		STATES THE INTERIO	SUBMIT IN TRIPLICA (See other instructions- reverse side)			orm approved.	C/SI
5-0 A	RTESIA, WAT 89210			1	ASE DESI 029426-2	GNATION AND SERI	AL NO.
	APPLICATION FOR PERM	IT TO DRILL OR DEEPEN			INDIAN,	ALLOTTEE OR TRI	be name
la TYPE OF WORK:	DRILL 🔀	DEEPEN		NA			
h TYPE OF WELL:				7.0N	IT AGREE	MENT NAME	
	GAS Other	SINGLE ZONE	MULTIPLE ZONE				
2 NAME OF OPERAT	TOR DEVON ENERGY OPER	TRIC CORDOR ATION	171-7-41		em or lee ST"A"#	ASE NAME, WELL N 30	5. 2 m 1
3. ADDRESS AND TE		ATING CORPORATION	136025 H.	9.40	WELL N		
		E 1500, OKC, OK 73102 (4	05) 552-4560	30	-019	5-28465	
4. LOCATION OF WEI	LL (Report location clearly and in a			10 81		DOOT OD HETT DON	28509
At surface 1310*	FNL & 2630' FWL UNO	RTHODOX	ła	GRA	YBURG	G-JACKSON	CO.GB.SA
At top proposed prod.	Loc	AT:0P: Cash	proval /	11.00		., m., or block an -T17 S - R31 E	SURVEY OR ARE
14.DISTANCE IN MILES A	ND DIRECTION FROM NEAREST TOWN OF	1.4		12. 0	COUNTY O	R PARISH	13. STATE
4 miles east & 4 mile	es north of Loco Hills, N.M.			EDD			NM
15.DISTANCE FROM PROPO	SED	16.NO. OF ACRES IN LEASE				7 340 65 65	
LOCATION TO NEAREST		639.56			1	7.NO. OF ACRES A TO THIS WELL	ss igned
PROPERTY OR LEASE L (Also to nearest drig, unit lin	e if any)					40	
10.DISTANCE FROM PROPO TO NEAREST WELL, DR.		19. PROPOSED DEPTH 4400			2	O.ROTARY OR CABL	TOOLS*
OR APPLIED FOR, ON		4400			F	Rotary	
21. ELEVATIONS (Show what 3979 GR	ther DF, RT, GR, etc.)					DX. DATE WORK WI	L START*
					anuary	Y 1, 1995	
SIZE OF HOLE	GRADE, SIZE OF CASING	PROPOSED CASING AND CEN					
12 1/4"	8 5/8" J-55		SETTING DEPTH	-	A PROPERTY	QUANTITY O	
7 7/8°	5 1/2" J-55	24.0#		<b>L</b> IUR		k lite cat + 200	
	51/2 5-35	13.5#	4400'			k Class "C" 35/6	
wellbore will be p outlined in the fol <u>Drilling Program</u> Exhibits #1/1-A = Exhibit #2 = Exhibit #3/3-A = Exhibit #4 = Exhibit #5 = Exhibit #5 = Exhibit #6 = Exhibit #7 = H2S Operating Pl	ckson formation for comme olugged and abandoned per llowing exhibits and attach = Blowout Prevention Equip = Location and Elevation Pl = Road Map and Topo Map = Wells Within 1 Mile Radii = Production Facilities Par = Rotary Rig Layout = Casing Design Proves Sta Ban Converting Speaker Sta	Federal Regulations. Pro Renta CE The unders ment terms, cond at restrictions APR 2 0 conducted o us thereof, as d IL CE Legal Descr abject to Bond Cover Sufferments and M Bond publicitions	grams to adhere to ons gned accepts all applic ition, stipulations and concerning operations n the leased land or po escribed below: C029426-A iption: Section 3-T17N age: Nationwide No.: CO1151	hore o able ortions -R31E	il and ;	gas regulation	IS AFC
s to urm or deepen aire	ctionally, give pertinent data on su	bsurface locations and measured	and true vertical depths. Giv	e blowo	ut preve	nter program, if	any,
24.	· .					Pr	J H-T
						4.	-38-17
SIGNED	m Jackson	RANDY	JACKSON <u>CTENGINEER</u> DA	.TE	12/0	4-194 Nu	API
(This space for Feder	ral or State office usé)						
PERMIT NO			APPROVAL DATE _		·		
CONDITIONS OF APP.		holds legal or equitable title to those ri	ghts in the subject lease which we	ouid entit	le the app	olicant to conduct o	erations thereon.
APPROVED BY /S	/ Yoianda Vega	TITLE Active to	an a	I	DATE _	4.13.	95

