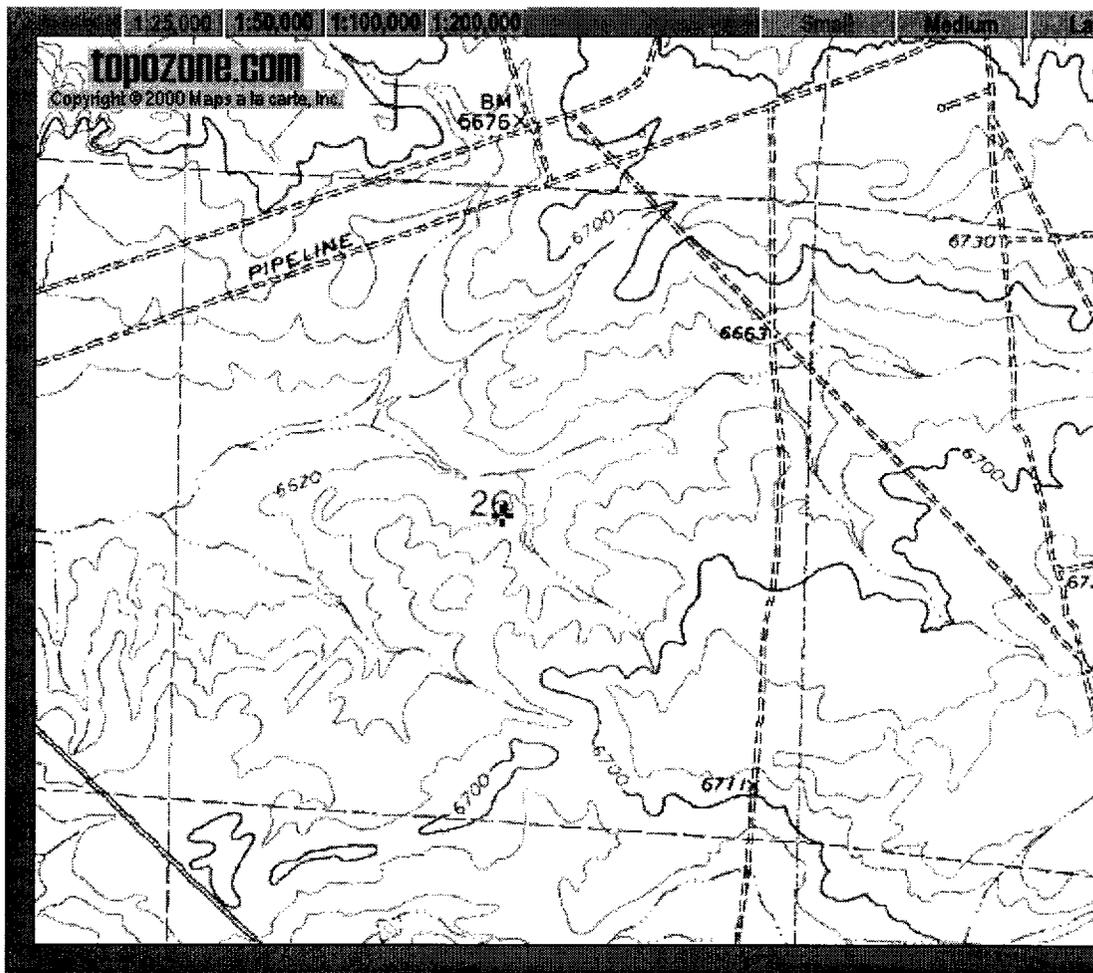
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Coordinates (NAD27):  UTM  DD.DDDD  D/M/S  Show target

