

PKRV0304956847

NSL 3/10/03



RECEIVED

KOCH EXPLORATION COMPANY LLC

FEB 18 2003

February 14, 2003

OIL CONSERVATION  
DIVISION

MS

New Mexico Oil Conservation Division  
1220 South St., Francis Drive  
Santa Fe, NM 87505

Re: Proposed Well  
Christina Com #30-1-A  
W/2 Section 30-T28N-R10W  
San Juan County, New Mexico

Attn: Mr. Mike Stogner:

Koch Exploration Company, LLC (Koch) has proposed the drilling of a Coalbed Methane well in the W/2 Section 30-T28N-R10W as an infill Fruitland coalbed methane well. The proposed location is not located within the coalbed methane fairway area. Because of topography, we were unable to stake the well anywhere in the NW/4 except at a location being 290 feet from the north line and 865 feet from the west line. The location makes the well an unorthodox location pursuant to New Mexico Conservation Division Order No. R-8768-C.

To support this application, we have enclosed the following:

1. Topographical map showing the location
2. Copy of Certified Letter dated February 13, 2003 to offset Fruitland coalbed well Operators (Burlington Resources)
3. Map depicting the Fruitland Coalbed well operators within a one mile radius of the location
4. There was no original proposed location and the BLM was with the team when the well was staked.
5. Plat showing the staked location and federal lease numbers
6. Copy of Application for Permit to Drill or Reenter provided to the BLM

Koch requests you review the enclosed and if all is in order and after the 20 day waiting period or our furnishing the executed waiver from Burlington Resources, approve our request for the unorthodox location for the Christina Com #30-1-A well. The undersigned can be reached at 713 544-7414 or fax 713 544-6161. Don Johnson, Field Supervisor can be reached at 505 334-9111. Thank you for your cooperation.

Yours truly,

Lance F. Harmon  
Vice President - Land





KOCH EXPLORATION COMPANY LLC

February 13, 2003

Burlington Resources  
San Juan Division  
3401 E. 30<sup>th</sup> Street  
Farmington, NM 87402

Re: Christina Com #30-1-A well  
W/2 Section 30-T28N-R10W  
San Juan County, New Mexico

Attn: Mr. James R. J. Strickler

Dear James:

Koch Exploration Company, LLC (Koch) plans to drill a Fruitland coalbed methane well in the NW/4 Section 30-T28N-R10W. Due to topographic restrictions, the well has been staked 290 feet from North line and 865 feet from the West line which constitutes an unorthodox location pursuant to New Mexico Conservation Division Order No. R-8768-C.

As a result, Koch is notifying all operators of proration or spacing units within a mile of this location in the Northwest Quarter of Section 30-T28N-R10W, and request that you indicate below your waiver of any objection to Koch's unorthodox location. It appears that Burlington Resources operates the existing coalbed wells within the one mile radius.

Should you have any questions, please call the undersigned at 713 544-7414.

Yours truly,

Lance F. Harmon  
Vice President - Land

Burlington Resources

By: \_\_\_\_\_

cc: **New Mexico Oil Conservation Commission**  
**1000 Rio Brazos Rd**  
**Aztec, NM 87410**

DISTRICT II  
811 South First, Artesia, N.M. 88210

**OIL CONSERVATION DIVISION**

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

DISTRICT III  
1000 Elbe Brazos Rd., Artoon, N.M. 87410

DISTRICT IV  
2640 South Pacheco, Santa Fe, NM 87504-2088

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number		2 Pool Code <b>71629</b>		3 Pool Name <b>Basin Fruitland Coal</b>	
4 Property Code <b>19342</b>		5 Property Name <b>CHRISTINA COM 30</b>			6 Well Number <b>IA</b>
7 OGRD No. <b>12807</b>		8 Operator Name <b>KOCH EXPLORATION</b>			9 Elevation <b>5926</b>

**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
D	30	28 N	10 W		290	NORTH	865	WEST	SAN JUAN

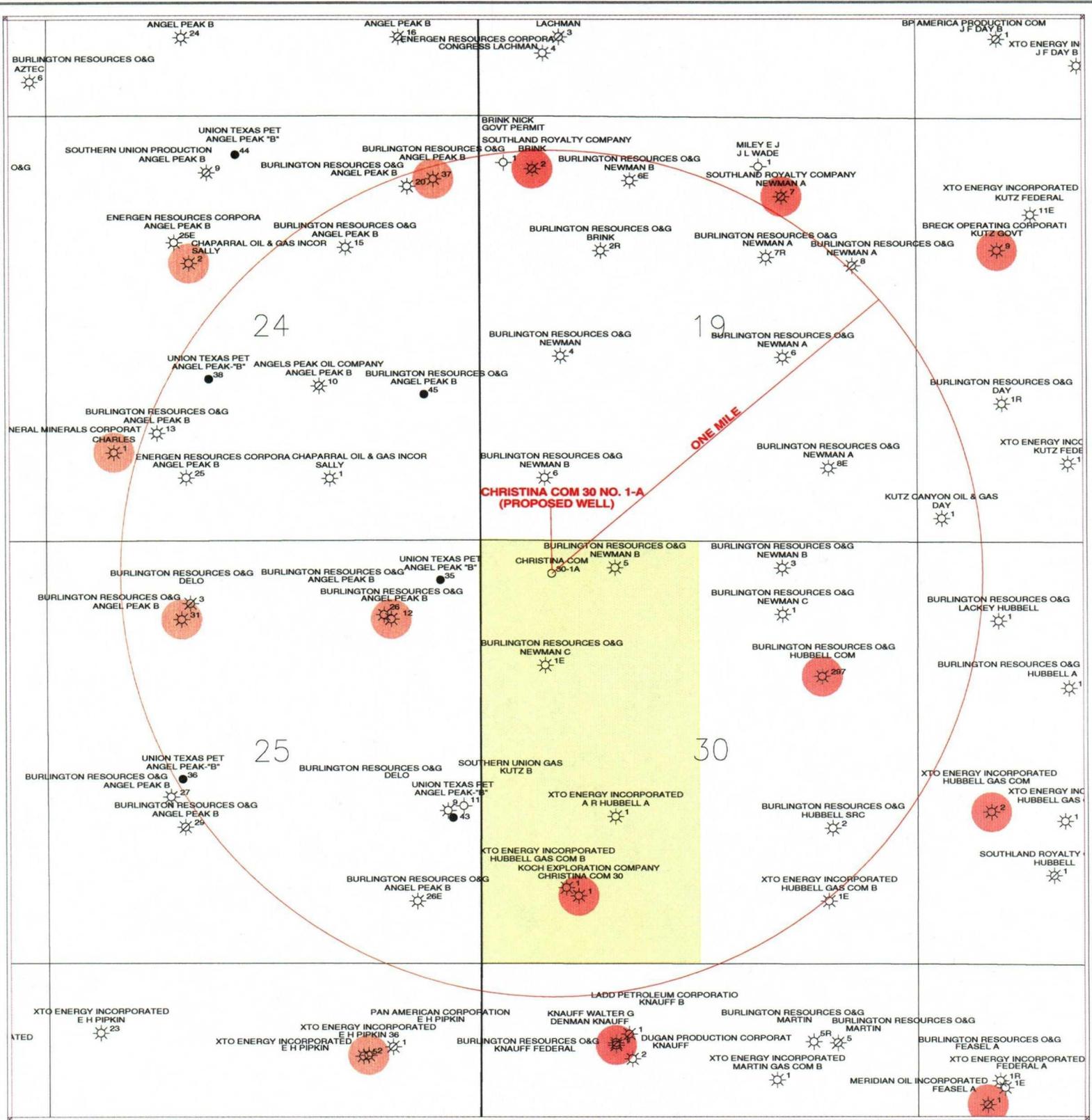
**11 Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

