ar s. iorsi.

A首任SIA, NW 3016 SUBMIT IN TRIPLICATE*

FORM APPROVED

C1512

Form 3160-3

(July 1992)

PERMIT No.

APPROVED BY

UNITED STATES

OMB NO. 1004-0136

(Other instructions on

Expires: February 28, 1995

DEPAF	RTMENT OF THE IN-	TERIOR	reverse s	de)	5. LEASE DESIGNATION	AND SERIAL NO.
	AU OF LAND MANAGE				NMNM -9130	868039
AP	PLICATION FOR PERMIT T	O DOLL OR	DEEDEN		6. IF INDIAN, ALLOTTES	OR TRIBE NAME
1a. TYPE OF WORK		O BRILL OR	DEEPEN			
1b. TYPE OF WELL	DRILL X	DEEPEN [7. UNIT AGREEMENT NA	AME
OIL [GAS 🔀	SINGLE	MULTIPLE		Pending	26601
WELL 2. NAME OF OPERATOR	WELL OTHE	R ZONE	ZONE		8. FARM OR LEASE NAM	ME WELL NO.
Gruy Petroleum M	Management Co.	23			l.	ederal 5 Com No. 2
3. ADDRESS AND TELEPHO	ONE NO.			·	9. API WELL NO.	
P.O. Box 140907	Irving TX 75014 972-401-3111	l			30-015-	1570
4. LOCATION OF WELL	(Report location clearly and in accordance with	h any State requiremen	nts.*)		10. FIELD AND POOL, O	R WILDCAT
	Undes. Shi	UGGAT M	Ozrews No	ath	- Carriery Chamber	
		•	•		11. SEC. T.,R.,M., BLOCK	K AND SURVEY
660' FSL & 1650	FEL II.				OR AREA	T100 D21F
	RECTION FROM NEAREST TOWN OR POST OFFICE	E*			12. COUNTY OR PARISH	T18S R31E
6.2 miles Southeas	st of Loco Hills				Eddy	NM
15. DISTANCE FROM PROPO		16. NO. OF ACRE	S IN LEASE	17. NO. 0	OF ACRES ASSIGNED	11111
PROPERTY OR LEAS	SE LINE, T.O			TO THIS \		
(Also to nearest drlg. unit li	ine, if any) 990'	160			320.04	
18. DISTANCE FROM PROPO	DSED LOCATION* DRILLING COMPLETED.	1	9. PROPOSED DEPTH	20.	ROTARY OR CABLE TOOL	S
OR APPLIED FOR, ON	· · · · - · · · · · · · · · · · · · · ·					
	' 29	70'	12500'		Rotary	
21 ELEVATIONS (Show whet	ther DF, RT, GR, etc.)		Anie allas esse		22. APPROX. DATE WOR	RK WILL START*
3707'				A. Sec	1_15_01	
23		SING AND CEME	NTING PROGRAM	Л		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGH	T PER FOOT	SET	TING DEPTH	QUANTITY OF CEMENT
17-1/2"	H-40 13 3/8"	48#	•	55	0'	465 sx circulate
11"	K-55 8 5/8"	24 #		32	00'	995 sx circulate
7 7/8"	N-80/S-95 5 1/2"	17 #		12	500'	860 sx TOC 8500'
he proposed well w	vill be drilled to a depth of 125	00' and comp	leted as a Turk	ey Tracl	k Morrow North (A	toka/Morrow) producer.
rom the base of the	e surface pipe through the ru	nning of produ	iction casing, th	e well w	vill be equipped wi	ith a 5000 - psi BOP
system.		Est	TOC To he	cha	nged To Cove	TO ENTS AND
y sterri.	122	2324 2810d	Zone, Co	عولا في الا	TION WIZERS	Ferris 1/24/01
	2023	13562		PPRO	VAL SUBJECT	TO BUN
	/ <u>\$</u> *	★ ``````		CNEC	AL DECUIDEM	FASTO AND
		is 2666	26	AFIAEU SEIGEU	AL DEGUIDEM	EM 19 VUD
	€ RE	CEIVED	30	PLECIA	IL STIPULATIO	NS
	是 OCD	ARTESIA	<u></u>		- P	
	ESCRIBE PROPOSED PROGRAM:	If proposal is to d	leepen, give data on pro	esent produ	ictive zone and proposed i	new productive zone
If proposal is to drill or deep	pen directionally, give pertinent data on sul	osurface locations ar	id measured and true v	ertical dept	hs. Give blowout prevente	er program, if any
SIGNED	everation	B8 L BIFLE	Mgr. Ops. Admir	1	DATE	12-18-00
(This space for Federal or State of	ffice use)					

