

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No 1004-0136
Expires January 31, 2004

5 Lease Serial No.

Jicarilla Apache Contract #92

6 If Indian, Allottee or Tribe Name

1 Jicarilla Apache Nation

7 If Unit or CA Agreement, Name and No

RECEIVED

8 Lease Name and Well No

Jicarilla 92 #2A

1a Type of Work ☒ DRILL

☐ REENTER

1b Type of Well ☐ Oil Well ☒ Gas Well ☐ Other

☒ Single Zone

☐ Multiple Zone

2 Name of Operator

Williams Production Company, LLC

3a Address

P.O. Box 640 Aztec, NM 87410

3b Phone No (include area code)

(505) 634-4208

4 Location of Well (Report location clearly and in accordance with any State requirements *)

At surface 1095' FNL & 1175' FWL

At proposed prod zone same

14 Distance in miles and direction from nearest town or post office*

16 miles from Lindrith, NM

9 API Well No

30-039-29944

10 Field and Pool, or Exploratory

Blanco MV

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

D Section 29, T27N R3W

12 County or Parish

Rio Arriba

13 State

NM

15 Distance from proposed*

location to nearest
property or lease line, ft
(Also to nearest drg. unit line, if any)

1095'

16 No of Acres in lease

320

17. Spacing Unit dedicated to this well

320 (W/2)

18 Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft

350'

19 Proposed Depth

6,707'

20 BLM/BIA Bond No on file

B001576

21 Elevations (show whether DF, KDB, RT, GL, etc.)

7,323' GF

22 Approximate date work will start*

August 1, 2005

23 Estimated duration

1 month

24. Attachments

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

1. Well plat certified by a registered surveyor

2. A Drilling Plan

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

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

5. Operator certification

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

25 Signature

Name (Printed/Typed)

Date

Title

Larry Higgins

5-31-06

Drilling COV

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

7/14/08

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct
operations thereon

Conditions of approval, if any, are attached

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

*(Instructions on reverse)

Williams Production Company, LLC, proposes to drill a vertical well to develop the Blanco Meca Verde formation at the above described location in
accordance with the attached drilling and surface use plans.

The surface is located on Jicarilla Apache Nation lands

This location has been archaeologically surveyed by Velarde Energy

A 5802 3 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands.

2000' of new access road will be needed to access this well.

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOC D FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT TO
NMOC D PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOC D

JUL 17 2008

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

RCVD JUL 17 '08

OIL CONS. DIV.

DIST. 3

District I
1615 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Bravo Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-----------------------------------|---|---------------------------------------|
| API Number 30-039-29944 | Pool Code 72319 | Pool Name BLANCO MESA VERDE |
| Property Code 17028 | Property Name JICARILLA 92 | Well Number 2A |
| GRID No. 120782 | Operator Name WILLIAMS PRODUCTION COMPANY | Elevation 7323 |

10 Surface Location

| CL or Loc. no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|----------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| D | 29 | 27N | SW | | 1095 | NORTH | 1175 | WEST | RIO ARriba |

11 Bottom Hole Location If Different From Surface

| CL or Loc. no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------------------------------|---------|-----------------|-------|--------------------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres 320 AC (W2) | | Joint or Indiv. | | Consolidation Code | | Order No. | | | |

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

| | | | |
|---------|---------|---------|---|
| 15 | 6279.26 | | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Heather Riley</i> Signature <i>Heather Riley</i> Printed Name Regulatory Specialist Title and Position 7/17/08 Date |
| 1175' | | | 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was placed in the field under my personal supervision and that the same is true and correct to the best of my belief. JANUARY 8, 2006 Don't Sign Signature CECIL E. TULLIS REGISTERED PROFESSIONAL LAND SURVEYOR NEW MEXICO 139672 |
| 6279.61 | 29 | 6284.96 | |
| | 6274.96 | | |



WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 5/30/2006 **FIELD:** Blanco MV
WELL NAME: Jicarilla 92 #2A **SURFACE:** BOIA
BH LOCATION: NWNW Sec 29-27N-3W **MINERALS:** Jicarilla #92
Rio Arriba, NM
ELEVATION: 7,323' GR **LEASE #** Jicarilla #92
MEASURED DEPTH: 6,707'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

| Name | MD | Name | MD |
|----------------|-------|---------------|-------|
| Ojo Alamo | 3,642 | Cliff House | 5,887 |
| Kirtland | 3,822 | Menefee | 5,957 |
| Fruitland | 3,877 | Point Lookout | 6,257 |
| Picture Cliffs | 4,112 | Mancos | 6,527 |
| Lewis | 4,312 | TD | 6,707 |

