

DATE: 6/23/00	REPORT: 7/13/00	ENGINEER: MS	LOGGED: KW	TITLE: NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [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 - Directional Drilling

X NSL NSP DD SD

Check One Only for [B] and [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

[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] X 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

Date

Rec Approval

HEV 8-17-2000

Well Data: 4 1/2 in. Production

Depth	5,280 ft.
Liner Size	4 1/2 in., 10.5 lbs./ft.
Liner Top	1,825 ft.
Open Hole Diameter	6 1/4 in.
Previous Csg. Depth	2,025 ft.
Previous Csg. Size	7 in., 20 lbs./ft.
BHST	150 °F
BHCT	110.8 °F
Total Excess	50 %
Tail Excess	50

Calculations:

Volume Factors:

Liner x Open Hole	0.1026 cu.ft./ft.
Liner x Previous Casing	0.1171 cu.ft./ft.
Liner (Internal)	0.0896 cu.ft./ft.
Previous Casing (Internal)	0.2275 cu.ft./ft.

Top of Cement

1,625 ft.

Cement System:

Open Hole Fill	(3,255 x 0.1026 x 1.5) / 1.6 = 313 sks.
Liner Lap Fill	(200 x 0.1171) / 1.6 = 15 sks.
Liner Cap	(200 x 0.2275) / 1.6 = 28 sks.
Casing Shoe Cement	(80 x 0.0896) / 1.6 = 7 sks.
Total Cement	= 360 sks.

< T.D. - 5,280 ft.

< Top of Cement
1,625 ft.
< Liner Top
1,825 ft.
< Previous Csg
2,025 ft.

< Surface

**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

Sent Federal Express

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: San Juan 27-5 Unit #83M
2550'FNL, 2076'FWL Section 9, T-27-N, R-5-W, Rio Arriba County
30-039-26292

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Basin Dakota. This well is planned as a Blanco Mesaverde/Basin Dakota commingled well. The referenced footage is a standard location for the Mesaverde by Order R-10987A dated February 3, 1999. This location is at the request of the Bureau of Land Management due to rough terrain in the form of very steep slopes which prevent an acceptable access road and well location.

Production from the Dakota pool is to be included in a 320 acre gas spacing and proration unit for the north half (N/2) in Section 9. Production from the Mesaverde is to be included in a 320 acre gas spacing and proration unit for the west half (W/2) in Section 9. Order DHC-2584 was received to commingle production from the Dakota and Mesaverde.

The following attachments are for your review:

- Application for Permit to Drill
- Completed C-102 at referenced location.
- Offset operators/owners plat - Burlington is the operator of the San Juan 27-5 Unit
- Topographic map

Burlington Resources believes there are no correlative rights issues because the encroachment is toward federal unit property. The San Juan 27-5 Unit #83M well is offset by San Juan 27-5 Unit acreage and Burlington is the operator of the San Juan 27-5 Unit.

Sincerely,



Peggy Cole
Regulatory Supervisor

xc: NMOCD - Aztec District Office
Bureau of Land Management

Cementing Systems

Spacer System: 10 bbls .

CW-100 Chemical Wash

Cement System: 360 sks.

50:50 Poz:Class B + 2.75% D20 + 0.2% D167 + 0.1% D46 + 0.25 pps D29

Mix Weight	:	12.4	PPG
Yield	:	1.6	cu.ft./sk.
Mix Water	:	8.28	gal./sk.
Fluid Loss	:	372	cc/30 minutes
Thickening Time	:	5:00	hours:minutes
Comp. Strength	:	1,200	psi in 48 hrs.

4 1/2" total
360 sk

Performance parameters for cement systems recommended are typically taken from existing laboratory data. In some cases, data exist which duplicate the recommended systems and job environment, but when those data do not exist, extrapolations are made from data which most closely match the anticipated conditions. Sufficient lead-time should always be allowed, so that pilot samples/field blends can be run to verify system performance parameters, before actually pumping the job.

Notice:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-079391 Unit Reporting Number DK-8910009500 MV-891000950A
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 27-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 27-5 Unit
	9. Well Number 83M
4. Location of Well 2550' FNL, 2075' FWL Latitude 36° 35.3, Longitude 107° 22.0	10. Field, Pool, Wildcat Blanco MV/Basin DK
	11. Sec., Twp, Rge, Mer. (NMPM) Sec. 9, T-27-N, R-5-W API# 30-039-26292
14. Distance in Miles from Nearest Town 60 miles from Blanco	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2075'	
16. Acres in Lease	17. Acres Assigned to Well MV - 320 W/2 DK - 320 N/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1000'	
19. Proposed Depth 8549'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7297' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u><i>Reggie Cole</i></u> Regulatory/Compliance Administrator	<u>12-20-99</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

