Form 3160-3 (July 1992)

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

FORM APPROVED

OMB NO. 1004-0136

UNITED STATES DEPARTMENT OF THE INTER

Artesia, NM 88210

Expires: February 28, 1995

NMNM	0/18/10
INIVINIVI	74042

BUREAU OF LAND MANAGEM	ENT	, - 4		NMNM 9484	2	
		1, 1		6. IF INDIAN, ALLOTTES OF	R TRIBE NAME	
APPLICATION FOR PERMIT TO	DRILL OF	R DEEPEN] :	1	
1a. TYPE OF WORK DRILL X	DEEPEN			7. UNIT AGREEMENT NAM	E :	······································
OIL GAS WELL OTHER	SINGLE ZONE	MULTIPLE ZONE		Pending 8. FARM OR LEASE NAME	WELL NO	
2. NAME OF OPERATOR Gruy Petroleum Management Co.	ZONE	ZONE		Gadwall 18 Fe	ederal Com No. 1	
3. ADDRESS AND TELEPHONE NO.	:			9. API WELL NO.	*	
P.O. Box 140907 Irving TX 75014 972-401-3111		34567897		30 - 0/5		
4. LOCATION OF WELL (Report location clearly and in accordance with a	ny State requirem	nerita:")	72	Undesignated M		
	3037	JUL 2004	1374	11. SEC. T.,R.,M., BLOCK A	AND SURVEY	
850' FNL & 1490' FWL Section 18-25S-27E	29	RECEIVE	151	Sec. 18	T25S R27E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*	182	OCD - ARTESIA	67	12, COUNTY OR PARISH	13. STATE	
17 miles South of Carlsbad		7	77/	Eddy	NM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	16. NO. OF ACE	SECTIVE SECTION	YNO. OF	ACRES ASSIGNED	•	
PROPERTY OR LEASE LINE, T.O (Also to nearest drig. unit line, if any) 850'	15	9.02		W/2 320	•	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED,		19. PROPOSED DEPTH	20. 1	ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON THIS LEASE, FT.	NA	13000'		Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3187' GR CARLSBAI	O CONTRO	LLED WATER BA	SIN	22. APPROX. DATE WORK 10-15-04	WILL START	

PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SIZE OF HOLE SETTING DEPTH GRADE, SIZE OF CASING **WEIGHT PER FOOT** 17-1/2" J-55 13 3/8" 400' WITNESS 490 sx circulate 54.5 # 9 5/8" 1900' 12 1/4" J-55 40 # 1500 sx circulate 10000' 8 3/4" P-110 7" 950 sx circulate 26# 7" 9500' - 13000' 160 sx TOC 9500 P-110 4 1/2" liner 11.6 #

From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 - psi BOP system. We are requesting a variance for the 13 3/8" surface casing and BOP testing from Onshore Order No. 2, which states all casing strings below the conductor, shall be pressure tested to .22 psi per foot or 1500 # whichever is greater, but not to exceed 70% of the manufactures stated maximum internal yield. During the running of the surface pipe and the drilling of the intermediate hole we do not anticipate any pressures greater than 1000 # and are requesting a variance to test the 13 3/8" casing and BOP system to 1000 # psi, and use rig pumps instead of an independent service company.

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.

SIGNED	ZenoFaris	TITLE Mgr. Ops. Admin		DATE	06-02-04				
(This space for Federal o	r State office use)			·*-					
PERMIT No.		APPROVAL DATE							
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights instance which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF, ANY: APPROVED BY Solve G. Lara TITLE TITLE TO THE PROVED BY DATE APPROVED BY ORGANICATION TO THE TITLE TO THE PROVED BY THE PROPERTY OF THE PR									
APPROVED BY /S/ Joe G. Lara		TITLE	TITLE FIELD MANAGER		N. W IIII 2004				
•	•	— See Instructio	ons On Reverse Side						

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 APPRO United States By Face Tichous or fraudulent statements or representations as to any matter within its jurisdiction.

