

District I  
PO Box 1980, Hobbs, NM 88241 1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-101  
Revised February 10, 1994

Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address: Raptor Resources, Inc. 901 Rio Grande Austin, Tx. 78701		OGRID No. 162791
		API Number 30 - 0 25-35868
Property Code 24671	Property Name State A A/C 2	Well No. 81

' Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	5	22S	36E		2080'	South	1980	West	Lea

s Proposed 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
Proposed Pool 1 Jalmat Tansill Yates 7 Rvrs (Pro Gas)					Proposed Pool 2 Langlie Mattix 7 Rvrs-Q-Grayburg (37240)				

Work Type Code N	Well Type Code G	Cable/Rotary R	Lease type Code S	14 Ground Level Elevation 3593'
16 Multiple	17 Proposed Depth 4100'	18 Formation Tnsl/Yates/7 Rvrs	19 Contractor	20 Spud Date 4/15/01

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	600'	240 sx	SURFACE
7 7/8"	5 1/2"	15.5#	4100'	490 SX	SURFACE

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. Well Location & Acreage Dedication Plat (C-102)
2. Proposed Well Plan
3. Cementing Program
4. BOP/Choke Diagram

Permit Expires 1 Year from Approval  
Date Unless Drilling Underway

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Bill R. Keathly</i>		OIL CONSERVATION DIVISION	
Printed name: Bill R. Keathly		Approved by: <i>[Signature]</i>	
Title: R regulatory Agent for Raptor		Title: <i>[Signature]</i> ENGINEER	
Date: 5-17-01	Phone: (915) 697-1609	Approval Date: MAR 22 2002	Expiration Date:
		Conditions of Approval:	
		Attached	

**Proposed Well Plan**  
**State "A" A/C 2, Well # 81**  
**2080' FSL & 1980' FWL, Sec. 5, T 22S, R 36E, Unit Ltr 'K', Lea Co.**

1. Drill 12 ¼" hole from surface to 600'.
2. Run 8 5/8" 24# casing to 600' cement W/ 240 sx cement with additives to Surface.
3. Drill 7 7/8" hole to 4100'.
4. Run 5 ½" 15.5# casing to 4100', cement W/ 490 sx cement with additives to surface.
5. Perforate the Yates from 3170' to 3379' & 7 Rvrs from 3380' to 3700'.
6. Acid and Frac treatment will be determined after looking at the Logs.
7. Complete and put on production.

**Well Name:** State "A" A/C 2 # 81

**Location:** 2080' FSL & 1980' FWL, Sec 5, T 22S, R 36E, (K) Lea County

**Casing Program:**

**Surface:** 8 5/8" Casing in 12 1/4" Hole at 600 ft.

**Production:** 5 1/2" casing in 7 7/8" Hole at 4100 ft.

**Cementing Program:**

**Surface:**

Lead: 140 sacks Class C Mixed at 11.8 PPG

Additives: 2% CACL2 + 0.25 pps Cello-Flake = 6% Bentonite.