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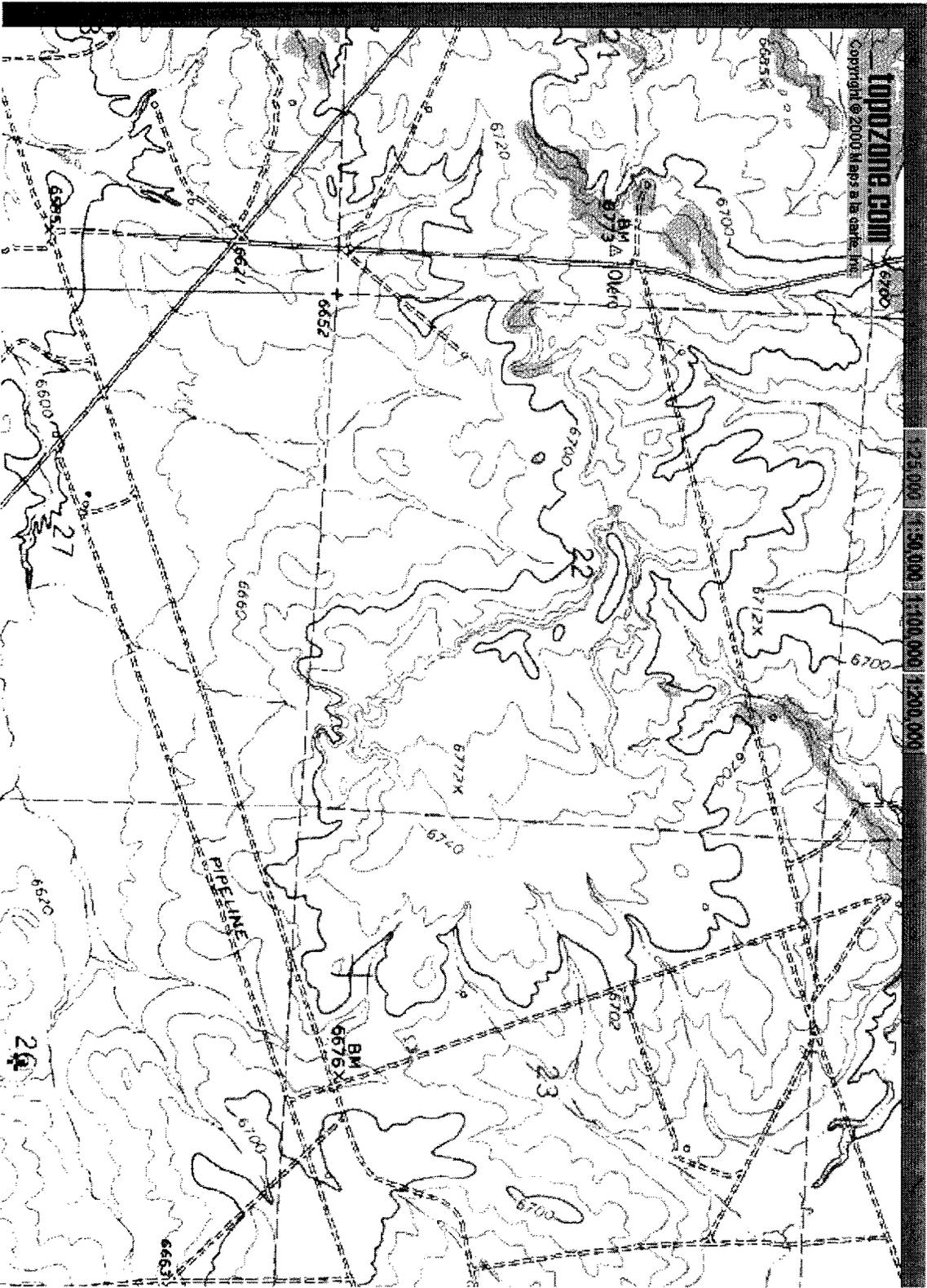
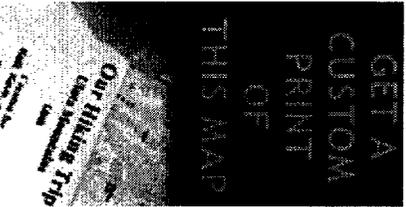
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