Distract I					St	ate of	New	Mexico	<u> </u>	151	Form C-104		
PO Box 1980,	Hobbs, N	M 88241-1	980	Energ	y, Mine	rais & Na	atu ral F	Resources Dep	artmen	617	Revised February 10, 1994		
District II				0.11	a 01	ODD				15/2	Instructions on back		
PO Drawer DI	D, Artesia	, NM 8821	1-0719	OIL	CON			ON DIVI	SION	Submit t	o Appropriate District Office		
District III					-		Box 2		_	1	5 Copies		
1000 Rio Braz	os Rd., Az	ztec, NM	87410		Santa	a Fe, N	NM 8	7504-208	8				
District IV PO Box 2088, S	Santa Fa	NINE 9760	4 2000								AMENDED REPORT		
I.				OWAR			TTH	ORIZAT		RANSPORT			
	n by		erator Name an							² OGRID Number			
Devon E	nergy C	-	n (Nevada)							6137			
20 N. Br	-								Reaso	n for Filing Code			
Oklahom		Oklahom	a 73102							NW			
	Number			CP	AVDII		oo Nan		2.4	•			
30-015-29347 ⁷ Property Code					AIDU		roperty	N SR-Q-G-S	DA	······································	Revised February 10, 199 Instructions on bac Submit to Appropriate District Offic 5 Copie AMENDED REPOR ORT Number 37 Code 'Pool Code 28509 'Well Number 95 t Line County EDDY CO., NM t Line County t Line County t Line County t Line County EDDY CO., NM t Line County ate '' C-129 Expiration Date '' POD ULSTR Location and Description ASS T. D3 S-13-98 ASS MER DEC 1997 RECEIVED OCD - ARTESIA '' Perforations 3146'-3922' '' Sacks Cement 0 sx POZ "C" + 200 sx "C" S x POZ "C" + 250 sx "H"		
							. West						
II. [®] Su	rface L	ocatio	n										
UI or lot no.	Section	Township	Range	Lot.Idn	Feet fro	om the	North	South Line	Feet from the	East/West Line	County		
F	4	175	31E		1	780		N	1980	W	EDDY CO., NM		
" Bot	ttom H	lole Lo	cation										
UI or lot no.	Section	Township	Range	Lot.Idn	Feet fro	om the	North/	South Line	Feet from the	East/West Line	County		
121.01	1 ¹ 2 1			<u> </u>			<u> </u>		1		17		
¹¹ Lse Code F	Produ	cing Metho	d Code	¹⁴ Gas Conne	ection Da	ite	° C-129	Permit Numbe	er C-129	Effective Date	" C-129 Expiration Date		
III. Oil a	nd Ca	s Tran	snorters						I				
	sporter	5 11an		" Transporte	r Name	<u> </u>	——T	²⁰ POD	²¹ O/G	22 POD I	II STR Location		
OGR	-			and Addr				100		1	1		
				7				-			Aret IP-3		
				WIV	V	/					3-13-98		
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								на — Л.			Friday were		
										24	56789707		
										A.	A 2		
										11			
										3031	UEG 199/ 5		
										<u> </u>	RECEIVED 5		
											U-ARIESIA		
										152	1.61		
IV. Prod	uced V	Water									1577250		
	²³ POD					2	FOD I	U.STR Locatio	on and Descriptic	n	0000		
	100						100		on and Desemptiv				
V. Well	Compl	etion E)ata				<u> </u>						
25 Spud				Ready Date	T	2	"1D		²¹ PBTD		²⁹ Perforations		
10/1			11	/6/97				980'	394				
	Hole Size	e		³¹ Casing &		ize		3	² Depth Set				
	2 1/4"				5/8"				562'				
·'	7/8"				<u>1/2"</u> 3/8"				<u> </u>	925 sx P0	JZ "C" + 250 sx "H"		
				<i>L</i> .	010	······			5100				
VI. Well	Test I)ata	1			<u>.</u> .				I			
	New Oil		Gas Delivery	Date	³⁶ T	est Date		" Test Len	gth	³⁴ Tbg. Pressure	³⁹ Csg. Pressure		
11/1			_								Ũ		
" Chok	e Size		" Oil		42 V	Vater		" Ga	s	" AOF	43 Test Method		
			010		L	 	╼━┛						
*I hereby certify with and that th	•					•	d 11	0	II CONCED	VATION DIVI	SION		
knowledge and)		iu compiete ti	o uie des	a or my		0					
Signature:	\mathbf{H}	ano	n R	NPA.C	`		Appro	ved by:	001012		C C. GUN		
Printed Name:	/	Karen		d'in			l itle:		DISTANCE				
Title:	Engi	ineering '	Fechnician				/.ppro	val Date:		12-18			
Date:	12/5/	/97	Phone:	(405)	552-45	527	[
¹⁷ If this is a c	hange of	operator fil	I in the OGRIE	number and	name of	the prev	ious ope	rator					
	Previous	Operator S	ignature			P	rinted N	lame		Title	Date		
L													

