Form 3160-3	- 	ىيە بەھھىمەت تەسە. ۋ	ere n orga Roman in N	SUBMIT IN T	RITTICATE*	ICT FORM APPROVED		
(July 1992)		TED STATES		(Other Instru reverse s	s on	OMB NO. 1004-0136 Expires: February 28, 1995		
	DEPARTMEN	T OF THE II	NTEF	RIOR	ſ	5. LEASE DESIGNATION AND SEBIAL NO.		
	BUREAU O	LAND MANAG	EMEN	IT		LC - 063228		
APPL	ICATION FOR F	ERMIT TO D	RIL	OR DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
IA. TYPE OF WORK	RILL 😡		· · · ·	A 201		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL		19 20 A Contraction		0.25280				
	OAS WELL OTHER			59930		8. FARM OR LEASE NAME, WELL NO.		
2. NAME OF OPERATOR			1.	26-2000		Corsair 27 Federal #1		
Echo Product:	ion, Inc.		-	7//	70/ [9. API WELL NO.		
3. ADDRESS AND TELEPHONE NO	D.		<u></u>			30-07 5-3490/		
PO Box 1210,	Graham, TX 7645	60 (94 0) 549	-3292	2	-	10. FIELD AND POOL, OR WILDCAT		
	Report location clearly an	d in accordance wit	h any S	tate requirements.*)		Triste Draw Delaware		
At surface 331	0' FSL & 1980' H	FEL			-	11. SEC., T., R., M., OR BLK.		
At proposed prod. 20		\mathcal{O}				AND SURVEY OR AREA		
At proposed prod. 20	Juć.	U				Sec 27 T23S R32E		
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POST	r offici	B.+		12. COUNTY OR PARISH 13. STATE		
45 miles wes	t of Jal, New Me	exico				Lea NM		
15. DISTANCE FROM PRO LOCATION TO NEARE			16. NO). OF ACRES IN LEASE		ACRES ASSIGNED		
PROPERTY OR LEASE		330'		600		D THIS WELL 40.00		
18. DISTANCE FROM PRO	DPOSED LOCATION*					Y OR CABLE TOULS		
TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED, HIS LEASE, FT.	1st well	1st well 9000' r			otary		
21. ELEVATIONS (Show w	thether DF, RT, GR, etc.)	ISC WOLL			1 100	22. APPROX. DATE WORK WILL START*		
3662' GR		IRLSBAD CC	6 6 8 7 8	olize Unter	Basin	2/1/2000		
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	M			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF CEMENT		
17 ¹ / ₂	13 3/8	48#		600'	Circ 1	o Surface		
11"	8 5/8" 8	24# & 32#		4700'	1	to Surface		
7 7/8"	4 ¹ / ₂ "	11.6 & 10.	5	9000'		above top of Delaware		

Echo Production, Inc. proposes to drill to a depth sufficient to test the Delaware formation. If productive, $4\frac{1}{2}$ " casing will be set. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal Regulations. Specific programs as set out in Onshore Oil and Gas Order #1 are outlined in the following attachments:

NMOCD Form C-102 Well Location and Acreage Dedication Plat Hole Prognosis Surface Use and Operating Plan Exhibit "A" Equipment Description Exhibit "B" Planned Access Roads APPROVAL SUBJECT TO Exhibit "C" One Mile Radius Map Exhibit "D" Drilling Rig Layout Plan

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATT: OHED

pay (+6400')

600' above top of Delaware

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED JOM Gold	Uperations Manager	DATE1/7/0	0
(This space for Frederal or State office use) (which and OHIGINAL SIGNED SUPERVISION PERMIT NO. DISTRICT (SUPERVISION)	APPROVAL DATE JAN 27	[×] 2000	
Application approval does not warrant or certify that the applicant holds le CONDITIONS OF APPROVAL, IF ANY:	gal or equitable title to those rights in the subject lease which w		uct operations thereon.
	chanis and Adherids		2
APPROVED BY	TTLE	DATE	
*See	Instructions On Reverse Side		Sel Yungerl
Title 18 U.S.C. Section 1001, makes it a crime for any p United States any false, fictitious or fraudulent statemer	erson knowingly and willfully to make to any nts or representations as to any matter within	r department or agency n its jurisdiction.	of the M





