1145 8106

N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand அசைர்ப்

FORM APPROVED OMB NO. 1004-0136

Form 3160-3 (July 1992)

(July 1992)	UNITED STATES	Artesia	i NM Grad	-ductions	e on	Expires: Feb	ruary 28, 1995
DEPAR	RTMENT OF THE INT	ERIOR	reverse sic	le)	5.	LEASE DESIGNATION AN	ND SERIAL NO.
	EAU OF LAND MANAGEM					NM NM 9483	9
AD	PLICATION FOR PERMIT TO	DDIII OF	DEEDEN		6.	IF INDIAN, ALLOTTES OR	TRIBE NAME
1a. TYPE OF WORK	PLICATION FOR PERIVIT TO	DRILL OF	DEEPEN			-	
1b. TYPE OF WELL	DRILL 🔀	DEEPEN			7.	UNIT AGREEMENT NAM	E
OIL OIL	GAS 🔀	SINGLE	MULTIPLE		1	Pending	
WELL 2. NAME OF OPERATOR	WELL OTHER	ZONE	ZONE		8.	FARM OR LEASE NAME	, WELL NO.
Gruy Petroleum I	Management Co.					Bufflehead 26	Federal Com No. 1
3. ADDRESS AND TELEPHO					9.	API WELL NO.	
P.O. Box 140907	Irving TX 75014 972-401-3111		RECEI	VEC	\	30-015	- 33685
4. LOCATION OF WELL	(Report location clearly and in accordance with a		ents.*)	VEL	10 ر	Cottonwood Dra	
SI	JBJECT TO LIKE APPROVA	L BY STA	OCT 2,2	2004	11	SEC. T.,R.,M., BLOCK	
CHI			OOD:AF	TES		OR AREA	WED COLLET
2475' FN	L & 1250' FEL BHL 1500 FNL	& 1250' FEL				Sec. 26	T25S R26E
14. DISTANCE IN MILES AND DIE	RECTION FROM NEAREST TOWN OR POST OFFICE						13. STATE
15. DISTANCE FROM PROPO		16. NO. OF ACR	EC IN LEACE	17 NO		Eddy CRES ASSIGNED	NM
LOCATION TO NEAL	REST	IO. NO. OF ACA	ES IN LEASE	1	IIS WELL		
PROPERTY OR LEAS (Also to nearest drig. unit lease)	1250	148	30			320 E/2	
18. DISTANCE FROM PROPO		L	19. PROPOSED DEPTH	١	20. RO	TARY OR CABLE TOOLS	
OR APPLIED FOR, ON			,	- 1			
	NA		13000'	\		Rotary	
21. ELEVATIONS (Show wheth				1	22	APPROX. DATE WORK	WILL START*
322	7' GR			-		01-15-05	
SIZE OF HOLE	PROPOSED CASI GRADE, SIZE OF CASING		ENTING PROGRAM		ETTIN	G DEPTH	QUANTITY OF CEMENT
17-1/2"	J-55 13 3/8"	54.5 #	•	 	200'	G DEFTH	350 sx circulate
12 1/4"	J-55 9 5/8"	40 #		+ \	1900'		
8 3/4"	P-110 7"	26#		1 \	10000)'	950 sx circulate 1250 sx circulate
6 1/8"	P-110 4 1/2" liner	11.6 #	ŧ	1 1	1	13000'	235 sx TOC 9500
	e surface pipe through the run				1		
	questing a variance for the 13		_		1		•
•	elow the conductor, shall be pre-		•		T		
•	·				1		
exceed 70% of the	manufactures stated maximum	n internal yi	eld. During the r	unnin	ng of t	the surface pipe	and the drilling of
the intermediate ho	ole we do not anticipate any pro	essures gre	ater than 1000#	and a	are re	equesting a varia	ince to test the
13 3/8" casing and I	BOP system to 1000 # psi, and	l use rig pu	mps instead of ar	n inde	epend	dent service com	pany.
IN ABOVE SPACE, DE	ESCRIBE PROPOSED PROGRAM:	If proposal is to	deepen, give data on pres	sent nro	nductive	Zone and proposed nev	v productive zone
If proposal is to drill or deep	oen directionally, give pertinent data on subsi						
SIGNED _	Zeno Fari	TITLE	Mgr. Ops. Admin			DATE	9-24-04
(This space for Federal or State of	fice use)						
PERMIT No.			APPROVAL I				
Application approval does not warr CONDITIONS OF APPRO		to those rights in the				duct operations thereon.	
APPROVED BY	/s/ Joe G. Lara	TITLE	FIELD MAN	IAG	ieŭ,	DATE	OCT 2 2 2004
13 MAL SUST	Section 1001 makes the crime for an		s On Reverse Side naly and willfully to ma	ıke to a	AF any de	PROVAL F	OR 1 YEAR
REPAREDU	any asse nothing on the dulent staten	nents or repres	entations as to any ma	atter wi	ithin its	s jurisdiction.	