OPERATOR

NEGATIVE SURVEY AND MONITORING REPORT

BLM/FDO 1/99

1. BLM Report No.	2. (For BLM Use Only) <div style="text-align: center; font-size: 1.5em;">8C</div>	3. NMCRIS Project No. 66940
4. Title of Report: A Cultural Resources Survey of Conoco Inc.'s Ludwick LS Number 46 Well Pad and Cathodic Protection Line and El Paso Field Service's Well Tie Pipeline, San Juan County, New Mexico Author: Steven Fuller	5. Fieldwork Date(s) Oct 16 and 25, 1999	
	6. Report Date January 7, 2000	
7. Consultant Name & Address: Field Supervisor: Steven Fuller Additional Crew Members: Mark Dean Org. Name: La Plata Archaeological Consultants Org. Address: 26851 County Road P, Dolores, Colorado 81323 Phone (970) 565-8708; Fax (970) 882-2224	8. Permit No. 19-2920-99-R	
	9. Consultant Report No. LAC Report 9963L	
10. Sponsor Name and Address: Ind. Responsible: Mike Mankin / Kent Leidy Org. Name: Conoco Inc. / El Paso Field Services Org. Address: 10 Desta Dr, Suite 430E, Midland, Texas 79705-4500 / 614 Reilly Avenue, Farmington NM, 87401 Phone (915) 686-5794 / (505) 599-2177	11. Sponsor Project No.	
	12. Area of Effect <u>3</u> (BLM) <input type="checkbox"/> (Other) Area Surveyed <u>8.9</u> (BLM) <input type="checkbox"/> (Other)	
13. Location (Map Attached, Figures 1 and 2) <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>a. State: New Mexico</p> <p>b. County: San Juan</p> <p>c. District: Farmington</p> <p>d. Land Status: Bureau of Land Management, Farmington District Office</p> </div> <div style="width: 45%;"> <p>e. Area: T <u>30N</u> R <u>10W</u> Sec. <u>31</u> NW 1/4 NE 1/4</p> <p>f. Footages: 1285 FNL, 2270 FEL</p> <p>g. 7.5" Map Name(s): USGS Aztec, NM (USGS Code 36107-G8)</p> </div> </div>		
14. a. Description of Undertakings: The survey is for a proposed well pad (290 by 225 ft) planned by Conoco. The well pad is staked adjacent to an existing road and no new access will be required. The well tie pipeline will extend only 177 ft (from well head to tie-in) and tie into an existing pipeline adjacent to the existing road. Conoco also plans to run an AC cable in the existing road about 1200 ft southwest to the existing Ludwick LS 5 gas well. See Figures 1 and 2 for project location and Figures 4 and 5 for well pad and pipeline details. b. Existing Data Review: ARMS and BLM searches conducted in October indicate that there is only one no previously recorded site within one-half mile of the proposed project. NM-070-40932 is located about 2000 ft to the northwest of the well pad and 1000 ft northwest of the AC line (Figure 3, previously recorded sites). c. Area Environmental/Cultural Setting: The project is located on the east slope of a high ridge that divides Potter Canyon to the east from East Fork Broomfield Canyon to the west. Hare Canyon heads up just southwest from the proposed location. Shale and cobble ridges border the west edge and the south edge of the block survey area. East trending drainages pass through the north edge of the well pad and . A road and pipeline corridor cross just north of the well pad. Vegetation is comprised of stunted juniper and pinyon with antelope bitterbrush, narrowleaf yucca, ephedra and grasses present. d. Field Methods: Pedestrian transects spaced no greater than 15 m apart were used to survey a 590 by 525 ft block for the well pad, a 50-ft wide construction zone, and a 100-ft wide buffer zone. No new access road is required and the short well tie pipeline does not extend north beyond the edge of the block survey area. For the buried AC cable, a 100-ft wide corridor was examined from the block survey area west for about 950 ft to the existing Ludwick LS Number 5 well. A total of 8.9 acres was surveyed for this project. e. Artifacts Collected?: None		
15. Cultural Resource Findings: a. Location/Identification of Each Resource: One Isolated Occurrence was found 30 ft north-northeast from the well center stake. The IO consists solely of a single Anasazi Pueblo II-III whiteware body sherd with no decoration. The sherd has a polished interior, indicating it is from a whiteware bowl. No other artifacts were observed in the area. b. Evaluation of Significance of Each Resource (above): N/A		
16. Management Summary (Recommendations): Clearance is recommended for the project as no eligible cultural resources will be affected by this action.		

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submittal to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7454	⁵ Property Name SAN JUAN 27-5 UNIT	⁶ Well Number B3M
⁷ OCRD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 7297'

