

JUNE 4, 1990

RECEIVED



JUN 18 AM 9 54

TO: ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
P.O. BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504

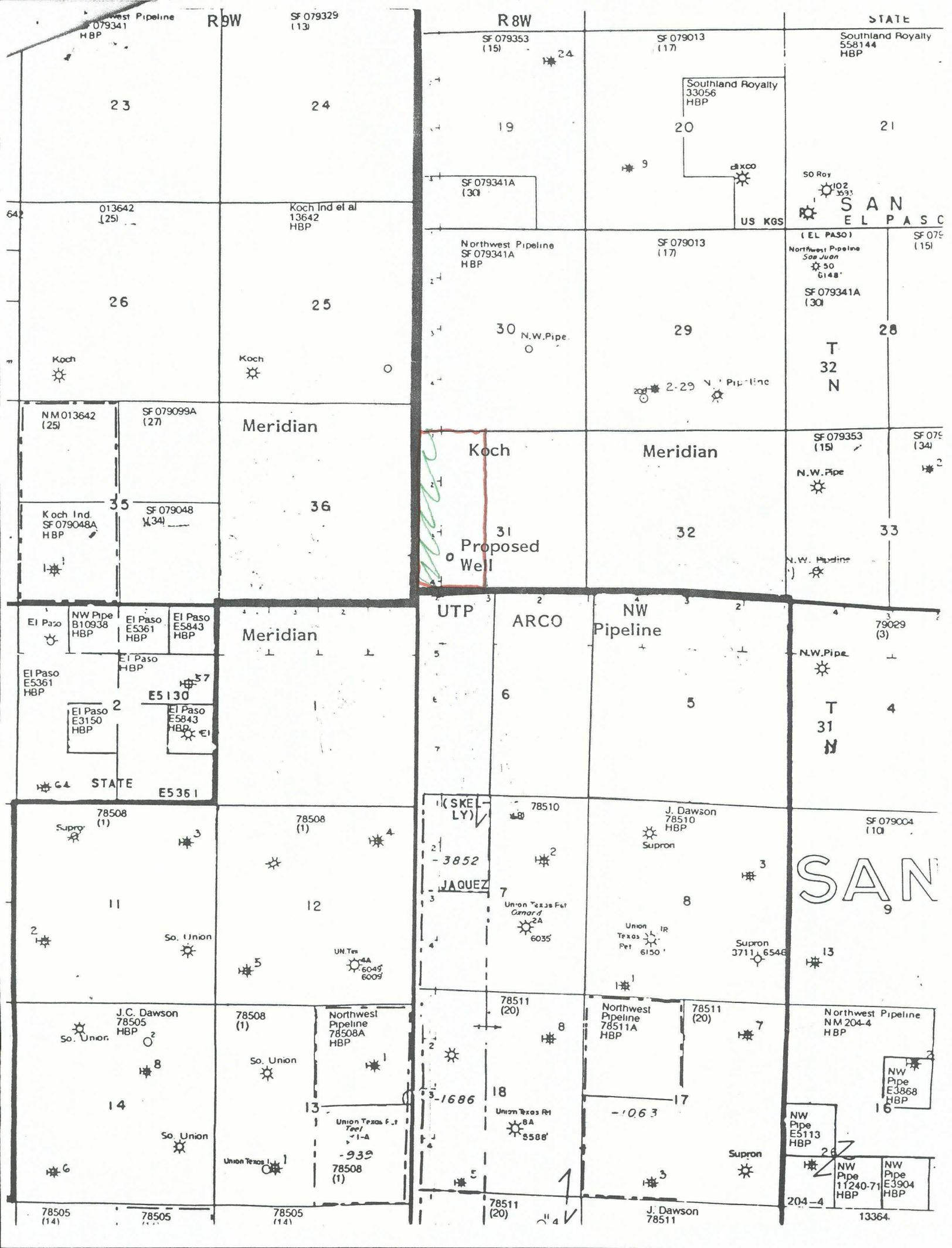
FROM: KOCH EXPLORATION COMPANY  
3605 N. DUSTIN  
FARMINGTON, NEW MEXICO 87401

505  
334  
9111

SUBJECT: UNORTHODOX WELL  
SITE LOCATION.  
SEC. 31-32N-9W

- 1-THE WELL NAME AND NUMBER IS ( GARDNER 3-C LSE. NO-NM-013642 )  
THE LEASE IS FEDERAL SURFACE AND MINERALS. THIS REQUEST CONTAINS A COMPLETE  
APD, THAT IS FILED WITH THE DEPARTMENT OF THE INTERIOR IN FARMINGTON, NM.
- 2-A COMPLETED C-102 FORM IS INCLUDED.
- 3-A-TOPO MAP IS INCLUDED WITH LOCATION MARKED  
B-A CERTIFIED LETTER WAS PREPARED IN OUR HOME OFFICE IN WICHITA, KANSAS AND  
MAILED TO ALL THE OFFSET OPERATORS REQUESTING A WAIVER OF ANY OBJECTION  
TO THE UNORTHODOX LOCATION.  
A COPY OF THE LETTER WAS MAILED TO THE OIL AND GAS COMMISSION IN SANTA FE, NM.
- 4-A-A 7.5 TOPO MAP WITH LOCATION AND PRORATION UNIT MARKED ON IT IS INCLUDED  
THE LOCATION HAS A CANYON ON THE NORTH AND EAST SIDES, PROPERTY LINES ON THE  
SOUTH AND WEST SIDES, ALSO THIS IS A NARROW SECTION ON THE WEST SIDE.  
B-OUTLINE OF ORTHODOX DRILLING WINDOW IS INCLUDED.  
C-WE PLAN TO USE THE EXISTING PAD IF APPROVED.
- 5-A-SUITABLE MAP TO SHOW FEATURES OF THE TERRAIN IS INCLUDED.  
B-EXISTING ROADS AND PIPELINES DO NOT AFFECT THE LOCATION  
C-CANYON SHOWN ON TOPO MAP.  
D-NO ARCHEOLOGICAL SITES WERE FOUND DURING INSPECTION.
- 6- AN ARCHEOLOGICAL INSPECTION REPORT IS INCLUDED.
- 7- THE LEGAL LOCATIONS ARE IN OR NEAR THE CANYONS WITH NO ACCESS ROADS.
- 8- THE SHALLOW DEPTH OF THE COAL SEAM AND THE ANTICIPATED GAS VOLUME WOULD NOT  
JUSTIFY THE EXPENSE OF DIRECTIONAL DRILLING.
- 9- A COPY OF THE LETTER SENT TO THE OFFSET OPERATORS IS INCLUDED.

SINCERELY YOURS



West Pipeline  
SF 079341  
HBP

R9W

SF 079329  
(13)

R 8W

STATE

23

24

SF 079353  
(15)

SF 079013  
(17)

Southland Royalty  
558144  
HBP

19

20

21

Southland Royalty  
33056  
HBP

SO Roy  
102  
533  
SAN  
EL PASO

US KGS

013642  
(25)

Koch Ind et al  
13642  
HBP

SF 079341A  
(30)

Northwest Pipeline  
SF 079341A  
HBP

SF 079013  
(17)

(EL PASO)  
Northwest Pipeline  
San Juan  
50  
6148'

SF 079  
(15)

26

25

30

29

28

Koch

Koch

N.W. Pipe

2-29 Pipeline

T  
32  
N

NM 013642  
(25)

SF 079099A  
(27)

Meridian

Koch

Meridian

SF 079353  
(15)

SF 079  
(134)

35

36

Koch Ind.  
SF 079048A  
HBP

SF 079048  
(34)

31  
Proposed Well

32

33

N.W. Pipe

N.W. Pipeline

El Paso  
E5361  
HBP

NW Pipe  
B10938  
HBP

El Paso  
E5361  
HBP

El Paso  
E5843  
HBP

Meridian

UTP

ARCO

NW Pipeline

79029  
(3)