APPROVAL DATE

DATE

TITLE

Application approval does not warrant or certify that 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:

State of New Mexico

Energy, Minerais 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

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87604-2068

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 86500	Pool Name Turkey Track Morrow, Nort	h
Property Code 162683		rty Name 5 FEDERAL Com	Well Number
OGRID No.	•	tor Name MANAGEMENT CO.	Elevation 3707

Surface Location

							<u> </u>			_
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	1
0	5	18 S	31 E		660'	SOUTH	1650	EAST .	EDDY	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townsh	ip	Range	Lot	Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Cor	n solidat ion (Code	Ore	der No.				
320.04		Υ		Р							

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

LOT4	LOT 3	1012	LOT	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my inevoledge and beilef.
39.97 AC	39.99 AC	40.01 AC	40.03 AC	Zeno Faris
		Magnum Federal	5 Com 1	Zeno Farris Printed Name Mgr. Operations Admin. Title 12-18-00
		12	-	SURVEYOR CERTIFICATION I hereby certify that the well legation shown
		2970'		on this plat was platted from field notes of actual europe made by me or under my supervisor, and that the same is true and correct to the best of my belief:
		Magnum Federa	1 5 Com 2	NOVEMBER 22, 2000 Date Surreyed AWB Signature & Seal of Professional Surveyor
		3710	3708	bary & 200 0/5/00 00-11-1486
		3708	3706	Cartificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641



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., an American Stock Exchange company

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 91308

Legal Description:

E/2 Sec 5, T18S-R31E

Containing 320.00 acres, Eddy County New Mexico

Formation (S):

Atoka - Morrow

Bond Coverage:

Nationwide BLM Bond

BLM Bond File No.: NM 2575

Authorized Signature:

Representing Gruy Petroleum Management Co.

Leng Fares

Name: Zeno Farris

Title: Manager, Operations Administration

Date: 12/18/00

Application to Drill

Gruy Petroleum Management Co.
Magnum Federal 5 Com 2
Unit Letter O Section 5
T18S - R31E 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: 660' FSL & 1650' FEL Sec. 20 18S 29E

2 Elevation above sea level: GR 3707'

3 Geologic name of surface formation: Quaternery Aeolian 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: 12500'

6 Estimated tops of geological markers:

T/Salt	250'	Wolfcamp	8700'
B/Salt	800'	Cisco Canyon	9700'
Yates	1050'	Strawn	9900'
Queen	1975'	Atoka	10450'
Grayburg	2350'	Morrow	10650'
San Andres	2815'	Mississipan	11400'

7 Possible mineral bearing formation:

Wolfcamp Oil Atoka Gas Morrow Gas

8 Casing program:

 Hole Size	Interval	Casing OD	Weight	Thread	Collar	Grade
17 1/2"	0-550'	13 3/8"	48	8-R	ST&C	H-40
11"	0-3200'	8 5/8"	24	8-R	ST&C	K-55
7 7/8"	0-12500'	5 1/2"	17	8-R	ST&C	N-80 / S-95

Application to Drill

Gruy Petroleum Management Co.
Magnum Federal 5 Com 2
Unit Letter O Section 5
T18S - R31E Eddy County, NM

9 Cementing & Setting Depth:

13 3/8"	Surface	Set 550' of 13 3/8" H-40 48# ST&C casing. Cement with 465 Sx. Of Class "C" cement + additives, circulate cement to surface.
8 5/8"	Intermediate	Set 3200' of 8 5/8" K-55 24# ST&C casing. Cement in two stages, first stage cement with 795 Sx. Of Class POZ/C Cement + additives, second stage cement with 200 Sx. Of Class "C" + additives, circulate cement to surface.
5 1/2"	Production	Set 12500' of 5 1/2" NP-80 / S-95 17# ST&C casing. Cement with 860 Sx. of Class POZ/C Cement + additives. Estimated top of cement 8500'.