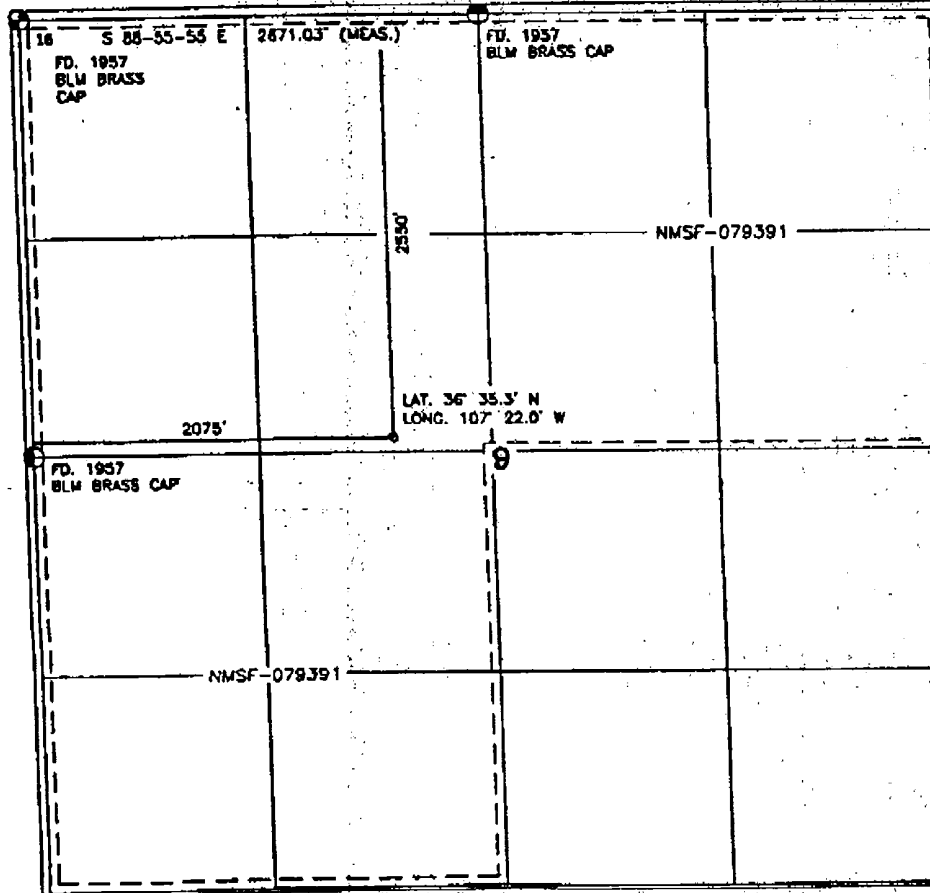
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	9	27-N	5-W		2550	NORTH	2075	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres MV: W/320 DK: N/320			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