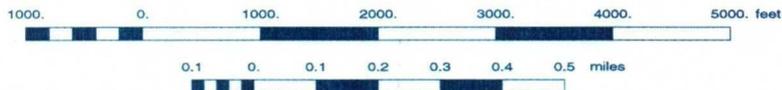
12 Dedicated Acres <b>329.40</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

16 865' SF - 42.31 SF - 42.34 SF - 078715 42.36 42.39 SOUTH S 89°55' E	S 89°55' E 065546 B	SECTION 30 5353.65' 5359.2'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <u>[Signature]</u> Printed Name: <b>Lance F. Harmon</b> Title: <b>Vice President - Land</b> Date: <b>12/11/02</b>
	079583		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown 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: <b>10/15/02</b> Signature and Seal of Professional Surveyor:
	Cristina Corp "30" #1 30-045-2821 854' FSL-1190' #W2 w/2 Fruitland Coal Gas Dedication		[Seal of Henry P. Broadhurst, Registered Professional Surveyor, State of New Mexico, License No. 1373]
	*		



Scale 1:20000.



KOCH EXPLORATION COMPANY, LLC

EXHIBIT "B": PROPOSED LOCATION PLAT  
CHRISTINA COM 30-1A (SEC 30 T28N R10W)  
SAN JUAN COUNTY, NEW MEXICO

Kenny McGee

Scale 1:20000.

2/11/2003

**LEGEND**

- Production from Fruitland Coal

EXPEDITED ROW

Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
SF-078715

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA Agreement, Name and No.  
NA

8. Lease Name and Well No.  
Christina Com 30-1A

9. API Well No.

10. Field and Pool, or Exploratory  
Basin Fruitland Coal

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 30, T28N, R10W

12. County or Parish  
San Juan

13. State  
NM

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Koch Exploration Company, LLC

3a. Address  
20 East Greenway Plaza  
Houston, Texas 77046

3b. Phone No. (include area code)  
713-544-4318

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface: NW/4 Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
At proposed prod. zone (Same)

14. Distance in miles and direction from nearest town or post office\*  
6 miles Southeast of Bloomfield, NM

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
290'

16. No. of Acres in lease  
564.75

17. Spacing Unit dedicated to this well  
329.40

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
4100'

19. Proposed Depth  
2050'

20. BLM/BIA Bond No. on file  
400 GH. 0471

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5926' GR

22. Approximate date work will start\*  
available rig

23. Estimated duration  
30 days

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: Rolf A. Ornelas Name (Printed/Typed): Rolf A. Ornelas Date: Feb 07, 02

Title: SR Engineer

Approved by (Signature): \_\_\_\_\_ Name (Printed/Typed): \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_ Office: \_\_\_\_\_

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

Conditions of approval, if any, are attached.

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

\*(Instructions on reverse)

CHRISTINA COM 30-1A  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease SF 065546B

## Drilling Program

### 1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	888'
Kirtland Shale	923'
Fruitland Coal	1608'
Pict. Cliffs	1913'
TD	2050'

### 2) Estimated depths at which oil, gas, water, and mineral bearing formation will be found:

Fresh Water	0' to 200'
Salt Water	201' to 1608'
Oil and Gas	1608' to 2050'

### 3) Pressure Control Equipment:

- a. 10-inch 900 series or 3,000 psi test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at **Exhibit F-1** for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 70% of yield of casing or 3,000 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at **Exhibit F-1**. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 3,000 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed. Casing testing procedure – Surface casing will be tested at 750 psi with 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 3,000 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.

CHRISTINA COM 30-1A  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease SF 065546B

e. BOP testing procedures and frequency:

1. Hydril (3,000WP) will be tested to 70% of yield of casing or 3,000 psi maximum.
  2. Double ram BOPs will be tested to 70% of yield of casing or 3,000 psi maximum.
  3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will usually be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head.
- g. The drilling spool will be a series 900 3,000 psi WP with a 2-inch kill line and a 2-inch outlet.

**4) Proposed Casing Program:**

Surface Casing Program:

Surface Casing	8 5/8"	24.0#	J-55 STC	New
Production Casing	4 1/2"	10.5#	J-55 LTC	New

Proposed setting depth, amount and type of cement including additives:

8 5/8" Surface Casing – Surface to 150' – Cement with 100 sks type III (14.6 ppg, slurry yield 1.39 cf/sk) Cement + 2% bwoc Calcium Chloride + .25 lbs/sk Cello Flake + 59.2% Fresh Water. Volume: 138.1 cf., includes 100% excess.

4 1/2" Production Casing – Surface to 2050' –

Lead with 248 sks Premium Lite FM (12.1 ppg, slurry Yield 2.15 cf/sk) + 3% bwoc Calcium Chloride + .25 lb/sk Cello Flake + .4% bwoc FL-52 + 8% bwoc Bentonite + .4% bwoc Sodium Metasilicate + 3 lb/sk Pheno Seal + 116.1 % Fresh Water. Volume: 532.6 cf., includes 50% excess.

Tail with 110 sks Type III Cement (14.0 ppg, slurry Yield 1.54 cf/sk) + 2% bwoc Calcium Chloride + .25 lb/sk Cello Flake + .2% bwoc FL-52 + 68.9% Fresh Water. Volume: 157.4 cf., includes 50% excess

**5) Mud Program:**

- 0' – 150' – Spud mud and water treated with gel lime.  
150' – 2050' – Lime mud, water and polymer.

CHRISTINA COM 30-1A  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease SF 065546B

**6) Testing, Logging, and Coring Program:**

No drill stem tests or cores will be taken.