El Paso  
E5361  
HBP

El Paso  
HBP

E5130

El Paso  
E3150  
HBP

El Paso  
E5843  
HBP

N.W. Pipe

T  
31  
N

STATE

E5361

78508  
(1)

78508  
(1)

78510

J. Dawson  
78510  
HBP

SF 079004  
(10)

SAN

Supro

3

4

2

3

11

12

(SKELELY)

JAQUEZ

Union Texas Pet  
Omar d  
2A  
6035'

Union Texas Pet  
IR  
6150'

Supron  
3711, 6546

13

2

So. Union

5

UN Tex  
6049'  
6009'

1

Supron  
3711, 6546

J.C. Dawson  
78505  
HBP

78508  
(1)

Northwest Pipeline  
78508A  
HBP

78511  
(20)

Northwest Pipeline  
78511A  
HBP

78511  
(20)

Northwest Pipeline  
NM 204-4  
HBP

NW Pipe  
E3868  
HBP

So. Union

So. Union

1

8

8

7

14

13

18

17

16

So. Union

Union Texas F...  
78508  
(1)

Union Texas Pet  
BA  
5588'

1063

Supron

NW Pipe  
E5113  
HBP

NW Pipe  
11240-7  
HBP

NW Pipe  
E3904  
HBP

78505  
(14)

78505  
(14)

78505  
(14)

78511  
(20)

J. Dawson  
78511

13364

KOCH EXPLORATION COMPANY  
GARDNER 3 C  
768' F/SL - 1170' F/WL  
Sec. 26, T 32-N, R 9-W, 11MPM  
San Juan County, New Mexico  
LOCATIONS

See SK-344-245

MAP 2



EX-111-111  
111-111

# KOCH

## KOCH EXPLORATION COMPANY

June 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Meridian Oil Inc.  
PO Box 4289  
Farmington, NM 87499-4289  
Attn: Tom Hawkins

Union Texas Petroleum Corp  
14001 E. Iliff Avenue, #500  
Aurora, CO 80014-1488  
Attn: Susan K. Altes

Northwest Pipeline  
PO Box 58900  
Salt Lake City, UT 84158-0900  
Attn: Darrell Gillen

ARCO Oil and Gas Company  
PO Box 1610  
Midland, TX 79702  
Attn: Wayne Fletcher

Koch Exploration Company plans to drill a Fruitland coalbed methane well in the SW/4 of Section 31-T32N-R8W. Due to topographic restrictions, the well has been staked 790' FSL and 750' FWL which constitutes an unorthodox location pursuant to New Mexico Conservation Division Order No. R-8768.

As a result, Koch is notifying all operators of proration or spacing units offsetting the S/2 of said Section 31, and request that you indicate below your waiver of any objection to Koch's unorthodox location.

Should you have any questions regarding this matter, please contact the undersigned at (316) 832-6026.

MERIDIAN OIL INC.

NORTHWEST PIPELINE

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

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

Date: \_\_\_\_\_

Date: \_\_\_\_\_

ARCO OIL AND GAS COMPANY

UNION TEXAS PETROLEUM CORP.

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

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

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Very truly yours,

Janet Kae Kruse  
Senior Landman

xc: Oil Conservation Commission  
PO Box 2088  
Santa Fe, NM 87501

JKK:es/frt\ndcb.

P.O. Box 2256 • Wichita, Kansas 67201-2256 • 316/832-5237 • Telecopier 316/832-5390  
4111 E. 37th Street North • Wichita, Kansas 67220



APRIL 18, 1990

OPERATIONS PLAN

WELL NAME: GARDNER-3-C

790' FSL & 750' FWL

SECTION. 31-T-32N-R.8W

COUNTY. SAN JUAN

POOL BASIN FRUITLAND COAL.

ELEVATION. GR. 6515

FORMATION TOPS. SURFACE. SAN JOSE  
 OJO ALAMO. 1694'  
 KIRTLAND. 1728'  
 FRUITLAND. 3038'  
 FRUITLAND COAL TOP. 3137'  
 FRUITLAND COAL BASE. 3329'  
 TOTAL DEPTH. 3339'  
 PICTURED CLIFFS. 3354'

LOGGING PROGRAM: NO OPEN HOLE LOGGING IS PLANNED. WE PLAN TO RUN COMPENSATED NUTRON, CBL. AND GAMMA RAY LOGS FOR COMPLETION. BLM. WILL BE FURNISHED TWO COPIES OF EVERYTHING THAT WE RUN.

MUD PROGRAM:	INTERVAL	TYPE	WEIGHT	VISC.	FLUID LOSS
	0-200'	SPUD	8.4--8.9	40--50	NO CONTROL
	200- <u>3339'</u>	NON DISPERSED	8.4-9.1	40--60	NO CONTROL

CASING PROGRAMM:	HOLE SIZE	DEPTH INTERVAL	CASING SIZE	WEIGHT	GRADE
	10-1/4"	0-200'	8-5/8"	24#	J-55-ST&C
	7-3/4"	200'- <u>3339'</u>	5-1/2"	17#	J-55-ST&C

TUBING PROGRAM:				
			2-3/8 EUE 8R	4.6# J-55-T&C

FLOAT EQUIPMENT: 8-5/8" SURFACE CASING WITH TEXAS PATTERN SHOE. TWO CENTRALIZERS ON BOTTOM JOINTS AND ONE ON TOP JOINT.

5-1/2" PRODUCTION CASING. WITH FLOAT SHOE ON BOTTOM AND AN INSERT FLOAT ONE JOINT UP. FOUR CENTRALIZERS, RUN EVERY OTHER JOINT ABOVE SHOE. TWO CENTRALIZERS RUN ON THIRD AND LAST JOINTS ON TOP.

WELL HEAD: 3000#, 8-5/8" X 5-1/2" X 2" THREADED LARKIN HEAD. 2"-2000# GATE VALVES ON SIDE OF HEAD AND ON TUBING.

BOP STACK: PREVENTERS WILL BE DOUBLE RAM WITH PIPE RAM FOR SIZE OF PIPE BEING USED AT THE TIME AND BLIND RAM FOR WELL CONTROL WHEN PIPE IS OUT OF THE HOLE. THE PIPE RAMS WILL BE ACTIVATED ONCE EACH TOUR AND THE BLIND RAMS WILL BE ACTIVATED EACH TRIP. THERE WILL BE AN UPPER KELLY COCK IN USE AT ALL TIMES WITH HANDLE AVAILABLE ON THE RIG FLOOR AT ALL TIMES. THERE WILL BE A CROSS OVER SUB AND TIW VALVE FOR EACH SIZE OF PIPE BEING USED AT THE TIME. THERE WILL BE A HANDLE FOR THE VALVES AVAILABLE ON THE RIG FLOOR AT ALL TIMES.

CEMENT PROGRAM: 8-5/8" SURFACE CASING. WILL CEMENT WITH 56 SKS. CLASS B WITH 1/2# FLOCELE PER. SK. AND 3% CaCl2 (47 CU. FT. OF SLURRY, 100% EXCESS TO CIRCULATE TO SURFACE.

5-1/2" PRODUCTION CASING, LEAD WITH 454.5 SKS. 65/35 CLASS B POZ WITH 6% GEL, 2% CaCl2 AND 1/2 CU. FT. PERLITE/SK. (10.3 GALLONS WATER/SX.) TAIL IN WITH 227.5 SKS. CLASS B WITH 2% CaCl2. 812 CU. FT. OF SLURRY, 50% EXCESS TO REACH THE BOTTOM OF THE SURFACE PIPE.