Tail: 100 sacks Class C Mixed at 14.8 ppg

Additives: 2% CACL2

**Production:**

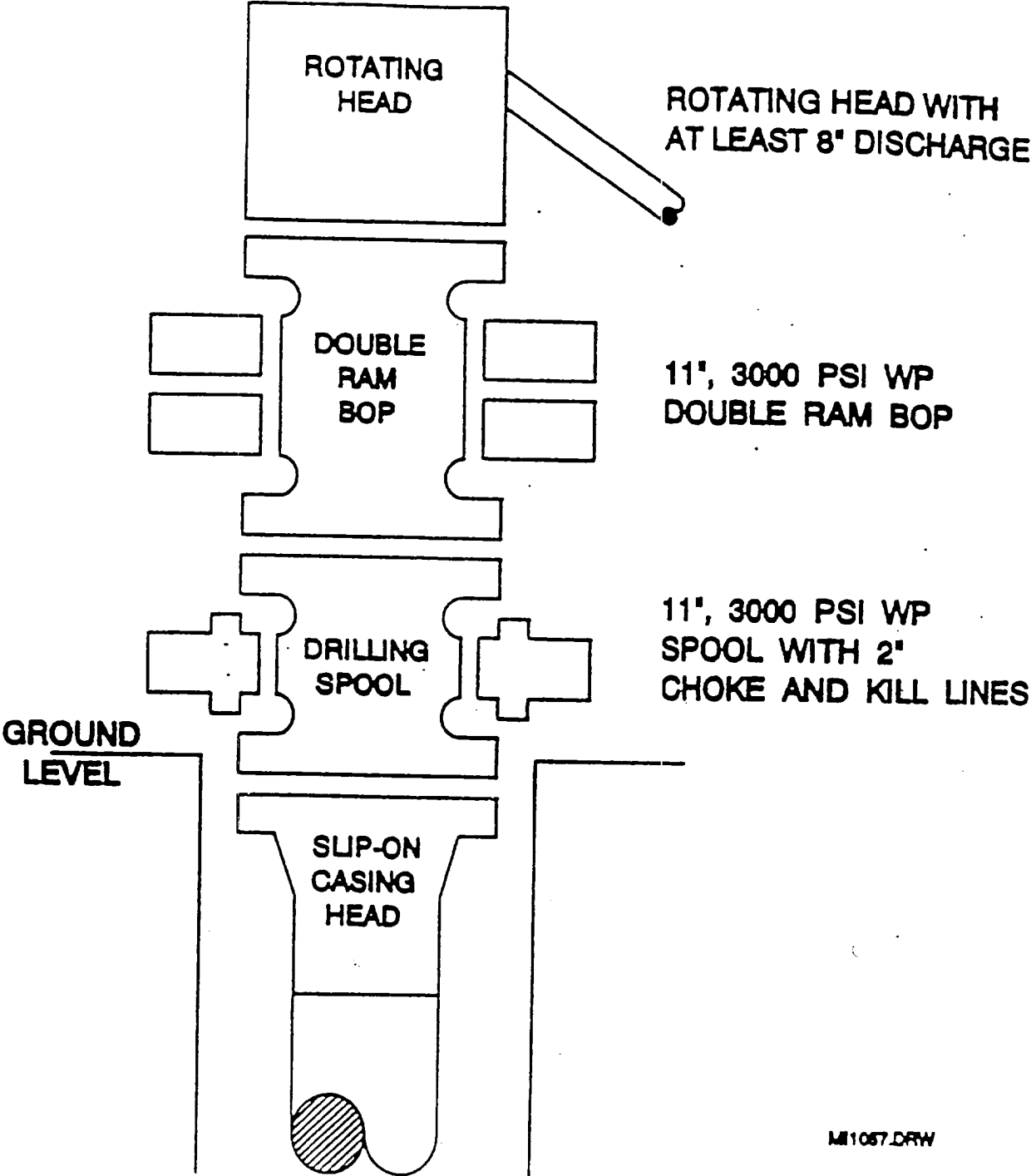
Lead: 390 sacks Class C Mixed at 12.4 ppg

