MAR 8 4 1996

Form 5160-3

# UNITED STATES MIA C'EURMI ISTROIGHUSSION.

		JREAU OF LAI	ND MANAGEMENT A	HECA, MAI COMA	5. LEASE LC 060	DESIGNATION AND S	ERIAL NO.
	APPLICATI	ON FOR PERMI	T TO DRILL OR DEEPEN			DIAN, ALLOTTEE OR	TRIBE NAME
a TYPE OF WORK:	DRILL	$\boxtimes$	DEEPEN		NA		
b TYPE OF WELL:			<del>_</del>		7.UNIT	AGREEMENT NAME	
OIL X	WELL	Other	SINGLE ZONE	MULTIPLE ZONE		OR LEASE NAME, WEL	
NAME OF OPERAT		TEDCY OPED	TING CORPORATION	12/00-		rederal #4	-019
ADDRESS AND TE		ERGI OPERA	TING CORPORATION	136025	9.API W	ELL NO.	701
ADDRESS AND TE	* *	ADWAY. SUIT	E 1500, OKC, OK 73102	(405) 552-4560	30-	015-288	ςŽ .
LOCATION OF WEI		<del></del>	ccordance with any State requir		10.FIEL	AND POOL, OR WILL	CAT 79CAC
At surface 1680'	FSL & 2650' FW	T UNO	RTHODOX Sub	act to	GRAY	BURG-JACKSON	u- 6B-5A
				Approval	II.SEC.	, I., R., R., OR BLOCK	AND SURVEY OR AR
At top proposed prod.	zone (SAME)			State	SECTI	ON 19 -T17 S - R3	1 E
LDISTANCE IN MILES A	AND PARKETON EN	Unit	3		10 00		T
8 miles east & .2 n			R POST UNFICE*		512.	NTY OR PARISH	13. STATE
5.DISTANCE FROM PROPO			16.NO. OF ACRES IN LEASE			17.NO. OF ACRE	
LOCATION TO NEAREST PROPERTY OR LEASE L		10'	40.00		3	TO THIS WELL	T.
(Also to nearest drig unit line B. DISTANCE FROM PROPO	e if anv)		19.PROPOSED DEPTH	3		20.ROTARY OR C	ADTE MOOVED
TO NEAREST WELL, DR	ILLING, COMPLETE	•	4200'	ARABE ARACISE D	55-53 J	Rotary or c	ABLE TOOLS*
OR APPLIED FOR, ON ELEVATIONS (Show when		350'				APPROX. DATE WORK	
98' ·	<del></del>		PROPOSED CASING AND	Controlled Water Badin CEMENTING PROGRAM		nuary 15, 19	
SIZE OF HOLE	GRADE, SI	ZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	Т	QUANTI	Y OF CEMENT
			1	1	ţ		
1/4"	8 5/8" J-55		24.0#	320'		125 sk Lite cmt +	
7/8" We plan to circul	5 1/2" J-55	o surface on all	15.5# casing strings. Devon	320' 4200' Energy Operating Corp	oration p	550 sk Lite cat +	200 sk Class "C" 425 sk Class "H" to 4200' to tes
We plan to circul the Grayburg-Jac wellbore will be p outlined in the fo Drilling Program Exhibits #1/1-A == Exhibit #2 Exhibit #3/3-A == Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #7 H2S Operating P	5 1/2" J-55 late cement to ckson format plugged and a llowing exhibit Blowout President Expensive Expensiv	ion for comme bandoned per its and attachievention Equip de Elevation Pland Topo Mapin 1 Mile Radi Facilities Plat Layout ign Approvation Special Special Sattached	casing strings. Devon recial quantities of oil. Federal Regulations. I ments.  The under terms, conducte terms, conducte thereof, a Lease No Legal De Buttons as Bond Conficultions and Buttons as Buttons and But	Energy Operating Corp If the Grayburg-Jackson Programs to adhere to on	is deeme shore oil cable s ortions /N-R31E	roposes to drilled non-commercand gas regular	200 sk Class *C*  425 sk Class *H*  to 4200' to tescial, the tions are
We plan to circul the Grayburg-Jac wellbore will be poutlined in the following Program Exhibits #1/1-A == Exhibit #2 Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #6 Exhibit #7 H2S Operating P	5 1/2" J-55 late cement to ckson format plugged and a llowing exhibit Blowout Pr Location are Road Map Wells With Production Rotary Rige Casing Designal	ion for comme bandoned per its and attachievention Equiped Elevation Pland Topo Mapin 1 Mile Radi Facilities Plat Layout ign Approvation Attached Deserved Programment (1997)	casing strings. Devon recial quantities of oil. Federal Regulations. I ments.  The under terms, conducte terms, conducte thereof, a Lease No Legal De Book Confidence of the conducte thereof, a Lease No Legal De Book Confidence of the conducte thereof of the conducte thereof of the conducte of the conducte thereof of the conducte of	200'  Energy Operating Corp If the Grayburg-Jackson Programs to adhere to on ersigned accepts all application, stipulations and ons concerning operations d on the leased land or peas described below: b. LC-060409 scription: Section 19-T17 verage: Statewide in CO and No.: CO1151  NSL e data on present productive zone	is deeme shore oil cable s ortions /N-R31E , NM, U	roposes to drill d non-commer and gas regular	200 sk Class *C"  425 sk Class *H"  to 4200' to tescial, the tions are
the Grayburg-Jac wellbore will be p outlined in the form Drilling Program Exhibits #1/1-A Exhibit #2 Exhibit #3/3-A Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #7 H2S Operating P	5 1/2" J-55 late cement to ckson format plugged and a llowing exhibit Blowout Pr Location are Road Map Wells With Production Rotary Rige Casing Designal	ion for comme bandoned per its and attachievention Equiped Elevation Pland Topo Mapin 1 Mile Radi Facilities Plat Layout ign Approvation Attached Deserved Programment (1997)	casing strings. Devon recial quantities of oil. Federal Regulations. I ments.  The under terms, conducte terms, conducte thereof, a Lease No Legal De Bond Configurations BLAG Bond Configurations BLAG Bond Configurations and measures between given between the conducted by the conductions and measures the conducted by th	200'  Energy Operating Corp If the Grayburg-Jackson Programs to adhere to on ersigned accepts all application, stipulations and ons concerning operations d on the leased land or peas described below: b. LC-060409 scription: Section 19-T17 verage: Statewide in CO and No.: CO1151  NSL e data on present productive zone	is deeme shore oil cable s ortions /N-R31E , NM, U	roposes to drill d non-commer and gas regular	200 sk Class *C"  425 sk Class *H"  to 4200' to tescial, the tions are
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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 United States any false, fictitious or fraudulent