See	Instructions	6n	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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Form 3160=5 UN	TTT STATES	
	N JF THE INTERIOR	
	LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires March 31, 1993
	S AND REPORTS ON WELLS	5. Lease Designation and Serial No.
	or to deepen or reentry to a different reservoir.	LC-029426-A
	OR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMI	T IN TRIPLICATE	NA
1. Type of Well Gas Other	`	7. If Unit or CA, Agreement Designation
2. Name of Operator		NA 8. Well Name and No.
DEVON ENERGY OPERATING CORPOR	ATION	WEST "A" Fed. #30
<ol> <li>Address and Telephone No.</li> <li>20 NORTH BROADWAY, SUITE 1500, OF</li> </ol>	KLAHOMA CITY, OKLAHOMA 73102 (405)552-4527	9. API Well No.
4. Location of Well (Footage. Sec., T., R., M., or Survey D	· ·	10. Field and Pool, or Exploratory Area
1560' FNL & 2580' FWL, Unit F, Sec. 3-T1	• •	Grayburg-Jackson
1000 FRE & 2000 FRE, OMET, 060. 5-11		11. County or Parish, State
	······	Eddy County, NM
	s) TO INDICATE NATURE OF NOTICE, REP	
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	Water Shut-Off
	Altering Casing Other Change location	Conversion to Injection Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
In order to avoid an arch site, p from 1310' FNL & 2630' FW to 1560' FNL & 2580' FWL, S		#30 as follows:
14. I hereby certify that the foregoing is true and correct	KAREN ROSA	
Signed KARCA KASA (This space for Federal or State office use)	Title ENGINEERING TECHNICIAN	Date <u>3/1/95</u>
Approved by /// Yclonda Vega Conditions of approval, if any:	Title ACTING AREA MANAGE	Date 4-13,95
Title 18 U.S.C. Section 1001, makes it a crime for any person knowing any matter within its jurisdiction.	ngly and willfully to make to any department or agency of the United States any fa	lse, fictitious or fraudulent statements or representations as t

Form 3160-5 (June 1990)	UNI DEPARTMEN	IFD STATI	ES INTERIOR		
	BUREAU OF I			FORM APPROVED Budget Bureau No. 1004-0135	
	SUNDRY NOTICES		RTS ON WELLS	Expires March 31, 1993 5. Lease Designation and Serial No.	
Do not use this for		_	or reentry to a different reservoir.	LC-029426-A	
	Use "APPLICATION FC			6. If Indian, Allottee or Tribe Name	
		IN TRIPLICA		NA	
1. Type of Well	Gas 🗍 Other			7. If Unit or CA, Agreement Designation NA	•
2. Name of Operator		· · · · · · · · · · · · · · · · · · ·		8. Well Name and No.	
DEVON ENE	ERGY OPERATING CORPORA	ATION		H. E. West *A*30	
3. Address and Telephone	e No.	·		9. API Well No.	
20 NORTH E	BROADWAY, SUITE 1500, OK	LAHOMA CITY,	OKLAHOMA 73102 (405)552-4527	30-015-	
4. Location of Well (Foot	tage. Sec., T., R., M., or Survey De		······································	10. Field and Pool, or Exploratory Area	
	0' FWL, Sec. 3-T17S-R31E			Grayburg-Jackson	
	- · · · <b>- ,</b> · · · · · - · · · ·			11. County or Parish, State	
				Eddy Co., NM	
			ATE NATURE OF NOTICE, REF		_
			TYPE OF ACTION		<u> </u>
Notice of Intent			Abandonment		—
Notice of Intent			Recompletion	Change of Plans	
Subsequent Report		П	Plugging Back	Non-Routine Fracturing	
			Casing Repair	Water Shut-Off	
Final Abandonment l	Notice		Altering Casing	Conversion to Injection	
			Other Change name of well	(Note: Report results of multiple completion on Well	
13. Describe Proposed or Con locations and measure	mpleted Operations (Clearly state all per ed and true vertical depths for all marker	rtinent details, and gr s and zones pertinent	ve pertinent dates, including estimated date of starting any to this work. )*	Completion or Recompletion Report and Log form.) proposed work. If well is directionally drilled, give sul	bsurface
Please no	te change of well name	5:			
	-	est "A" Fede			
	est "A" #30 or We	st A rede	Tai #30		
to H F	West "A" #30			• · · ·	
<b>to</b> 11. L.	West II #50			. <u>2</u> 10	
				$4 \gamma_{1} + \gamma_{2} = 2$	
				••• •	
14. I hereby certify that the	he foregoing is true and correct	<b>.</b>			
signed Kan	in Roja		KAREN ROSA           ENGINEERING TECHNICIAN	Date <u>3/16/95</u>	
(This space for Federal or	State office use)		Λ	,	
Approved by Conditions of approval, if	any:		Tild CINY AREA MAMAGE	Date <u>4-13-95</u>	-
Title 18 U.S.C. Section 1001.	makes it a crime for any person knowin	gly and willfully to n	nake to any department or agency of the United States any	false, fictitious or fraudulent statements or representation	ons as to
any matter within its jurisdicti					
		+C	Trader Atom Day of Child		