Additives: 35:65 Poz (Fly Ash) = 5% CACL2 + 6% Bentonite

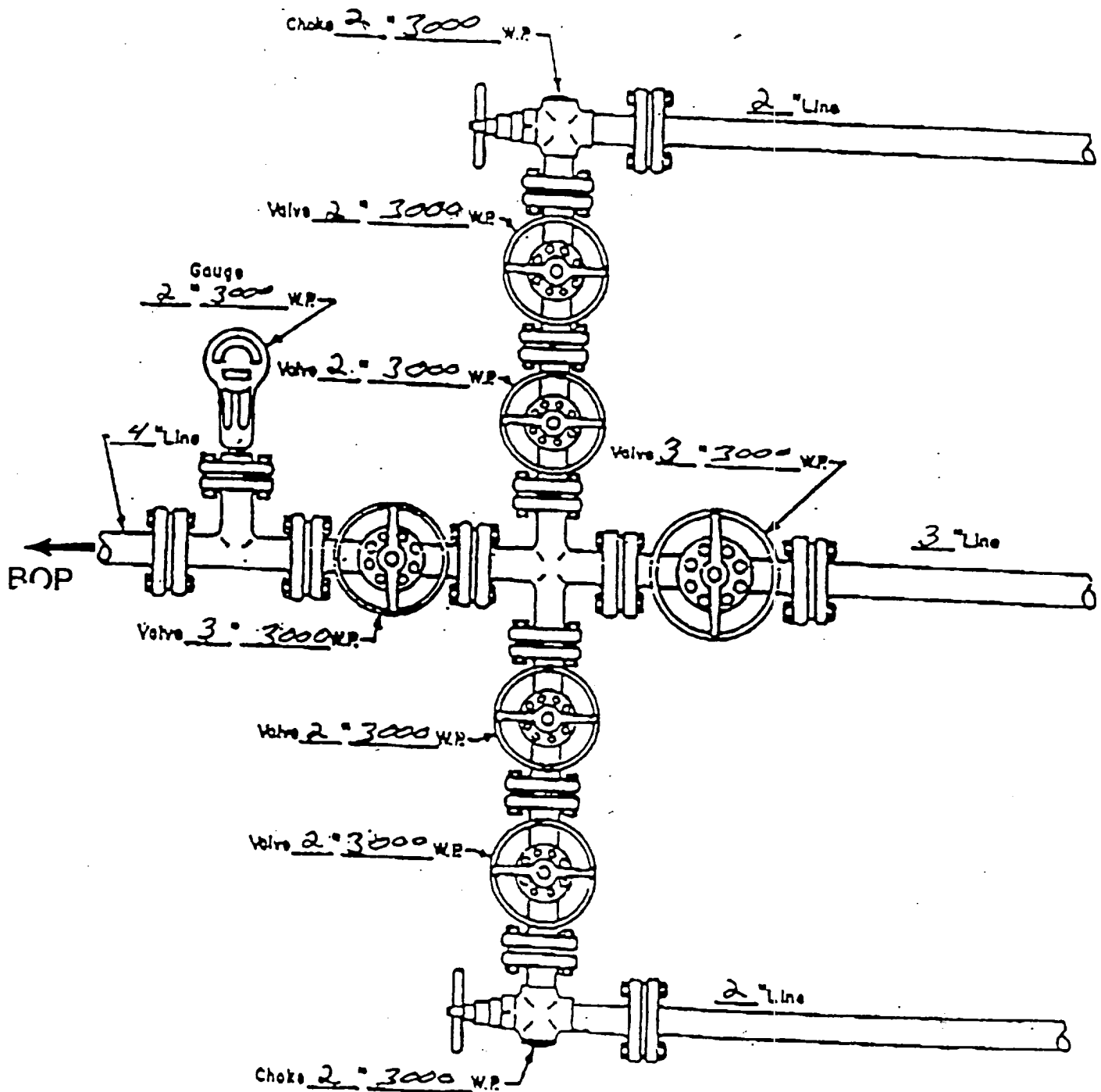
Tail: 100 sacks Class C Mixed at 14.8 ppg

Additives: 3% Potassium Chloride + 2% CD-32 + 0.6% FL-62

# BOP SPECIFICATIONS



# CHOKE MANIFOLD DIAGRAM



MANIFOLD  
3000 #W.P.

- ☒ Manual
- ☐ Hydraulic

DISTRICT I  
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II  
P.O. Drawer 20, Artesia, NM 88211-0719

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 16, 2000  
Submit to Appropriate District Office  
State Lease - 4 Copies  
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DISTRICT III  
1000 Rio Grande Rd., Aztec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87506

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-35868</b>	Pool Code <b>79240</b>	Pool Name <b>Jalmar Tamara Yates 7 Rurs (ReGas)</b>
Property Code <b>24671</b>	Property Name <b>State A A/C 2</b>	Well Number <b>81</b>
OGHD No. <b>162791</b>	Operator Name <b>RAPTOR RESOURCES, INC.</b>	Elevation <b>3593</b>

