Fú. 21 3160-3 (December 1990)	DEPARTMEN	TED STATE	S A INTE		is on	 * Form approved. Budget Bureau Expires: Decension 5. LEASE DESIGNATION 	u No. 1004-0 3 mber 31, 1991		
	NM-29								
	ICATION FOR P	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME						
b. TYPE OF WELL OIL	RILL 🛛 OTHER	DEEPEN	s		PLE	7. UNIT AGREEMENT N 8. FARM OR LEASE NAME, WE	23467		
2. NAME OF OPERATOR			Gold Star Federal #1						
Mack Energy Cor	poration	1383	>7			9. API WELL NO.			
	esia, NM 88211-0960	30-015-30358 10. FIELD AND POOL, OR WILDCAT							
4. LOCATION OF WEI At surface	LL (Report location clearly :	and in accordance	with an	y state requirement.*)	-	Empire Yeso 96			
At proposed prod. zo	UnitA	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 30 T17S R29E							
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR			E*		12. COUNTY OR PARIS	H 13. STATE		
		West of Loco I	Hills			Eddy	NM		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 330 (Also to nearest drig, unit line, if any)				. OF ACRES IN LEASE 80		DF ACRES IN LEASE HIS WELL 40			
18. DISTANCE FROM PROI TO NEAREST WELL, D OR APPLIED FOR, ON T	660	19. PR	9. PROPOSED DEPTH 20. ROTA 5800		ARY OR CABLE TOOLS Rotary				
21. ELEVATIONS (Show	whether DF, RT, GR, etc.) 3620 GR					22. APPROX. DATE WORK 10/01/			
23.		PROPOSED CAS	ING ANI	CEMENTING PROGRAM	м				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		OUANTITY OF CEMENT			
17 1/2	K-55,13 3/8	48		300		Circ			
12 1/4	K-55, 8 5/8	24		750		Circ			
7 7/8	J-55, 5 1/2	17		5800	1	Suff to Circ			

Mack Energy proposes to drill to a depth sufficient to test the Paddock and San Andres formation for oil. If productive, 5 1/2" casing will be cemented. If non-productive, the well will be plugged and abandoned in a manor consistent with federal regulation. Specific programs as per Onshore Oil and Gas Order #1 are outlined in the following attachments:

Drilling Program

Surface Use & Operating Plan

Exhibit #1 & 1A - Blowout Preventer Equipment

Exhibit #2 - Location and Elevation Plat

Exhibit #3 - Planned Access Road

Exhibit #4 - One- Mile Radius Map

Exhibit #5 - Production Facilities Layout

Post ID-1 7-31-98

API + Loc

Exhibit #6 - Location Layout

Exhibit #7 - H2S Drilling Operations Plan

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 Matt J. Brows	Geological Eng	gineer	date5/13/98
(This space for Federal or State office use)			
PERMIT NO	APPROVAL DATE		
Application approval does not warrant or certify that the applicant he CONDITIONS OF APPROVAL, IF ANY:	lds legal or equitable title to those rights in the subject	lease which would entitle	the applicant to conduct operations the
(ORIG. SGD.) ARMANDO A. LOPEZ	Assistant Field Office Manage	er, date	JUL 2 3 1998
*0	an Instructions On Bouenes Cide		

'See Instructions On 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.



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BOSWELL, NM BLAT WA DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 07504-2088 State of New Mexico

Energy, Minerals and Natural Resources Departme

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 96610 East Empire Yeso Property Code **Property Name** Well Number GOLDSTAR FEDERAL 1 OGRID No. **Operator** Name Elevation MACK ENERGY CORPORATION 013837 3621 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 30 17 S А 29 E 1235 NORTH 370 EAST EDDY Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County **Dedicated Acres** Joint or Infili **Consolidation** Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION LOT 1 **OPERATOR CERTIFICATION** I hereby certify the the information 3620.2 _____ 3617.9 contained herein is true and complete to the 235' best of my knowledge and belief. 0 3620.0' 3616.3' Matt | Brewe SEE DETAIL DETAIL 370 27.71 ACRES LOT 2 Matt J. Brewer Printed Name Geological Engineer Title 6/16/98 Date 27.94 ACRES SURVEYOR CERTIFICATION LOT 3 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 supervison, and that the same is true and correct to the best of my belief. JUNL Date Surveyed Minimum - See 106 Surveyor Jun DMCC Signaturel & Sell of Professional Surveyor 1 28.17 ACRES LOT 4 <u>0</u>94 98 -0869 Cortano i Filoson Unun PROFESIACIO MEDISON PROFESIACIO MEDISON 3239 12641 12185 28.40 ACRES

Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Gold Star Federal #1 Eddy County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure 2 M will be Used, or greater 3 MWP - 5 MWP - 10 MWP

MACK ENERGY CORPORATION EXHIBIT #1-A



BEYOND SUBSTRUCTURE

			MINI	MUM REQL	JIREMENT	S				
	1	3,000 MWP			5,000 MWP			10,000 MWP		
Na.		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 Piug D(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate G Plug G(2)	1-13/18*		3,000	1-13/16"		5,000	1-13/18*		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
8	Valves Gate C Plug (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	Gate C Valves 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		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 Seperator		2'x5'			2'x5'			2'x5'	
16	Line		4*	1,000		4*	1,000		4*	2,000
17	Valves Gate C	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 hydraulia 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.
- 6. Line from drilling speel to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by Isroe bands or 90° bands using bull plugged tees.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

2.,000 psl Working Pressure

2 MWP

STACK REQUIREMENTS Min. Min. 1.0. Nominal No. Item Flowline 1 2" 2 Fill up line **Dritting nipple** 3 Annular preventer 4 Two single or one dual hydraulically 5 operated rams Drilling spool with 2" min, kill line and 6a 2" Choks 3" min choke line outlets 2" min. kill line and 3" min. choke line 6b outlets in ram. (Alternate to 6a above.) Gale 🛙 3-1/8* 7 Valve Plug () 3-1/8" Gate valve-power operated 8 31 9 Line to choke manifold Gate 🛛 10 Valves 2-1/16" Plug C 2-1/18" 11 Check valve 12 Casing head Gale [] 1-13/16* 13 Valve Plug D Pressure gauge with needle valve 14 2* Kill line to rig mud pump manifold 15



MACK ENERGY CORPORATION



OPTIONAL							
16	Flanged valve		1-13/18"				

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2,000 psl, 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.
- 3.80P 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 cho"s. 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 clos-Ing 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 sultably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- 8.Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (Z000 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.



MACK ENERGY CORPORATION