¹⁷ OPERATOR CERTIFICATION

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

Signature

Peggy Cole

Printed Name

Regulatory Administrator

Title

Date

12-20-99

18

SURVEYOR CERTIFICATION

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

Date of Survey

Signature of Professional Surveyor

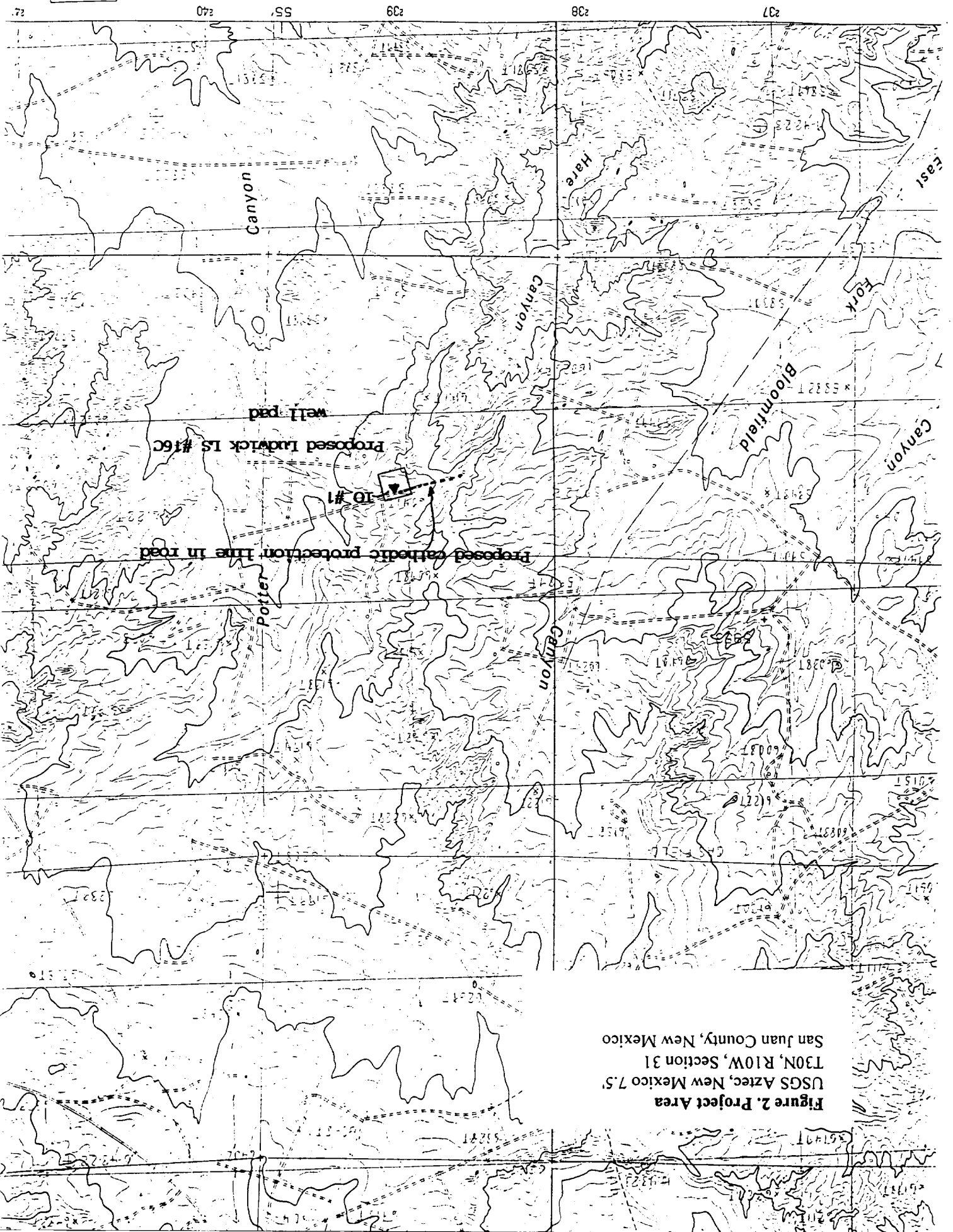
8894

PROFESSIONAL LAND SURVEYOR

B894

Certificate Number

Figure 2. Project Area
USGS Aztec, New Mexico 7.5'
T30N, R10W, Section 31
San Juan County, New Mexico



OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #83M
Location: 2550' FNL, 2075' FNL, Sec 3, T-27-N, R-5-W
 Rio Arriba County, NM
 Latitude 36° 35.3, Longitude 107° 22.0
Formation: Blanco Mesa Verde Basin Dakota
Elevation: 7297' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3449'	
Ojo Alamo	3449'	3629'	aquifer
Kirtland	3629'	3699'	gas
Fruitland	3699'	4118'	gas
Pictured Cliffs	4118'	4209'	gas
Lewis	4209'	4659'	gas
Intermediate TD	4309'		
Mesa Verde	4659'	5070'	gas