F-ərm 3 (Octobe	1760-4 er 1990)	DEPAR BL	TMEN	I OF	TATES THE II MANAGE	NTE	SUBMIT RIOR	(Se str			ESIGNAT		PROVED $dS/$		
	WIRLT	COMPLETIC	NOR	RECOM	TIETTON	REDO		C*	_			OTTEE (OR TRIBE NAME		
la TYPE C	-				DRI		A bhe Gil	Cons	. Div i\$i	Ofi					
b. TYPE (OF COMP	LETION:					a11 S 18	t Strea	st l'						
2 NAME		ATOR					ArOther	IM 05		H. E. We	st "B" #	налав, т 195	WELL NO.		
3. ADDRI	ESS AND	DEVON EN TELEPHONE NO.	ERGYC	ORPORA	ATION (NE	VADA)				30-015-29					
							02-8260 (405) 2	36,3611		Grayburs			VILDCAT		
4. LOCAT At surfac		'ELL (Report location 0' FNL & 1980' FV		nd in acco	rdance with ar	ny State –	requirements ro	¥		11.5EC.,T	.,R.,M.		OCK AND SURVEY OR AREA		
At top pr	rod. interva	al reported below	(SAME)					<u>199</u> 7		Sec. 4-178	S-31E				
At total o	depth (Sa	AME)						ECEIVE		·					
				14.1	PERMIT NO.		1/23/27 000	i - ARTE	101 100	ddy Cou		SR	NM		
15.DATE SP 10/14/97		16.DATE T.D.REACEEL 10/20/97) 17. DA 11/6/9		(Ready to prod.)		18. EDEVETIONS (3932' GL 2	DF, RKB,	RT, GR. STC	••) •	19.81 3932		SINGHEAD		
20. TOTAL DI 3980'	EPTE, MD (TVD 21.PLOG, BI 3943'	CK T.D., N	D & TVD	22.1F MULT	IPLE COM	PL., BOW MANY+		23. INTER DRILLE		ROTARY	TOOLS	CABLE TOOLS		
		L(S), OF THIS COM kson 3710'-3922';							,, . . ,			25. WA MADE No	S DIRECTIONAL SURVEY		
		MCFL/GR; Thr	ee Detector	· Density/C	N/GR; CBL						27. WAS No	WELL C	ORED		
28.							port all strings set		· ····						
	IZE/GRADE	WEIGHT, LB	./ FT .		SET (MD)		HOLE SIZE	<u></u>	CENENT, CEN			N	AMOUNT PULLED		
8 5/8''	J-55	24		562'		12 1/4		Surf, 2	200 sx "C" P	OZ + 200	SX	None			
5 1/2"	J-55	15.5		3979'		7 7/8"		Surf, 9	25 sx "C" P	OZ + 250	sx H	None	;		
								[
29. SIZE		TOP (MD)		NER REC	ORD SACKS CI	ENENT*	SCREEN (MD)	30.	SIZE		BING I		RD PACKER SET (ND)		
					<u> </u>			2 3/	8''	3108'			3111'		
					1										
Middle & I	Lower Jac	08D (Interval, size and nu 2kson 3710'-3922' 0n 3146'-3605' (3	(25- <i>A</i> 0"h	•			32. DEPTH INTERVA		SHOT, FRA	-			SQUEEZE, ETC.		
orayourg.		J. JUU-UPIC 1		-)			3788'-3922'		Acidized						
							3710'-3733' 3493'-3605'		Acidized Acidized						
							3146'-3446'		Acidized	<u> </u>					
33.*			·		<u> </u>	PROD	UCTION	<u></u>		8					
DATE FIRST 11/19/97	PRODUCTIO	PRODUCTIONS	S METHOD I(Flowing, gas l	ift, pumping—size							sh	ELL STATUS (Producing or nut-in)		
DATE OF TE	ST	HOURS TESTED	CHOKE S	IZE	PROD'N FOR	R TEST	OIL-BBL.	a	<u>s-wc7</u> .	NO.	TER-BBI		GAS-OIL RATIO		
PLOW. TUBI	NG PRESS.	CASING PRESSUR		ALCULATED	24-HOUR C	DIL-BBL.	GAS-	-HC7.	10	ATER-BBL.		OIL	GRAVITY-API (CORR.) 0		
34. DISPOS	ITION OF C	AS (Sold, used for fuel,)	ensed, etc.)				ACCEPTED	FOR A		SY					
						Ę.	JR.G. SEEL	DAVI	DEGL	A RE					
35. LIST OF Deviation S							DECI	1. 5 19	97						
36. I her	aby certif	y that the foregoing	\geq \sim	ached info	prmation is co			termined 1 M	from all av	eilable r	ecords	$\frac{1}{2}$			
SIGN	ED_K	aren I	Jyl	s		rle <u>en</u> g	GINEERING TECH				15	141	/		
					_ "(See Inst	ructions	s and Spaces for	r Additic	onal Data or	1 Hevers	e 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.