Logging: Open hole – Triple Combo, 2,050' to surface or cased hole log as below.  
Production Casing – First Run – Gamma Ray – Casing Collar Locator –  
Cement Bond Log. (If cement circulates to surface, no CBL will be run.)  
Second Run – Gamma Ray – Gas Spectrum Log; or Gamma Ray-DIL,  
Density Neutron Porosity Caliper, if open hole log was not ran.

**7) Expected Pressures –**

Fruitland Fm. Underpressured

Bottom Hole Underpressured and low frac gradient

No abnormal pressures, temperature or poisonous gas anticipated.

**8) Drilling Tools: 20 4-3/4" Drill Collars with 3-1/2" IF Connections  
3-1/2" Drill Pipe with 3-1/2" IF Connections**

**Anticipated Spud Date: July 1, 2003**

**Anticipated Completion Date: July 31, 2003**

**Christina Com 30 #1A**  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease NM SF 065546B

## **Surface Use Program**

### **1) Existing Roads and Well Location (Exhibit A)**

- a. The proposed Fruitland Coal well site is located at 290' FNL & 865' FWL of Sec. 30, T28N, R10W, San Juan County, New Mexico. All existing roads used to access the proposed location shall continue to be maintained in the same or better condition than presently maintained.
- b. Directions to the location are as follows; From Bloomfield, go South on Highway 550 across river, turn East on CR 4980 (WFS Kutz Plant Road), turn left just before reaching the WFS Kutz Plant, continue on road around the plant where road is heading Southeast direction for approximately 3 miles, turn right and travel 1 mile to location on left.

### **2) Planned Access Road**

- a. Approximately 138' of new access road will be constructed.
- b. Turnouts as specified by Bureau of Land Management (BLM).
- c. Any culverts deemed necessary by dirt contractor during construction will be brought to the attention of the BLM Lead and placed accordingly.
- d. No gates, cattleguards, or fences will be needed.

### **3) Topographic Map and Well Location**

- a. A 7.5 ' quadrangle topographic map was filed with the Notice of Staking. The proposed project is located on the Bloomfield quadrangle topographic map in T28N, R10W, NW/4 NW/4 (D), Section 30, 290' FNL & 865' FWL. The proposed project area is located on a southwest-facing mesa slope east of Mockingbird Hill. Largo Canyon is located 1.7 mile to the southwest. Vegetation consists of occasional juniper trees, snakeweed, sagebrush, Mormon tea, greasewood, Russian thistle, prickly pear cactus and various grasses including galleta, Indian rice grass, and black grama. Sediments are brown to light brown silty clay loam. Existing disturbances include numerous well pads, access roads, and pipeline corridors.
- b. Approximately thirty-seven (37) existing natural gas wells are located within a 1.0-mile radius of the proposed project (Exhibit B). Pipelines and access roads associated with these facilities represent further disturbance within the area.

### **4) Wellsite Layout and Cross Sections**

See Cut & Fill plat for details. The proposed project will require 3:1 cut and fill slopes. Drainage will be diverted along the East Side of the well pad to run South. Will round SE corner #6 and keep all fill from going over hill on East side of location.

**Christina Com 30 #1A**  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease NM SF 065546B

**5) Water Supply**

- a. Fresh water will be obtained from commercial sources and trucked to location by directions listed in Paragraph 1(b). or
- b. Produced water from existing Koch operated coal wells located in Sec, 25, 26, 27 of T32N, R9W and Sec 31 of T32N, 8W (Lease #NM-013642) could be used for drilling and completion.

**6) Source of Construction Materials**

Construction materials will be obtained from the location site.

**7) Methods of Handling Waste Disposal:**

- a. The drilling fluids, cuttings, and completion fluids will be placed in the reserve pit. An 8-mil plastic liner will be installed in 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. Upon completion of drilling, the reserve pit will be allowed to evaporate or will be hauled away by truck to an approved disposal facility, prior to filling reserve pit. 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 BLM. The BLM seed mix for this project is the "New BLM Special Seed Mixture".
- b. All garbage and trash will be hauled away to approved landfill facility.
- c. Chemical toilets will be provided and maintained during drilling operations.

**8) Ancillary Facilities**

No ancillary facilities are planned for this project; however, the potential does exist for the placement of a compressor unit on location during some stage in the life of the well. If a compressor unit is placed on location, it will abide by any noise restrictions in affect at the time.

**9) Production Facility Layout**

- a. See attachment **Exhibit C** to this plan. Production equipment will be painted the color designated by the BLM. Color: Federal Green.
- b. Location of Proposed New Facilities – A 4-1/2" OD buried steel pipeline that is approximately 138' feet in length will be constructed along the existing roadway. 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 Williams Field Services. The pipeline has the potential to 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 Williams Field Services. Please refer to the attached proposed pipeline plat see **Exhibit D** for additional information

**Christina Com 30 #1A**  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease NM SF 065546B

**10) Plans for Restoration of Surface**

Topsoil (6") will be stockpiled in the construction zone for later use in restoration. Cut and fill will be sloped at no greater than a 3:1 slope. If the well is productive, areas not used in production will be contoured and seeded with the New BLM Special Seed Mixture. 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 re-seeded with the appropriate seed mixture.

**11) Surface Ownership**

The surface ownership is the BLM. The BLM/Farmington Field Office has surface and mineral jurisdiction on this project.

**12) Other Information**

The onsite for the proposed project was conducted on Nov. 6, 2002 by Bill Liess, as BLM lead.

Biosphere Environmental Sciences and Technologies, LLC (B.E.S.T.) conducted a Threatened and Endangered Species Survey of this well pad in November 2002. B.E.S.T. personnel made this report available to the BLM office.

San Juan County Museum Association, DCA in Bloomfield, New Mexico has submitted the Cultural Resources Survey Report to the BLM under DCA Technical Report No. 02-DCA-136

The construction contractor for the proposed project is Adobe Contractors.

There are no recreational areas, Special Management Areas (SMAs), Areas of Critical Environmental Concern (ACECs) or wilderness areas within the project area.

The proposed action would impact no floodplains or stock ponds.