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 8 5/8" casing and will be operated at least once a day while drilling and the blind

11 Proposed Mud Circulating System:

Depth	Mud Wt	Viscosity	Fluid Loss	Type Mud
0 - 450'	8.7 - 9.2	32 - 34	ay lose circ	Eresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.
400' - 3200'	10 - 10.3	28 - 29	ay lose cir	Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.
3200' - 8300'	1/8/00	28 - 29	NC	Fresh water. Paper for seepage. Lime for pH (9 - 9.5)
8300' - 10000'	9.2 - 9.4	28 - 29	NC	Cut brine. Caustic for pH control.
10000' - 12500	9.2 - 10.6	32 - 34	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.

Magnum Federal 5 Com 2

Unit Letter O Section 5

T18S - R31E 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 <u>2500</u> PSI, estimated BHT <u>1000</u>.

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 <u>25 - 30</u> 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</u> will be perforated and stimulated. The well will be tested and potentialed as a gas well.

Hydrogen Suifide Drilling Operations Plan

- 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 telephoned 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.

Hydrogen Sulfide Drilling Operations Plan

- 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.

Gruy Petroleum Management Co.

Magnum Federal 5 Com 2

Unit Letter O Section 5

T18S - R31E 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. Go 5miles east of Loco Hills or 1/2 mile West of junction 529/82. Mile marker 138 Hwy 82. Turn South on 222 (Shugart Road) South 2.6 miles. Turn West 3/10 mile. East into location.
 - C. Construct power lines and lay pipelines that will be necessary to produce this lease along road R-O-W.
- 2 PLANNED ACCESS ROADS: No new access roads planned.
- 3 LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A"

A. Water wells - None known

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 Management Co.
Magnum Federal 5 Com 2
Unit Letter O Section 5
T18S - R31E 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.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holes with a minimum depth of 10'. These holes will be covered during drilling and will be back filled upon completion. 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.
Magnum Federal 5 Com 2
Unit Letter O Section 5
T18S - R31E Eddy County, NM

9 WELL SITE LAYOUT

- A. Exhibit "D" shows location and rig layout.
- B. 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 unlined, unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with PVC or polyethylene line. The pit liner will be 6 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.
Magnum Federal 5 Com 2
Unit Letter O Section 5
T18S - R31E Eddy County, NM

11 OTHER INFORMATION:

- A. Topography consists of a 2% slope to the south, on the south side of a low sandy rise with re-worked red sandy paleosols soils. Vegatation is mainly native grasses, yucca, and an occasional mesquite and sandsage..
- B. The wellsite is on Federal owned surface. The surface is leased to Williams & Son Cattle Co. P.O. Box 30 Maljamar, NM 88264. They will notified of our intention to drill prior to any activity. The land is used mainly for cattle ranching and oil and gas production.
- C. An Archaeological survey has beev conducted of the location and proposed roads, then 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 mile of this location.