Surface Location

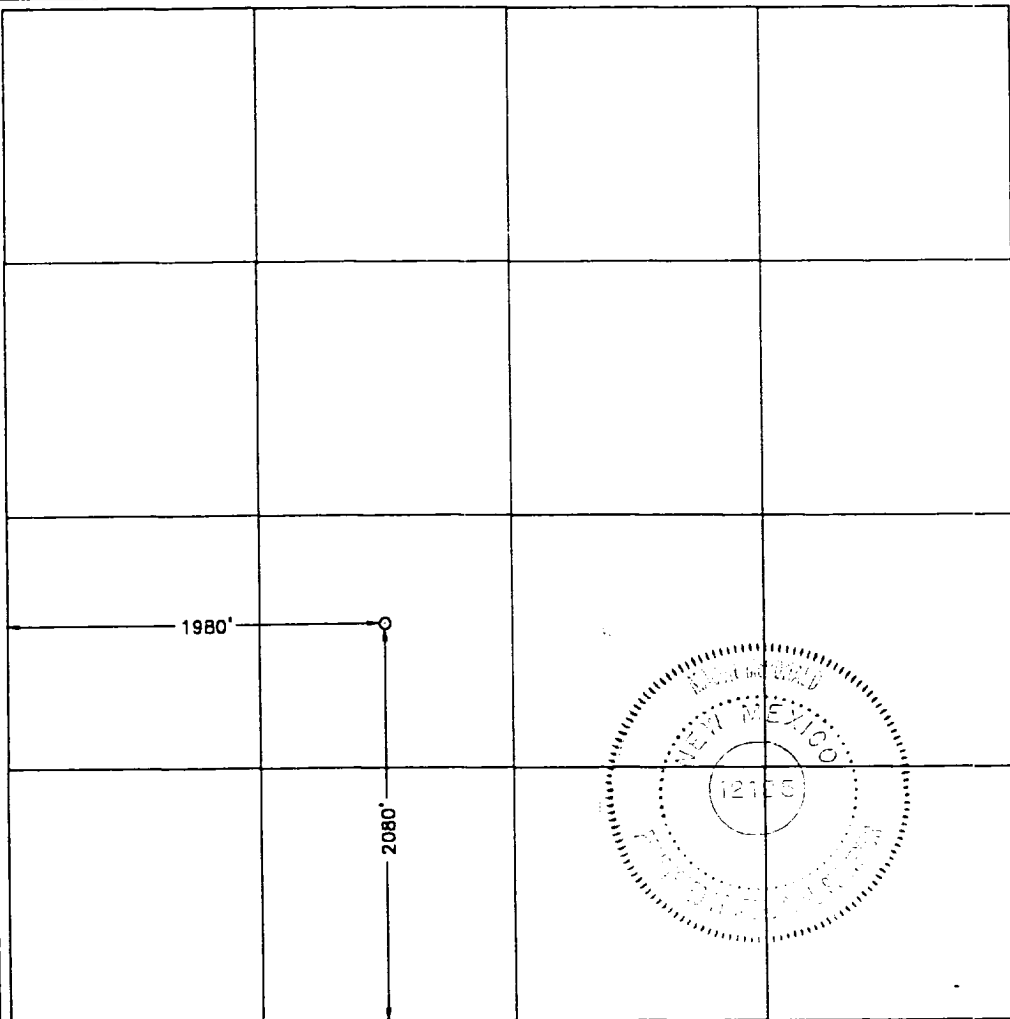
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	5	22 S	36 E		2080	SOUTH	1980	WEST	LEA

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

Dedicated Acres <b>440.50</b> <b>460.50</b>	Joint or Infill	Consolidation Code	Order No. <b>R-11643</b>
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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

				<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  <b>Bill R. Keathly</b> Signature <b>Bill R. Keathly</b> Printed Name <b>Regulatory Agent</b> Title <b>5-17-01</b> Date	
				<b>SURVEYOR CERTIFICATION</b>  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.  <b>January 30, 2001</b> Date Surveyed <b>M2</b> Signature & Seal of Professional Surveyor <b>W.O. Num. 2001-0119-S</b> Certificate No. <b>MACON McDONALD 12185</b>	