**Christina Com 30 #1A**  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease NM SF 065546B

**13) Operator's Representative and Certification**

Representatives:

**Don Johnson**  
**Koch Exploration Company**  
**P.O. Box 489**  
**Aztec, New Mexico 87410**  
**Phone: 505-334-9111**

**Rolf A. Ornelas**  
**Koch Exploration Company**  
**20 East Greenway Plaza**  
**Houston, Texas 77046**  
**713-544-4318**

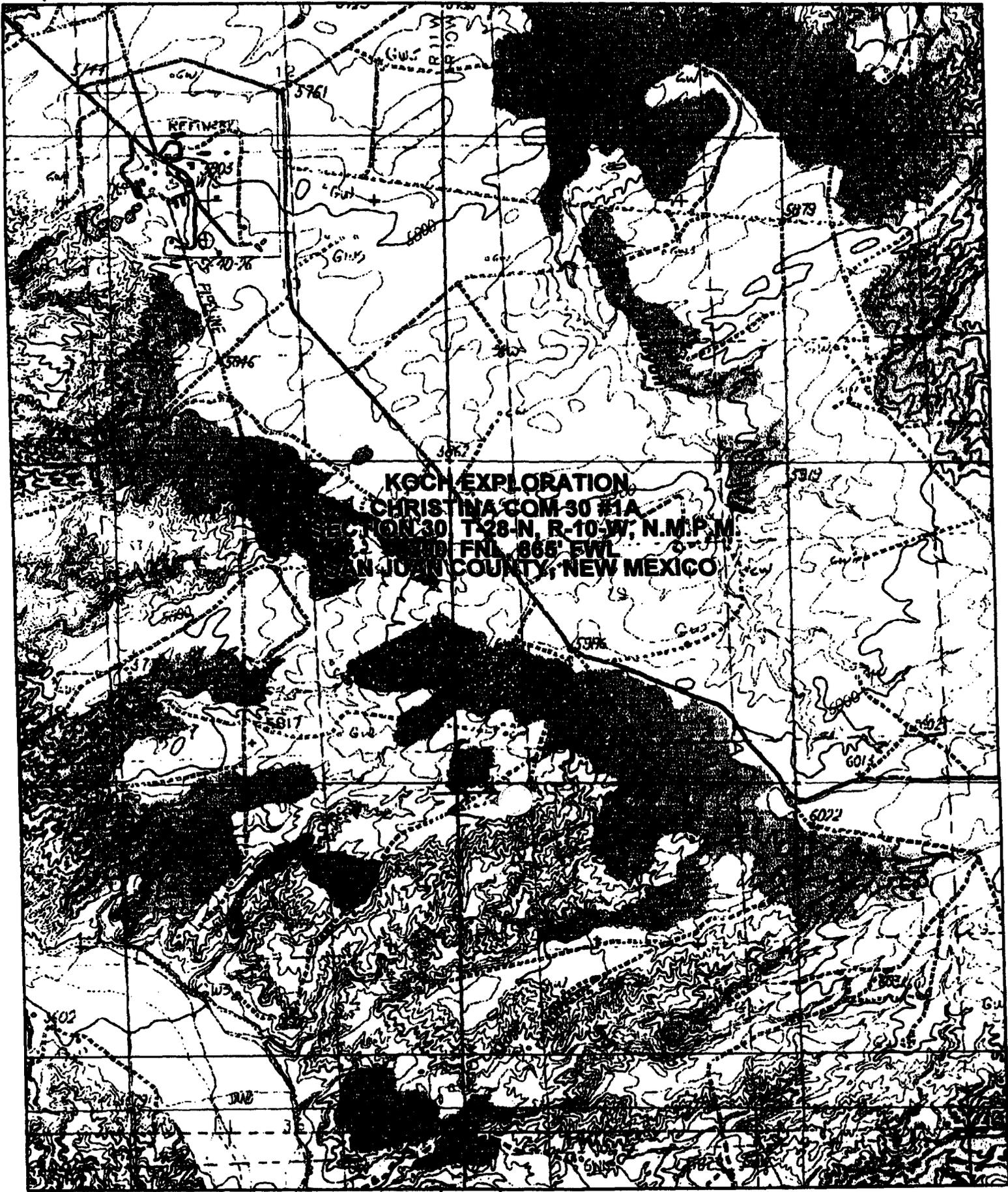
I hereby certify that I, or persons, under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposes herein will be performed by Koch Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions in 18 U.S.C. 1001 for the filing of a false statement.

