Fe.m 31:0-3	N.N		1 K https://	RM APPROVED
(July 1992)	UNITED STATES 13	301 W. Grand Ave	nue Expire	B NO. 1004-0136 s: February 28, 1995
DEPAF	RTMENT OF THE INT	Anteria, NM 8821	5. LEASE DESIGNAT	ION AND SERIAL NO.
	EAU OF LAND MANAGEM		NM 15295	
AP	PLICATION FOR PERMIT TO	DRILL OR DEEPEN	6. IF INDIAN, ALLOTT	TES OR TRIBE NAME
1a. TYPE OF WORK			7. UNIT AGREEMEN	
1b. TYPE OF WELL				
	GAS X WELL OTHER	SINGLE MULTIPLE	8. FARM OR LEASE	NAME, WELL NO.
2. NAME OF OPERATOR	forman and Ca	ZONE ZONE 2018910117	C K Fed	eral 3
Gruy Petroleum N 3. ADDRESS AND TELEPHO	-	60	0. API WELL NO.	
	Irving TX 75014 972-401-3111	m Alle	₮ 🐴 30-015-	52947
4. LOCATION OF WELL	(Report location clearly and in accordance with		10 FIELD AND POO	L, OR WILDCAT
	SUBJECT TO I	10 1/2-	White City;	LOCK AND SURVEY
	APPROVAL B	Y STATE 2 S	OR AREA	
	& 1400' FEL BHL 1650' FNL &	10 CA	180/	2. 8 T24S R26E
14. DISTANCE IN MILES AND DI 16 miles South of	RECTION FROM NEAREST TOWN OR POST OFFICE	9292	Eddy	NM
15. DISTANCE FROM PROPO LOCATION TO NEA		16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED	
PROPERTY OR LEAS	SE LINE, T.O 1225	1022.2	TO THIS WELL 640	
(Also to nearest drig. unit I	nte, n'any)	1833.3	20. ROTARY OR CABLE T	001.0
18. DISTANCE FROM PROP TO NEAREST WELL, OR APPLIED FOR, ON	DRILLING COMPLETED,	19. PROPOSED DEPTH 13000'	Rotary	UULS
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		22. APPROX. DATE	WORK WILL START
3483' (	<u>FR</u>		08-01-03	
	PROPOSED CAS GRADE SIZE OF CASING	NG AND CEMENTING PROGRAM	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	H-40 13 3/8"	48 #	300'	490 sx circulate
	ESSI-55 9 5/8"	40 #	1930' WITNES	
7 7/8"	N-80/S-95 5 1/2"	17 #	13000'	1620 sx TOC 2700'
he proposed well w	vill be directionally drilled to a d	epth of 13000' and complete	d as a White City Pen	n; producer.
From the base of th	e surface pipe through the run	ning of production casing, the	e well will be equipped	l with a 5000 - psi BOP
system. We are rec	uesting a variance for the 13	3/8" surface casing from Ons	hore Order No. 2, whi	ch states all casing strings
below the conductor	r, shall be pressure tested to .2	2 psi per foot or 1500 # whic	hever is greater, but r	not to exceed 70% of
the manufactures s	tated maximum internal yield.	Per onshore order 2 the 13 3	/8" 48 # H-40 casing	should be tested at 70%
	nal yield of 1730 # or 1211 #.			
	•	<b>U U</b>		nicipate any pressures
	and are requesting a variance	-		
If proposal is to drill or dee	ESCRIBE PROPOSED PROGRAM: pen directionally, give pertinent data on subs	If proposal is to deepen, give data on pre- urface locations and measured and true ve		
24 SIGNED	ZenoFanis	TITLE Mgr. Ops. Admin	DATE	06-27-03
(This space for Federal or Stale of	fice use)			
PERMIT No.	···· · · · · · ·	APPROVAL [		·
Application approval does not wan CONDITIONS OF APPRO APPROVED BY	ant or certify that the applicant holds legal or equitable tile VAL, IF ANY: /s/ Joe G. Lara	to those rights in the subject lease which would entitle t ACTING TITLE <u>FIELD M</u>	ANAGER DATE	<b>11 2 AUG</b> 2003
GENERAL RE	ss. Section 1001, makes it a crime for an المالي المحكم المحكمة (المحكمة) STIPULATIONS STIPULATIONS	nerits of representations as to any ma	ke to any department A 30 Itter within its jurisdiction. BAD CONTROLLED W	
ATTACHED				

# **Application to Drill**

# Gruy Petroleum Management Co. C & K Federal No. 3 Unit Letter B Section 8 T24S - R26E Eddy County, NM

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In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

- 1 Location: SHL 1225' FNL & 1400' FEL Sec. 8- 24S 26E BHL 1650' FNL & 1450' FWL Sec. 8-24S-26E
- 2 <u>Elevation above sea level:</u> GR 3483'

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- 3 Geologic name of surface formation: Quaternery Alluvium Deposits
- 4 <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5 Proposed drilling depth: 13000'
- 6 Estimated tops of geological markers:

T/Salt	250'	Cisco Canyon	9928
B/Salt	800'	Strawn	10078
Delaware	1450	Atoka	10388
Bone Spring	6168	Morrow	11,158
Wolfcamp	8098	Barnett	11,768

7 Possible mineral bearing formation:

Strawn	Gas
Atoka	Gas
Morrow	Gas

## 8 Casing program:

Hole Size	Interval	Casing OD	Weight	Thread	Collar	Grade
17 1/2"	0-425'	13 3/8"	48	8-R	ST&C	H-40
12 1/4"	0-3200'	9 5/8"	36	8-R	ST&C	J-55
7 7/8"	0-13000'	5 1/2"	17	8-R	ST&C	N-80 / S-95