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

March 12, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \(\sigma\) No \(\Sigma\)

Type of action: Registration of a pit	or below-grade tank Closure of a pit or below	v-grade tank	
Operator: Gruy Petroleum Management Co. Telephone: Address: P.O. Box 140907, Irving, Tx 75014-0907	972-443-6489e-mail address: zfarris@magnuml	hunter com	
acility or well name: Gadwall 18 Federal Com # 1API #:	117 - 0-10: C - 5:- 18	₹ 258 ₽ 27E	
	357.54 W NAD: 1927 ⊠ 1983 ☐ Surfac		ate 🗌 Private 🔲 Indian 🗍
Pit [ype: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐ Liner type: Synthetic ☑ Thickness 12 mil Clay ☐ Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes I		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) 0 points	RECEIVED
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points)	JUN 0 9 2004
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet	(20 points) (10 points)	
	Ranking Score (Total Points)	-0-	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite ☐ offsite ☐ If offsite, name of facility	(3) Attach a general description of remedial ow ground surfaceft. and attach sa	action taken including imple results. (5) Attac	remediation start date and en h soil sample results and a
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines , a Date: 7-08-04 Printed Name/Title Zeno Farris Manager Operations Administration Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	a general permit [], or an (attached) alternative Signature [] Compared the content of liability should the content of the co	e OCD-approved plan	taminate ground water or
Approval: DalUN 9 2004 Printed Name/Title	SignatureSignature		

State of New Mexico

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

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

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

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088	WELL LOCATION AND A	CREAGE DEDICATION P	LAT AMENDED REPORT
API Number	Pool Code	Poc	ol Name
		Undesignated; I	Morrow Wildcat
Property Code	Prope	rty Name	Well Number
	GADWALL "18"	FEDERAL COM.	1
OGRID No.	Opera	tor Name	Elevation
162683	GRUY PETROLEUM	MANAGEMENT CO.	3187'

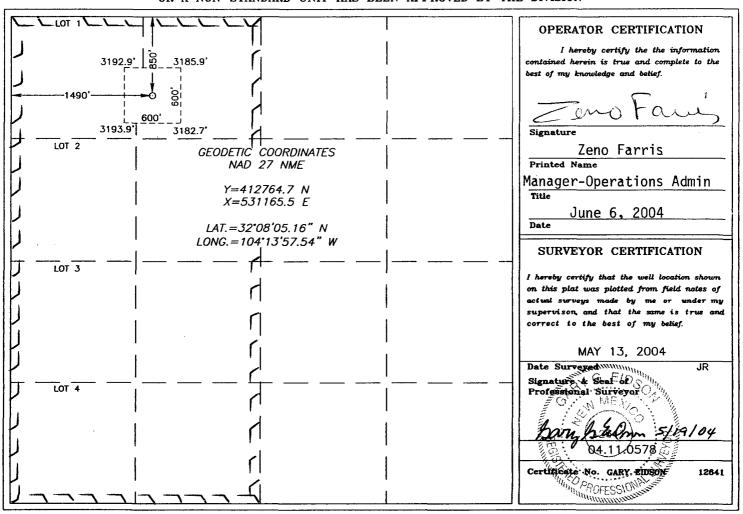
Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	С	18	25-S	27-E		850'	NORTH	1490'	WEST	EDDY

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	Joint o	r Infill C	onsolidation (Code Or	der No.				
317.88	N		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



Application to Drill

Gruy Petroleum Management Co. Gadwall 18 Federal Com No. 1 Unit Letter C Section 18 T25S - R27E Eddy County, NM

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

1 Location:

850' FNL & 1490' FWL Sec. 18-25S 27E

2 Elevation above sea level:

GR 3187'

3 Geologic name of surface formation:

Quaternery Alluvium Deposits

4 Drilling tools and associated equipment:

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"	0-400'	13 3/8"	54.5	8-R	ST&C	J-55	_
12 1/4"	0-1900'	9 5/8"	40	8-R	ST&C	J-55	
7 7/8"	0-10000'	7"	26	8-R	ST&C	P-110	
7"	9500' - 13000'	4 1/2"	11.6	8-R	ST&C	P-110	

Application to Drill

Gruy Petroleum Management Co. Gadwall 18 Federal Com No. 1 Unit Letter C Section 18 T25S - R27E Eddy County, NM

