Form 3160°3 (December 1990)	DEPARTMEN		S	M. OIL SUBMITTIN 811 SubMITTIN ARTESIA, NM'88210	LICATI .ions on	Form approved Budget Burea Expires: Dece	u No. 1004-018	
		LAND MAN				5. LEASE DESIGNATIO		
APPL	ICATION FOR P	ERMIT TO	DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTE		
1a. TYPE OF WORK DR b. TYPE OF WELL		DEEPEN				7. UNIT AGREEMENT NAME		
OIL WELL 2. NAME OF OPERATOR Mack Energy Cor	Gas Well OTHER poration	1		SONE MULTI		8. FARM OR LEASE NAME, WELL NO. 23467 Gold Star Federal #2 9. API WELL NO.		
3. ADDRESS AND TELEPHONE N				,		30-015-3	0308	
	esia, NM 88211-0960		748-128			10. FIELD AND POOL, C		
4. LOCATION OF WEL At surface	L (Report location clearly	and in accordance 920 FNL 165		y state requirement.*) 🐔		LAST EMP 11. SEC., T., R., M., OR AND SURVEY OR A	re Yeso 96610 BLK.	
At proposed prod. zo	ne	920 FNL 165	0 FEL	D. Oph Pena		Sec 30 T17		
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAF			Et MARCA	· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARIS		
15. DISTANCE FROM PROP		West of Loco	Hills			Eddy	NM	
PROPERTY OR LEASE (Also to nearest dr	LOCATION TO NEAREST 17. NO PROPERTY OR LEASE LINE, FT. 920 80 TO (Also to nearest drig. unit line, if any)						40	
18. DISTANCE FROM PROP TO NEAREST WELL, DI OR APPLIED FOR, ON TH	RILLING, COMPLETED HIS LEASE, FT.	660	19. PROPOSED DEPTH <b>5800</b>			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show	whether DF, RT, GR, etc.) 3633 GR		22. APPROX. DATE WORK WILL START* 10/10/98					
23.		PROPOSED CAS	ING AN	CEMENTING PROGRAM	——— м	10/10	/98	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER I	тоот	SETTING DEPTH		QUANTITY OF CEME		
17 1/2	K-55,13 3/8	48		300	W	ITNESS Circ		
<u> </u>	K-55, 8 5/8 J-55, 5 1/2	<u>24</u> 17		750	W	WITNESS Circ		
productive, 5 1/2" c	gy proposes to drill to asing will be cemented ion. Specific program	i. If non-produ	ictive,	the well will be plugg	ed and ab	andoned in a mand in the following at	or consistent tachments:	
Drilling Program Surface Use & Ope	GENER	VAL SUBJEC	FMFN	TSAN		r l	Post ID-1 6-26-98 0 I + hoc	
Exhibit #1 & 1A - 1	erating Plan SPECIA Blowout PreventAC	L SI IPULAI		Exhibit #4 - One- Mi Exhibit #5 - Producti			"+ Y NOC	
Exhibit #2 - Locati	on and Elevation Plat	:		Exhibit #6 - Location		ies Layout		
Exhibit #3 - Planne	ed Access Road			Exhibit #7 - H2S Dri	•	ations Plan		
IN ABOVE SPACE DESCRIE deepen directionally, give perti	E PROPOSED PROGRAM: 1	f proposal is to deepe s and measured and t			-		roposal is to drill or	
signed Matt	al or State office use)						/13/98	
(This space for Feder	al or State office use)	·			·····			
PERMIT NO.	·							
Application approval does n CONDITIONS OF APPROVAL	ot warrant or certify that the app							
```	G. SGD.) ARMANDO A. L	OPEZ J	Jun ?	Devisione Ful	gees/	JUN 1	199 <b>8</b>	
		*See Instru	<i></i> <i>□ □ □ □ □ □ □ □ □ □</i>	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

**86.** † T AW

RECEIVED

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

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2086, SANTA FE, N.M. 87504-2088

## State of New Mexico

Energy, Minerals and Natural Resources Depar

Form C-102 Revised February 10, 1994

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to Appropriate District Office

OIL CONSERVATION DIVISIO P.O. Box 2088

Santa Fe, New Mexico 87504-2088

🗆 🗆 AMENDED REPORT

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## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
	96610	East Empire Yeso	
Property Code	Pro GOLDSTA	Well Number 2	
OGRID No. 013837	-	rator Name Y CORPORATION	Elevation 3633

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	30	17 S	29 E		920	NORTH	1650	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 o	r Infill C	onsolidation	Code Or	der 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

	T			
LOT 1		3633.8° ↓ 3632.7'		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and betief.
27.71 ACRES LOT 2	 	$\begin{array}{c c} & & & & \\ & & & \\ & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ & & & \\ \hline \\ & & & \\ \hline \\ & & & \\ \hline & & & \\ \hline \\ & & & \\ \hline \end{array} \\ \hline & & & \\ \hline \\ \hline & & & \\ \hline \\ \hline & & & \\ \hline \\ \hline$	- 1650'>	Matt J. Brewer Matt J. Brewer Printed Name
				<u>Geological Engineer</u> Title <u>5//3/98</u> Date
27.94 ACRES LOT 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 supervison, and that the same is true and correct to the best of my belief.
28.17 ACRES LOT 4				APRIL 21, 1998 Date Surveyed Human DMCC Signature & Sect / O Human DMCC Protosional Surveyor
28.40 ACRES				Complete Convertige Co

# Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS Gold Star Federal #2 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 greatsr 3 MWP - 5 MWP - 10 MWP

# MACK ENERGY CORPORATION EXHIBIT #1-A



BEYOND SUBSTRUCTURE

			MINI	MUM REQL	IREMENT	5				
	1	1	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 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 C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate C Plug C(2)	1-13/16*		3,000	1-13/18"		5,000	1-13/18"		10,000
48	Valves(1)	2-1/16"		3,000	2.1/18"		5,000	3-1/8*		10,000
5	Pressure Gauge			3,000			5,000			10,000
8	Valves Gale C Plug (2)	3-1/8"		3,000	3-1/8"		5,000	<b>3-1/8*</b>		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	Valves Gate D Plug D(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'×5'	
18	Line		4*	1,000		4"	1,000		4*	2,000
17	Gate C Valves Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/6*		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 lungsten 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 large bends or 90° bends using bull plugged tees.

## MINIMUM BLOWOUT PREVENTER REQUIREMENTS

### 2.,000 psi Working Pressure

2 MWP

#### STACK REQUIREMENTS Min. Min. Nominal LD. No. Item Flowline 1 2" Fill up line 2 3 **Drilling nipple** 4 Annular preventer 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 3" Line to choke manifold 9 Gate 🗆 2-1/16" Valves 10 Plug C 2-1/18" Check valve 11 Casing head 12 Gate 🛛 1-13/16\* 13 Valve Plug 🛛 Pressure gauge with needle valve 14 2" Kill line to rig mud pump manifold 15



MACK ENERGY CORPORATION



OPTIONAL						
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.
- 3.80P controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 8.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 values.
- 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, littings, piping, etc., subject to well or pump pressure must be lianged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through cho're. 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.
- 5. All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably 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.
- 9.All seamless steel control piping (2000 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 EXHIBIT #1-A