Chacra	5070'	5784'	gas
Massive Cliff House	5784'	5929'	gas
Menefee	5929'	6289'	gas
Massive Point Lookout	6289'	6788'	gas
Mancos	6788'	7458'	gas
Gallup	7458'	8224'	gas
Greenhorn	8224'	8284'	gas
Graneros	8284'	8319'	gas
Dakota	8319'		gas
TD	8549'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface
 Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 4309'	LSND	8.4-9.0	30-60	no control
4309- 8549'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	NC-50
8 3/4"	0' - 4309'	7"	20.0#	J-55
6 1/4"	4209' - 8549'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 8549' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

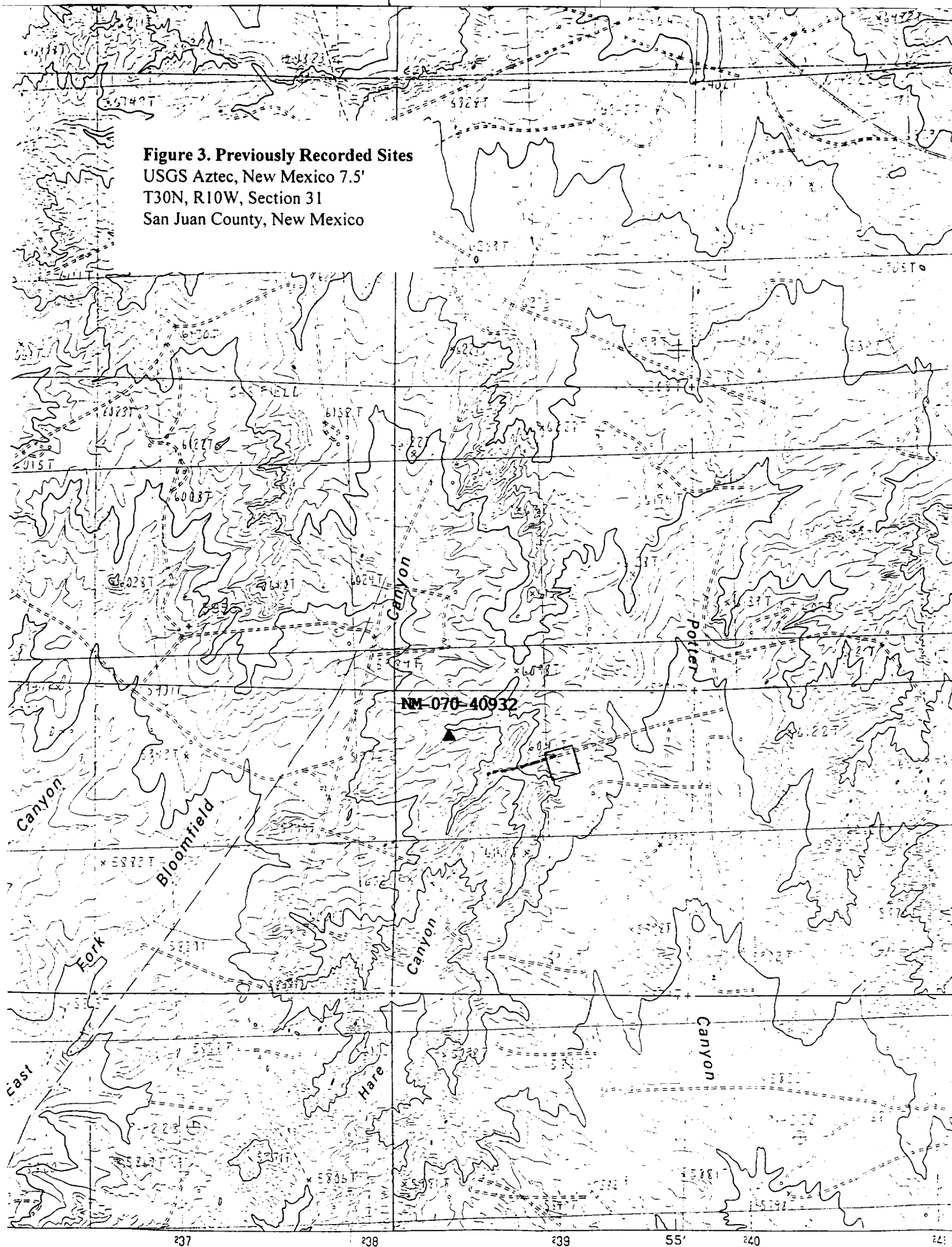
Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
 After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
 After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Figure 3. Previously Recorded Sites
 USGS Aztec, New Mexico 7.5'
 T30N, R10W, Section 31
 San Juan County, New Mexico