See Instructions On Reverse Side

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

State of New Mexico
Energy Minerals, and Natural Resources Department

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

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

<u>DISTRICT III</u> 1000 Rio Brazos Rd. Aztec, NM 87410

# OIL CONSERVATION DIVISION P. 0. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

<u>DISTRICT IV</u> P. O. Box 2088 Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

FRIESS FEDERAL  OGRID No. 136025  DEVON ENERGY OPERATING CORP.  SURFACE LOCATION  Lor lot no. Section 19 17 SOUTH 31 EAST, N.M.P.M.  "Blevation 3598'  SURFACE LOCATION  Lot lot no. Section 19 17 SOUTH 31 EAST, N.M.P.M.  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE	<sup>1</sup> API Number			<sup>2</sup> Pool Code		3 Poo	l Name	•		•		
Property Name	30-	0/5-	Z8856	28s0	9		Graybu	irg Jack	son	n (SR, ON	I, GB. SA	) .
DEVUIN ENERGY DPERATING CORP.  "SURFACE LOCATION L or lot no. Section. Township Range Lot ida Peet from the North/South line Peet from the East/West line County J 19 17 SOUTH 31 EAST, N.M.P.M.  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE L or lot no. Section. Township Range Lot ida Peet from the North/South line Peet from the East/West line County  Dedicated Acres. "Joint or Infill." Consolidation Code "Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION    Perinted Native   Printed Native   Pr	* Property Cod											
"SURFACE LOCATION Lor lot no. Section Township 19 17 SOUTH 31 EAST, N.M.P.M. Lot lida Feet from the South South line Feet from the East/Vest line EDDY  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lor lot no. Section Township Range Lot lida Feet from the North/South line Feet from the East/Vest line County  Dedicated Acres "Joint or Infill "Consolidation Code "Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION   hereby certify that the information contained herein is five and complete to the best of my homeloge and heided.  Signature Date   2650'   Surveyor Certify that the well location shown on this plot was surveys made by me a under my supervision, and that the sest of my belief.  Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.    Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of under my supervision, and that the best of my belief.   Date of Farrey Surveys made by me of Farrey Surveys made by me of the Barrey Surveys made by me of Farrey Surveys Made Surveys Surveys Made Surveys Made Surve	15969				F	RIESS	FEDERA	L			4	
"SURFACE LOCATION  Lor lot no. Section Township Range   Lot Ida   Feet from the   North/South line   Ze550   WEST   EDDY  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE   Lor lot no. Section Township Range   Lot Ida   Feet from the   North/South line   Feet from the   East/West line   County    Dedicated Acres   Joint or Infill   Consolidation Code   Order No.    NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION   hereby certify that the information contained herein is fine and complete to the best of my knowledge and belief.    Signature   Chicago   Printed Name   Range   Chicago   Printed Name   Range   Chicago    Printed Name   Range   Chicago   Chicago   Chicago   Chicago    Printed Name   Chicago   Chi	OGRID No.		* Operator N	ame							* Rievation	
Lor lot no. Section Township 19 31 EAST, N.M.P.M. Lot Ida 1860' SOUTH 2650' WEST EDDY  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  Lor lot no. Section Township Range Lot Ida 19 etc from the North/South line 19 etc from the East/West line County  Dedicated acres 19 Joint or Infill 19 Consolidation Code 19 Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION   A PROPER OF THE PROPERTY OF T	136025			DE	VON E	:NERGY	OPERAT	ING CORP	۶.		3598	
"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  Lor lot no. Section Township Range Lot lda Feet from the North/South line Feet from the East/West line County  Dedicated Acres Dispinit or Infill "Consolidation Code "Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION   Destrict Engineer Date   Destrict Engineer   Destrict Engineer   Date					¹º SUF	RFACE	LOCATION	<b>J</b>				