2-07-03

Date



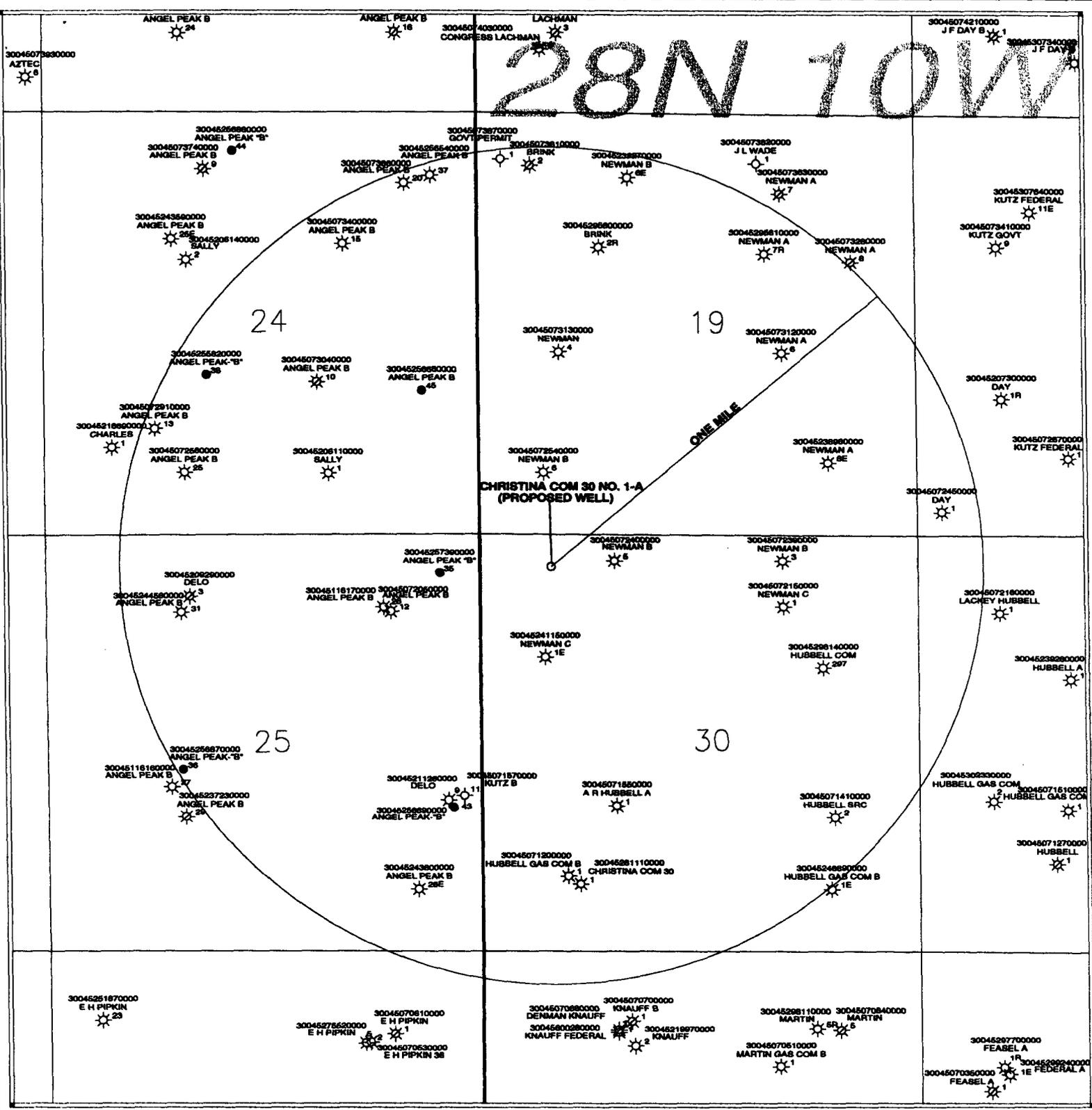
Rolf A. Ornelas  
Senior Engineer



3-D Topoguards Copyright © 1999 DeLorme Farmouth, ME 04096 Source Data: 8888 390 Ft Scale: 1 : 20,000 Detail: 13-0 Datum: WGS84

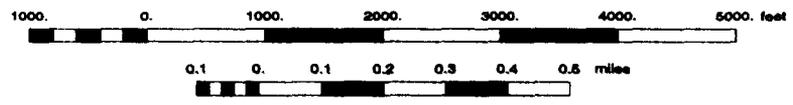
Exhibit A

# 28N 10W



**KOCH**

Scale 1:20000.



KOCH EXPLORATION COMPANY, LLC		
EXHIBIT "B": PROPOSED LOCATION PLAT CHRISTINA COM 30-1A (SEC 30 T28N R10W) SAN JUAN COUNTY, NEW MEXICO		
Kathy McGee		1/10/2003
Scale 1:20000.		

DISTRICT I  
P.O. Box 1080, Hobbs, N.M. 88241-1080

DISTRICT II  
811 South First, Artesia, N.M. 88210

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

DISTRICT IV  
2040 South Pacheco, 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  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 19342	*Property Name CHRISTINA COM 30		*Well Number IA
*OGHD No. 12807	*Operator Name KOCH EXPLORATION		*Elevation 5926

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	28 N	10 W		290	NORTH	865	WEST	SAN JUAN

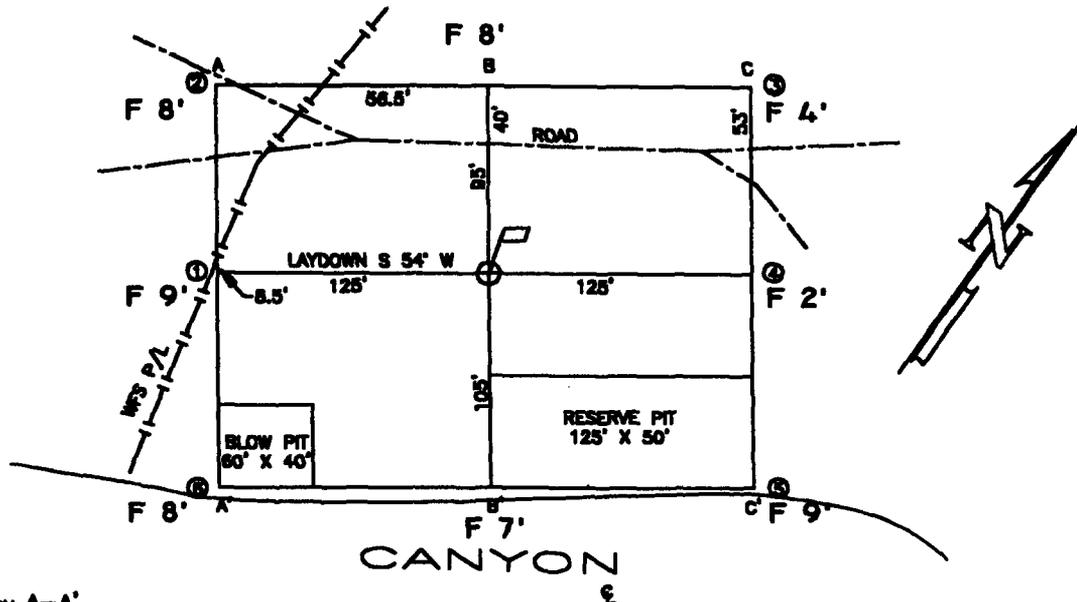
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

	<p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>[Signature]</i> Signature Lance F. Harmon Printed Name Vice President - Land Title 12/11/02 Date</p>	
	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown 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.</p> <p>10/15/02 Date of Survey Signature and Seal of Professional Surveyor:</p>	
	<p>Existing Well Christina Com #0 #1 854' FSL &amp; 1190' FWL API #30-045-28111</p>	



ELEVATION A-A'

5940				
5930				
5920				
5910				
5900				

B-B'