- B. MUD LOGGING PROGRAM:** Mudlogger on location at 3,500' to intermediate casing TD and intermediate casing to TD.
- C. LOGGING PROGRAM:** High Resolution Induction/ GR and Density/ Neutron log from surface casing to intermediate casing and intermediate shoe to TD. Onsite geologist will pick Density/ Neutron log intervals on both logging runs.
- D. NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING:

- A. MUD PROGRAM:** Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7 in. csg. to TD.
- B. BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS**A. CASING PROGRAM:**

| <u>CASING TYPE</u> | <u>HOLE SIZE</u> | <u>DEPTH (MD)</u> | <u>CASING SIZE</u> | <u>WT. & GRADE</u> |
|--------------------|------------------|-------------------|--------------------|------------------------|
| Surface | 12-1/4" | +/- 300' | 9-5/8" | 36# K-55 |
| Intermediate | 8-3/4" | +/- 4,492' | 7" | 20# K-55 |
| Prod. Liner | 6-1/4" | +/- 4,392-6,707' | 4-1/2" | 10.5# K-55 |

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (**NTL-FRA 90-1**).
3. PRODUCTION CASING: 4-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

IV. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: Slurry: 150sx (205 cu.ft.) of "Type III" + 2% CaCl₂ + 1/4 # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
2. INTERMEDIATE: Lead - 580 sx (1,210 cu.ft.) of "Premium Light" with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 50 sx (70cu.ft.) of "Type III" with 1/4# cello-flake/sk (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use **100% excess in Lead Slurry** to circulate to surface. **No excess in Tail Slurry**. Total volume = 1,282 1,160 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
3. PRODUCTION LINER: 10 bbl Gelled Water space. Lead: 50sx (130ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Tail: 100 sx (215 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, 1/4 #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 345 308 ft³. WOC 12 hours

V. IV COMPLETION**A. CBL**

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement is not circulated to surface.

B. PRESSURE TEST

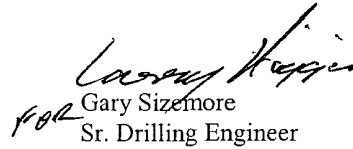
1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

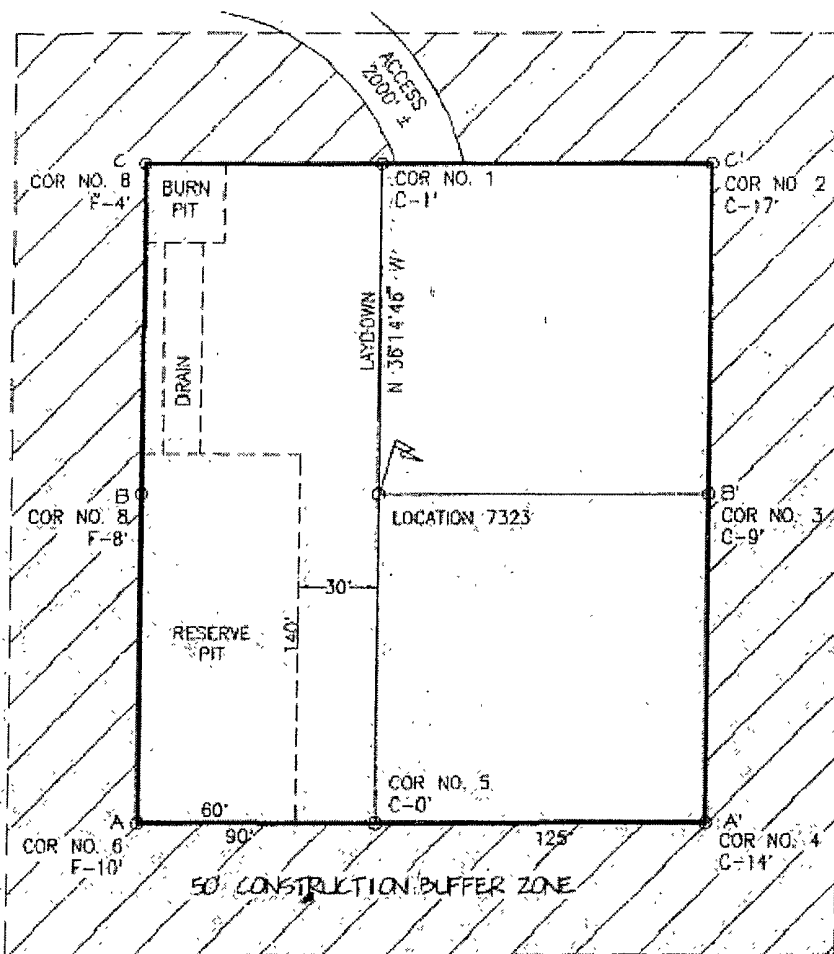
1. Perforate the Point Lookout as determined from the open hole logs.
2. Stimulate with approximately 9,300# of 14/30 LiteProp™ sand in slick water.
3. Isolate Point Lookout with a CIBP.
4. Perforate the Menefee/Cliff House as determined from the open hole logs.
5. Stimulate with approximately 9,300# of 14/30 LiteProp™ sand in slick water.
6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