\*See Instruction on Reverse Side

NOUDS, NM 0241-1930       RECEIVED       Instruct offices on book         P. O. Drawer, DD       OILs, CONSERVATION DIVISION       State Appropriate         Viesic, NM 88211-0719       OIL, CONSERVATION DIVISION       State Appropriate         DISTRICT, IV       CARL       F. C. Drawer, DD       AMENDED REPORT         DISTRICT, IV       CARL       F. R.       CARL       State Construction on book         State: NM 87507-2088       WELL LOCATION AND ACREAGE DEDICATION PLAT       AMENDED REPORT         10500 Rio, B7507-2088       WELL LOCATION AND ACREAGE DEDICATION PLAT       **Well Number         30       *Property Code       *Property Name       WEST 'A' FEDERAL       **Well Number         * OBDY Reporty Code       *Property Name       WEST 'A' FEDERAL       **Well Number       30         * OGED No.       *Operator Name       WEST 'A' FEDERAL       **Well Number       30         * GEND No.       * Operator Name       WEST 'A' FEDERAL       30       **Beretion         * OULD No.       * SURFACE LOCATION       NORTH       2580°       WEST 'EDDY         * Coll A and Baction       To south B States, N.M.P.M.       Isoo' NORTH       2580°       East/Yest Line         * Coll Cole       **Beret from the North/South Has Peet from the State from the State Hase       County
Suite: NM B7410       Santa: Fe, New Mexico 87504-2088       AMENDED REPORT         DISTRICT IV 0. Box 2088 Santa Fe, NM 87507-2083       GREATH       IESS 300-015-28465       Tool Code       IESS 300-015-28465       IESS 7800 Name         ''AFI Number 3.0 - 015 - 28465       ''Pool Code       ''Pool Code       ''Pool Name       I'Wall Number 30         ''Property Code       ''Property Name       WEST 'A' FEDERAL       ''Wall Number 30         ''OGRD Ne.       ''Operator Name       VEST 'A' FEDERAL       ''Wall Number 30         ''SORD Ne.       ''Operator Name       EVEN ENERGY DPERATING CDMPANY       ''Bort from the ''Bort from the Marth/South Has Peet from the East/Vest Has       County ''''''''''''''''''''''''''''''''''''
NO. BOX 2088       ARE HILL         Sonto Fe, NM 87507-2088       WELL LOCATION AND ACREAGE DEDICATION PLAT         14/7 Number       1 Projecty Code       1 Projecty Code       1 Projecty Code         1 Property Code       1 Projecty Name       Crayburg Jackson 7RUS G, CB SA         1 OCRED Ne.       1 Operator Name       1 Section       1 Section         1 OCRED Ne.       1 Operator Name       1 Section       1 Section         1 OCRED Ne.       1 Operator Name       1 Section       1 Section         1 OCRED Ne.       1 Operator Name       1 Section       1 Section         1 OCRED Ne.       1 Operator Name       1 Section       1 Section         1 OCRED Ne.       1 Operator Name       1 Section       1 Section       1 Section         1 OCRED Ne.       1 Section       1 Section       1 Section       2 Section       1 Section         1 T SOUTH SI EAST, N.M.P.M.       1 Section       1 Section       NORTH       2 Section       2 Section         1 T South South His       Prove North/South Hise       Prest from the East/West Hise       County         1 T South Si East       I to tas       Prest from the North/South Hise       East/West Hise       County         1 T South Si East       Toreaship       East       Let Ma Pee
1 API Number       ? Pool Code       ? Pool Name       Grayburg Jackson; 7RUS G. GIS SA         ? Orgenty Code       ? Property Name       VEST 'A' FEDERAL       1 Weil' Number         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       300         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       300         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       300         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       300         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       ? Birration         ? OCHD Ne.       ? Operator Name       VEST 'A' FEDERAL       ? Birration         ? OCHD Ne.       ? Operator Name       DEVUN ENERGY DPERATING COMPANY       ? Birration         ? OCHD Ne.       ? SURFACE       Lot Ida       ? Feet from the North/South line       ? Settion         ? SOUTH       ?? SOUTH       ? EAST, N.M.P.M.       ? Settion       NORTH       ? Settion       ? EDDY         " BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE
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* Property Code       * Property Name       WEST "A" FEDERAL       30         * OCHED No.       * Operator Name       BEVEN ENERGY OPERATING COMPANY       * Bievation         * SURFACE LOCATION       * SURFACE LOCATION       * SURFACE LOCATION         UL or lot no.       Section       Township       Bange       Lot Ma       Pest from the North/South line       Pest from the East/West line       County         * BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE       * BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE       UL or lot no.       Section       Township       Bange       Lot Ma       Pest from the North/South line       Pest from the East/West line       County         * Deticated Acree       * Jeint or Infill       * Consolidation Code       * Order Ne.       County       County         * Deticated Acree       * Jeint or Infill       * Consolidation Code       * Order Ne.       County       County         * Deticated Acree       * Jeint or Infill       * Consolidation Code       * Order Ne.       County       County         * Deticated Acree       * Jeint or Infill       * Consolidation Code       * Order Ne.       County       County         * Deticated Acree       * Jeint or Infill       * Consolidation Code       * Order Ne.       County       County         * Deticated Acree
* OPERATOR Name       * Operator Name       * Elevation       3977*         * SURFACE LOCATION         UL er ist no.       Section       Ternship       Range       Lot Ma       Peet from the North/South line       Peet from the East/West line       County         F       3       17 SOUTH       31 EAST, N.M.P.M.       Ist Poet from the North/South line       Peet from the East/West line       County         "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE       "Bottostad acres       '' Jestion to the East/West line       County         ''B bedicated acres       '' Jesti er Infill       '' Consolidation Code       '' Order Ne.       County         40       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 true and complete to the best of my knowledge and bekel.         1/560'