5940				
5930				
5920				
5910				
5900				

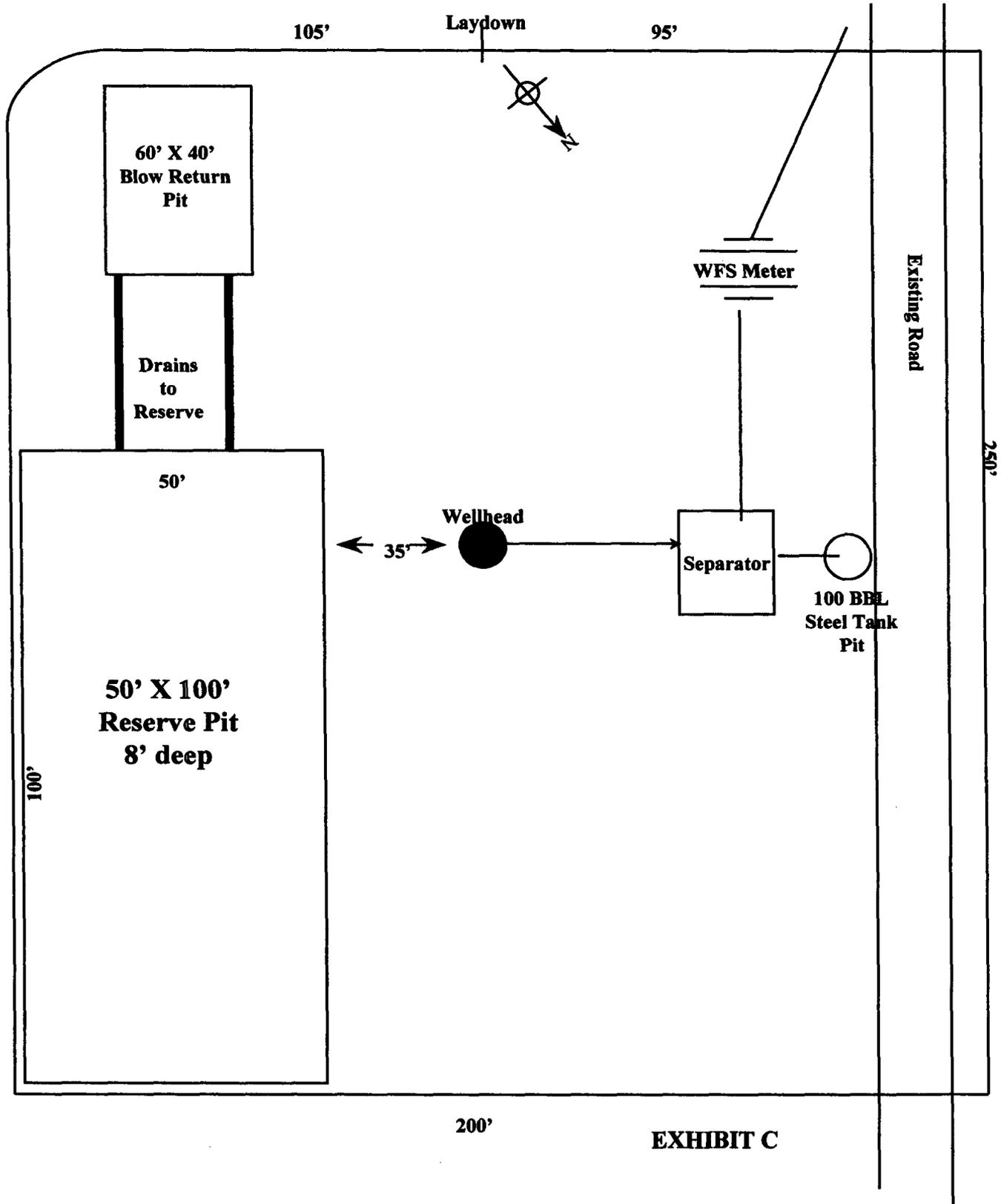
C-C'

5940				
5930				
5920				
5910				
5900				

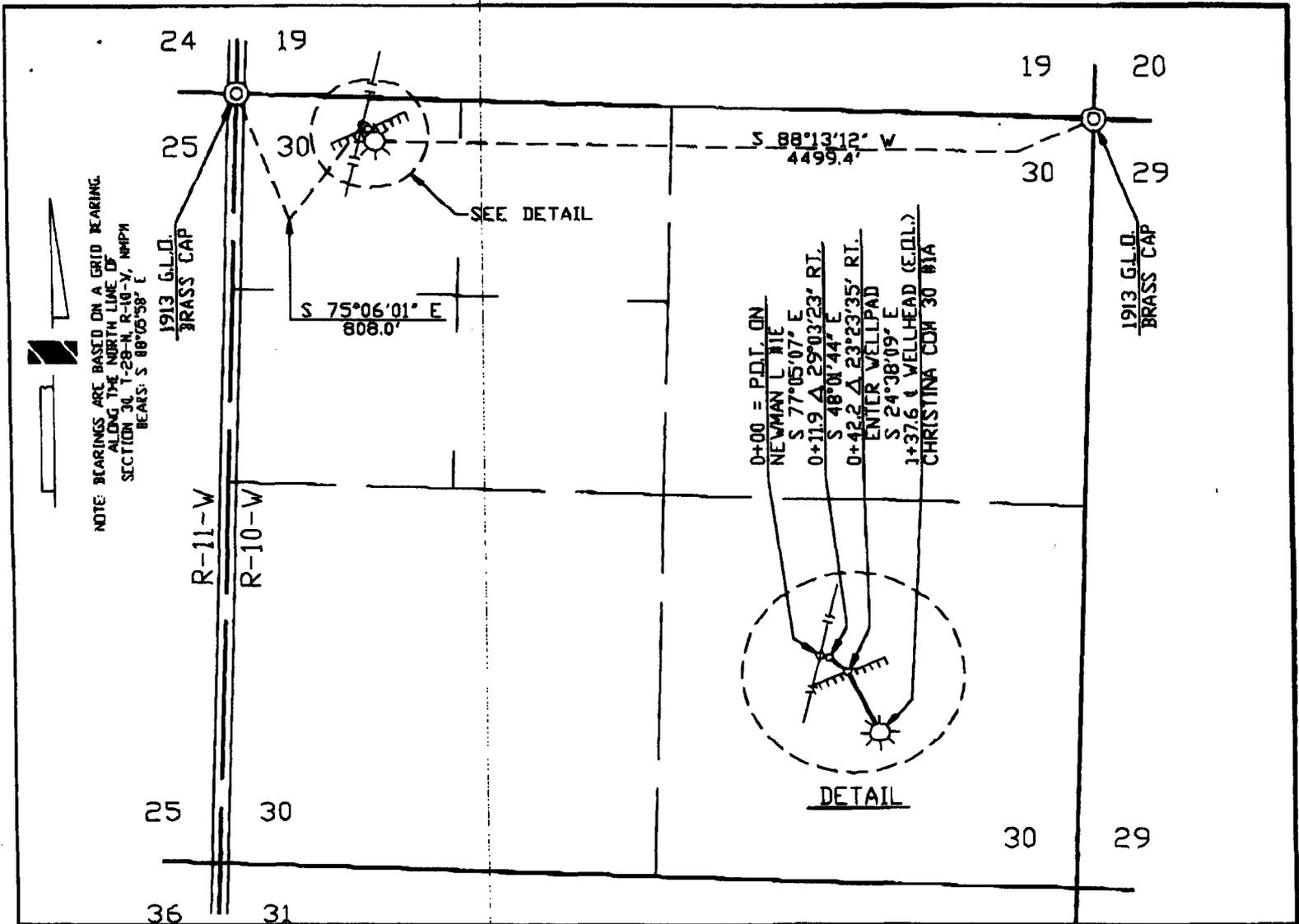
LEASE: CHRISTINA COM 30 #1A  
 FOOTAGE: 290' FNL, 865' FWL  
 SEC. 30 TWN. 28-N RNG. 10-W N.M.P.M.  
 LATITUDE: 36°38'23" LONGITUDE: 107°56'36"  
 ELEVATION: 5926

<b>KOCH EXPLORATION</b> AZTEC, NEW MEXICO		
SURVEYED: 10/15/02	REV. DATE:	APP. BY H.B.
DRAWN BY: T.G.	DATE DRAWN: 10/15/02	FILE NAME: K0024W01
<b>UNITED</b>		P.O. BOX 3651
<b>FIELD SERVICES INC.</b>		FARMINGTON, NM 87408
		OFFICE: (505) 334-0408