	Т						-	` ,			 	
CALINA	TOP	TRUE VERT. DEPTH										
		MEAS. DEPTH	511	681	1650	1830	2104	2730	3125	3448	<u></u>	
ė		NAME	Rustler	Salado	Tansill	Yates	Seven Rivers	Artesia (Queen)	Grayburg	San Andres		
including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	DESCRIPTION, CONTENTS, ETC.										ACID, SHOT, FRACTURE, CEMEMNT SQUEEZE, ETC (continued from the front)	Frac'd w/44.500 gals SFG 3000 + 127.500# 20/40 sand + 33.000# 16/30 sand.
ushion used, ti	BOTTOM										DEPTH	3146'-3605'
erval tested, c	TOP						_				 	
including depth int	FORMATION											

vest "B" #95, 30-015-29347, LC-029426-B

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Deviation surveys taken on Devon Energy Operating Corporation's West B #95 well in Eddy County, New Mexico:

Depth	Degree
190	.50
382	1.00
563	1.00
1046	.25
1515	1.00
2014	.75
2511	.75
3011	1.75
3263	2.00
3545	2.00
3980	2.50

I hereby certify that I have personal knowledge of the facts placed on this sheet and that such information given above is true and complete.

Jeh W. Inter fron Drilling Company

Before me, the undersigned authority, on this day personally appeared John W. Norton, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.

Norton

SWORN AND SUBSCRIBED TO before me this 27th day of October 1997.