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 DIT OF DEIOW-grade tan Type of action: Registration of a pit of	or below-grade tank 🔀 Closure of a pit or below-g	grade tank	
Operator: Gruy Petroleum Management Co. Telephone: Address: P.O. Box 140907, Irving, Tx 75014-0907	072_443_6489e-mail address: zfarris@magnumhu	nter com	
	U/L or Qtr/Qtr H Sec 26 T	25S R 26E	
	530.30 W NAD: 1927 X 1983 ☐ Surface (] Private 🗌 Indian 🗍
Pit	Below-grade tank		
[ype: Drilling ☑ Production ☐ Disposal ☐	Volume:bbl Type of fluid:		
Workover	Construction material:	_	
Lined Unlined	Double-walled, with leak detection? Yes 🔲 If r	not, explain why not.	
Liner type: Synthetic Thickness 12 mil Clay Volume bbl		Party and the Pa	
South to account system (system) distance from bottom of six to account high	Less than 50 feet	(20 points)	
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet	(10 points)	RECEIVE
water elevation of ground water.)	100 feet or more	(0 points)	· (EOLIVE
	Yes	(20 points)	OCT - 4 7004
Wellhead protection area: (Less than 200 feet from a private domestic	(No)	(0 points)	POPMATE
water source, or less than 1000 feet from all other water sources.)			
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)	
arrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)	
arigation canals, dicercs, and percinnal and epitement watercoarses,	1000 feet or more	0 points	
	Ranking Score (Total Points)	-0-	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indi-	cate disposal location:	
onsite offsite from If offsite, name of facility	(3) Attach a general description of remedial ac	ction taken including reme	diation start date and en
date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth belo			
diagram of sample locations and excavations.		•	•
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: 9-27-04	i general permit 🔲, or an (attached) alternative (OCD-approved plan 🔲.	below-grade tank has
Date: 9-27-04 Printed Name/Title Zeno Farris Manager Operations Administration	_Signature LNO D OC		
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the contents (of the pit of tank contains	ate ground water or ocal laws and/or
Approval T 4 2004 Printed Name/Title	Signature		



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 - 94839

Legal Description:

E/2 Sec 26, T25S-R26E

Containing 320 acres, Eddy County New Mexico

Formation (S):

Morrow/Pennsylvanian

Bond Coverage:

Nationwide BLM Bond

BLM Bond File No.: NM 2575

Authorized Signature:

Representing Gruy Petroleum Management Co.

Zeno Fami

Name: Zeno Farris

Title: Manager, Operations Administration

Date: 09/24/04

Application to Drill

Gruy Petroleum Management Co. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E 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:

SHL 2475' FNL & 1250' FEL Sec. 26- 25S 26E

BHL 1500' FNL & 1250 FEL Sec 26-25S-26E

2 Elevation above sea level:

GR 3227'

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"	0-200'	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
8 3/4"	0-10000'	7"	26	8-R	ST&C	P-110
6 1/8"	9500' - 13000	4 1/2"	11.6	8-R	ST&C	P-110

Application to Drill

Gruy Petroleum Management Co. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E Eddy County, NM

9 Cementing & Setting Depth:

13 3/8"	Surface	Set 200' of 13 3/8" J-55 54.5 ST&C casing. Cement with 350 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 550 Sx. of Interfill C Cement + additives, tail with with 400 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 750 Sx. of Class Interfill H/Super H Cement + additives. Second stage cement with
4 1/2"	liner	500 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 235 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
() - 200'	8.4 - 8.6	30 - 32	•	Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.
200	0' - 1900'	9.7 - 10.0	28 - 29	•	Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.
190	00' - 8300'	8.4 - 9.9	28 - 29	NC	Fresh water. Paper for seepage. Lime for pH (9 - 9.5)
830	0' - 10000'	8.45 - 8.9	28 - 29	NC	Cut brine. Caustic for pH control.
1000	00' - 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. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E 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 <u>35 - 45</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>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. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E 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 9.7 miles to Prickly Pear Rd. Turn right west and go 0.9 miles to propoase lease rd. Follow survey north 0.3 miles to location.
- 2 PLANNED ACCESS ROADS: 1645' of access road will be constructed.
- 3 LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A"

A. Water wells - Baily well in NE/4 of Sec 27

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. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E 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 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:

A. No camps or airstrips to be constructed.

Gruy Petroleum Management Co. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E 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 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. Bufflehead 26 Federal Com No. 1 Unit Letter H Section 26 T25S - R26E Eddy County, NM

11 OTHER INFORMATION:

- 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.