District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

1/7/00

AMENDED REPORT

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

		FOF		RMIT '	ואַר טע	II PE-EN	TER DEI	PEI	N PLUGBA	ACK	OR A	DD A ZONE	
Echo Pi	APPLICATION FOR PERMIT TO DRILL, P ⁻ -ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE 'Operator Name and A dress. Echo Production, Inc. PO Box 1210 'API Number												
Graham	Texas	5 76	450								30 - 0	25-34901	
4 Prope	rty Code)			27 Fed		roperty Name					' Well No.	
25.	r S C	<u> </u>		orsair	Z7 Fed	⁷ Surface	Location					<u> </u>	
UL or lot no.	Section	Tow	nship	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/W	est line	County	
0	27	2	235	32E		330'	south		1980'	ea	st	Lea	
			⁸ Pro	oposed	Bottom	Hole Loca	ion If Diff	eren	t From Surf	face			
UL or lot no.	Section	Town	nship	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/W	est line	County	
'Proposed Pool 1 "Proposed Pool 2 Triste Draw Delaware													
" Work T N	ype Code		¹² Well Type C		Çode	¹³ Cabl Rotary	e/Rotary		¹⁴ Lease Type Co Federal	¹⁴ Lease Type Code		¹⁵ Ground Level Elevation 3662 '	
	ltiple		17	Proposed 9000'	Depth		mation Sand		¹⁹ Contractor		2,	²⁸ Spud Date / 1 / 2000	
					Propos	ed Casing a		Pro	gram	I.			
Hole Si	7£		Casin			ng weight/foot				Estimated TOC			
17 ½"		13	3/8"	No	48#		600'		650 sacks		Cir	c to Surface	
11"		85	6/8"		24# 8	x 32#	4700 '	<u></u>	1500 s	sacks	<u> </u>	c to Surface	
7 7/8"		4 ¹	5"		10.5#	& 11.6#	.6# 9000'			suff. to reach			
									<u>+</u> 600 f		above top of Delaware pay		
										Del	aware	pay	
¹² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Echo Production, Inc. proposes to drill to a depth sufficient to test the Delaware formation. If productive, 4½" casing will be set. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal Regulations.													
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:				Approved by HIC	JIN/J	ONSERVA SIGNED BY	CHRIS						
Printed name:	Tom (Gold	len		 		Title:						
^{Title:} Ope:	rations	s Ma	inage	er			pproval Date:		3 7 2000	Expiration	Date:		
Date: Phone:				Conditions of App	roval :								

Attached 🛛

940-549-3292

A sa Fed Nr Dor

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1908 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

API Number

029 **Property** Code 578C

UL or lot no. Section Township

006742

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

County

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

East/West line

87505			AMENDED REPORT
WE	LL LOCATION ANI	D ACREAGE DEDICATION PLAT	
	² Pool Code	Pool Name	
901	59930	Triste Draw Delaware	
		Property Name	Well Number
CORSA	IR 27 FEDERAL		
FCUO	PRODUCTION, INC.	Operator Name	Elevation 3662.
CONU	ERODOLION, INC.		A CONTRACTOR OF A CONTRACTOR O

Feet from the

¹⁰ Surface Location Lot Idn Feet from the North/South line Range

0	27	23-S	32-E		330	SOUTH	1980	EAST	
			¹¹ Bot	tom Hole	e Location If	Different From	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acre	s ¹³ Joint o	r Infill 1" C	Consolidation (Code ¹⁵ Ori	der No.	1		<u> </u>	