KOCH EXPLORATION COMPANY  
3605 N.DUSTIN  
FARMINGTON, NEW MEXICO 87401

GARDNER-3-C

27

PAGE -2

APRIL 11, 1990

OPERATIONS PLAN

ADDITIONAL INFORMATION:

THE FRUITLAND COAL FORMATION WILL BE COMPLETED.  
THE WEST HALF OF SECTION 25 IS DEDICATED TO THIS WELL.

THERE HAVE BEEN SEVERAL WELLS DRILLED IN THIS AREA WITH NO SHOWS OF ABNORMAL PRESSURES OR ANY SIGNS OF POISON GAS, THEREFORE WE DO NOT ANTICIPATE ANY PROBLEMS.

CONSERVATION DIVISION  
 Form 3160-3  
 (November 1983)  
 (formerly 9-331C)  
 10 JUL 2 AM 10 12

SUBMIT IN TRIPLICATE\*  
 (Other instructions on reverse side)

Form approved.  
 Budget Bureau No. 1004-0136  
 Expires August 31, 1985

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK   
 b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 KOCH EXPLORATION COMPANY

3. ADDRESS OF OPERATOR  
 3605 N. DUSTIN, FARMINGTON, NEW MEXICO 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 790' FSL. & 750' FWL.  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 25 MILES NE. OF AZTEC, NEW MEXICO

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 750'

18. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 100'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 GR-6515'

5. LEASE DESIGNATION AND SERIAL NO.  
 NM-013642

6. IF INDIAN, ALLOTTED OR TRIBE NAME  
 NA

7. UNIT AGREEMENT NAME  
 NA

8. FARM OR LEASE NAME  
 GARDNER

9. WELL NO.  
 3-C

10. FIELD AND POOL, OR WILDCAT  
 BASIN FRUITLAND COAL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 31-T-32N-R-8W

12. COUNTY OR PARISH 13. STATE  
 SAN JUAN NM.

16. NO. OF ACRES IN LEASE  
 269.5

19. PROPOSED DEPTH  
 3400' + OR. -

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 269.5

20. ROTARY OR CABLE TOOLS  
 ROTARY

22. APPROX. DATE WORK WILL START\*  
 WHEN APPROVED

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10-1/4"	8-5/8"	24 #	200'	66.92 CU. FT. 100% Excess
7-3/4"	5-1/2"	17 #	3400'	610 CU. FT. Circulate

1-Set new or tested 8-5/8-17# J-55-ST&C.CSG.@200'. Cement with enough cement to circulate to surface. WOC-12 hrs. test casing to 1000 PSI. before drilling out from under the shoe.

2-Drill out with water and native mud to 2000', then mud up with benex type mud and drill through the Basin Fruitland Coal Zone. (3400' more or less.) Set 5-1/2" 17# J-55 Casing. Cement with enough cement to circulate into the surface pipe.

3-3000# Double pipe and blind ram BOP'S will be used. Pipe rams will be tested each tour and the blind rams will be tested each trip.

4-Well Head Equipment will consist of 3000 PSI. Screw type Larkin Head.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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. SIGNED Delvin A. Eckard TITLE Dist. Prod. Supt. DATE 3-6-90

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

MULTI-POINT SURFACE USE PLAN

WELL NAME. GARDNER-3-C

APRIL 12, 1990

790' FSL & 750' FWL

ELEVATION-GR. 6515'

SEC. 31 T-32NR-8W

COUNTY SAN JUAN

POOL: BASIN FRUITLAND COAL

- 1-EXISTING ROADS: REFER TO MAP #1 WHICH SHOW THE EXISTING ROADS. ALL ROADS WILL BE MAINTAINED TO AS GOOD OR BETTER CONDITION THAN THEY WERE BEFORE THE PROJECT STARTED.
- 2-PLANNED ACCESS ROADS: ALL EXCEPT 2 OF THE ACCESS ROADS WILL BE ON EXISTING ROADS WHICH WILL BE MAINTAINED. THE TWO NEW ROADS ( 6-C & 7-C ) WILL BE CONSTRUCTED TO BLM. REQUIRMENTS. NO GATES OR CATTLE GUARDS WILL BE INSTALLED.
- 3-LOCATION OF EXISTING WELLS. PLEASE REFER TO MAP # 2 WHICH SHOWS THE EXISTING WELLS.
- 4-LOCATION OF PRODUCTION EQUIPMENT AND LINES. PLAT OF ANTICIPATED PRODUCTION EQUIPMENT AND LINES IS ATTACHED.
- 5-LOCATION AND TYPE OF WATER SUPPLY: WATER WILL BE HAULED BY TRUCK FROM IRRIGATION DITCH AT LOADING POINT, EPEX EXTRACTION DAN-09-NW-SW-25-31N-11W.
- 6-SOURCE OF CONSTRUCTION MATERIAL: NO ADDITIONAL MATERIAL SHOULD BE REQUIRED TO BUILD THE LOCATION OR MAINTAIN THE ROADS.
- 7-METHOD OF HANDLING THE WASTE MATERIAL: ALL GARBAGE WILL BE PUT IN A TRASH CAGE AND HAULED TO AN APPROVED WASTE DUMP.  
  
THE WELL CUTTINGS WILL BE LEFT IN THE RESERVE PIT TO DRY AND THEN BURIED IN THE PIT.  
  
THERE WILL BE A LATRINE ON LOCATION FOR HUMAN WASTE. (THIS IS SHOWN ON PLAT.)  
THE RESERVE PIT WILL BE LINED IF REQUIRED AND FENCED TO PROTECT THE LIVESTOCK AND WILD GAME. THE PIT WILL BE ALLOWED TO DRY BEFORE CLEAN UP TAKES PLACE.
- 8-ANCILLARY FACILITIES: NO CAMPS OR AIR STRIPS WILL BE CONSTRUCTED FOR THIS PROJECT.
- 9-WELL SITE LAYOUT: PLAT IS ATTACHED THAT SHOWS THE LAYOUT OF THE LOCATION AND THE EQUIPMENT, THE ORIENTATION AND THE ACCESS ROAD.
- 10-PLANS FOR THE RESTORATION OF THE SURFACE: AFTER THE COMPLETION OF THE PROJECT THE LOCATION WILL BE CLEANED AND LEVELED. THE LOCATION WILL BE RESEEDED AT THE APPROPRIATE TIME WITH THE BLM. RECOMMENDED SEED MIXTURE AND THE EQUIPMENT WILL BE PAINTED THE BLM. DESIGNATED COLOR.
- 11-OTHER INFORMATION: THE TERRAIN IS TAN SANDY LOAM, VEGETATION CONSISTS OF PINON JUNIPER, PONDEROSA PINE, GAMBEL OAK, SAGE BRUSH AND VARIOUS GRASSES. DEER, ELK, RABBIT AND CATTLE FREQUENT THE AREA.  
BUREAU OF LAND MANAGEMENT IS THE SURFACE OWNER.

~~THE ARCHEAOLOGICAL REPORT IS ATTACHED~~

CONTINUED

5  
KOCH EXPLORATION COMPANY  
3605 N.DUSTIN  
FARMINGTON, NEW MEXICO. 87401

PAGE-2

APRIL 12, 1990

GARDNER 3-C

12-OPERATORS REPRESENTATIVE: DELVIN H. ECHARD, 3605 N. DUSTIN, FARMINGTON, NM. 87401  
PHONE NO. OFFICE 334-9111 HOME-325-1549

13-CERTIFICATION: 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 THAT PRESENTLY EXIST, THAT THE STATEMENTS MADE IN THIS PLAN ARE TO THE BEST OF MY KNOWLEDGE ARE TRUE AND CORRECT AND THAT THE WORK ASSOCIATED WITH THE OPERATIONS PROPOSED HEREIN WILL BE PERFORMED BY KOCH EXPLORATION COMPANY, AND ITS CONTRACTORS, SUB-CONTRACTORS IN CONFORMITY WITH THE PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.