"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lot lot no. Section Township Range Lot lda Feet from the North/South line Feet from the East/West line County  Bedicated acres 13 Joint or Infill 14 Consolidation Code 15 Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION    Person Contained herein is fine and complete to the best of my knowledge and belief.	UL or lot no.	Section	-	1		Lot Ida	Feet from the	North/Sout	h line	Peet from the	East/West line	County
Lot ida   Feet from the   North/South line   Feet from the   East/West line   County    Bedicated acres   13 Joint or Infill   14 Consolidation Code   14 Order No.    NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN   CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION    Defending certify that the information contained herein is true and complete to the best of my knowledge and beiled.	J	19	17 SOUTH	31 EAST, N	<b>І.М.Р.М</b> .		1680'	SOUTH	Ī	2650'	WEST	EDDY
Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.  NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Printed Nains   Randy Jackson Title  District Engineer  But   Z //3/55  SURVEYOR CERTIFICATION   hereby certify that the well location shown on this plat was visually appropriate to the best of my belief.  Date of Survey supervision, and that the same is true and correct to the best of my belief.  Date of Survey supervision, and that the same is true and correct to the best of my belief.  V. LYNN   A BEZNER   NO. 7920   Suparing all supervision   No. 7920			"BOTT	M HOLE	LOCATI	ON IF	DIFFERE	NT FROM	su	JRFACE	<u> </u>	
NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION  I hereby certify that it the information contained herein its true and complete to the best of my knowledge and belief.  Signature  Printed Nature  District Engineer  Date    Z / 1.3/5    SURVEYOR CERTIFICATION     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.    Bate of Survey Supervision, and that the same is true and correct to the best of my belief.    Bate of Survey Supervision, and that the same is true and correct to the best of my belief.    Bate of Survey Supervision, and that the Survey supervision, and that the Survey supervision, and that the Survey supervision and correct to the best of my belief.    Bate of Survey Supervision   Supervision   Supervision   Supervision   Survey   Supervision   Sup	UL or lot no.	Section	Township	Range	1	Lot Ida	Feet from the	North/Sout	h line	Feet from the	East/West line	County
NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION  I hereby certify that it the information contained herein its true and complete to the best of my knowledge and belief.  Signature  Printed Nature  District Engineer  Date    Z / 1.3/5    SURVEYOR CERTIFICATION     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.    Bate of Survey Supervision, and that the same is true and correct to the best of my belief.    Bate of Survey Supervision, and that the same is true and correct to the best of my belief.    Bate of Survey Supervision, and that the Survey supervision, and that the Survey supervision, and that the Survey supervision and correct to the best of my belief.    Bate of Survey Supervision   Supervision   Supervision   Supervision   Survey   Supervision   Sup												
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OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Printed Name   Randy Jackson Title  District Engineer    Z / 13/55    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	40											
I hereby certify that the information contained herein is true and compete to the best of my knowledge and belief.   Signature	16											
contained herein is true and complete to the best of my knowledge and belief.  Signature  Privated Name  Randy Jackson  Title  District Engineer  Date    Z //3/55   SURVEYOR CERTIFICATION    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  SEPTEMBER   1995  Signature and State									$\neg$	OPERATO:	R CERTIFIC	ATION