9 Cementing & Setting Depth:

13 3/8"	Surface	Set 400' of 13 3/8" J-55 54.5 ST&C casing. Cement with 490 Sx. Of Premium Plus cement + additives, circulate cement to surface.
9 5/8"	Intermediate	Set 1900' of 9 5/8" J-55 40# ST&C casing. Lead with 1000 Sx. of Interfill C Cement + additives, tail with with 500 Sx. Of Premium Plus + additives, circulate cement to surface.
7"	Intermediate	Set 10000' of 7" P-110 26# ST&C casing. Cement in two stages, first stage cement with 550 Sx. of Class Interfill H/Super H Cement + additives. Second stage cement with
4 1/2"	liner	400 Sx of Interfill H/Super H, circulate cement to surface Set 3500' of 4 1/2" P-110 11.6 # ST&C liner from 9500' to 13000'. Cement iwith 160 sx of Super H. TOC 9500'.

10 Pressure control Equipment:

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 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" & 7" 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 - 400'	8.4 - 8.6	30 - 32	May lose circ.	Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.
400' - 1900'	9.7 - 10.0	28 - 29	May lose circ	Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.
1900' - 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.
Gadwall 18 Federal Com No. 1
Unit Letter C Section 18
T25S - R27E Eddy County, NM

12 Testing, Logging and Coring Program:

- 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 4000 PSI, estimated BHT 190.

14 Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. 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>Strawn / Morrow / Atoka pay will be perforated and stimulated</u>. The well will be tested and potentialed as a gas well.

Gruy Petroleum Management Co. Gadwall 18 Federal Com No. 1 Unit Letter C Section 18 T25S - R27E Eddy County, NM

- 1 Existing Roads: Area maps, Exhibit "B" is a reproduction of Lea Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From the intersection of Eddy County road # 720 (Blackriver Village Rd) and Eddy County Road # 742 (John C Forehand Rd), go south 6.8 miles on County Road # 742 to location. The well is on the east side of the road.
- 2 NO PLANNED ACCESS ROADS:
- 3 LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A"

A. Water wells - Hackberry well in 13 25S 26E

B. Disposal wells - None known

C. Drilling wells - None known

D. Producing wells - As shown on Exhibit "A"

E. Abandoned wells - As shown on Exhibit "A"

Gruy Petroleum Managément Co. Gadwall 18 Federal Com No. 1 Unit Letter C Section 18 T25S - R27E Eddy County, NM

4 If, on completion this well is a producer Gruy Petroleum Management Co. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry Notice.

5 LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6 SOURCE OF CONSTRUCTION MATERIAL:

If possible construction will be obtained from the excavation of drill site, if additional material is needed it will be purchased from a local source and transported over the access route as shown on Exhibit "C".

7 METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pit.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for breaking out. In the event that drilling fluids do not evaporate in a reasonable time they will be hauled off by transports and be disposed of at a state approved disposal facility. Later pits will be broken out to speed drying. Water produced during testing will be put in reserve pits. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

8 ANCILLARY FACILITIES:

No camps or airstrips to be constructed.

Gruy Petroleum Management Co.
Gadwall 18 Federal Com No. 1
Unit Letter C Section 18
T25S - R27E Eddy County, NM

9 WELL SITE LAYOUT

- A. Exhibit "D" shows location and rig layout.
- This exhibit indicates proposed location of reserve and trash pits; and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be lined.
- D. The reserve pit is to be lined with PVC or polyethylene liner. The pit liner will be 12 mils thick. Pit liner will extend a minimum, 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10 PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountered to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

Gruy Petroleum Management Co.
Gadwall 18 Federal Com No. 1
Unit Letter C Section 18
T25S - R27E Eddy County, NM

11 <u>OTHER INFORMATION:</u>

- A. Topography consists of a sloping plane with loose tan/brown soils. Vegetation is mainly yucca, mesquite, creosote, and various grasses.
- B. The wellsite is on surface owned by The United States Department of the Interior, Bureau of Land Management. The land is used mainly for cattle ranching, recreational use, and oil and gas production.
- C. An Archaeological survey will be conducted on the location and proposed roads, and this report will be filed with the Bureau of Land Management in the Carlsbad BLM office.
- D. There are no known dwellings within 1 1/2 miles of this location.