District I  
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Revised February 21, 1994

instructions on back

District II  
PO Drawer DD, Artesia, NM 88211-0719

## OIL CONSERVATION DIVISION

Submit to Appropriate District Office

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

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Santa Fe, NM 87504-2088

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PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- <b>35868</b>		2 Pool Code 79240		3 Pool Name Jalmat Tansill Yates 7 Rvrs (Pro Gas)	
4 Property Code 24671		5 Property Name State A A/C 2			
7 OGRID No. 162791		8 Operator Name Raptor Resources			
		6 Well Number 5			
		9 Elevation			

## 10 Surface Location

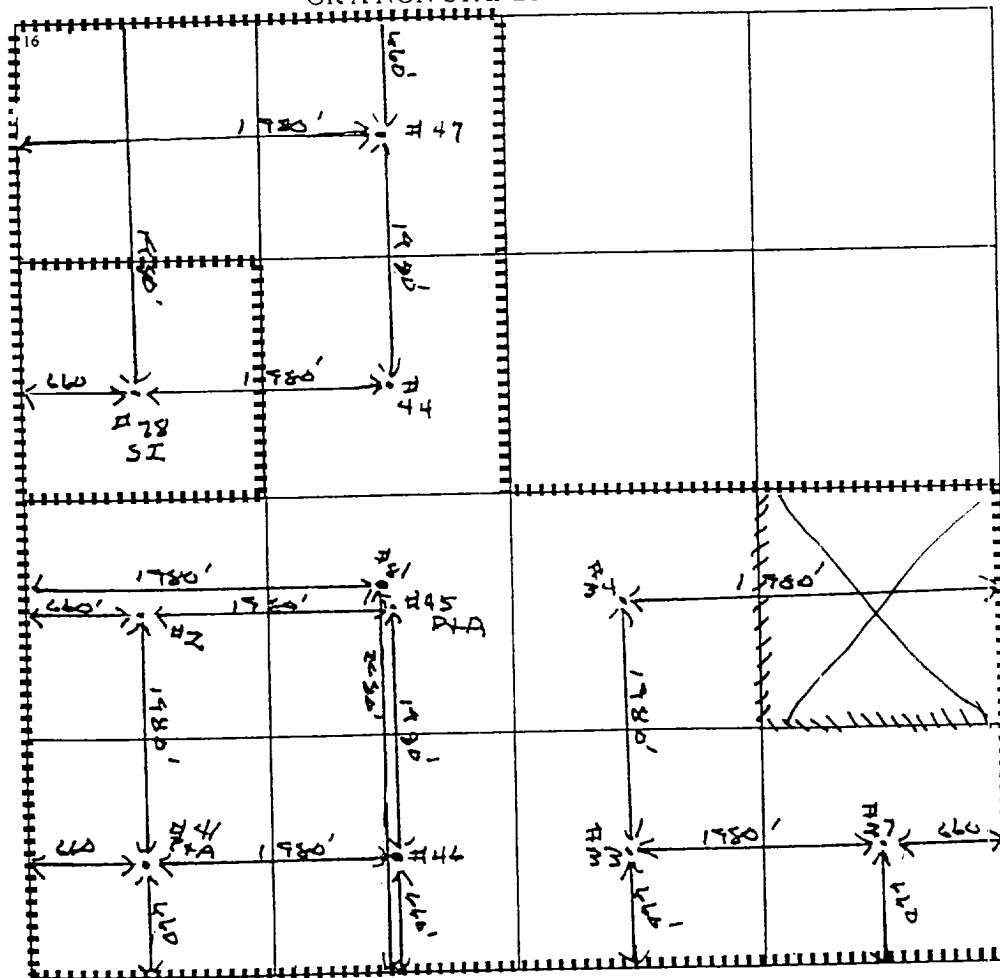
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	5	22S	36E		2080	South	1780	West	Lea

## 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 440.50 400.50	13 Joint or Infill	14 Consolidation Code	15 Order No. R-11643	Applied For
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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



## 17 OPERATOR CERTIFICATION

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

*Bill R. Keathly*

Signature

Bill R. Keathly

Printed Name

Regulatory Agent

Title

5-17-01

Date

## 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

Signature and Seal of Professional Surveyor:

Certificate Number