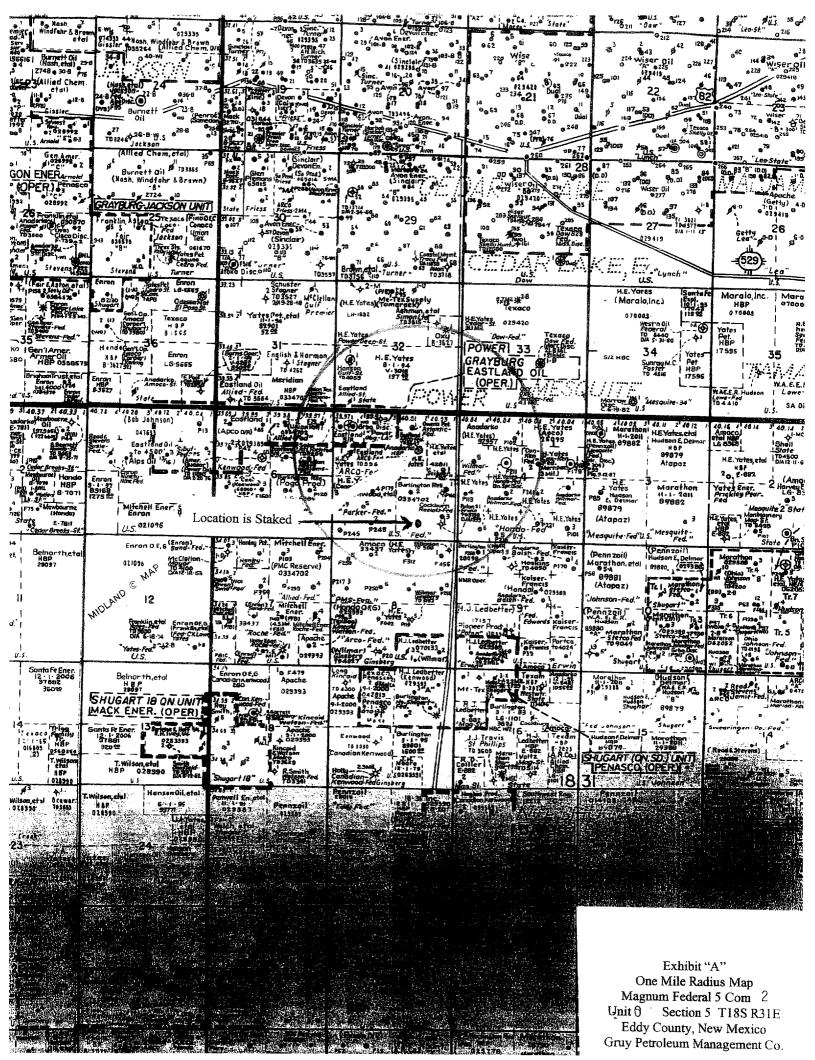
12 OPERATORS REPRESENTATIVE:

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

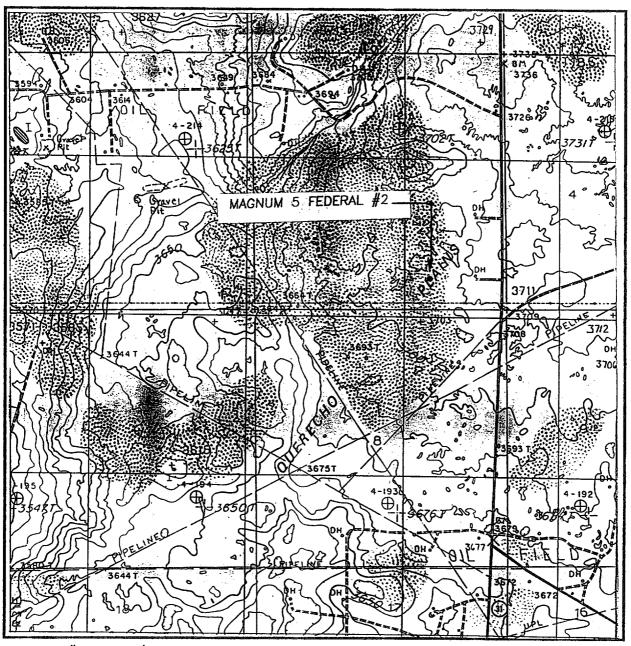
Zeno Farris

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:	ZonoFaris
DATE:	12/18/00
TITLE:	Manager, Operations Administration



LOCATION VERFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: LOCO HILLS N.M. 10'

SEC. <u>5</u>	TWP. 18-S	RGE	. <u>31-l</u>	=
SURVEY	N. M .F	<u>.м.</u>		
COUNTY	EDC	Υ		
DESCRIPTI	ION SEO' FSI	g _c	1650'	EEI

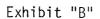
ELEVATION 3707

OPERATOR GURY PETROLEUM MANAGEMENT CO.