*Delvin H. Echard*

DISTRICT SUPERINTENDENT

## INTRODUCTION

Between March 13 and March 20, 1990, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Koch Exploration of Farmington, New Mexico. Delvin Echard requested the survey on March 5, 1990 and administered the project for Koch Exploration. Byron P. Johnson administered the project for DCA.

In recognition of the limited, nonrenewable nature of archaeological remains, the federal government has enacted legislation that is designed to conserve and protect these resources. The principal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665) and as amended (PL 96-515), the National Environmental Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95). In addition, the Navajo Nation and the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is intended to comply with these statutes and is governed by the stipulations of Cultural Resource Use Permit 7-2920-90-U (NM BLM).

Scott Wilcox, Joell Goff, and Peter Arena, DCA archaeologists, surveyed the project areas for cultural remains. Dave Kayser (Bureau of Land Management [BLM] Farmington Resource Area) was notified of the survey schedule prior to beginning fieldwork. Delvin Echard of Koch Exploration accompanied the archaeologists during the field work.

## METHODS

The area was surveyed by walking straight line transects spaced 50 ft (15 m) apart. A 100 ft (30 m) buffer zone was surveyed beyond the 50 ft (15 m) construction zone and 50 ft (15 m) either side of the access road right-of-way was added. The archaeologists recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci. Pertinent environment data were also recorded.

In addition to field inspection, the archaeologists conducted a search of the records at the BLM Farmington Resource Area office and at DCA to determine if any sites had been recorded in the project area. Site and project records required by the BLM and the New Mexico Historic Preservation Division were completed.

PREVIOUSLY RECORDED SITES

The records check revealed 16 previously recorded sites within one mile of the proposed project areas. Those sites are shown on BLM Supplements 1A and 1B which are provided to the BLM only. One site is within 1000 ft of the project area and is detailed in Table 1.

Table 1. Sites within 1000 feet of the Project Area

<u>Gardner No. 6C</u> <u>Site No.</u>	<u>Cultural</u> <u>Affiliation</u>	<u>Description</u>
LA 46148	Basketmaker II-III Anasazi	Rockshelter with a lithic and ceramic scatter and burned rock.

Proposed Gardner No. 3C Well Pad

Legal Description: T32N, R8W, Section 31, 790' F/SL, 750' F/WL  
N  $\frac{1}{4}$  SW  $\frac{1}{4}$  SW  $\frac{1}{4}$   
N.M.P.M., San Juan County, New Mexico

Map Source: U.S.G.S. 7.5' Anastacio Spring, New Mexico-Colorado  
- 1985 Provisional Edition

Land Jurisdiction: Bureau of Land Management

Project Area: 240' x 250' (well pad and construction zone)

Surveyed Area: 440' x 450' (well pad and construction zone  
with buffer)  
4.55 Acres

Description: The project area is located on a mesa top overlooking Trail Canyon to the east (see Figure 8, Figure 10). Vegetation consists of piñon, juniper, ponderosa, gambel oak, sage, and various grasses. Soil is tan sandy loam.

The well is a twin of the Gardner No. 3 well pad and approximately 75% of the area has been disturbed by the existing Gardner No. 3 well pad. No new access road will be constructed.

Cultural Resources: No cultural resources were found in the project area.

Recommendations: Archaeological clearance is recommended for the Gardner No. 3C well pad.

Submit to Appropriate District Office  
 State Lease - 4 copies  
 Fee Lease - 3 copies

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

DISTRICT I  
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
 P.O. Drawer DD, Aramis, NM 88210

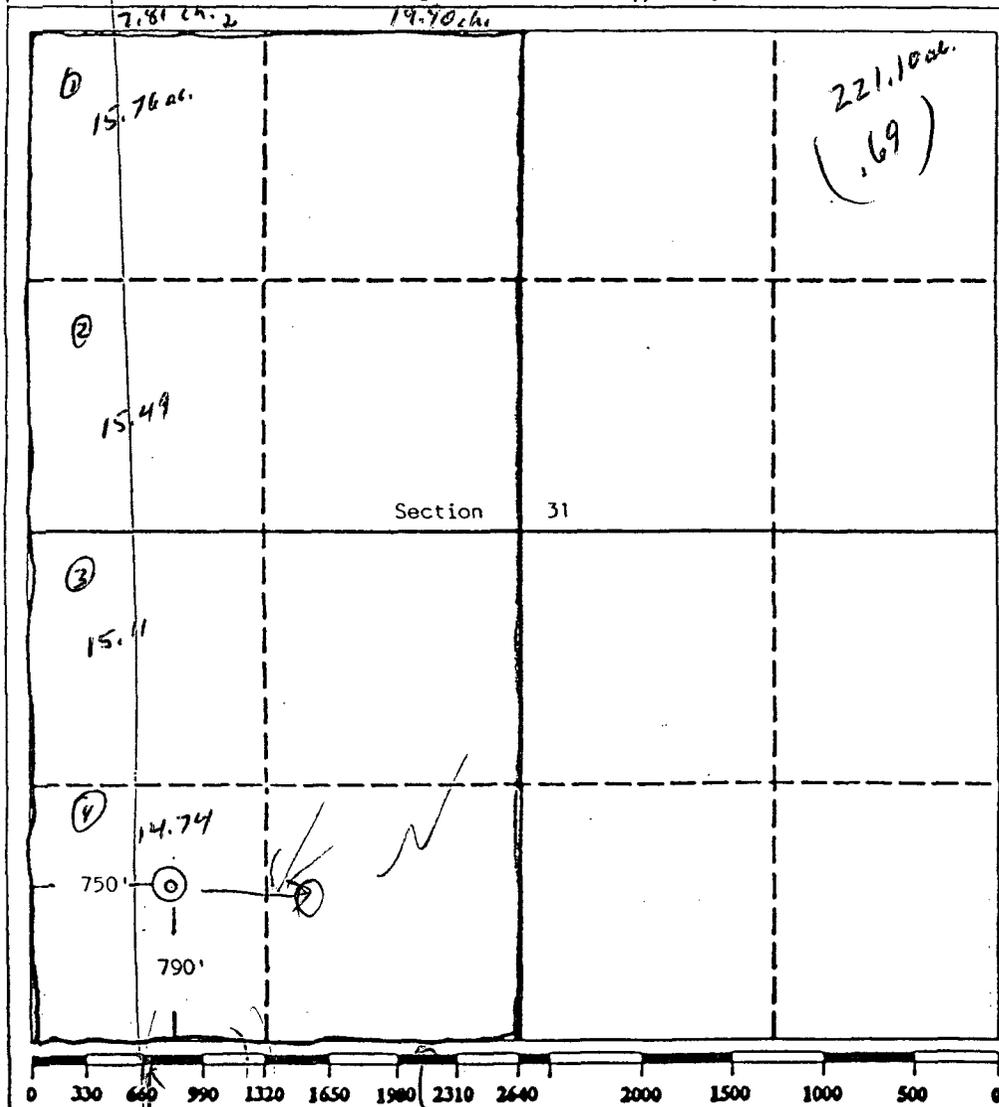
DISTRICT III  
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Koch Exploration Company		Lease Gardner		Well No. 3 C	
Unit Letter MN	Section 31	Township 32 North	Range 8 West	County San Juan	
Actual Footage Location of Well: 790 feet from the South line and 750 feet from the West line					
Ground level Elev. 6515	Producing Formation Basin Fruitland Coal		Dedicated Acreage: 320 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
 Yes  No If answer is "yes" type of consolidation \_\_\_\_\_  
 If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, 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: *Delvin H. Echard*  
 Printed Name: Delvin H. Echard  
 Position: Dist. Prod. Supt.  
 Company: Koch Exploration CO.  
 Date: 3-6-90

**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 knowledge and belief.

Date Surveyed: January 17, 1990

Signature & Seal of Professional Surveyor: *Edgar Risenhoover*  
 Edgard Risenhoover  
 5979  
 Edgard Risenhoover



Koch Exploration Company

OPERATOR

Gardner 3 C

WELL NAME & NO.