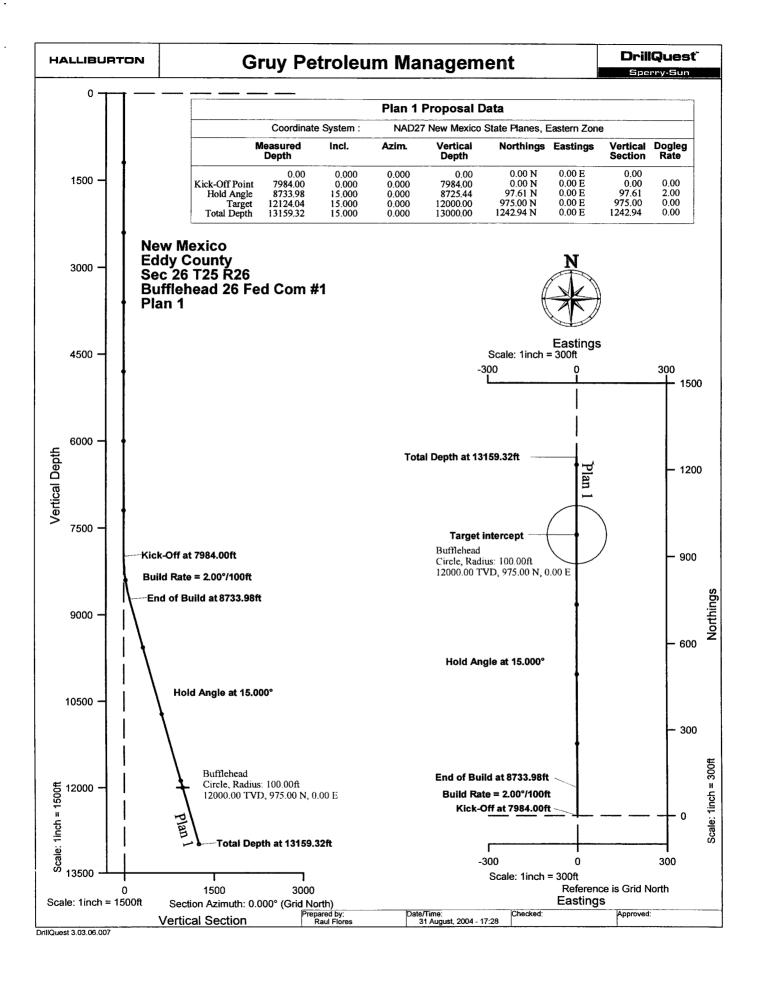
12 OPERATORS REPRESENTATIVE:

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 and/or its contractors/subcontractors and will be in 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:	Zono Faris
DATE:	9/24/2004
TITLE:	Manager, Operations Administration





Gruy Petroleum Management New Mexico Eddy County Sec 26 T25 R26 Bufflehead 26 Fed Com #1 - Plan 1