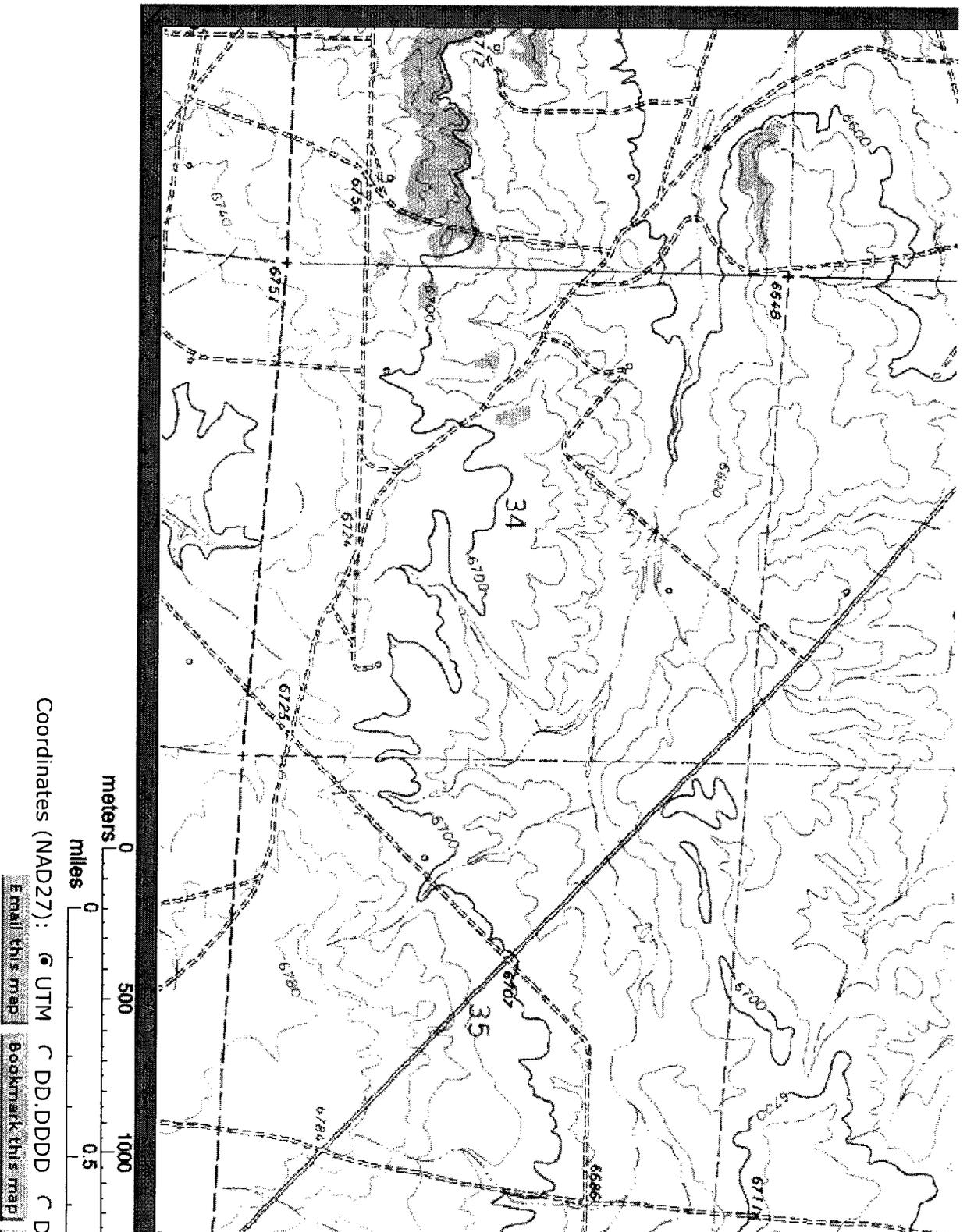
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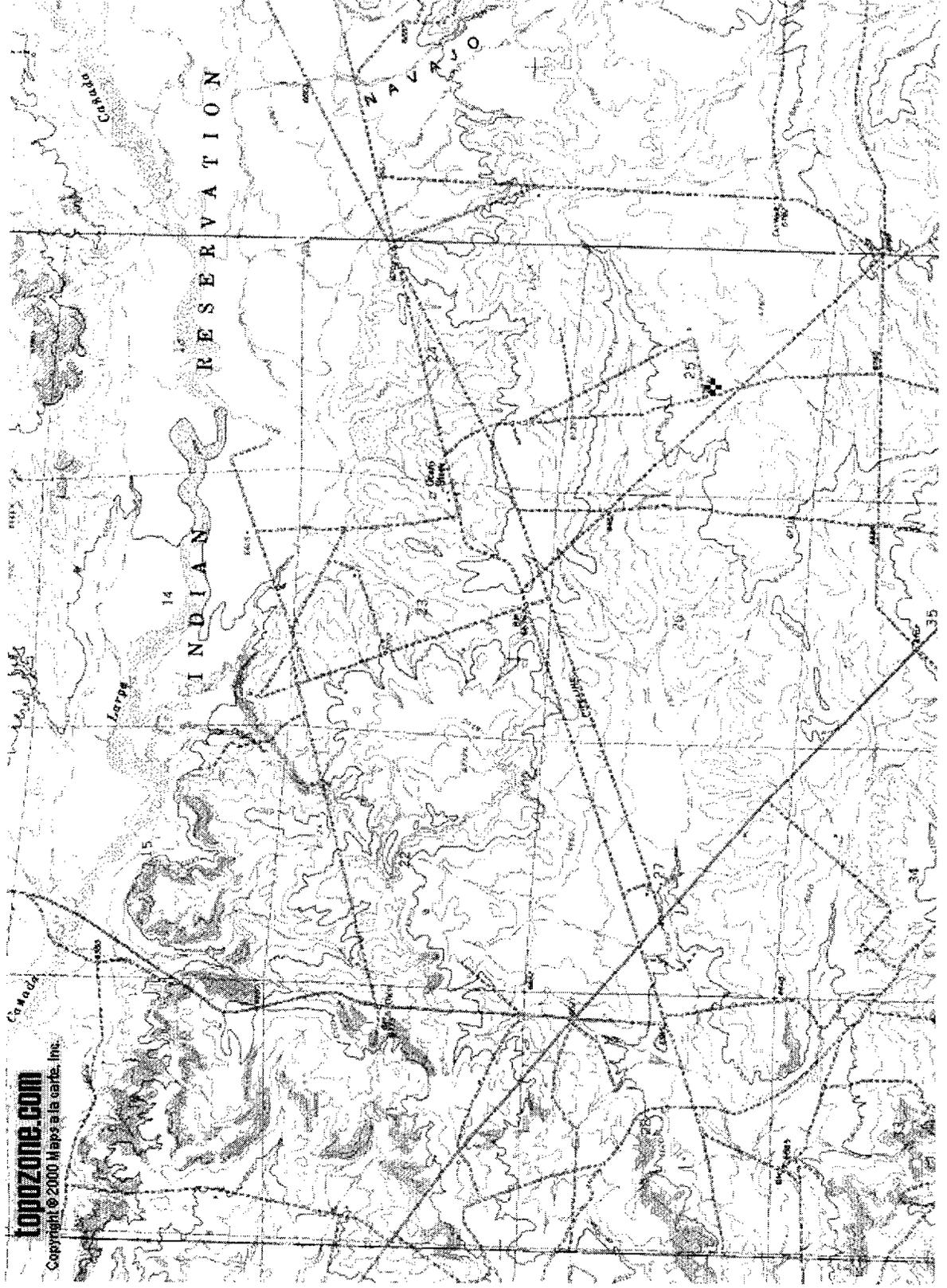