SCALE 1:24 000

Operations Plan - San Juan 27-5 Unit #83M

Page Two

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2).
After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/402 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel (1296 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 3599'. First stage: cement with w/158 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 369 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1296 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3629'. Two turbolating centralizers at the base of the Ojo Alamo at 3629'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 491 sx 50/50 Class "H" Poz with 2% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (624 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

CONOCO, INC. LUDWICK LS #16C 8C
 1285' FNL, 2270' FEL, SECTION 31, T30N, R10W, NMPM
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 6061'

LATITUDE: 36°46'20"
 LONGITUDE: 107°55'27"

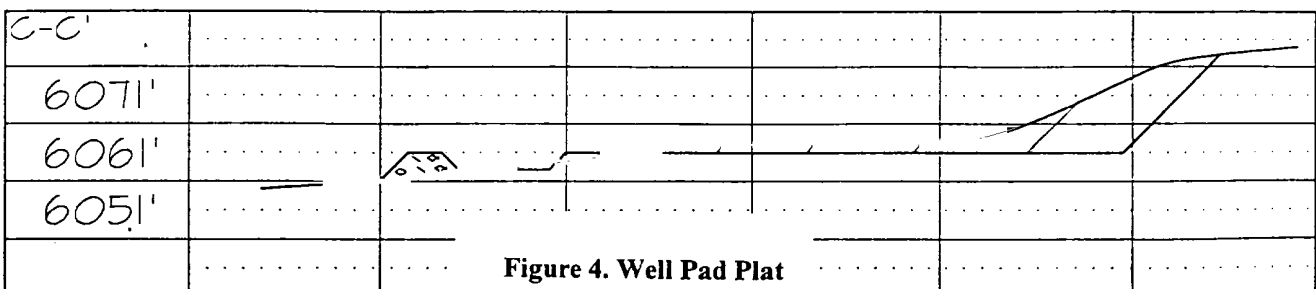
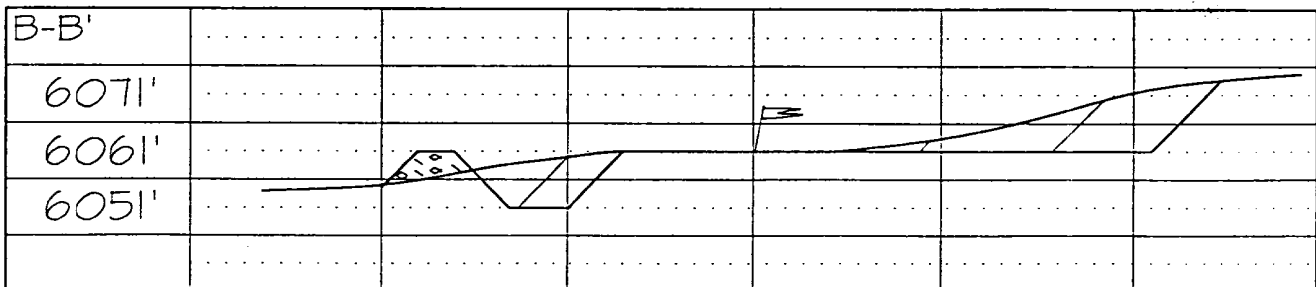
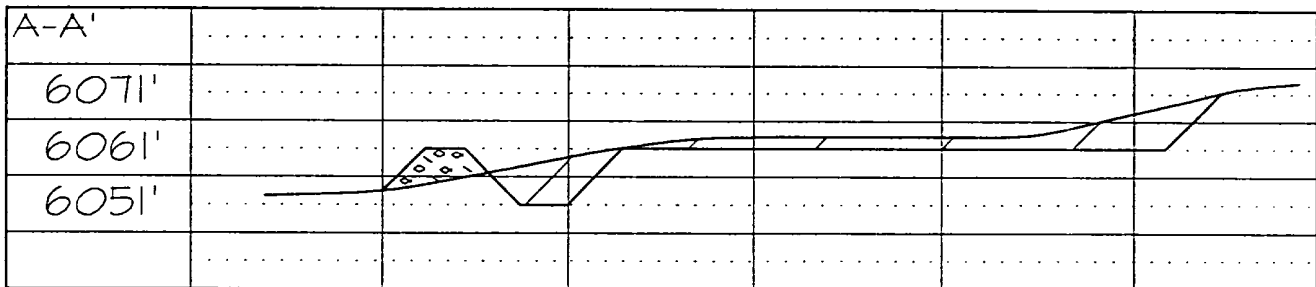
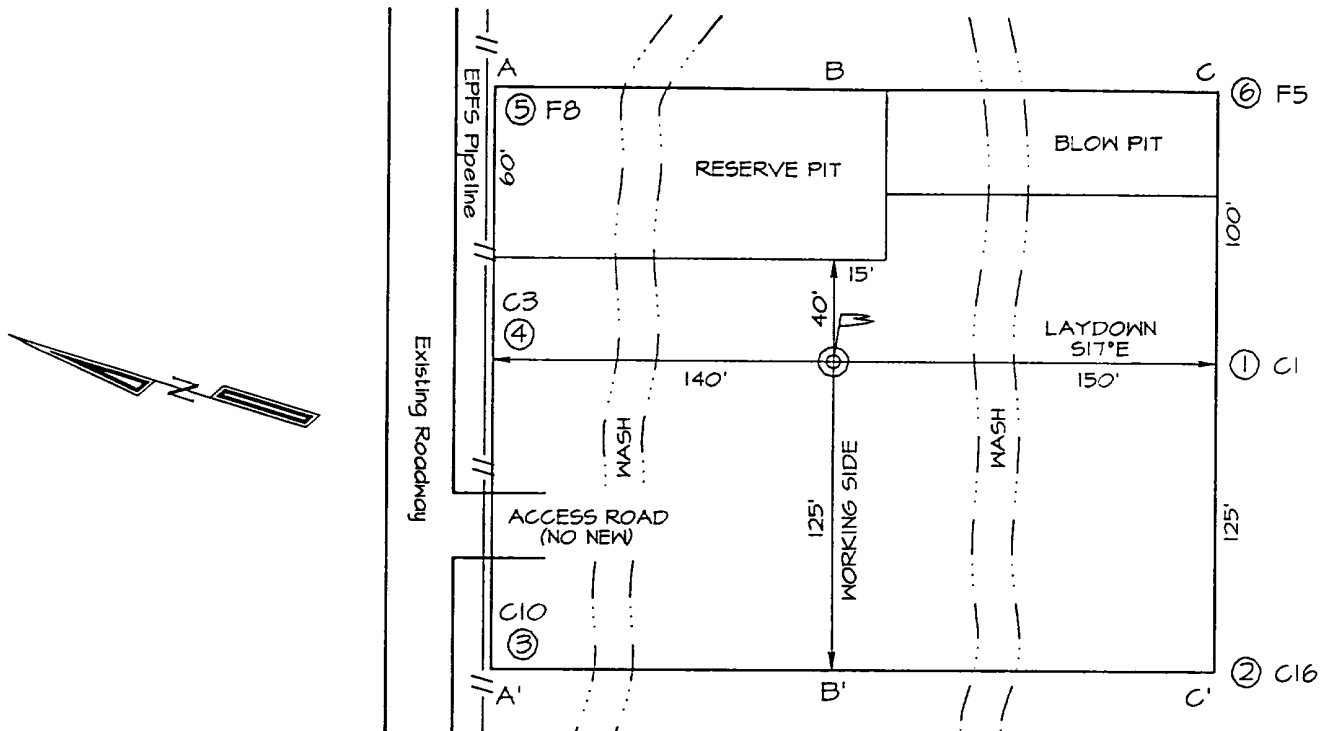


Figure 4. Well Pad Plat

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

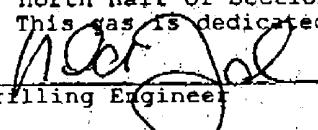
- An anchored bloole line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The bloole line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the bloole line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 9 is dedicated to the Mesaverde and the north half of Section 9 is dedicated to the Dakota in this well.
- This gas is dedicated.