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

16			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
			Signature Jan Jolan Printed Name Tom Golden
			Tile Operations Manager
			¹⁸ 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.
			DECEMBER 22, 1999 Date of Server, N. R. R. E. D. D. Signature and Server MEACO
	330,	1980'	EN MERCO 5412 EN MERCO 5412 EN MERCO ESTONE



HOLE PROGNOSIS FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. CORSAIR 27 FEDERAL #1 330' FSL & 1980' FEL SECTION 27-23S-32E LEA COUNTY, NEW MEXICO

In conjunction with Form 3160-3 Application for Permit to Drill, Echo Production, Inc. submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geological Name of Surface Formation:

Permian

2. Estimated Tops of Geologic Markers:

Rustler	1200'	Cherry Canyon	5950'
T. Lamar	4890'	Bone Spring	8700'
Bell Canyon	4920'	Avalon Sand	8860'
T.D.	9000'		

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Surface	150'	Fresh Water
Delaware	4920'-8450'	Oil or Gas
Bone Spring	8700'	Oil or Gas
Avalon Sand	8860'	Oil or Gas

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 600' and circulating cement back to surface. Any shallower zones above TD that contain commercial quantities of oil and/or gas will have cement circulated across the zone.

4. Casing Program:

Hole Size	Interval	OD Csg	Weight, Grade, JT. Cond, Type
17 ½"	0-600'	13 3/8"	48#, H-40, ST&C
11"	0-4700'	8 5/8"	24# & 32#, J-55, S-80, LT&C
7 7/8"	0-TD	4 ½"	10.5 & 11.6#

5. <u>Cementing Program:</u>

Surface Casing:	13 3/8" casing will be set at approximately 600' and cemented with approximately 650 sacks of Premium
	Plus cement with 2% CaCl and additives. The
	amount may be adjusted depending upon the fluid
	caliper results, however, cement in sufficient
	quantities to circulate will be utilized.

- Intermediate Casing: 8 5/8" casing will be set at approximately 4700' and cemented with approximately 1500 sacks of 35/65 Poz "c" with additives. The amount may be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Production Casing: If appropriate, 4 ½" casing will be set at Total Depth. Echo will utilize cement in sufficient quantities to tie back 600' above any Delaware pay. Well will be cemented w/appropriate number of sacks of 50/50 POZ 'H' w/ additives and 100 sacks of 'C' Neat.

HOLE PROGNOSIS CORSAIR 27 FEDERAL #1 PAGE 3

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) show in Exhibit "A" will consist of a double ram-type (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 $\frac{1}{2}$ " drill pipe rams on bottom. Both BOP's will be nippled up on the 13 3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000* psi and the hydril to 70% of rated working pressure (2100* psi). * 2065# or 70% of burst on 8 5/8" if 24# J casing is utilized.

7. Types and Characteristics of the Proposed Mud System:

O' to 600'	Fresh water with lime, gel paper and fiber will be used for drilling purposes. Weight 8.4 – 8.6, Vis 29-36, PH > 8.
600' to 4700'	Saturated brine water purchased from commercial sources with paper and fiber will be utilized. Weight 8.6-10.5, Vis 32-34, Ph 10.
4700' to 9000'	Brine and fresh water purchased from commercial sources with gel and starch, 3% KCI, 20-50 PPM Nitrates, Cl 30- 75,000, caustic for control and paper for seepage will be utilized. Weight 8.5 – 8.9, Vis 29-34, Ph 9-10, WL 20-50.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be available at the well site at all times.

8. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- 9. Testing, Logging and Coring Program:

A Mudlogging unit will be on location from top of Delaware formation to TD. Mudlogging unit will be employed from approximately 4920' (Top of Delaware) to 9000' (Total Depth).

If indicated, AIT-GR, CNL-LDT-GR logs and Caliper logs will be run at TD. The Gamma Ray AIT will be run from TD back to the intermediate casing. The Gamma Ray Compensated Neutron Log will be run from TD back to surface. If indicated, Echo may elect to run rotary sidewall cores from selected intervals from approximately 4920' to 9000' dependent upon logging results.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. Anticipated bottomhole pressure is 3600# PSI.