Notary Public in and for Lubbock County, Texas

Form 3160-5 (June 1990)	DEPARTME	OF THE INTERIOR	(CISE 210-2833RM APPROVED Budget Bureau No. 1004-0135
Do not use this form fo	r proposals to drill o	AND REPORTS ON WELLS r to deepen or reentry to a different R PERMIT—" for such proposals 3 <	reservoir.	Expires March 31, 1993 5. Lease Designation and Serial No. LC-029426-B 6. If Indian, Allottee or Tribe Name
1. Type of Well	SUBMIT			7. If Unit or CA, Agreement Designation
Oil Well Gas Well 2. Name of Operator DEVON ENERGY			Sta	8. Well Name and No. H. E. West "B" #95
		AHOMA CITY, OKLAHOMA 73102 (405) 23	15-3611	9. API Well No. 30-015-29347 10. Field and Pool, or Exploratory Area
 Location of Well (Footage, Se 1780' FNL & 1980' FW 		cription)		Grayburg Jackson 11. County or Parish, State Eddy County, NM
CHECK APPR	OPRIATE BOX(s)	TO INDICATE NATURE OF NO	TICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMI	SSION	ТҮРЕ	OF ACTION	
 Notice of Intent Subsequent Report Final Abandonment Notice 		 Abandomment Recompletion Plugging Back Casing Repair Altering Casing ∑ Other Spild, TD'd & set casing 		Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water Note: Report results of multiple completion on Well
Spud well Ran	(a) 3:15 p.m. on 1 surface casing as ented casing as fo celloflake, (wt 12.	nent details, and give pertinent cates, including estimated of and zones pertinent to this work.)* 0/14/97. follows: 13 jts of 8 5/8", 24#, J- llows: <u>Lead</u> – 200 sx 35/65 "C" 7 ppg, yield 1.87 cft/sk). <u>Tail</u> – 2 'd cement to surface.	date of starting any propo 55, STC, 8rd; POZ w/6% g	set @ 562'. el, 2% CaCl2 & ¼ #/sk
	TD of 3980'.	g as follows: 89 jts of 5 ½", 15.5	#, J-55, LTC,	8rd; set @ 3979', float collar @

Cemented casing as follows: <u>Lead</u> - 925 sx 35/65 "C" POZ w/4% gel, 5% salt & ¼ #/sk celloflake, (wt 13.0 ppg, yield 1.75 cft/sk). <u>Tail</u> – 250 sx "H" w/10% A10-B, 5% salt & ¼ #/sk celloflake, (wt 14.5 ppg, yield 1.57 cft/sk). Circ'd cement to surface.

14. I hereby certify that the foregoing is true and correct Signed Karlen Byers	Karen Byers Title <u>Engineering Technician</u>	Date 10/21/97
(This space for Federal or State office use)	Title	ACCEPTED UNE RECORD Date NOV C & 1997
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly a matter within its jurisdiction.	nd willfully to make to any de artment or agency of the United States	any false, fightitious or fraudulent statistications or representation, as t