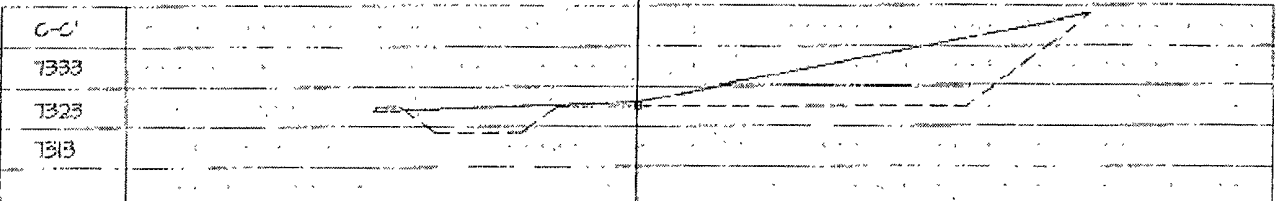
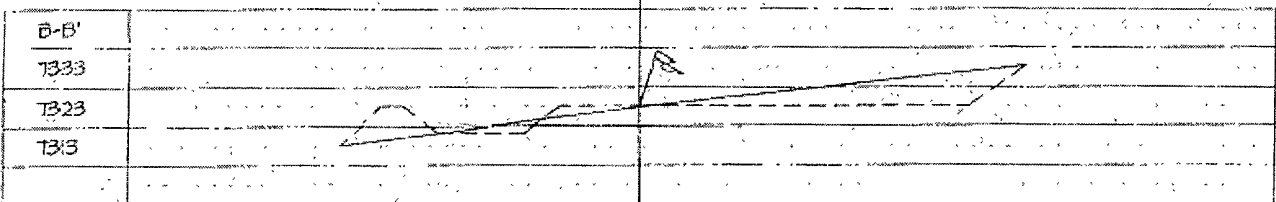
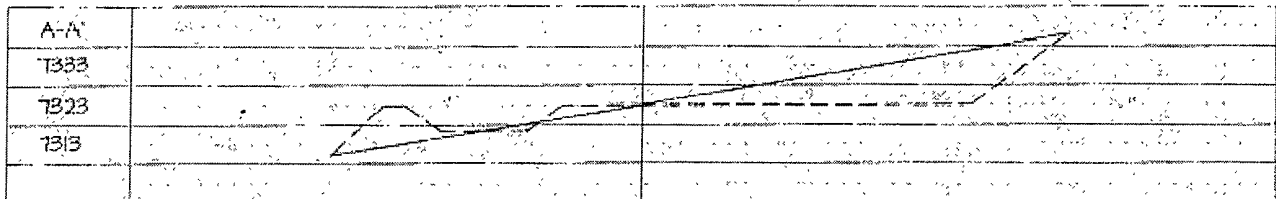
1. Mesa Verde: Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.