lo the best of my knowledge and belief.  Signature Delication Frinted Name  Randy Jackson The  District Engineer  Date  /2//3/\$  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  SEPTEMBLE 1995  Signature 1995  Signat			ļ	ļ								
Signature  Deterince Name  Randy Jackson  Title  District Engineer  Dete  /2//3/95  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  SEPTEMBER  1680'  N. LYNN  BEZNER  NO. 7920  Certings All January  LINE  Certings All January  Certings All January  LINE  LINE  Certings All January  LINE			) 	i I			1			contained her	ein is true and	complete
Printed Name Randy Jackson Title District Engineer  Date   Z /3/95   SURVEYOR CERTIFICATION    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 SEPTEMBER 1995  SIGNATURE AND AND SIGNATURE AND AND SIGNATURE AND AND SEPTEMBER 1995  SIGNATURE AND AND SIGNATURE A			i i	l 			1				my knowieage a	ina bellet.
Printed Name / Randy Jackson  Title District Engineer  Date /Z/13/SS  SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was platted 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 SEPTEMBLE 11, 1995  SIgnature and Survey SEPTEMBLE 11, 1995  SIgnature and Survey SEPTEMBLE 11, 1995  SIgnature and Survey SEPTEMBLE 11, 1995  SIGNATURE 11, 1995  SIGNATURE 11, 1995  SIGNATURE 11, 1995  Certification 11, 1997  A V. LYNN A BEZNER NO. 7920				] 			1				$\bigcap$	
Randy Jackson Title  District Engineer  Date  /Z//3/S  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  SUPPRINTED  Professional Survey  SIgnature  * V. LYNN *  BEZNER  NO. 7920  Cartiflight Survey  Cartiflig			 	 						Printed Name	peloso	
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  * V. LYNN * BEZNER NO. 7920  Certification 1.1 (1980)		. *		. i			İ					•
SURVEYOR CERTIFICATION  I hereby certify that the well location shown on his 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  SEPTEMBER  1680'  * V. LYNN *  BEZNER  NO. 7920  Certification  Certificati	<b>-</b>		<del> -</del>	<del> </del>			<del> </del>		╌┤┞			
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 SEPTEMBLE 1995  Signature at Septemble 1995  V. LYNN * BEZNER NO. 7920  Certification 18,10 [AN]			ļ	į						Distri	ct Engine	eer
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 SEPTEMBER 1, 1995  SIgnature of Professional Survey SIGNATURE SURVEYOR NO. 7920  * V. LYNN * BEZNER NO. 7920  Certificate 11 LANS				ļ			ļ			Date		
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 SEPTEMBER 19, 1995 Signatur at 1997 Professional in veyor  * V. LYNN * BEZNER NO. 7920 SETURE NO. 7920 Certific at 10 LAN			 	!			ļ ļ			12/13	3/55	
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   SEPTEMBER   19, 1995			 	ļ						SURVEYO	R CERTIFIC	ATION
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 SEPTEMBER 29: 1995 Signatury and Stall Professional Surveyor  * V. LYNN * BEZNER NO. 7920				 								
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 SEPTEMBER 19, 1995  Signature and Signa		•	 	] 			1			l nereby c	ertity that ti	he well Int was
my supervision, and that the same is true and correct to the best of my belief.  Date of Survey SEPTEMBER 25, 1995  Signature and Self Professione, Surveyor  * V. LYNN * BEZNER NO. 7920  Certification (1) LAND			+	+ 			+			plotted from	field notes o	f actual
Same is true and correct to the best of my belief.  Date of Survey SEPTEMBER 23: 1995  Signature and Salvey of Professional Burley of NO. 7920  Certification of Land			!	] 			i			surveys mo	de by me or	under
Date of Survey SEPTEMBER 28: 1995 Signatur and State of Professional Surveyor  * V. LYNN * BEZNER NO. 7920 Certificachild LAND			İ	į			j					
SEPTEMBER 29 1995  Signature and Seel in Market Professional Surveyor  * V. LYNN * BEZNER NO. 7920  Certification (L) LAND			İ	į			į					
SEPTEMBER 29, 1995  Signatur and September Surveyor  * V. LYNN *  BEZNER  NO. 7920  Certification (L) LAND			1	i			į					
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BEZNER NO. 7920 Cartificachill LAND		- <b>-</b>	- <b>-</b> †		· <b>†</b> -					Profession B	weyor . 1/	W
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Daniel 1/320			! !		1						LANU	#7920
JOB #41653-26/ 98 SW / VHB		<del></del>	1	<del></del>								