**KOCH EXPLORATION COMPANY LLC**  
**Christina Com 30 1A**  
**Sec 30, T28N, R10W**  
**290' FNL & 865' FWL - ELEVATION 5926'**



**EXHIBIT C**



NOTE: BEARINGS ARE BASED ON A GRID BEARING ALONG THE NORTH LINE OF SECTION 30, T-28-N, R-10-W, NMPM BEARS: S 88°05'58" E

SEE DETAIL

DETAIL

POPE DATA

SUBDIVISION	OWNER	FEET	MILES	ACRES	RODS
0+00 TO 1+37.6	BUREAU OF LAND MANAGEMENT	137.6	0.026	0.126	8.339

NO.	DATE	BY	DESCRIPTION	V.D.N.D.	CHK.	APP.	NO.	DATE	BY	DESCRIPTION	V.D.N.D.	CHK.	APP.
1	12/06/02	RS	ISSUED FOR REVIEW	17417	PB								

INFO				STATE: NEW MEXICO		WILLIAMS FIELD SERVICES		
R/W #:	05267	DRAWN BY:	RS	DATE:	12/06/02	COUNTY: SAN JUAN		
METER #:		CHECKED BY:	PB	DATE:	12/09/02	TORRE ALTA GATHERING SYSTEM		
SURVEYED:	11/29/02	APPROVED BY:		DATE:		KOCH EXPLORATION - CHRISTINA COM 30 #1A		
		ENGINEER:		BY:		0+00 = P.O.T. ON NEWMAN L #1E		
		DESIGNED BY:		DATE:		(REF DWG. K799.0-1)		
		PROJ. APPROVED:				SEC. 30, T-28-N, R-10W, NMPM		
				SCALE:	1" = 1000'	DWG NO.:	K799.0-11-1	
				V.D. NO.:	17417			SHEET 1 OF 1
								REV 1

T:\DS\MAPPING\DRAWINGS\SANJUAN\799\00\K7990-11-1\_R01.DWG 12/12/2002 11:26AM PAULB



P.O. Drawer 3337, 700 S. Tucker, Farmington, New Mexico 87409  
(505) 327-4961 24-Hour Dispatch (800) 833-8888

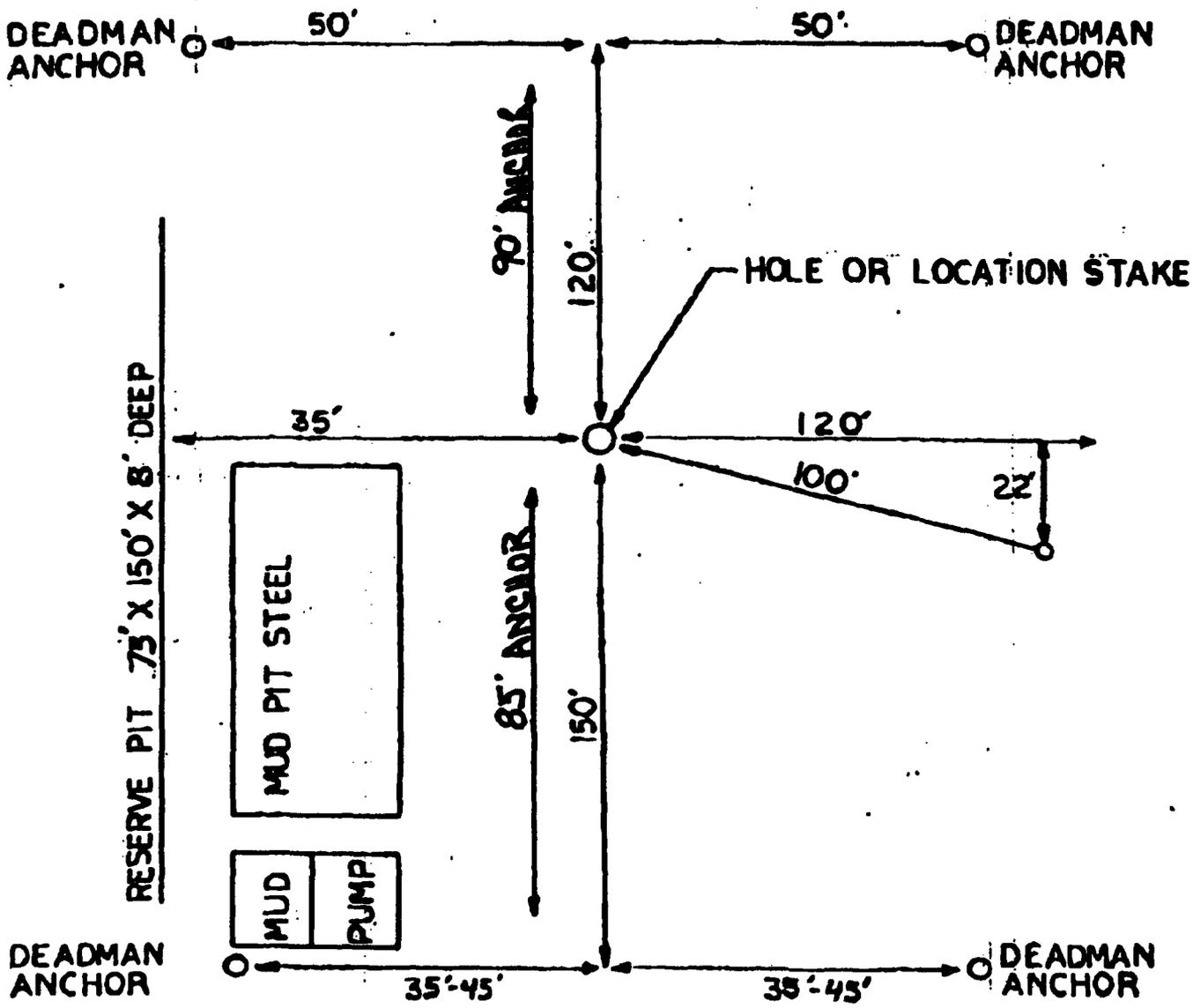
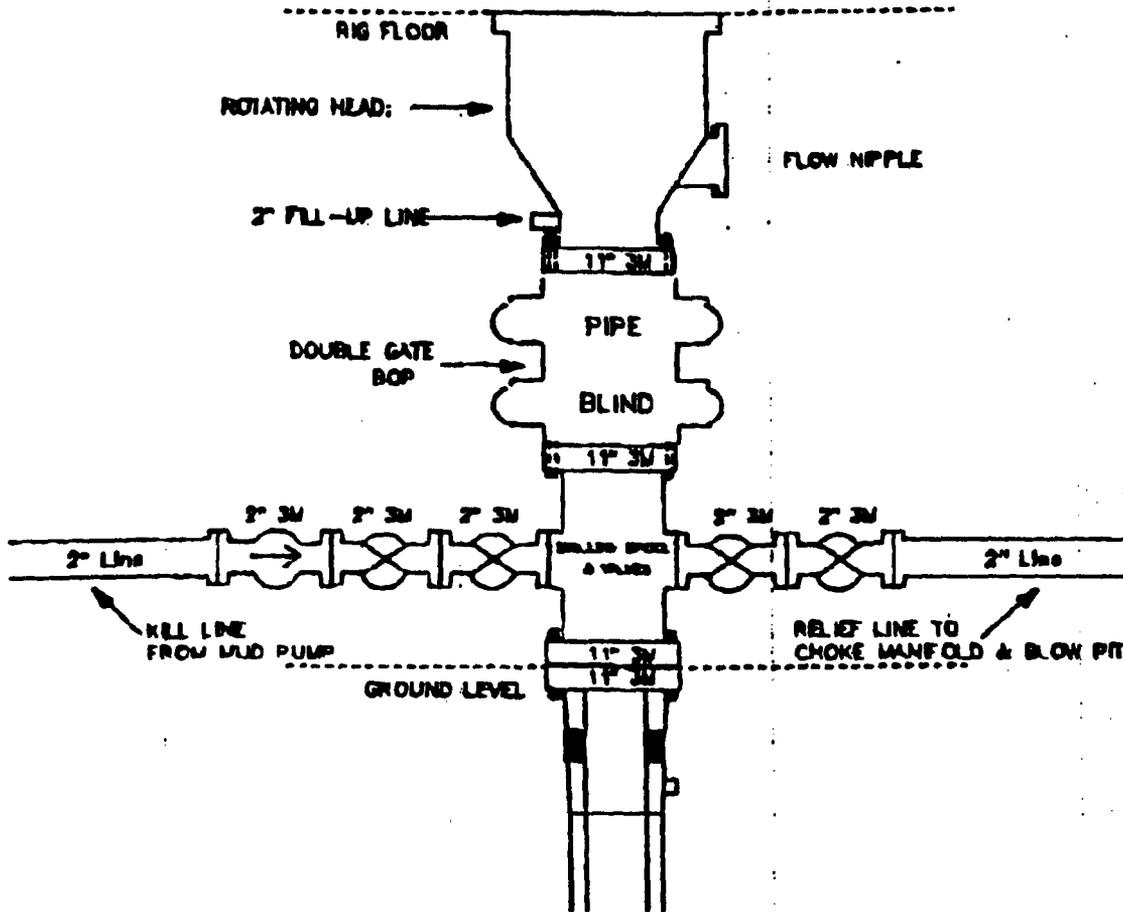