Sperry-Sun Proposal Report

1 September, 2004

Proposal Ref: pro8500

HALLIBURTON

HALLIBURTON

Proposal Report for Sec 26 T25 R26 - Bufflehead 26 Fed Com #1 - Plan 1

Measured		Grid	Stat	ion Coordi	nates	Vertical	Dogleg	
Depth	Incl.	Azim.	TVD	Northings	Eastings	Section	Rate	Comment
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
7984.00	0.000	0.000	7984.00	0.00 N	0.00 E	0.00	0.00	Ki-l- O# -+ 700 + 000
8000.00	0.320	0.000	8000.00	0.04 N	0.00 E		0.00	Kick-Off at 7984.00ft
8100.00	2.320	0.000	8099.97	2.35 N		0.04	2.00	
8200.00	4.320	0.000	8199.80	8.14 N	0.00 E 0.00 E	2.35	2.00	
0200.00	7.520	0.000	6133.00	0.14 IN	0.00 E	8.14	2.00	
8300.00	6.320	0.000	8299.36	17.41 N	0.00 E	17.41	2.00	
8358.99	7.500	0.000	8357.92	24.51 N	0.00 E	24.51	2.00	Build Rate = 2.00°/100ft
8400.00	8.320	0.000	8398.54	30.15 N	0.00 E	30.15	2.00	
8500.00	10.320	0.000	8497.21	46.34 N	0.00 E	46.34	2.00	
8600.00	12.320	0.000	8595.26	65.97 N	0.00 E	65.97	2.00	
8700.00	14.320	0.000	8692.57	89.01 N	0.00 E	89.01	2.00	
8733.98	15.000	0.000	8725.44	97.61 N	0.00 E	97.61	2.00	End of Build at 0722 008
8800.00	15.000	0.000	8789.21	114.70 N	0.00 E	114.70	0.00	End of Build at 8733.98ft
8900.00	15.000	0.000	8885.81	140.58 N	0.00 E	140.58	0.00	
9000.00	15.000	0.000	8982.40	166.46 N	0.00 E	166.46	0.00	
0000.00	10.000	0.000	0302.40	100.4011	0.00 E	100.40	0.00	
9100.00	15.000	0.000	9078.99	192.34 N	0.00 E	192.34	0.00	
9200.00	15.000	0.000	9175.58	218.22 N	0.00 E	218.22	0.00	
9300.00	15.000	0.000	9272.18	244.10 N	0.00 E	244.10	0.00	
9400.00	15.000	0.000	9368.77	269.98 N	0.00 E	269.98	0.00	
9500.00	15.000	0.000	9465.36	295.87 N	0.00 E	295.87	0.00	
9600.00	15.000	0.000	9561.96	321.75 N	0.00 E	321.75	0.00	
9700.00	15.000	0.000	9658.55	347.63 N	0.00 E	347.63	0.00	
9800.00	15.000	0.000	9755.14	373.51 N	0.00 E	373.51	0.00	
9900.00	15.000	0.000	9851.73	399.39 N	0.00 E	399.39	0.00	
10000.00	15.000	0.000	9948.33	425.27 N	0.00 E	425.27	0.00	
10100.00	15.000	0.000	40044.00	454 45 11				
10100.00	15.000	0.000	10044.92	451.15 N	0.00 E	451.15	0.00	
10200.00	15.000	0.000	10141.51	477.03 N	0.00 E	477.03	0.00	
10300.00	15.000	0.000	10238.10	502.92 N	0.00 E	502.92	0.00	
10400.00	15.000	0.000	10334.70	528.80 N	0.00 E	528.80	0.00	
10429.01	15.000	0.000	10362.72	536.31 N	0.00 E	536.31	0.00	Hold Angle at 15.000°
10500.00	15.000	0.000	10431.29	554.68 N	0.00 E	554.68	0.00	
10600.00	15.000	0.000	10527.88	580.56 N	0.00 E	580.56	0.00	
10700.00	15.000	0.000	10624.48	606.44 N	0.00 E	606.44	0.00	
10800.00	15.000	0.000	10721.07	632.32 N	0.00 E	632.32	0.00	
10900.00	15.000	0.000	10817.66	658.20 N	0.00 E	658.20	0.00	
11000.00	15.000	0.000	10914.25	684.08 N	0.00 E	604 00	0.00	
11100.00	15.000	0.000	11010.85	709.96 N	0.00 E	684.08	0.00	
11200.00	15.000	0.000	11107.44	709.96 N 735.85 N	0.00 E 0.00 E	709.96	0.00	
11300.00	15.000	0.000	11204.03	761.73 N	0.00 E	735.85	0.00	
11400.00	15.000	0.000	11300.63	787.61 N	0.00 E	761.73 787.61	0.00 0.00	
							3.00	
11500.00	15.000	0.000	11397.22	813.49 N	0.00 E	813.49	0.00	
11600.00	15.000	0.000	11493.81	839.37 N	0.00 €	839.37	0.00	
11700.00	15.000	0.000	11590.40	865.25 N	0.00 E	865.25	0.00	
11800.00	15.000	0.000	11687.00	891.13 N	0.00 E	891.13	0.00	
11900.00	15.000	0.000	11783.59	917.01 N	0.00 E	917.01	0.00	

Eddy County

Proposal Report for Sec 26 T25 R26 - Bufflehead 26 Fed Com #1 - Plan 1

Measured		Grid	Stat	ion Coordi	nates	Vertical	Dogleg	
Depth	inci.	Azim.	TVD	Northings	Eastings	Section	Rate	Comment
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
12000.00	15.000	0.000	11880.18	942.90 N	0.00 E	942.90	0.00	
12100.00	15.000	0.000	11976.77	968.78 N	0.00 E	968.78	0.00	
12124.04	15.000	0.000	12000.00	975.00 N	0.00 E	975.00	0.00	Target - Bufflehead,
_								100.00 Radius., Current
								Target
12200.00	15.000	0.000	12073.37	994.66 N	0.00 E	994.66	0.00	· got
12300.00	15.000	0.000	12169.96	1020.54 N	0.00 E	1020.54	0.00	
12400.00	15.000	0.000	12266.55	1046.42 N	0.00 E	1046.42	0.00	
12500.00	15.000	0.000	12363.15	1072.30 N	0.00 E	1072.30	0.00	
12600.00	15.000	0.000	12459.74	1098.18 N	0.00 E	1098.18	0.00	
12700.00	15.000	0.000	12556.33	1124.06 N	0.00 E	1124.06	0.00	
12800.00	15.000	0.000	12652.92	1149.95 N	0.00 E	1149.95	0.00	
12900.00	15.000	0.000	12749.52	1175.83 N	0.00 E	1175.83	0.00	
13000.00	15.000	0.000	12846.11	1201.71 N	0.00 E	1201.71	0.00	
13100.00	15.000	0.000	12942.70	1227.59 N	0.00 E	1227.59	0.00	
13159.32	15.000	0.000	13000.00	1242.94 N	0.00 E	1242.94	0.00	Total Depth at 13159.32ft

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Well and calculated along an Azimuth of 0.000° (Grid).