790' F/S 750' F/WL

FOOTAGES

31 32N 8W

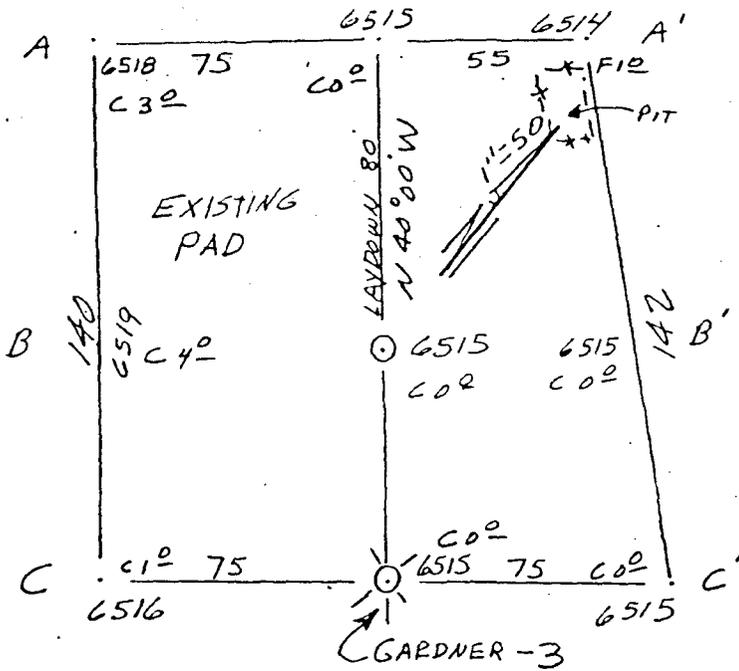
SEC. TWP. RGE.

San Juan, NM

COUNTY

January 17, 1990

DATE



A → A'

6520					
6510					6515

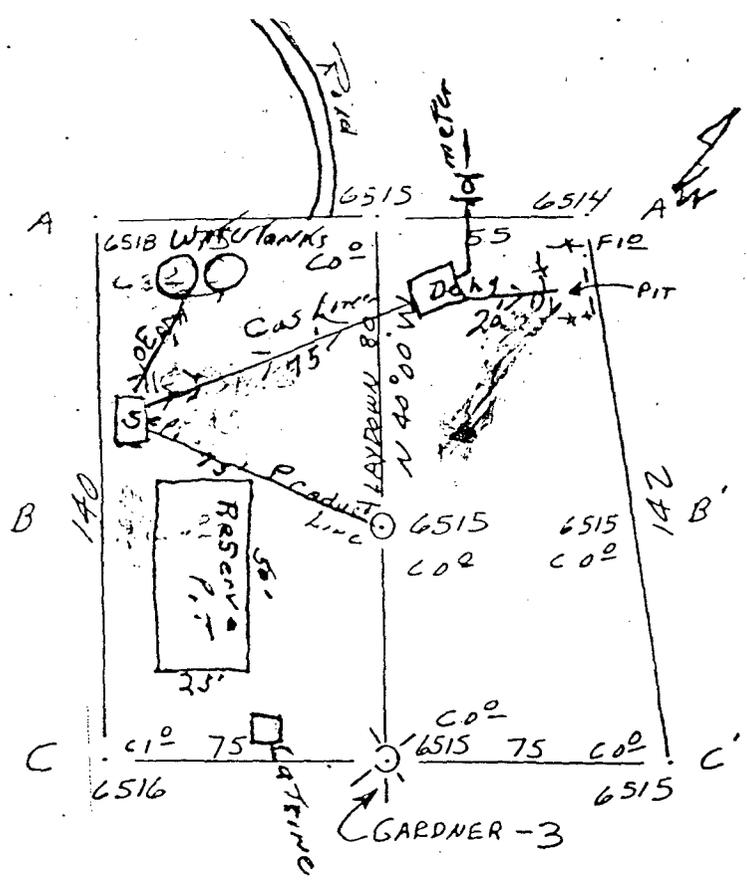
HORIZ 1" = 50  
VERT 1" = 30

B → B'

6520					
6510					6515

C → C'

6520					
6510					6515



Koch Exploration Company

OPERATOR

Gardner 3 C

WELL NAME & NO.

790' F/SL 750' F/WL

FOOTAGES

31 32N 8W

SEC. TWP. RGE.

San Juan, NM

COUNTY

January 17, 1990

DATE

A → A'

6520					
6510					6515

HORIZ 1" = 50  
VERT 1" = 30

B → B'

6520					
6510					6515

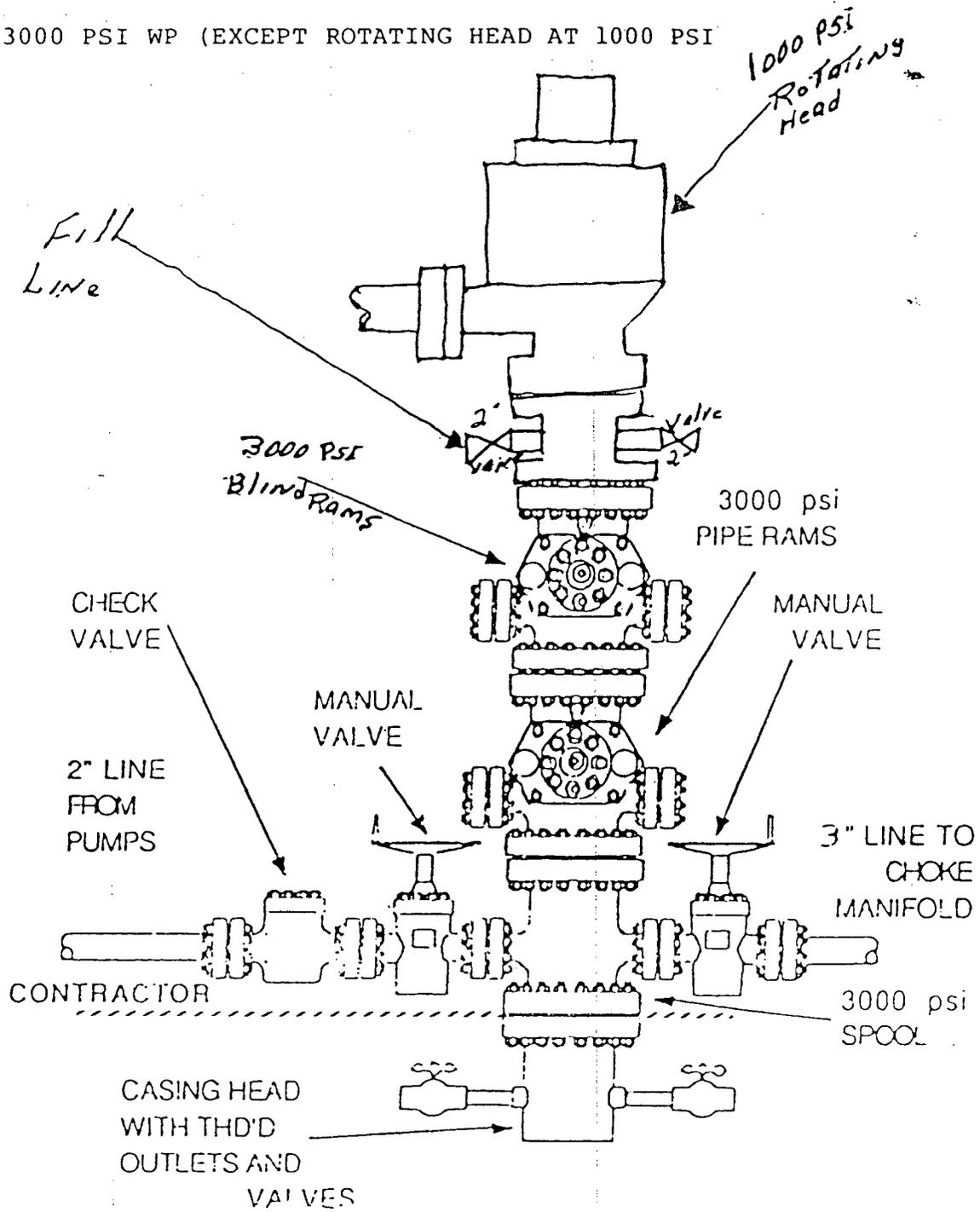
C → C'