* SURFACE LOCATION         UL er let ne.       Section       Tevrnship       Eange       Lot Ma       Peet from the North/South Mine       Peet from the East/West Mine       County         F       3       17 SOUTH       31 EAST, N.M.P.M.       Lot Ma       Peet from the North/South Mine       Peet from the East/West Mine       County         ''BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE       ''Bott or Infill       Bange       Lot Ma       Peet from the North/South Mine       Feet from the East/West Mine       County         ''Bodicated Acree       ''Joint or Infill       ''Consolidation Code       ''Order Ne.       County       County         40       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 contening herein is true and complete in the best of my knowledge and beker.         1560'       1560'       1560'       Printed Name       Randy Jackson
UL or lot no.       Section       Termship       Bange       Lot Ida       Pest from the 1560'       North/South line       Pest from the 2580'       East/West line       County EDDY         "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE         UL or let no.       Section       Township       Bange       Lot Ida       Fest from the       North/South line       Fest from the       East/West line       County         "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE         UL or let no.       Section       Township       Bange       Lot Ida       Fest from the       North/South line       Fest from the       East/West line       County         "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE         UL or let no.       Section       Township       Bange       Lot Ida       Fest from the       North/South line       Fest from the       East/West line       County         40         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         / Annother in the information contained herein is true and complete Io the best of my knowledge and beside/.         Signature       Jockoon       Thile
F       3       17 SOUTH       31 EAST, N.M.P.M.       1560'       NORTH       2580'       WEST       EDDY         "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE         UL er let ne.       Section       Township       Range       Lot lda       Feet from the North/South line       Feet from the East/West line       County         "Bottom the last/West line       County         "Bottom the located Acres       13 Joint or Infill       "Consolidation Code       "Border Ne.         ADDITION UNTIL ALL INTERESTS HAVE BEEN         OUL or A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION         OPERATOR CERTIFICATION         / hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.         Standy Jackson
UL or lot no.         Section         Township       Range       Lot ida       Feet from the Bast/West line       County         1º Dedicated Acres       1º Jeint er infill       1º Consolidation Code       I'Order Ne.         AC         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 true and complete to the best of my knowledge and belief.         // 1560'       1560'         // 1560'       Signature Printed Name Randy Jackson
UL er let no.       Section       Township       Bange       Lot Ma       Feet from the       North/South line       Feet from the       East/West line       County         12 Dedicated Acres       13 Jeint er Infill       14 Consolidation Code       18 Order No.       Image: County       County       County         40       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 true and complete to the best of my knowledge and belief.         1560*       1560*       Signature       OPERATOR CERTIFICATION / hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.         No allowable       1560*       Signature       OPERATOR CERTIFICATION / hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
<sup>2</sup> Dedicated Acree <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>14</sup> Order No. 40 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 true and complete to the best of my knowledge and belief. Signature Conv. Contained Printed Name Randy Jackson Thue
40         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 true and complete to the best of my knowledge and belief.         Signature         Printed Name/ Randy Jackson
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 true and complete to the best of my knowledge and belief. Bignature Converting that the information contained herein is true and complete to the best of my knowledge and belief. Bignature Converting that the information contained herein is true and complete to the best of my knowledge and belief. Bignature Converting that the information contained herein is true and complete to the best of my knowledge and belief. Bignature Converting that the information contained herein is true and complete to the best of my knowledge and belief. Bignature Converting that the information contained herein is true and complete to the best of my knowledge and belief.
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Monay Deckor Printed Name Randy Jackson Title
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Comp Dechar Printed Name Randy Jackson Title
1560' Rignature Printed Name Randy Jackson Title
1560' Rignature Printed Name Randy Jackson Title
Printed Namy Randy Jackson Title
Randy Jackson
District Engineer
2580'
April 5, 1995
SURVEYOR CERTIFICATION
/ hereby certify that the well location shown on this plat was
surveys made by me or under my supervision, and that the
some is true and correct to the best of my belief.
Date of Survey
JANUARY 24, 1995 Signature and embod Professions Surveys
Profession Survey MEX
LYNN 3
BEZNER TONO 77 2005
Contraction No.
JOB #37512- LAK 98 SE / V.H.B.