Drilling Engineer

12/27/1999
Date



KUTZ GATHERING SYSTEM

DWG. NO. KLB26-7-1

LINE CONOCO, INCORPORATED - LUDWICK LS NO. 16C 8C

WO NO. 21132

FROM 0+00 = 30+90.24 ON KUTZ - LATERAL 3B-26

RW NO. 9970282

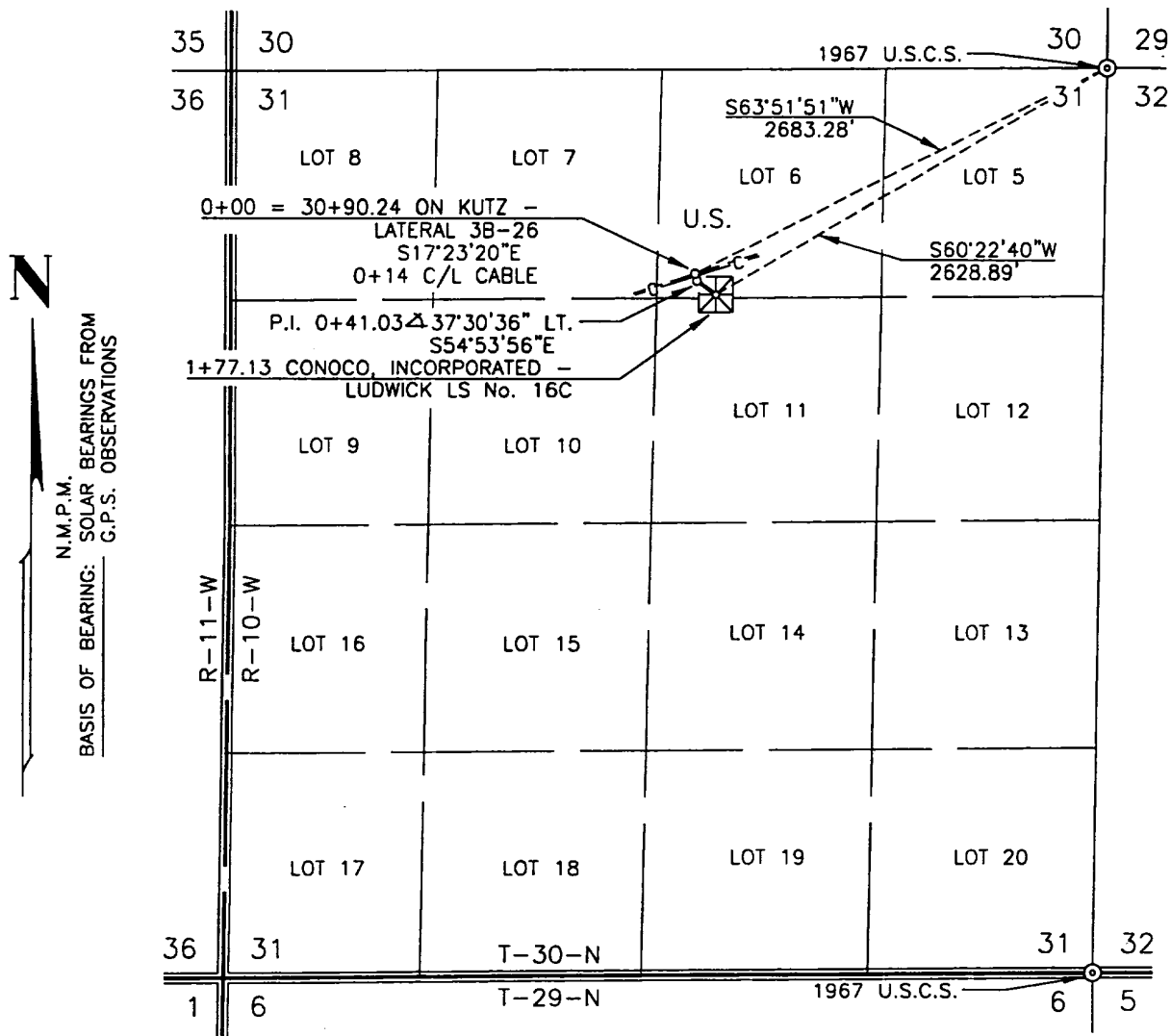
(26B733.0-1, R/W NO. 541047)

DATE 12/21/99

SCALE 1" = 1000'

SURVEYED 12/17/99

COUNTY SAN JUAN STATE NEW MEXICO SECTION 31 TOWNSHIP 30-N RANGE 10-W, N.M.P.M.



OWN. BY GV CONSTR. COMMENCED _____ APPL. DWG. _____ SLACK CHAIN _____
CKD. BY _____ CONSTR. COMPLETED _____ DATE _____ PIPE SIZE 4.50" O.D.

PRINT RECORD

PIPE DATA

METER STA. NO.

MV

6 SJ DIST. 12/23/99
2 EP DIST.

NOTE: WELL FLAG
PROPOSED PAD ADJOINS PIPELINE R/W, & LOCATION NOT BUILT.

APD ROW

P

SUBDIVISION

OWNER

LESSEE

METER(S)

RODS

ACRE(S)

LOT 6, SECTION 31

UNITED STATES

JOE M. FLOREZ

10.735

0.163

Figure 5. Pipeline Plat

SURFACE USE PLAN
Conoco Inc.

Ludwick LS 8C

The following is required information concerning the possible effect which the drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items on this plan.

1. Existing Roads

- A. The proposed well site is 1285' FNL & 2270' FEL, Sec. 31, T30N, R10W, San Juan County, New Mexico. This is a Blanco Mesaverde well.
- B. Directions to the location are provided as an attachment.

2. Planned Access Roads

- A. No new access road will be required.
- B. Turnouts as specified by surface management agency.
- C. Culverts as specified by surface management agency.
- D. Gates, cattleguards, or fences as specified by surface management agency.

3. Topographic Map and Well Location

A 7.5" quadrangle topo map was filed with the NOS.

4. Wellsite Layout and Cross Sections

See Cut & Fill plat.

5. Water Supply

Fresh water will be obtained from commercial sources and trucked to location by the above described directions to the location.

6. Source of Construction Materials

Construction materials will be obtained from the location site.