for Gary Sizemore
Sr. Drilling Engineer

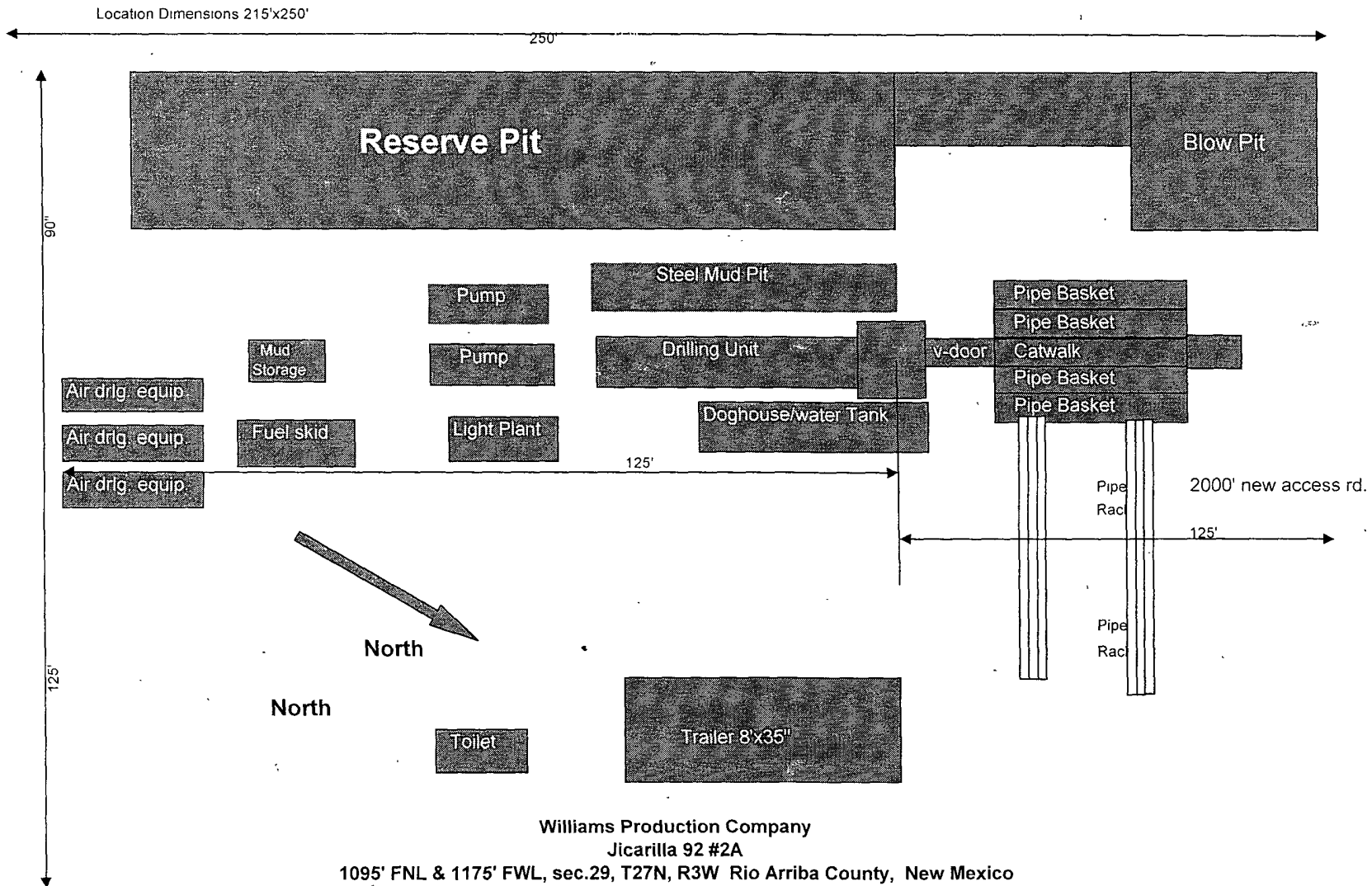
WILLIAMS PRODUCTION COMPANY
 JICARILLA 92 #2A
 1095 FNL & 1175 FWL
 SECTION 29 T27N R3W NMPM
 RIO ARriba COUNTY, NEW MEXICO
 ELEVATION: 7323



LATITUDE: 36°32'55" N
 LONGITUDE: 107°10'23" W
 NGS 84
 VERT. DATUM: NAD 1921



Plat #3 Location Diagram



Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

Location: San Juan Basin, New Mexico

Date: August 20, 2001

By: John Thompson (Walsh E&P)