Loss of circulation is possible in the Delaware section of the hole, however, no major loss circulation zones have been reported in offsetting wells.

Six wells have been drilled and completed in the immediate area. To date, Hydrogen Sulfide has not been encountered. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blow out preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.



HOLE PROGNOSIS CORSAIR 27 FEDERAL #1 PAGE 5

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is February 1, 2000. Once commenced, the drilling operation will be completed in approximately 20 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities. In conjunction with Form 3160-3, Application for Permit to Drill, Echo Production, Inc submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations. SURFACE USE AND OPERATING PLAN FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. CORSAIR 27 FEDERAL #1 330' FSL & 1980' FEL SECTION 27-23S-32E LEA COUNTY, NEW MEXICO

Submitted with Form 3160-5, Application For Permit to Drill covering the above proposed well. The purpose of the plan is to describe the location, the proposed construction activities, the operations, the surface disturbance involved, and the rehabilitation of the surface after completion of proposed well so that an appraisal can be made of the environment affected by the proposed well.

1. Existing Roads:

- A. The Well Location and Acreage Dedication Plat for the proposed wellsite was staked by Dan R. Reddy, Registered Professional Engineer, Carlsbad, New Mexico and is attached.
- B. All roads to the location are shown on Exhibit "B". The existing roads are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be completed where necessary as determined during the on-site inspection.
- C. Directions to location: From Carlsbad; <u>+</u> 8 miles on Hwy 285 to Hwy 31, NW <u>+</u> 8 miles to 128, West <u>+</u> 18 miles to Pipeline Road, NE 4 ½ miles to lease road & SE 3/4 mile.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as operations continue on the lease.

2. Proposed Access Road:

A new access road of approximately 3800' will be required as illustrated on Exhibit "B".

A. The average grade will be less than 5%.

- B. No turnouts will be necessary.
- C. No culverts, gates, or low-water crossing will be necessary.
- D. Surfacing material will consist of native caliche. If required, road across pad will be surfaced with a minimum of 6" of caliche. Caliche will be obtained from the nearest BLM approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

3. Location of Existing Wells:

All existing wells within a one mile radius of proposed well are show on Exhibit "C".

4. Location of Existing and/or Proposed Facilities:

In the event the proposed well proves to be productive Echo Production, Inc. will furnish plats showing "on well pad" facilities and "off well pad" facilities (if necessary) by Sundry Notice prior to construction.

5. Location and Type of Water Supply:

The proposed well will be drilled with a combination of brine and fresh water mud systems as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing and proposed access roads as indicated on Exhibit "B". No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad will be obtained from a BLM approved caliche pit. All roads and pads will be constructed of 6" rolled and compacted caliche.

- 7. Methods of Handling Water Disposal:
 - A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
 - B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. The fourth side will be fenced immediately following rig removal. The reserve pit will be plastic lined (5-7 mil thickness) to minimize loss of drilling fluids and saturation of the ground with brine water. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
 - C. Water produced from the proposed well during completion may be disposed into the reserve pit or a steel tank (depending upon rates). After the proposed well is permanently placed on production, produced water will be collected in a fiberglass tank at the Avion Federal #2 and piped to an approved disposal system down already existing line. Produced oil will be collected in steel tanks until sold at the Avion Federal #2 facility.
 - D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Compliance with current laws and regulations will be followed pertaining to the disposal of human waste.
 - E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by the operation.

F. After the rig is moved out and the proposed well is either completed or abandoned, all waste materials will be removed within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until dried. When the reserve pit is dry enough to breakout and fill and, as weather permits, the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only that portion of the pad required for production operations will remain in use. In the event of a dry hole, only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well.

9. Well Site Layout:

- A. The drill pad layout with elevations, as staked by Dan R. Reddy, Registered Professional Engineer, is shown on Exhibit "D". Dimensions of the pad, pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is fairly level no major cuts will be required.
- B. Planned orientation for the rig and associated drilling equipment, reserve pit, pipe racks, turn-around and parking areas, and access road are shown on Exhibit "D". No permanent living facilities are planned, however, a temporary foreman/toolpusher's trailer will be on location during drilling operations.