## MINIMUM BLOWOUT PREVENTER REQUIREMEN.

### 3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

No.	ltem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual h operated rams	ydraulically		
6a	Drilling spool with 2" min 3" min choke line outlets			
<b>6</b> b	2" min. kill line and 3" п outlets in ram. (Alternate			
7	Vaive	Gate 🖸 Plug 🗅	3-1/8"	
8	Gale valve-power oper	ated	3-1/8"	
9	Line to choke manifold			3"
10	Valves	Gate D Plug D	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate D Plug D	1-13/16"	
14	Pressure gauge with ne	edie valve		
15	Kill line to rig mud pump	o manilold	1	2"

		OPTIONAL	
16	Flanged valve	1-13/16"	

# CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- 2.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.
- 8.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:**

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

#### **GENERAL NOTES:**

- 1.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 chore. Valves must be full opening and suitable for high pressure mud service.
- 3. 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.
- 5.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

## EXHIBIT #1



- 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 piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casingheed connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

# Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTORS Grayburg-Jackson Field Eddy County, New Mexico

- 1. 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 value 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.

4

- 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.

## MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP





			MINI	NUM REQL	REMENT	S				
			3,000 MWP			5,000 MWP			10,000 MWF	>
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3.	5,000		3-	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate D Plug D(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
4	Vaive Gate C Plug C(2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16*		10,000
43	Valves(1)	2-1/16"		3,000	2-1/16*		5,000	3-1/8*	1	10,000
5	Pressure Gauge			3,000		1	5,000			10,000
6	Valves Gate C Plug (2)	3-1/8*		3.000	3-1/6"		5,000	3-1/8*		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2.		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"	1	10,000
9	Line		3-	3,000		3-	5,000		3-	10,000
10	Line		2*	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"	2,000
17	Valves Gate D Plug D(2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8"		10,000

(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 dritting.

## 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 6B 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 alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 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.