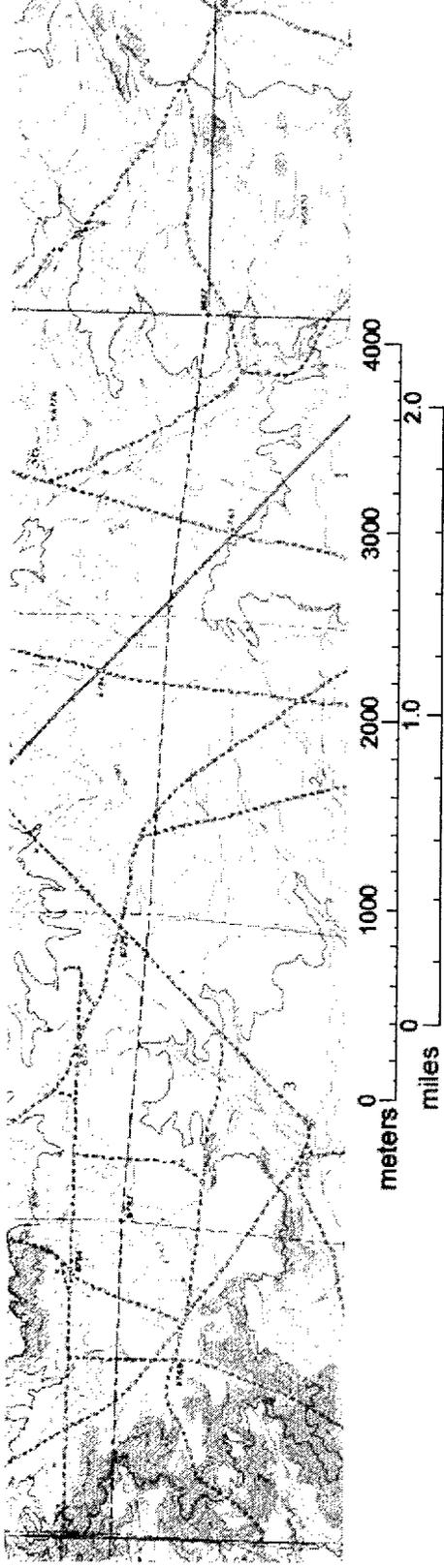


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## Stogner, Michael

---

**From:** Hayden, Steven  
**Sent:** Friday, December 28, 2001 3:58 PM  
**To:** Stogner, Michael  
**Subject:** RE: NSL-4679

The property name should be: Jicarilla Apache C #4... Permits West did its usual bang up job on the applications, including the APD and Plat.



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Fax: (505) 334-6170

-----Original Message-----

**From:** Stogner, Michael  
**Sent:** Friday, December 28, 2001 3:53 PM  
**To:** Valdes, Kathy  
**Cc:** Chavez, Frank; Hayden, Steven; Perrin, Charlie; Brian Wood (E-mail)  
**Subject:** NSL-4679

draft order attached

<< File: OIL014.doc >>

## Stogner, Michael

---

**From:** Hayden, Steven  
**Sent:** Friday, December 28, 2001 3:58 PM  
**To:** Stogner, Michael  
**Subject:** RE: NSL-4679

The property name should be: Jicarilla Apache C #4... Permits West did its usual bang up job on the applications, including the APD and Plat.



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