12 OPERATORS REPRESENTATIVE:

Gruy Petroleum Management Company P.O. Box 14097 Irving, TX 75014 Office Phone: (972) 443-6489

Zeno Farris

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 which currently exit; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Gruy Petroleum Management Company contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME:	Zenotany
DATE:	6/2/2004
TITLE:	Manager, Operations Administration



Gruy Petroleum Management Co.600 East Las Colinas Blvd. • Suite 1100 • Irving, TX 75039 • (972) 401-3111 • Fax (972) 443-6450 Mailing Address: P.O. Box 140907 • Irving, TX 75014-0907

A wholly-owned subsidiary of Magnum Hunter Resources, Inc., a NYSE company MHR

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Bureau of Land Management 2909 West 2nd Street Roswell New Mexico 88201-2019

Attn: Ms. Linda Askwig

Gruy Petroleum Management Co. accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land, or portion thereof, as described below:

Lease No.:

NMNM - 94842

Legal Description:

W/2 Sec 18, T25S-R27E

Containing 320 acres, Eddy County New Mexico

Formation (S):

Morrow/Atoka/Strawn

Bond Coverage:

Nationwide BLM Bond

BLM Bond File No.: NM 2575

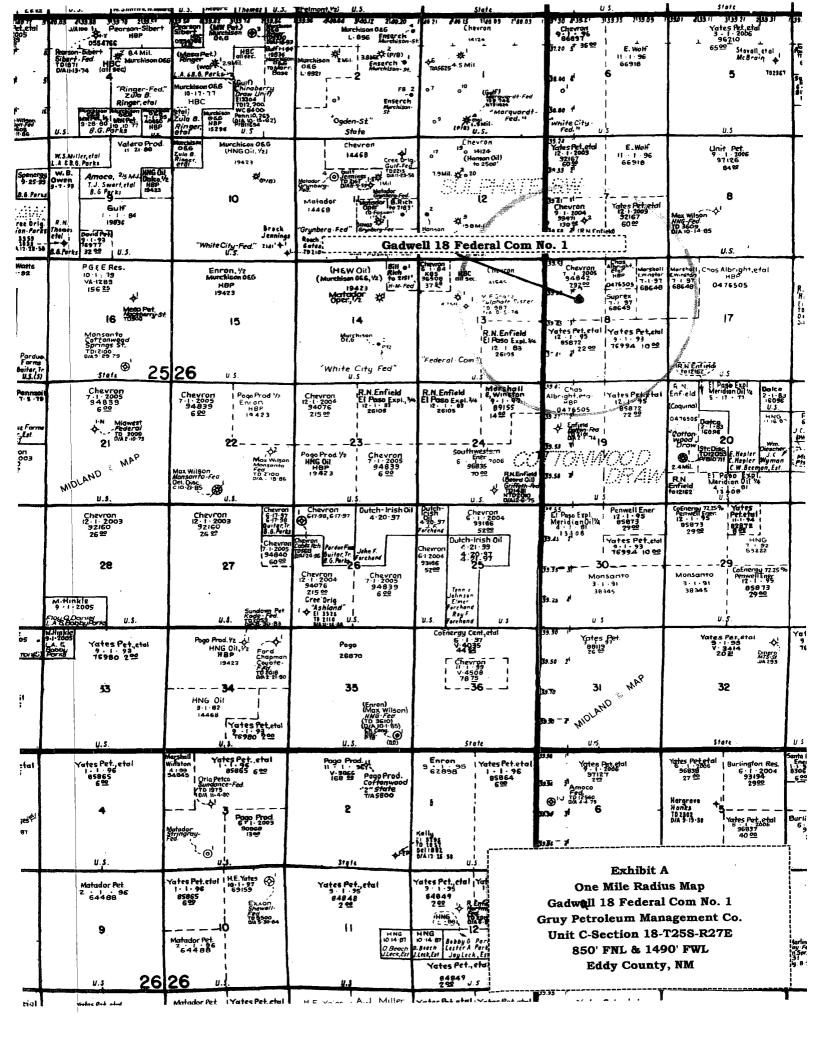
Authorized Signature: Zew Farris

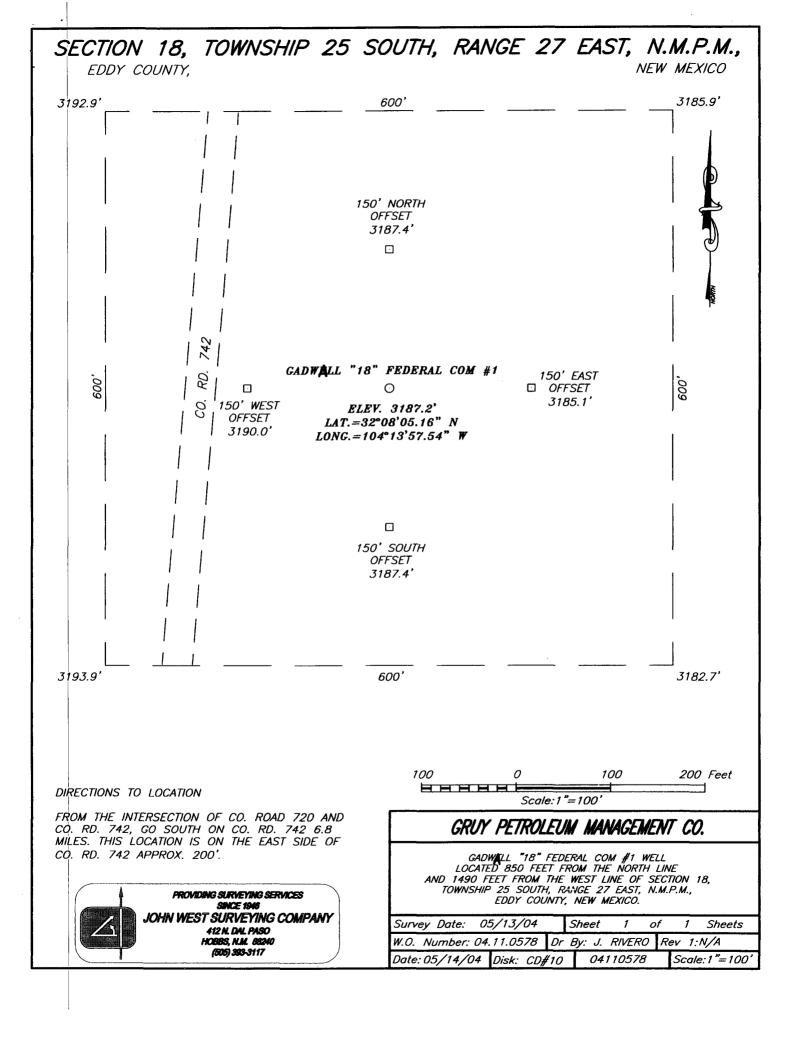
Representing Gruy Petroleum Management Co.

Name: Zeno Farris

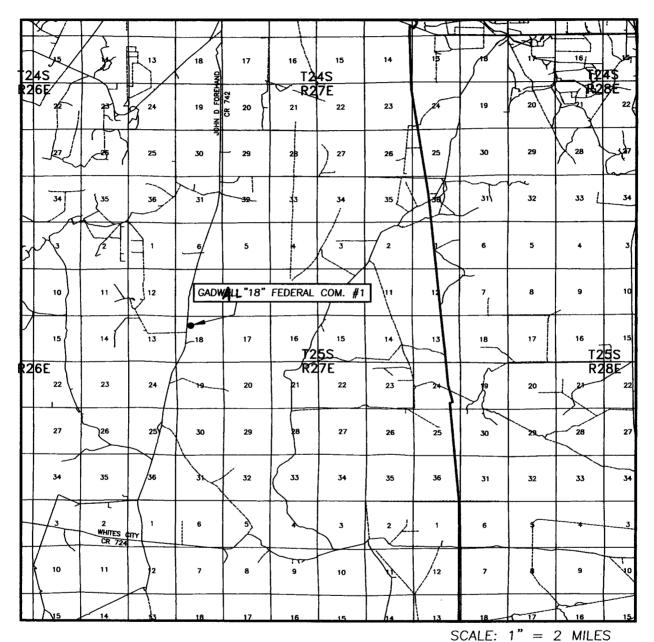
Title: Manager, Operations Administration

Date: 06/02/04





VICINITY MAP



SEC. <u>18</u> TW	/P. <u>25-S</u> RGE. <u>27-E</u>	
SURVEY	N.M.P.M.	
COUNTY	EDDY	
DESCRIPTION_	850' FNL & 1490' FW	/L
ELEVATION	3187'	
OPERATOR	GRUY PETROLEUM MANAGEMENT CO.	