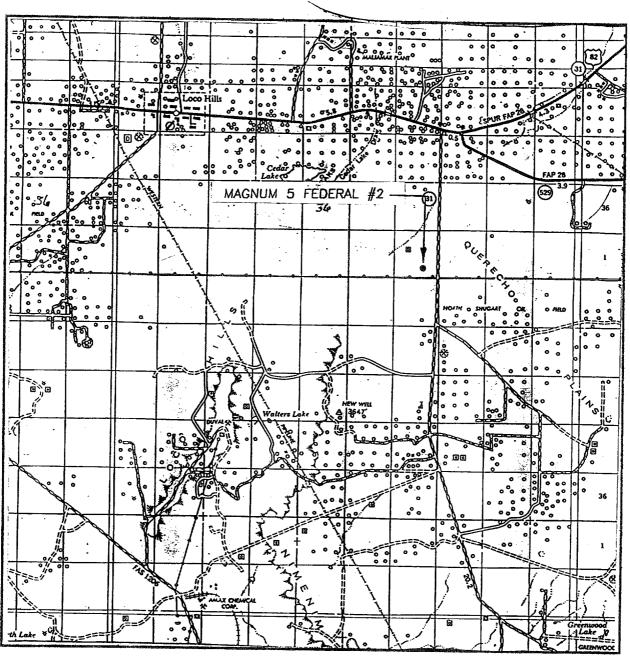
LEASE MAGNUM 5 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
LOCO HILLS N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 5 TWP. 18	3-S	RGE	. <u>31–1</u>	
SURVEYI	V.M.P	<u>.М.</u>	·	
COUNTY	EDD	Y		
DESCRIPTION 660'	FSL	<u>&</u>	1650'	FEL
ELEVATION	3	707	•	

OPERATOR GURY PETROLEUM MANAGEMENT CO.

LEASE MAGNUM 5 FEDERAL

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

LOCATION PLAT

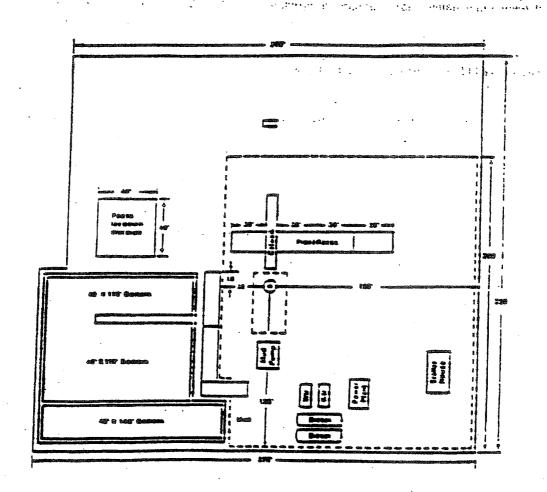
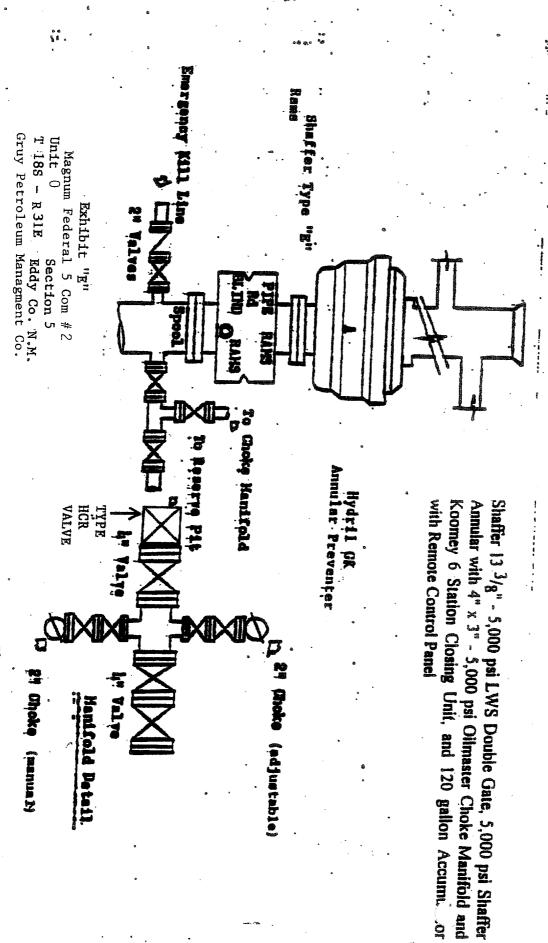


Exhibit "D" Rig Layout Plan

Magnum Federal 5 Com # 2
Unit 0 Section 5
T 18S -R 31E Eddy Co., NM
Gruy Petroleum Management Co.



Choks Mentfold