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BURLINGTON RESOURCES OIL & GAS COMPANY

SAN JUAN 27-5 UNIT #B3M

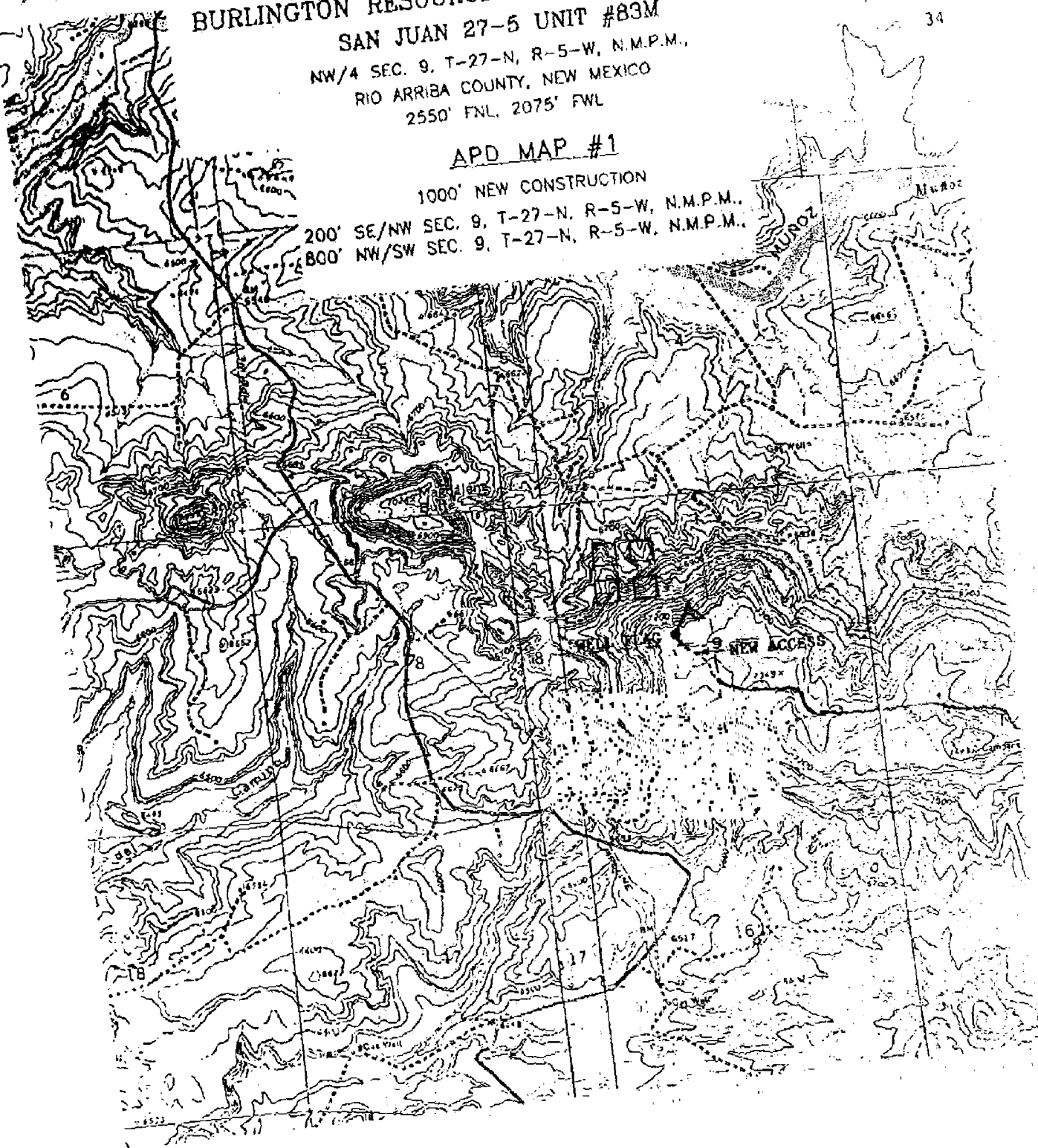
NW/4 SEC. 9, T-27-N, R-5-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO

2550' FNL, 2075' FWL

APD MAP #1

1000' NEW CONSTRUCTION

200' SE/NW SEC. 9, T-27-N, R-5-W, N.M.P.M.,
800' NW/SW SEC. 9, T-27-N, R-5-W, N.M.P.M.



7. Methods of Handling Waste Disposal

- A. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and reseeded with the appropriate seed mixture as specified by the surface managing agency.
- B. All garbage and trash will be hauled away to designated landfill by Conoco.
- C. Chemical toilets will be provided and maintained during drilling operations.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Production Facility Layout

- A. See attachment to this plan.
- B. Location of Proposed New Facilities – A 4-1/2" OD buried steel pipeline that is 176.55 feet in length will be constructed. The pipe-wall thickness is .156 and the pipe-wall strength is 42,000# yield. It will tie the well into a line operated by El Paso Natural Gas. The pipeline will be used to transport gas to drill the well. After the well is spudded, the pipeline will be authorized by a right of way issued to El Paso Natural Gas. Please refer to the attached survey plat for additional information.

10. Plans for Restoration of Surface

When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture. If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the surface managing agency.

11. Surface Ownership

The surface ownership is Federal land.

12. Archeological Clearance

An archeological survey was conducted and clearance recommended by attached report LAC 9963L.