6520					
6510					6515

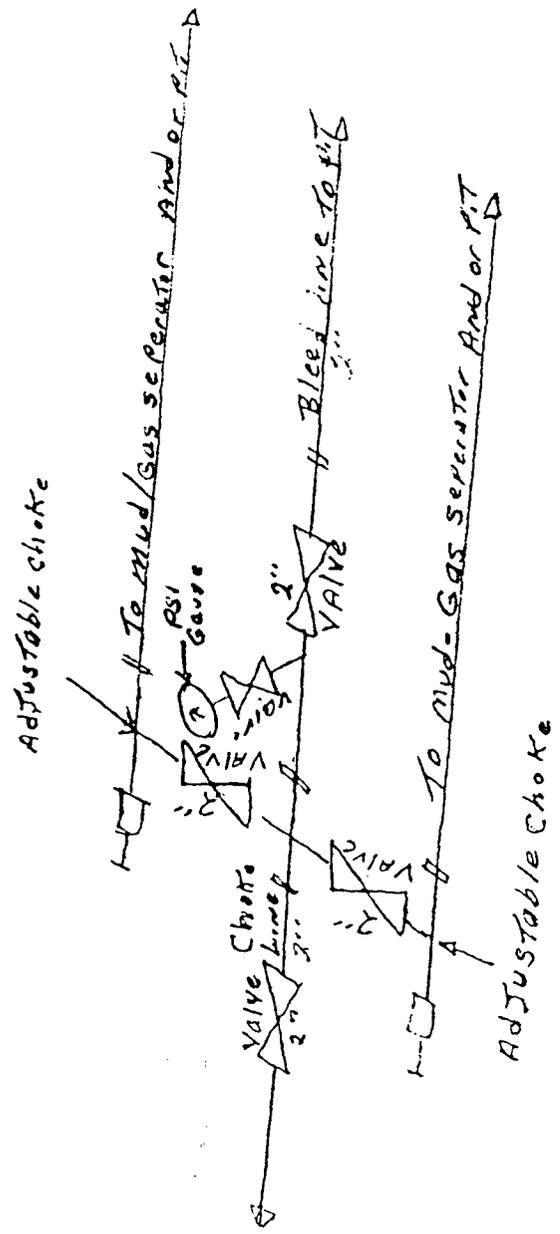
APPENDIX

BOP EQUIPMENT

3000 PSI WP (EXCEPT ROTATING HEAD AT 1000 PSI)



BSP

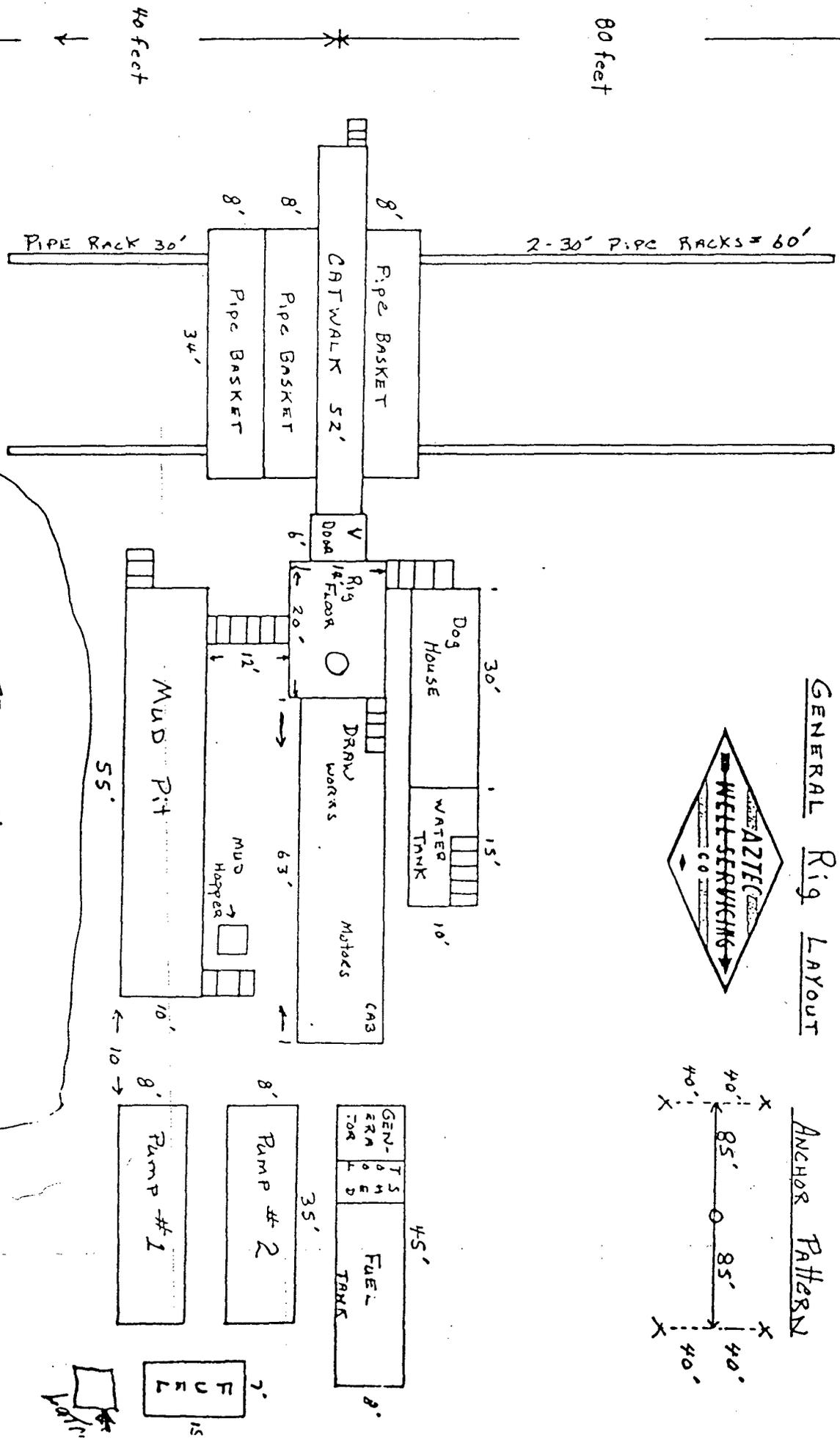
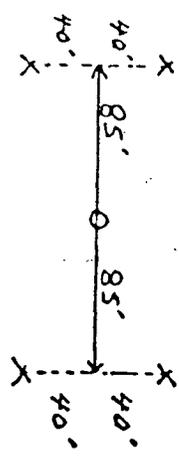


125 feet

125 feet

# GENERAL Rig LAYOUT

# ANCHOR PATTERN



# Mitchell Energy Corporation

OIL CONSERVATION DIVISION  
RECEIVED

Suite 3500  
555 17th Street  
Denver, Colorado 80202

'90 JUL 2 AM 9 59

Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: **Waiver of Objection**

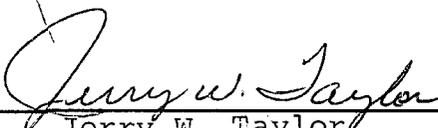
To: Application for Non-Standard Location  
Evergreen Operating Corporation  
Rosa Unit #296  
1030' FNL 900' FWL  
Section 12, Township 31 North, Range 4 West  
Basin Fruitland Coal Gas Pool

Gentlemen:

We, Mitchell Energy Corporation, as an offset operator, hereby waive objection to the application for the non-standard location of the Evergreen Operating Corporation Rosa Unit #296 well to be located 1030' FNL 900' FWL of Section 12, Township 31 North, Range 4 West, Basin Fruitland Coal Gas Pool, Rio Arriba, New Mexico.