SECENCED

24 # 🛆 22 IJU LPPI

BOSWELL OFFICE BURENU GF LAND HOME

	BUREAU OF L	AND MANAGEMEI	ERAQTESIA,	/,3369 10 _,34		DESIGNATION AND	SERIAL NO.
AP	PLICATION FOR PE	RMIT TO DRILL	OR DEEPEN		LC 0294		
la TYPE OF WORK:		DEEPEN			6.IF IND: NA	IAN, ALLOTTEE OR	TRIBE NAME
b. TYPE OF WELL:				i		GREEMENT NAME	
$\frac{M_{WELT}}{M_{WELT}} \square \square$	GAS WELL Other	SINGLE ZONE	MULTIPLE ZONE		NA	R LEASE NAME, WEI	
. NAME OF OFERA	DEVON ENERGY COR	PORATION (NEVAL	A 6137	the of straight annuals	1		20058
ADDRESS AND T	ELEPHONE NO.		DFC	WER	9.API WEI	LL NO.	
	20 N. BROADWAY, SUI	ITE 1500, OKC, OK	73102 (405) 552-450	50	30 ~	AND POOL, OR WIL	347
At surface 1780	' FNL & 1980' FWL	in accordance with any Si	•	4 1997	GRAYB	URG-JACKSON	AND SURVEY OR AREA
At top proposed pro	d. zone (SAME)	ι F	AND PAR	ALC MARY	SECTIO	ON 4 -T17 S - R3	I E
	AND DIRECTION FROM NEAREST TOWN	a da tobi dilice				TY OR PARISH	13. STATE
.5 miles East & 3.5	5 miles North of Loco Hills, N	. M .	Dis	T. 2	EDDY		NM
DISTANCE FROM PROP LOCATION TO NEARES		16.NO. OF ACRES I	N L LASE			17.NO. OF ACRE	
PROPERTY OR LEASE	LINE, FT. 660'	1919.88				TO THIS WEL 40	.L
Also to nearest drig, unit 1 DISTANCE FROM PROP TO NEAREST WELL, D	ine if any) OSED LOCATION* RILLING, COMPLETED,	19. PROPOSED DEPTH	<u></u>			20.ROTARY OR C	CABLE TOOLS -
OR APPLIED FOR, ON	THIS LEASE, FT. 200'	4400'				Rotary	
ELEVATIONS (Show wh 32	ether DF, RT, GR, etc.)					PPROX. DATE WORK ruary 15, 1	
					102	Luary 15, 1	
		PROPOSED CASING	G AND CEMENTING	PROMOMTO	NIFD	WATER B	
SIZE OF HOLE	GRADE, SIZE OF CASING		G AND CEMENTING	PROCIONTRO	OLLED	WATER B	TY OF CEMENT
SIZE OF HOLE	8 5/8" J-55	24.0#	600'	PLOCIDNTR(1		TY OF CEMENT
SIZE OF HOLE				PICCONTRO SETTING DEPTH	1		TY OF CEMENT
SIZE OF HOLE 1/4" 7/8" We plan to circu	8 5/8" J-55 5 1/2" J-55 late cement to surface on a	24.0# 15.5# all casing strings. D	600' 4400' evon Energy Cor	poration (Neva	da) pron	QUANTI ²⁵ CHRCCULA ²⁵ CHRCCULA ⁵⁰ sk Lite cmt +	TY OF CEMENT 425 sk Class "C" 425 sk Class "B"
SIZE OF HOLE 1/4" 7/8" We plan to circu he Grayburg-Ja	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm	24.0# 15.5# all casing strings. D nercial quantities of	evon Energy Cor oil. If the Gravb	poration (Neva	da) prop	QUANTIN 25 CHROSELA 50 sk Lite cmt + poses to drill to non-commerce	TY OF CEMENT 425 sk Class "C" 425 sk Class "E" 0 4400' to test vial the
SIZE OF HOLE 1/4" 7/8" We plan to circu he Grayburg-Ja wellbore will be p	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe	24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation	evon Energy Cor oil. If the Gravb	poration (Neva	da) prop	QUANTIN 25 CHROSELA 50 sk Lite cmt + poses to drill to non-commerce	TY OF CEMENT 425 sk Class "C" 425 sk Class "E" 0 4400' to test vial the
SIZE OF HOLE 1/4" 7/8" We plan to circu he Grayburg-Ja vellbore will be p putlined in the fo	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe llowing exhibits and attac	24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation hments.	evon Energy Cor oil. If the Grayb	poration (Neva urg-Jackson is adhere to onsho	da) prop deemed ore oil an	QUANTIN 25 CHICKLE 50 sk Lite cmt + coses to drill to non-commerce ad gas regulat	425 sk Class "C" 425 sk Class "C" 4400' to test tial, the tions are
SIZE OF HOLE 1/4" //8" We plan to circu he Grayburg-Ja vellbore will be j vullined in the fo Drilling Program	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe illowing exhibits and attac	24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation hments. The	evon Energy Cor oil. If the Grayb ns. Programs to a	poration (Neva urg-Jackson is adhere to onsho	da) prop deemed ore oil an	QUANTI 25 CHRCLEA 50 sk Lite cmt + 00ses to drill to non-commerce ad gas regulati	425 sk Class "C" 425 sk Class "C" 44400' to test cial, the ions are