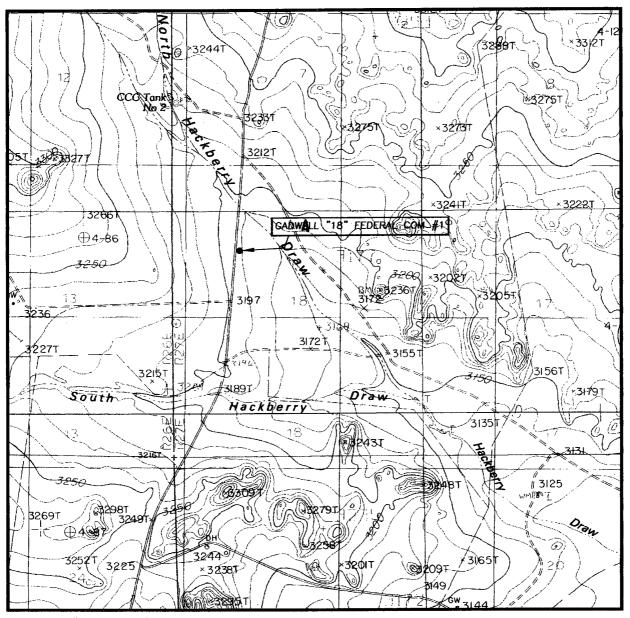
LEASE GADWALL "18" FEDERAL COM Exhibit B



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (506) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

BOND DRAW, N.M.

CONTOUR INTERVAL: BOND DRAW, N.M. - 10'

SEC. 18 TWP. 25—S RGE. 27—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 850' FNL & 1490' FWL

ELEVATION 3187'

GRUY PETROLEUM

OPERATOR MANAGEMENT CO.

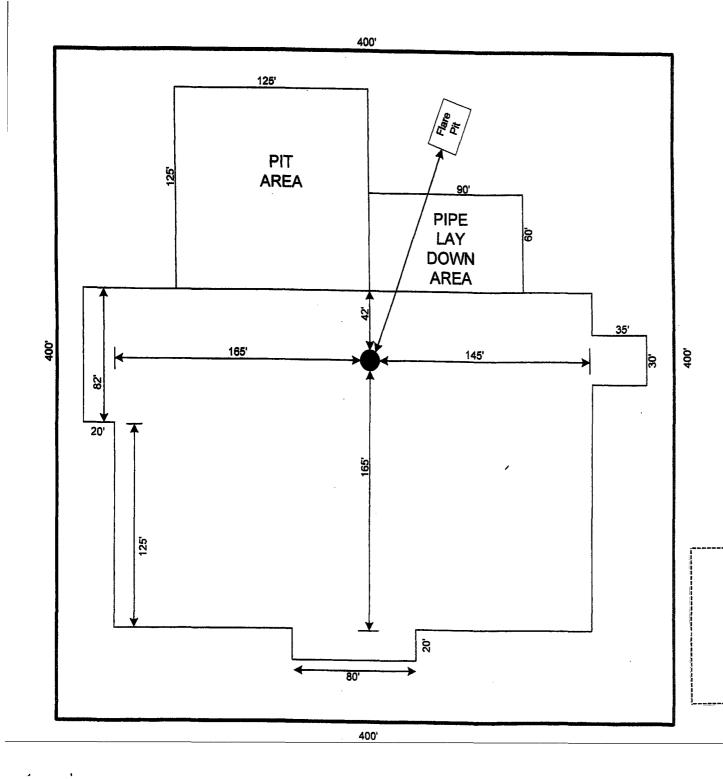
LEASE GADWALL "18" FEDERAL COM

U.S.G.S. TOPOGRAPHIC MAP



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117

Exhibit C



RIG # 80

GRUY PETROLEUM
MANAGEMENT COMPANY
IRVING TEXAS

SCALE 1"=60'

Exhibit D
Rig Layout Plan
Gadwall 18 Federal Com No. 1
Gruy Petroleum Management Co.
Unit C-Section 18-T25S-R27E
850' FNL & 1490' FWL
Eddy County, NM