C. The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).

10. Plan for Restoration of the Surface:

A. Upon completion of the proposed operations, should the proposed well be abandoned, the pit area, after allowed to dry, will be broken out and leveled. The original topsoil will be returned to the entire location, and leveled and contoured to the original topography as closely as possible.

All trash, garbage and pit lining will be removed in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled with 120 days after abandonment.

- B. The disturbed area will be revegetated and reseeded during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fence on the rig (fourth) side to prevent livestock or wildlife from becoming entrapped. The fencing will remain in place until the pit area is cleaned and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, should the proposed well be productive, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from an area of the original drillsite not needed for production operations or facilities will be removed and used for construction of thicker pads or firewalls for the tank batter installation. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drillsite will be used to recontour the pit area and unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

The wellsite and lease are located entirely on Federal surface.

12. Other Information:

- A. The topography around the wellsite is rolling terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area includes those typical of semiarid desert land.
- B. The soils are clayey sand over caliche base.
- C. There is no permanent or live water in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.
- F. An archaeological study has been conducted for the location and access road. The report has been submitted separately.

13. Lessee's and Operator's Representative:

Tom Golden PO Box 1210 Graham, Texas 76450 Phone Number: (940) 549-3292 – office (940) 521-1045 – cellular (940) 549-3690 – home

14. Certification:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Echo Production, Inc. and its contractors and sub-contractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

ECHO PRODUCTION, INC.

me

Tom Golden Operations Manager

DATE: _____ January 7, 2000

EXHIBIT "A"

EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

- Bell nipple 1. 2. Hydril bag type preventer Ram type pressure operated blowout preventer with blind rams. 3. Flanged spool with one 3"and one 2"(minimum) outlet. 4. 5. 2"(minimum) flanged plug or gate valve. 2"x 2"x 2"(minimum) flanged. 6. 3"gate valve. 7. Ram type pressure operated blowout preventer with pipe rams. 8. Flanged type casing head with one side outlet. 9. 2" threaded (or flanged) plug or gate valve. 10. Flanged on 5000# WP, threaded on 3000# WP or less. 3" flanged spacer spool. 11. 3"x 2"x 2"x 2" flanged cross. 12. 13. 2" flanged plug or gate valve. 2" flanged adjustable choke. 14. 15. 2" threaded flange. 2" XXH nipple. 16. 2" forged steel 90'Ell. 17. 18. Cameron (or equal) threaded pressure gauge. 19. Threaded flange. 20. 2" flanged tee. 21. 2" flanged plug or gate valve. 2 1/2" pipe, 300' to pit, anchored. 22. 23. 2 1/2" SE valve. 2 1/2" line to steel pit or separator. 24. NOTES:
 - 1). Items 3,4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
 - 2). The two valves next tho the stack on the fill and kill line to be closed unless drill string is being pulled.
 - 3). Kill line is for emergency use only. This connection shall not be used for filling.
 - 4). Replacement pipe rams and blind rams shall be on location at all times.
 - 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
 - 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.

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STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operator Name: ECHO PRODUCTION, INC. Street or PO Box: PO Box 1210 City, State: Graham, Texas Zip Code: 76450

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NM- LC 063228 (Corsair 27 Federal)

Legal Description of Land: All of Sec 27 T23S R32E except SW/4 of SW/4

Formation(s) (if applicable): Delaware

Bond Coverage: (State if individually bonded or another's bond) Statewide Bond - Echo Production, Inc.

BLM Bond File No.: NM 2692

Authorized Signature: Jon Lola

Title: Operations Manager

Date: January 7, 2000

WILL BE RELEASED CONFIDENTIAL LOGS ABOVE DATE DOES NOT INDICATE WHEN Ţ V. all ELF