Yours very truly,

**Mitchell Energy Corporation**

By:  

Jerry W. Taylor  
Attorney-in-Fact

Date: June 26, 1990

# Mitchell Energy Corporation

555 17th Street, Suite 3500  
Denver, Colorado 80202

Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: **Waiver of Objection**

To: Application for Non-Standard Location  
Evergreen Operating Corporation  
Rosa Unit #306  
985' FSL 1085' FEL  
Section 22, Township 31 North, Range 4 West  
Basin Fruitland Coal Gas Pool

Gentlemen:

We, Mitchell Energy Corporation, as an offset operator, hereby waive objection to the application for the non-standard location of the Evergreen Operating Corporation Rosa Unit #306 well to be located 985' FSL 1085' FEL of Section 22, Township 31 North, Range 4 West, Basin Fruitland Coal Gas Pool, Rio Arriba, New Mexico.

Yours very truly,

**Mitchell Energy Corporation**

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

  
Jerry W. Taylor

Attorney-in-Fact

Date: \_\_\_\_\_

June 26, 1990

**Robert L. Bayless**

OIL CONSERVATION DIVISION  
P.O. Box 168  
Farmington, New Mexico 87499-0168

'90 JUL 6 AM 8 43

Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: **Waiver of Objection**

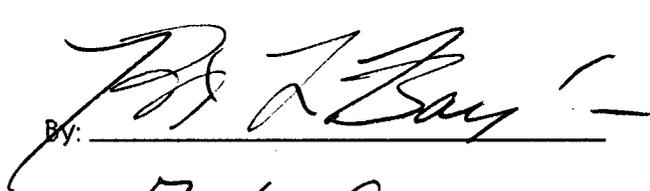
To: Application for Non-Standard Location  
Falcon Seaboard Gas Company  
29-4 Carson 19 #1  
2120' FNL 950' FEL  
Section 19, Township 29 North, Range 4 West  
Basin Fruitland Coal Gas Pool

Gentlemen:

We, Robert L. Bayless, an offset owner, hereby waive objection to the application for the non-standard location of the Falcon Seaboard Gas Company 29-4 Carson 19 #1 well to be located 2120' FNL 950' FEL of Section 19, Township 29 North, Range 4 West, Basin Fruitland Coal Gas Pool, Rio Arriba, New Mexico.

Yours very truly,

**Robert L. Bayless**

By: 

Date: 7-1-90

RECEIVED  
JUN 21 '90  
KOCH EXPL CO  
LAND DEPT



KOCH EXPLORATION COMPANY

June 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Meridian Oil Inc.  
PO Box 4289  
Farmington, NM 87499-4289  
Attn: Tom Hawkins

Union Texas Petroleum Corp  
14001 E. Iliff Avenue, #500  
Aurora, CO 80014-1488  
Attn: Susan K. Altes

Northwest Pipeline  
PO Box 58900  
Salt Lake City, UT 84158-0900  
Attn: Darrell Gillen

ARCO Oil and Gas Company  
PO Box 1610  
Midland, TX 79702  
Attn: Wayne Fletcher

Koch Exploration Company plans to drill a Fruitland coalbed methane well in the SW/4 of Section 31-T32N-R8W. Due to topographic restrictions, the well has been staked 790' FSL and 750' FWL which constitutes an unorthodox location pursuant to New Mexico Conservation Division Order No. R-8768.

As a result, Koch is notifying all operators of proration or spacing units offsetting the S/2 of said Section 31, and request that you indicate below your waiver of any objection to Koch's unorthodox location.

Should you have any questions regarding this matter, please contact the undersigned at (316) 832-6026.

MERIDIAN OIL INC. - *Location approved -*

NORTHWEST PIPELINE

By: *Tom F Hawkins*  
*Senior Landman*  
Date: *6/19/90*

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

ARCO OIL AND GAS COMPANY

UNION TEXAS PETROLEUM CORP.

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

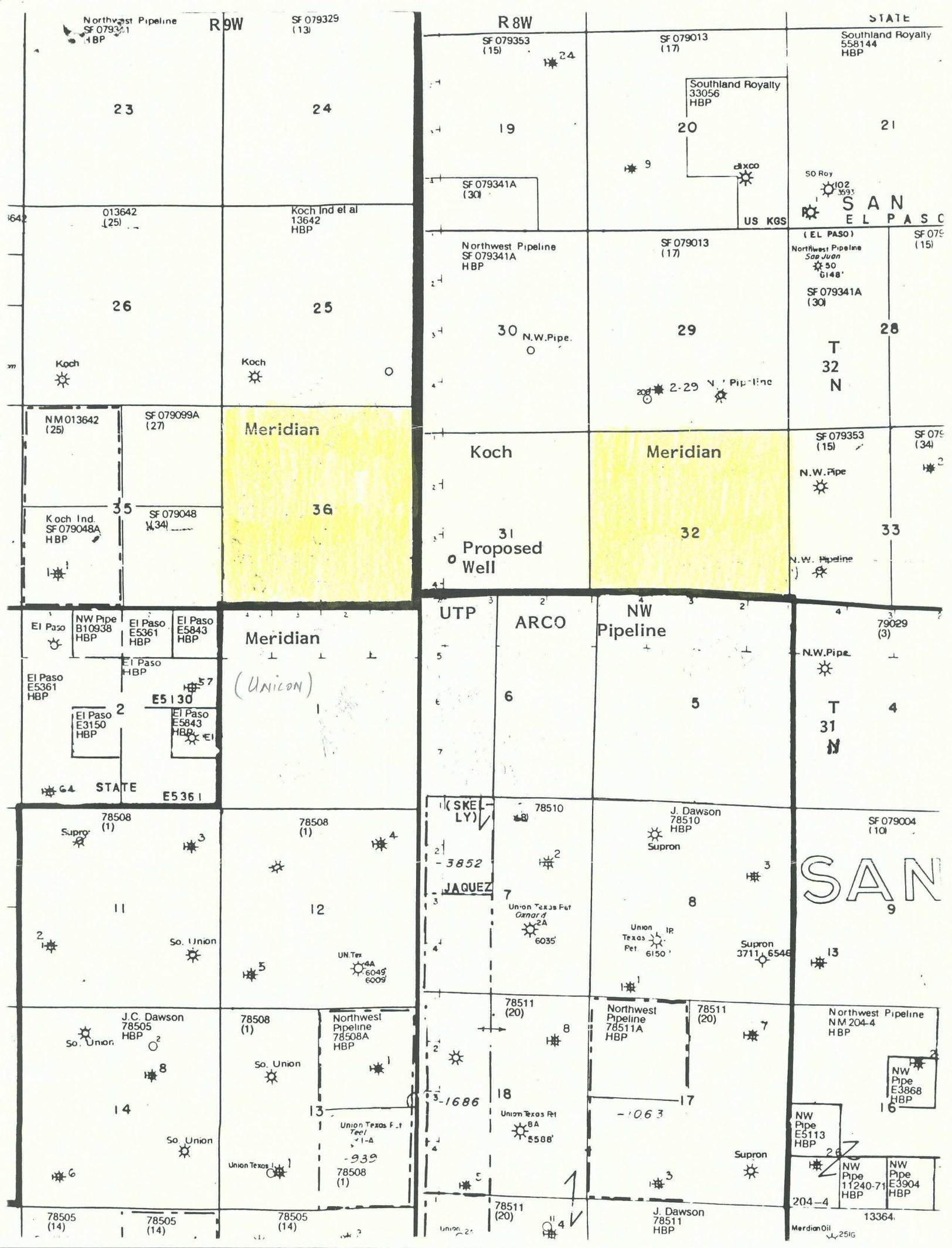
By: \_\_\_\_\_  
Date: \_\_\_\_\_

Very truly yours,

*Janet Kae Kruse*  
Janet Kae Kruse  
Senior Landman

xc: Oil Conservation Commission  
PO Box 2088  
Santa Fe, NM 87501

JKK:es/frtIndcb.