Coordinate System is NAD27 New Mexico State Planes, Eastern Zone. Grid Convergence at Surface is -0.822°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 13159.32ft., The Bottom Hole Displacement is 1242.94ft., in the Direction of 0.000° (Grid).

Comments

Measured	Sta	tion Coordi	nates			
Depth (ft)	TVD (ft)	Northings (ft)	Eastings (ft)	Comment ·		
7984.00	7984.00	0.00 N	0.00 E	Kick-Off at 7984.00ft		
8358.99	8357.92	24.51 N	0.00 E	Build Rate = 2.00°/100ft		
8733.98	8725.44	97.61 N	0.00 E	End of Build at 8733.98ft		
10429.01	10362.72	536.31 N	0.00 E	Hold Angle at 15.000°		
13159.32	13000.00	1242.94 N	0.00 E	Total Depth at 13159.32ft		

New Mexico Eddy County

Proposal Report for Sec 26 T25 R26 - Bufflehead 26 Fed Com #1 - Plan 1

Targets associated with this wellpath

	Tarç				
Target Name	TVD (ft)	Northings (ft)	Eastings (ft)	Target Shape	Target Type
Bufflehead	12000.00	975.00 N	0.00 E	Circle	Current Target
Mean Sea Level/Map Coordinates:	12000.00	975.00 N	0.00 E		· ·
Geographical Coordinates:		30° 59' 34.1588" N	105° 55' 44.2979" W		

State of New Mexico

DISTRICT I 1625 N. PRENCH DR., HOBBS, NW 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003 Submit to Appropriate District Office

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NW 88210

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. DISTRICT III Santa Fe, New Mexico 87505

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FR. NM 87505 API Number Pool Code Pool Name Cottonwood Draw: Morrow Property Code Property Name Well Number **BUFFLEHEAD 26 FEDERAL COM** 1 OGRID No. 162683 Operator Name Elevation GRUY PETROLEUM MANAGEMENT COMPANY 3227