#### MINIMUM BLOWOUT PREVENTER REQUIREMEN

## 3,800 pal Working Pressure

#### 3 MWP

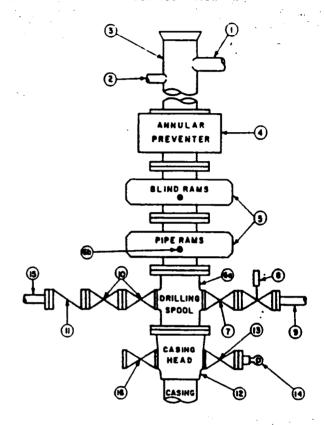
#### STACK REQUIREMENTS

No.	Item		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	draulically		
6a	Orilling spool with 2" min 3" min choke line outlets			
6b	2" min. kill line and 3" m outlets in ram. (Alternate		:	
7	Valve	Gate □ Plug □	3-1/8"	
8	Gate valve—power opera	ited	3-1/8"	
9	Line to choke manifold	-		3*
10	Vaives	Gate C Plug C	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate □ Plug □	1-13/16*	
14	Pressure gauge with nee	dle valve .		
15	Kill line to rig mud pump	manifold		2"

		OPTIONAL	
16	Flanged valve	1-13/16*	

#### EXHIBIT #1

#### CONFIGURATION



## CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- 5.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

### MEC TO FURNISH:

- Bradenhead or casinghead and side valves.
- 2. Wear bushing, if required.

#### GENERAL NOTES:

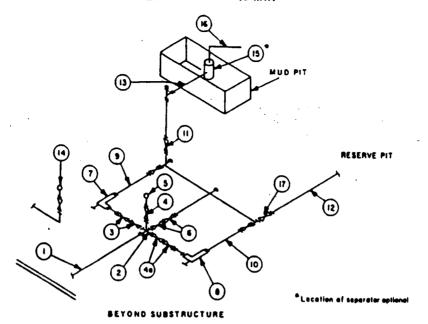
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choire. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be sultably anchored.

- 7. Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control plping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

#### MINIMUM CHOKE MANIFOLD J,000, 5,000 and 10,000 PSI Working Pressure

EXHIBIT #1-A

3 MWP - 5 MWP - 10 MWP



			MINI	MUM REQL	HREMENT	S				
		3,000 MWP			5,000 MWP			10,000 MWP		
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from dritting spool		3.	3.000		3.	5,000		3.	10,000
2	Cross 3"x3"x3"x2"			3.000			5,000			13,535
	Cross 3"x3"x3"x3"									10,000
3	Vaives(1) Gate □ Plug □(2)	3-1/8"		3,000	3-1/6"		5,000	3-1/6"		10,000
4	Valve Gate ☐ Plug ☐(2)	1-13/16*		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000		1	5,000			10,000
6	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/6"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2*		3,000	5.		5.000	2.	<del>                                     </del>	10,000
8	Adjustable Choke	1"		3,000	1.		5,000	2.	+	10,000
9	Line		3*	3,000		3.	5,000	_ <del></del>	3.	10,000
10	Line		5.	3,000		2.	5.000		3.	10,000
11	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3-	1,000		3.	1,000		3*	2.000
13	Lines		3.	1,000		3-	1,000		3-	2.000
14	Remote reading compound standpipe pressure gauge			3.000			5,000			10.000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4-	1,000		4.	1,000		4*	
17	Valves Gate ☐ Plug ☐(2)	3-1/6"		3,000	3-1/8*		5,000	3-1/8*	-	2,000

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

# **EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS**

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 5B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an afternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

# Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTORS

# Grayburg-Jackson Field Eddy County, New Mexico

- Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOPE bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventor and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi W.P. with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventor will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.