Northwest Pipeline SF 079329 (13)

R 8W

STATE

Southland Royalty 558144 HBP

23

24

SF 079353 (15)

24

SF 079013 (17)

20

21

Southland Royalty 33056 HBP

9

US KGS

50 Roy

SAN ANTONIO EL PASO

013642 (25)

Koch Ind et al 13642 HBP

SF 079341A (30)

Northwest Pipeline SF 079341A HBP

SF 079013 (17)

Northwest Pipeline San Juan 50 6148

SF 079341A (30)

26

25

30

N.W. Pipe.

29

28

Koch

Koch

2-29 N.W. Pipe-line

T 32 N

NM 013642 (25)

SF 079099A (27)

Meridian

Koch

Meridian

SF 079353 (15)

SF 079341A (30)

35

SF 079048 (34)

Koch Ind. SF 079048A HBP

36

31 Proposed Well

32

33

N.W. Pipe

N.W. Pipeline

El Paso B10938 HBP

El Paso E5361 HBP

El Paso E5843 HBP

Meridian

UTP

ARCO

NW Pipeline

79029 (3)

El Paso E5361 HBP

El Paso HBP

El Paso E5843 HBP

(UNION)

6

5

T 31 N

STATE E5361

78508 (1)

78508 (1)

78510

J. Dawson 78510 HBP

SF 079004 (10)

SAN ANTONIO

Supron

3

4

2

3

(SKELETON)

3852

JAEQUEZ

Union Texas Pet 6035

Union Texas Pet 6150

Supron 3711, 6546

13

2

So. Union

5

UN.Tex 4A 6049 6009

78511 (20)

Northwest Pipeline 78511A HBP

78511 (20)

Northwest Pipeline NM 204-4 HBP

NW Pipe E3868 HBP

J.C. Dawson 78505 HBP

78508 (1)

Northwest Pipeline 78508A HBP

18

Union Texas Pet 5588

-1063

Supron

NW Pipe E5113 HBP

NW Pipe E3904 HBP

So. Union

So. Union

1

8

7

7

14

So. Union

Union Texas

78508 (1)

78511 (20)

J. Dawson 78511 HBP

Meridian Oil 251G

78505 (14)

78505 (14)

78505 (14)

13364



RECEIVED  
JUL 16 '90  
KOCH EXPL CO  
LAND DEPT

KOCH EXPLORATION COMPANY

June 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Meridian Oil Inc.  
PO Box 4289  
Farmington, NM 87499-4289  
Attn: Tom Hawkins

Union Texas Petroleum Corp  
14001 E. Iliff Avenue, #500  
Aurora, CO 80014-1488  
Attn: Susan K. Altes

Northwest Pipeline  
PO Box 58900  
Salt Lake City, UT 84158-0900  
Attn: Darrell Gillen

ARCO Oil and Gas Company  
PO Box 1610  
Midland, TX 79702  
Attn: Wayne Fletcher

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As a result, Koch is notifying all operators of proration or spacing units offsetting the S/2 of said Section 31, and request that you indicate below your waiver of any objection to Koch's unorthodox location.

Should you have any questions regarding this matter, please contact the undersigned at (316) 832-6026.

MERIDIAN OIL INC.

NORTHWEST PIPELINE

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

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

Date: \_\_\_\_\_

Date: \_\_\_\_\_

ARCO OIL AND GAS COMPANY

UNION TEXAS PETROLEUM CORP.

By: *J. K. Manuway*

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

Date: 11 June 1990

Date: \_\_\_\_\_

Very truly yours,

*Janet Kae Kruse*  
Janet Kae Kruse  
Senior Landman

xc: Oil Conservation Commission  
PO Box 2088  
Santa Fe, NM 87501

JKK:es/frtIndcb.

RECEIVED

JUN 18 '90

KOCH EXPL CO  
LAND DEPT



KOCH EXPLORATION COMPANY

June 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Meridian Oil Inc.  
PO Box 4289  
Farmington, NM 87499-4289  
Attn: Tom Hawkins

Union Texas Petroleum Corp  
14001 E. Iliff Avenue, #500  
Aurora, CO 80014-1488  
Attn: Susan K. Altes

Northwest Pipeline  
PO Box 58900  
Salt Lake City, UT 84158-0900  
Attn: Darrell Gillen

ARCO Oil and Gas Company  
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MERIDIAN OIL INC.

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

Date: \_\_\_\_\_

NORTHWEST PIPELINE

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

Date: June 14, 1990

ARCO OIL AND GAS COMPANY

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

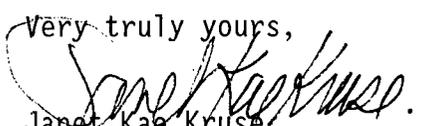
Date: \_\_\_\_\_

UNION TEXAS PETROLEUM CORP.

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

Date: \_\_\_\_\_

Very truly yours,

  
Janet Kae Kruse  
Senior Landman

xc: Oil Conservation Commission  
PO Box 2088  
Santa Fe, NM 87501

JKK:es/frt1ndcb.

P.O. Box 2256 • Wichita, Kansas 67201-2256 • 316/832-5237 • Telecopier 316/832-5390  
4111 E. 37th Street North • Wichita, Kansas 67220

RECEIVED

JUN 7 1990



KOCH EXPLORATION COMPANY

LAND-DENVER

June 4, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Meridian Oil Inc.  
PO Box 4289  
Farmington, NM 87499-4289  
Attn: Tom Hawkins

Union Texas Petroleum Corp  
14001 E. Iliff Avenue, #500  
Aurora, CO 80014-1488  
Attn: Susan K. Altes

Northwest Pipeline  
PO Box 58900  
Salt Lake City, UT 84158-0900  
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MERIDIAN OIL INC.

NORTHWEST PIPELINE

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

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

Date: \_\_\_\_\_

Date: \_\_\_\_\_

ARCO OIL AND GAS COMPANY

UNION TEXAS PETROLEUM CORP.

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

By: *WJ Cozma*

Date: \_\_\_\_\_

Date: *6-27-90*

Very truly yours,

*Janet Kae Kruse*  
Janet Kae Kruse  
Senior Landman

UNICON PRODUCING COMPANY

BY: *WJ Cozma*

DATE: *6-21-90*

xc: Oil Conservation Commission  
PO Box 2088  
Santa Fe, NM 87501

JKK:es/frt1ndcb.



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

OIL CONSERVATION DIVISION

RECEIVED

1000 LINDO DIAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-0170

GREY CABRUTHERS  
GOVERNOR

'90 AUG 21 AM 9 08

Date: 7-26-90

*Mike Stogner*

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

Re: Proposed HC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL X \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 7-10-90

for the KOCH EXPL. Co. GARDNER C #3  
Operator Lease & Well No.

NA-31-32N-8W and my recommendations are as follows:  
Unit, S-T-R

*[Signature]*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

*[Signature]*  
\_\_\_\_\_