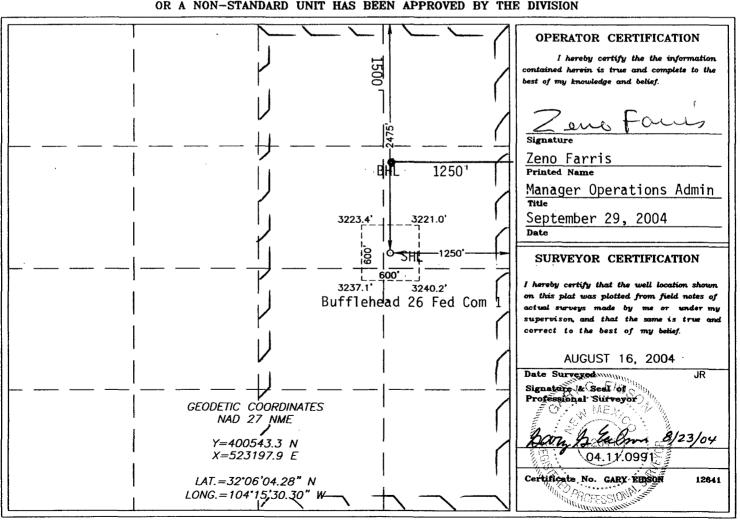
Surface Location

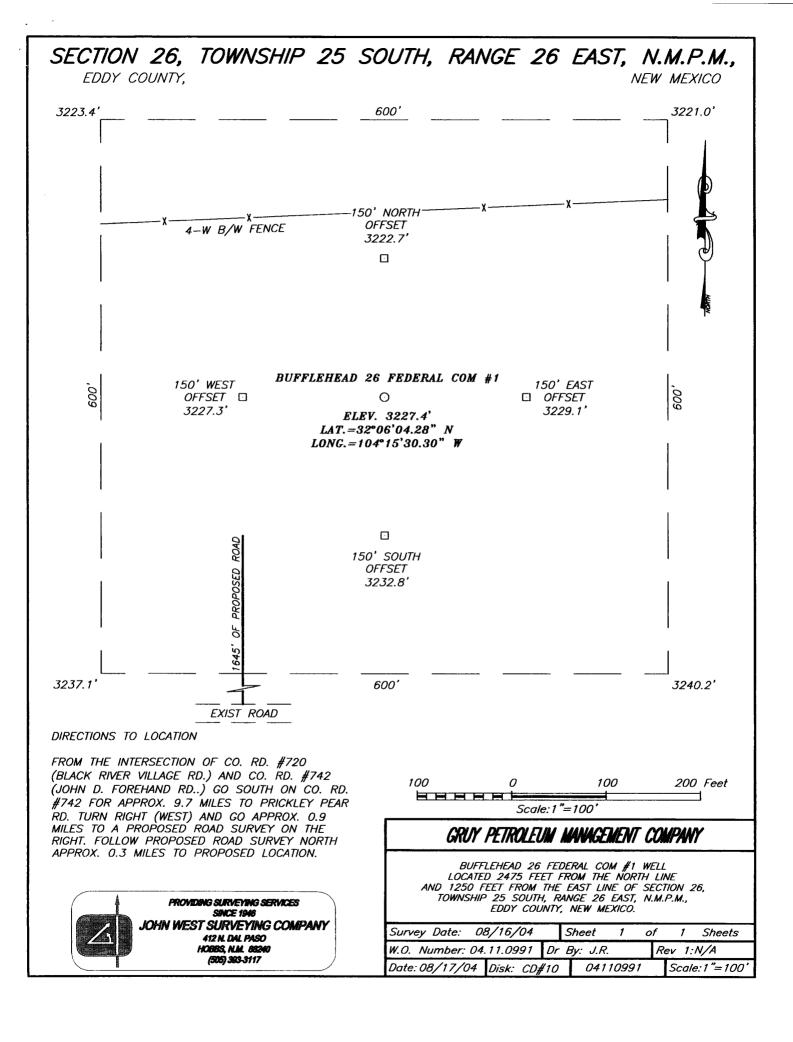
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	26	25-S	26-E		2475	NORTH	1250	EAST	EDDY

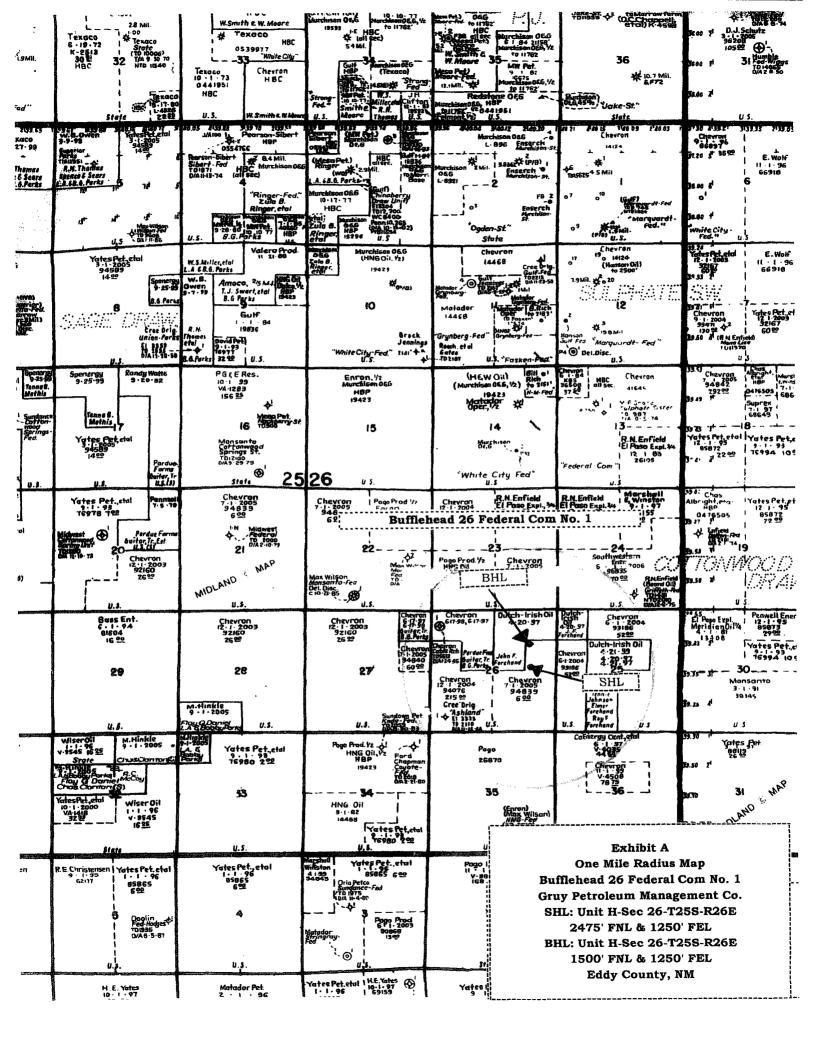
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	26	25-9	S 26-E		1500	NORTH	1250	EAST	EDDY
Dedicated Acres Joint or Infill		r Infill	Consolidation	Code Or	der No.				***************************************
320	1	1	С						