#### **Application to Drill**

#### Gruy Petroleum Management Co. C & K Federal No. 3 Unit Letter B Section 8 T24S - R26E Eddy County, NM

#### 9 Cementing & Setting Depth:

	13 3/8"	Surface	Set 300' of 13 3/8" H-40 48# ST&C casing. Cement with 490 Sx. Of Class "C" cement + additives, circulate cement to surface.
	9 5/8"	Intermediate	Set 1930' of 9 5/8" J-55 36# ST&C casing., to top of Delaware. Cement in two stages, first stage cement with 1000 Sx. Of Class POZ/C Cement + additives, second stage cement with 200 Sx. Of Class "C" + additives,
	5 1/2"	Production	Signul 300 Commit 12 NF 30 / S-95 17# ST&C casing. Cement in two stages, first stage cement with 1020 Sx. of Class POZ/C Cement + additives. Second stage cement with 600 Sx of Class "C" Estimated top of cement 2700'.
10 <u>Pres</u>	<u>ssure control Equip</u>	oment:	Exhibit "E". A 13 3/8" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000 # annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the

maintained in operable condition and a drift string safety value in the open position will be available on the rig floor. BOP unit will be hydraulically operated. BOP will be nippled up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

#### 11 Proposed Mud Circulating System:

Depth	Mud Wt	Viscosity	Fluid Loss	Type Mud
0 - 300'	9.2 - 9.6	30 - 32	ay lose circ	. Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.
300' - 1930'	9.7 - 10.0	28 - 29	ay lose circ	c.Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.
1930' - 8300'	8.4 - 9.9	28 - 29	NC	Fresh water. Paper for seepage. Lime for pH (9 - 9.5)
8300' - 10000'	8.45 - 8.9	28 - 29	NC	Cut brine. Caustic for pH control.
10000' - 13000'	8.9 - 9.7	29 - 45	NC	XCD Polymer mud system.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.

# **Application to Drill**

Gruy Petroleum Management Co. C & K Federal No. 3 Unit Letter B Section 8 T24S - R26E Eddy County, NM

## 12 <u>Testing, Logging and Coring Program:</u>

- A. Mud logging program: One-man unit from 8000' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DST's, or cores are planned at this time.

### 13 Potential Hazards:

No abnormal pressures or temperatures or H2S gas are expected. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 3000 PSI, estimated BHT 1000.

### 14 Anticipated Starting Date and Duration of Operations:

The road and location construction has been previously completed for the C K Federal 2. Anticipated spud date for C K Federal 3 is 8-1-03. Drilling expected to take 35 - 45 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

### 15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Morrow / Atoka pay will be</u> perforated and stimulated. The well will be tested and potentialed as a gas well.

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
  - A. Characteristics of H2S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H2S detectors, warning system and briefing
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
- 2 H2S Detection and Alarm Systems
  - A. H2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3 Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4 Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5 Well control equipment
  - A. See exhibit "E"
- 6 Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7 Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If location is near any dwelling a closed DST will be performed.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H2S scavengers if necessary.

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DISTRICT [ P.O. Box 1030, Hobbs, Hu des:1-1000

DISTRICT II P.O. Drawar DB, Arisais, NJ 38211-0710

DISTRICT III

1000 Rio Brazos Rd., Aziec, MRI 87410

DISTRICT IV 2.0. BOX 2600, SANTA 22, H.M. 07504-2000

WELL LOCATION AND ACREAGE DEDICATION PLAT

D AMENDED REPORT

#### Pool Mame Pool Code API Number White City; Penn Well Number Property Code Property Name 3 С **K FEDERAL** Operator Name Elevation OGRID No. GRUY PETROLEUM MANAGEMENT CO. 3483' 162683

#### Surface Location

	UL or lot	lo. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	В	8	24–S	26-E		1225	NORTH	1400	EAST	EDDY

#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	8	24-S	26-E		1650'	North	1450'	West	Eddy
Dedicated Acre	s Joint o	r Infill	Consolidation (	Code Or	der No.	L			<u></u>
640	1	'	С						

## 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

	OPERATOR CERTIFICATION
CK Federal 2	I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
CK Federal 2 CK Federal 2 3474.1 1400	Zono Faring
3484.0'	Zeno Farris Printed Name Mgr. Operations Admin
BHL	Title     June 27, 2003
5304	SURVEYOR CERTIFICATION
GEODETIC COORDINATES	I hereby certify that the well location shown on this plat was platted from field notes of cetual surveys made by mo or under my
NAD 1927 Y = 449589.6 X = 506903.1 1780 ' LAT = 32 14 09.73 'N	supervision and that the same is true and correct to the best of my bisis. February 28, 2003
LONG.= 10418'39.63°W CK Federal 1	Date Surveyed AWB Signature & Seal of Professional Surveyor
1780	Barn Blacon 3/4/03
	Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12841

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State of New Mezico

Shergy, Minerals and Natural Resources Department.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fas Lease - 3 Copies

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BO.04 2	trae Orig Union-Port El 1999 _	R.M. 19836 at Themes, David Pett etal., 9-1-23	Breck Jenning		ounty, NM

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VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>8</u> TWP.<u>24-S</u> RGE. <u>26-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1225'FNL & 1400'FEL</u> ELEVATION <u>3483'</u> OPERATOR <u>GRUY PETROLEUM MANAGE</u>MENT CO. (505) 393-3117 LEASE <u>C K FEDERAL</u>

Exhibit "B"



LOCATION VERIFICATION MAP