Exhibit "D"

Key **FOUR CORNERS**  
 P. O. BOX 1067  
 6661 U.S. HWY. 64  
 FARMINGTON, NEW MEXICO 87408  
 TELEPHONE: (505) 326-3371  
 FAX: (505) 326-3370

**Drilling Rig  
 3000 psi System**

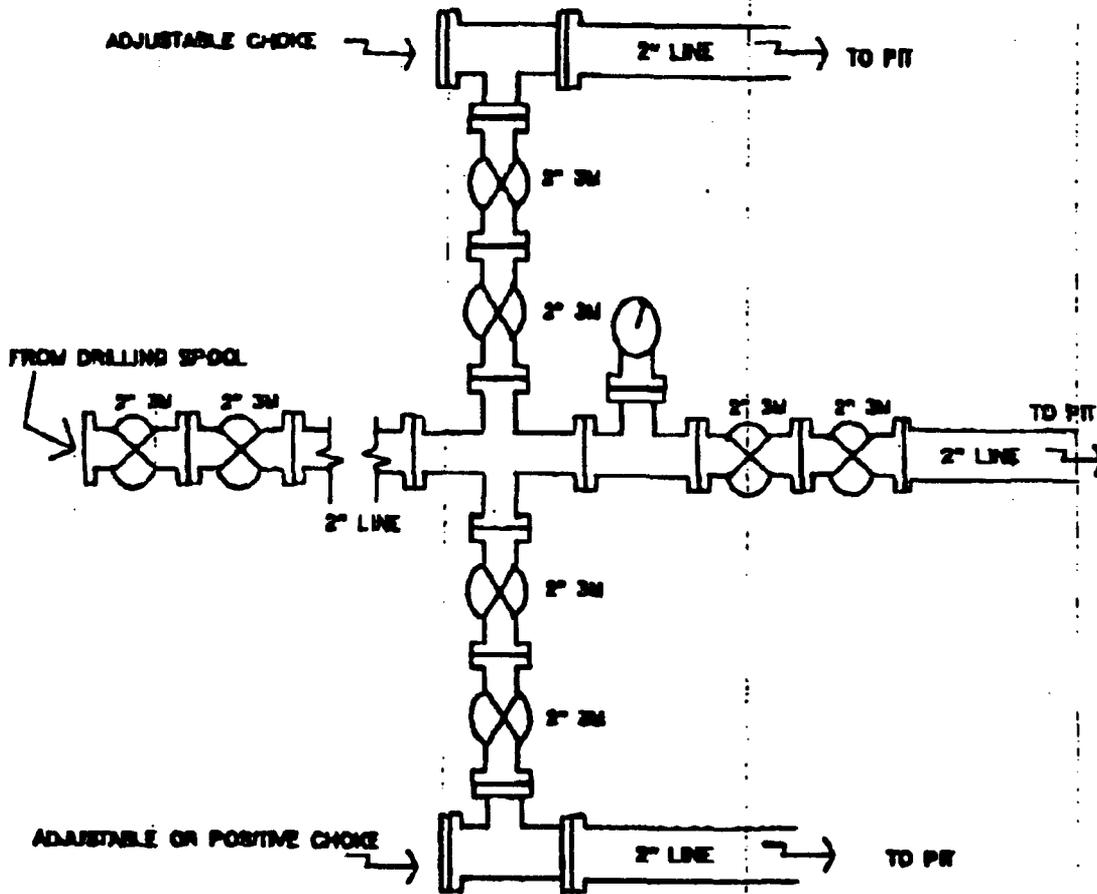


11" Bore (10" Nominal), 3000psi working pressure minimum double gate BOP to be equipped with blind and pipe rams. A rotating head on the top of the rams. All BOP equipment is 3000psi working pressure.

Note: A floor safety valve and upper kelly cock with handle will be available.

**Exhibit "F-1"**

### Drilling Rig Choke Manifold Configuration 3000 psi System



3000psi working pressure equipment with two chokes.

Exhibit "F-2"