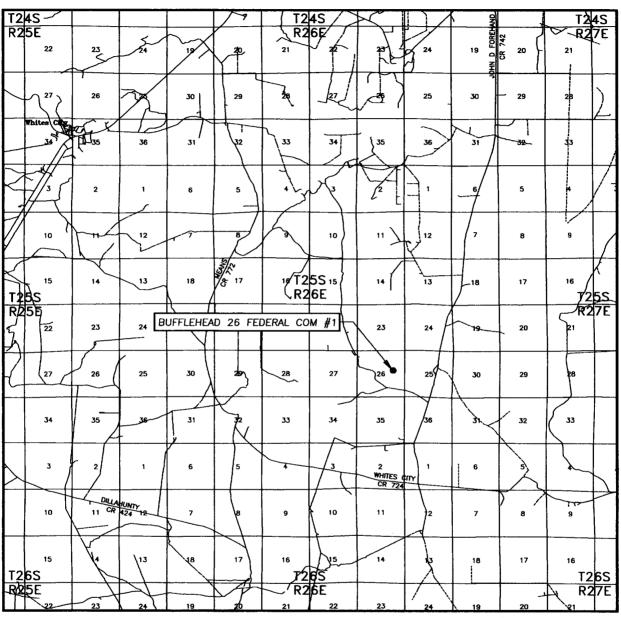
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION







VICINITY MAP



SCALE: 1" = 2 MILES

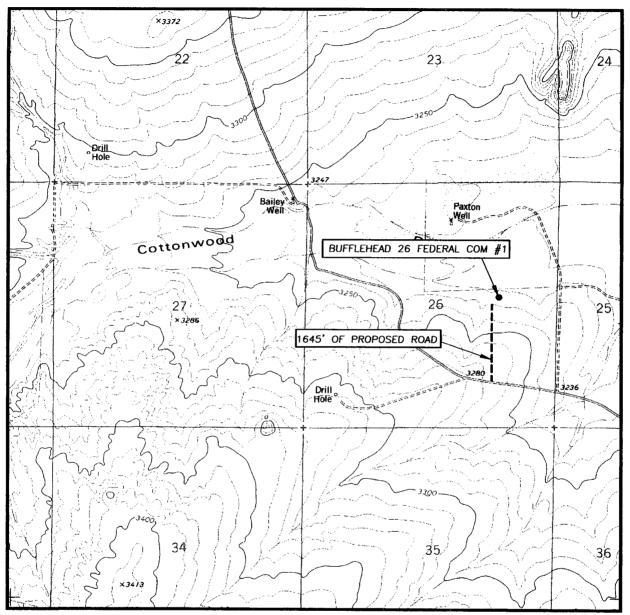
SEC. <u>26</u> TWP. <u>25-S</u> RGE. <u>26-E</u>		
SURVEYN.M.P.M.		
COUNTYEDDY		
DESCRIPTION 2475' FNL & 1250' FEL		
ELEVATION 3227'		
GRUY PETROLEUM OPERATOR MANAGEMENT COMPANY		
LEASE BUFFLEHEAD 26 FEDERAL COM	ΓV	
	EXHIBIT	В



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88340
(505) 383-3117

монти

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: JUMPING SPRING, N.M. - 10'

SEC. 26 TWP. 25-S RGE. 26-E

SURVEY_____N.M.P.M.

COUNTY____EDDY

DESCRIPTION 2475' FNL & 1250' FEL

ELEVATION ____ 3227'

GRUY PETROLEUM OPERATOR MANAGEMENT COMPANY

LEASE BUFFLEHEAD 26 FEDERAL COM

U.S.G.S. TOPOGRAPHIC MAP

JUMPING SPRING, N.M.

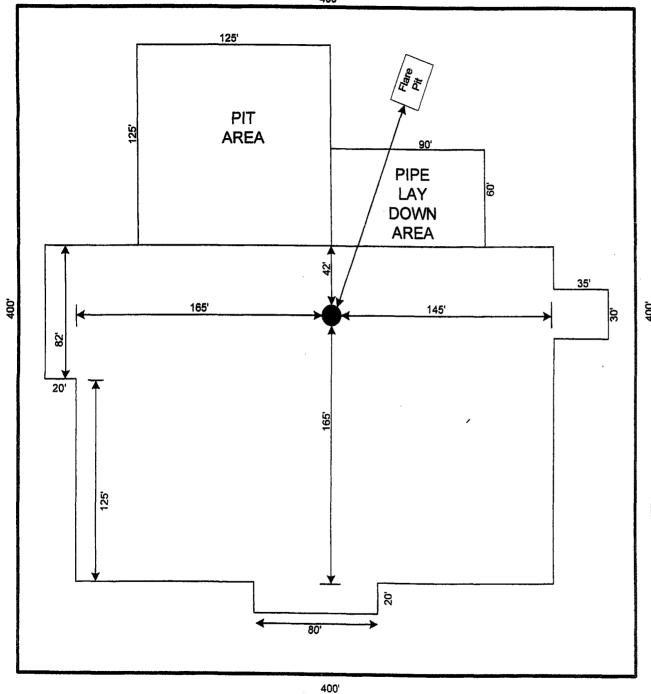


EXHIBIT C

PROVIDING SURVEYING SERVICES SINCE 1948 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117