SIZE OF HOLE 1/4" 7/8" We plan to circu he Grayburg-Ja vellbore will be poutlined in the fo Drilling Program Exhibits #1/1-A Exhibit #2	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe illowing exhibits and attac = Blowout Prevention Equ = Location and Elevation	24.0# 24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation hments. The ipment terr Plat rest	evon Energy Cor oil. If the Gravb	poration (Neva ourg-Jackson is adhere to onsho epts all applical pulations and	da) prop deemed ore oil an ble GEN	OUNTER OUNTER	425 sk Class "C" 425 sk Class "C" 425 sk Class "E" 4400' to test tial, the ions are CT. TU REMENTS AND
SIZE OF HOLE 1/4" //8" We plan to circu he Grayburg-Ja vellbore will be p outlined in the fo Drilling Program Exhibits #1/1-A Exhibit #2 Exhibit #3/3-A	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe llowing exhibits and attac = Blowout Prevention Equ = Location and Elevation = Road Map and Topo Ma	24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation hments. The lipment term Plat rest ap con	evon Energy Cor oil. If the Grayb ois. Programs to a undersigned acco ns. condition, stip rictions concernin ducted on the leas	poration (Neva urg-Jackson is adhere to onsho epts all applical oulations and ig operations sed land or port	da) prop deemed ore oil an ble APP GEN tions SPE	OUANTI 25 CHROSELA 50 sk Lite cmt + coses to drill to non-commerce ad gas regulati ROVAE SUBJE IERAL REQUIR CIAL STIPUE	425 sk Class "C" 425 sk Class "C" 425 sk Class "E" 4400' to test tial, the ions are CT. TU REMENTS AND
SIZE OF HOLE 1/4" //8" We plan to circu he Grayburg-Ja vellbore will be p utlined in the fo Drilling Program Cxhibits #1/1-A Cxhibit #2 Cxhibit #3/3-A Cxhibit #4	8 5/8" J-55 5 1/2" J-55 late cement to surface on a ckson formation for comm plugged and abandoned pe llowing exhibits and attac = Blowout Prevention Equ = Location and Elevation = Road Map and Topo Ma = Wells Within 1 Mile Rad	24.0# 15.5# all casing strings. D nercial quantities of er Federal Regulation hments. The lipment terr Plat rest ap con dius the	evon Energy Cor oil. If the Grayb ns. Programs to a cundersigned acco ns. condition, stip rictions concernin ducted on the leas reof, as described	poration (Neva urg-Jackson is adhere to onsho epts all applical pulations and ig operations sed land or port below:	da) prop deemed ore oil an ble APP GEN tions SPE	OUNTER OUNTER	425 sk Class "C" 425 sk Class "C" 425 sk Class "E" 4400' to test tial, the ions are CT. TU REMENTS AND
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MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

No.	tiem		Min. I.D.	Min. Nomirial
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams			
6a	Drilling spool with 2" min 3" min choke line outlets	. kill line and		
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gale 🛛 Piug 🗅	3-1/8*	
8	Gate valve-power opera	ted	3-1/8*	
9	Line to choke manifold			3.
10	Valves	Gate C Piug C	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 nee	die valve		
15	Kill line to rig mud pump i	manifold		2"

OPTIO	
16 Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

- 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:
- Bradenhead or casinghead and side valves.
- 2.Wear bushing, il 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.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

EXHIBIT #1-A



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

			MINI	NUM RECIL	REMENTS	S				
			3,000 MWP			5,000 MWP			10,000 MWF	,
No.		I.D.	NOMINAL	RATING	1.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
з	Vaives(1) Gate D Plug D(2)	3-1/8-		3,000	3-1/8-		5,000	3-1/8*		10,000
4	Valve Gate C Plug D(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			5,000			10,000
6	Valves Gate C Plug D(2)	3-1/8*		3,000	3-1/8*		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.		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	Vaives Gate C Plug C(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3-	1,000		3.	1,000	1	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 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 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 buil plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top or gas separator should vent as far as practical from the well,