RIG#80

GRUY PETROLEUM MANAGEMENT COMPANY IRVING TEXAS

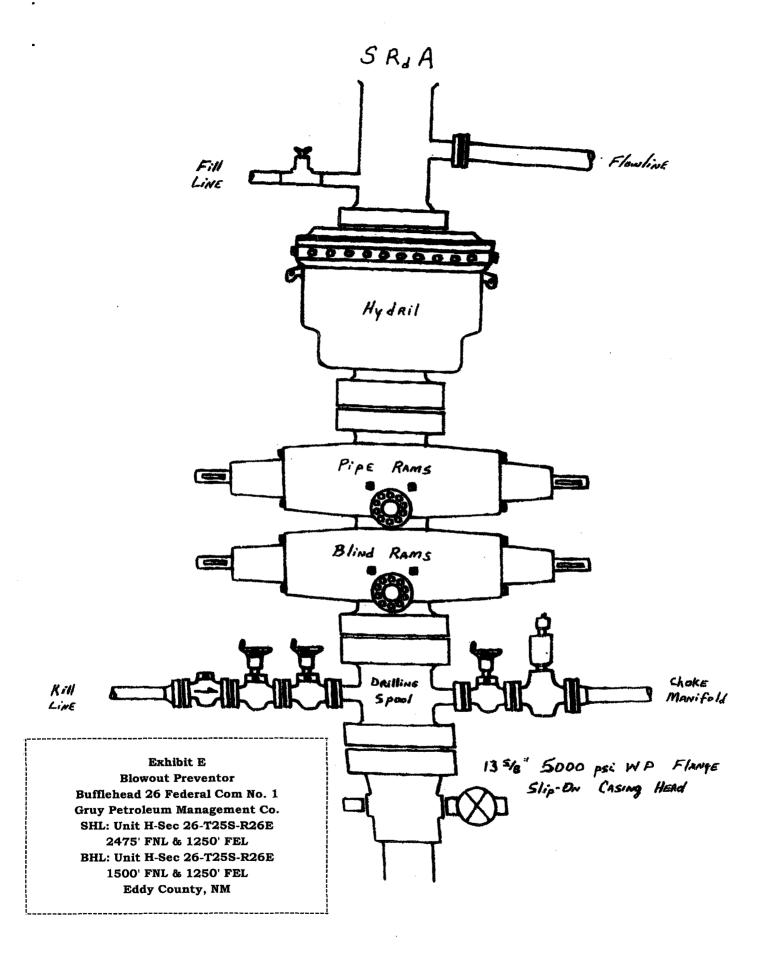
SCALE 1"=60"

Exhibit D

Rig Layout Plan

Bufflehead 26 Federal Com No. 1
Gruy Petroleum Management Co.
SHL: Unit H-Sec 26-T25S-R26E
2475' FNL & 1250' FEL

BHL: Unit H-Sec 26-T25S-R26E
1500' FNL & 1250' FEL
Eddy County, NM



DRILLING OPERATIONS CHOKE MANIFOLD

5M SERVICE

4920821865

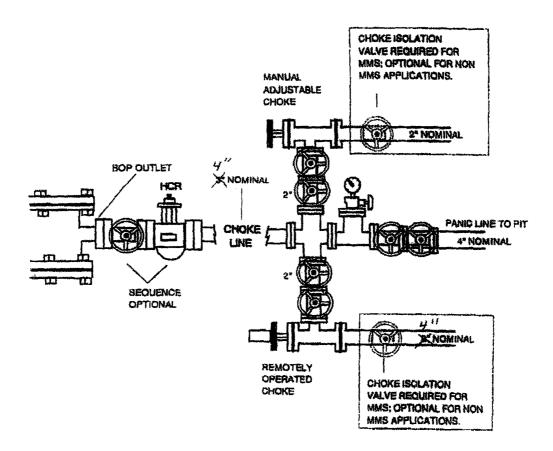


Exhibit E-Cont'd

Blowout Preventor-Choke Manifold

Bufflehead 26 Federal Com No. 1

Gruy Petroleum Management Co.

SHL: Unit H-Sec 26-T25S-R26E

2475' FNL & 1250' FEL

BHL: Unit H-Sec 26-T25S-R26E

1500' FNL & 1250' FEL

Eddy County, NM