(May 1963)	, ·-	TED CTATE	-		*ns on	Budget Bur	eau No. 42-R1425.
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1a. TYPE OF WORK	LL X	DEEPEN (·	PLUG_BAC	ĸ 🗆	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL		DEELERY		LOO DAG	••	Big Eddy Ur	nit .
OIL GA	ELL X OTHER		BING ZON			S. FARM OR LEASE	
2. NAME OF OPERATOR				707 * *	1982 ,	Big Eddy Ur	nit
Perry R. Bass				*N , E &	1762 3	9. WELL NO.	· ·
P.O. Box 2760	Midland To	vac 70702		(÷	97 10. FIELD AND POOL	OP WILDCAT
4. LOCATION OF WELL (Re	,		th any Sta	ite requirements.*)		科설하지 않는 말은	
At surface				,	i i	Quahada Ric	B BLK.
1980' FNL & IS	980' FWL Sec. 3	5, 121S, R2	29E	SENW		AND SURVEY OR	AREA
Same as above	e			F	9	Sec. 35 T21	LS. R29E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*			12. COUNTY OR PARI	
15½ ENE of Car	rlsbad, New Mex	ico				Eddy	New Mexic
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig		1980		320		20	
18. DISTANCE FROM PROP- TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,		19. PRO1	POSED DEPTH		otary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				<u> </u>		WORK WILL START
3409' GL					87.1	† Ùpon Appro	oval -
23.]	PROPOSED CASI:	NG AND	CEMENTING PROGRA	M		5 8 8
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEPTH		QUANTITY OF CE	MENT
15"	11-3/4"	42		500	400	sxs_Circ. to	Surface
11"	8-5/8"	24		3300	1350	sxs_Circto	Surface.
7-7/8"	• 5-1/2"	17		TD	9 00	sxs Est. TOC	0 9300 ±.
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Drilling proce	edure, BOP diag	rams, forma	tion t	tons and surfac	4211 Ar	nlans are at	tached.
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Gas is dedicat	ted.	•		•	¥ .	三半口切り	581 × 3 × 1
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					G.	等和計畫	
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IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If	proposal is to deep	pen or plu	ig back, give data on pr	esent prod	iuctive zone and prop	osed new productive
sone. If proposal is to	drill or deepen direction:						
preventer program, 1! and	y.	,					

BIONED Stephen D. Smith	FITLE _ Engineer	ing Assistant particulary 18, 1982
(This space for Federal or State office use)	APPROVAL DA	
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

NET MEXICO DIL CONSERVATION COMMISSION WEL JOCATION AND ACREAGE DEDICATIO LAT

Perry R. Sags Big Widy Unit 97			All distances must	e from the outer boundaries of the Sect	ion
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UNITED STATES DEPARTMENT OF THE INTERIOR

RECEIVED

Minerals Management Service

South Central Region
P.O. Box 26124
Albuquerque, New Mexico 87125

APR 1 3 1982 O. C. D.

ARTESIA, OFFICE

12 APR 1993

Perry R. Bass P.O. Box 2760 Midland, Texas 79702

Gentlemen:

Your application for Permit to Drill well No. 97 Big Eddy Unit in the SENW4 sec. 35, T. 21 S., R. 29 B., Eddy County, New Mexico, lease LC-067964, to a depth of 13,600 feet to test the Morrow formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the District Supervisor, Minerals Management Service, Roswell, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG SOD) CENE F. DANIEL

Gene F. Daniel Deputy Minerals Manager Oil and Gas

Enclosure

cc:
NMOCD (2) This Copy for
BLM - Carlsbad
MM, SCR
DMM - Mining (2)
Regional Files
Roswell District Files
Artesia Sub-district
Suspense File
ARF
RCF

GHStewart:mvd:4/6/82

DRILLING PROCEDURE

BIG EDDY UNIT NO. 97

Location:

1980' FNL, 1980' FWL, Sec. 35, T21S, R29E

Conductor Casing:

40'+ of 16" conductor casing will be set with a rathole machine and cemented to the surface with ready mix.

Surface Hole:

A 15" OH will be drilled to $500'\pm$ and 11-3/4'' 42#/ft H-40 casing run to total depth. The surface casing will be cemented with 400 sx Class "C' with 2% CaCl2. Cement must be circulated to the surface.

Total WOC time is 24 hours.

Nippling Up 11-3/4" Casing:

After waiting 4 hours "nippling up" procedures may begin. An 11-3/4" SW 3000# WP x 12" 3000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed (See BEPCO III attached) and tested to 1000 psi with the rig pump.

The results of this test must be reported in the daily driller's log.

Intermediate Hole:

An 11" OH will then be drilled to $3300' \pm$ (T/Delaware Mtn. Group) 8-5/8" 24#/ft S-80 casing will be run to total depth and cemented with approximately 550 sxs Pacesetter Lite plus 8# NaCl/sx plus 1/4#sx Celloseal, "tailed-in" with 600 sx Class "C" with 2% CaCl₂. Cement must be circulated to the surface.

Total WOC time for this casing string will be 24 hours.

Nippling Up 8-5/8" Casing:

After waiting 4 hours "nippling up" procedures may begin. The 11-3/4" casinghead will be removed and a 8-5/8" SW 5000# x 10" 5000# WP casinghead installed.

A BOP stack consisting of hydril, pipe rams and blind rams will be installed as per BEPCO Drawing IV (attached). This BOP stack will be hydrostatically tested to 5000 psi (Hydril 1500#) by Yellow Jacket. The USGS will be notified in sufficient time to witness the testing of the 8-5/8" BOP stack. A copy of the test results will also be furnished to the USGS.

The results of this test will be recorded in the daily driller's log.

Production Hole:

A 7-7/8" OH will then be drilled to TD (13,450 $^{\prime}\pm$). A PVT recorder, flowshow sensor and rotating head will be installed before drilling the Wolfcamp.

5-1/2" casing will be run to TD. This casing string will be cemented with approximately 900 sx,200 sxs. Western Pacesetter Lite tailed with 700 sxs. Class "H". The cement volume should be sufficient to bring the cement top 1000' above the Wolfcamp.

<u>Time</u>:

This well is estimated to take 57 days from spud to TD.

Stephen Smith 2-18-82

CASING DESIGN

BIG EDDY UNIT NO. 97

SURFACE CASING

_Size	Grade	Thread	Weight	_Тор	Bottom	Length
11-3/4"	H-40	ST&C	42#	0' <u>+</u>	500' <u>+</u>	500' <u>+</u>
		INTERMEDIA	TE CASING			
Size	Grade	Thread	Weight	Тор	Bottom	Length
8-5/8"	S-80	ST&C	24#	0' <u>+</u>	3,300' <u>+</u>	3,3 0 0' <u>+</u>
	•					
		PRODUCTIO	N CASING			
Size	Grade	Thread	Weight	Тор	Bottom	<u>Length</u>
5-1/2" 5-1/2" 5-1/2"	S-95 N-80 N-80	LT&C LT&C Buttress	17# 17# 17#	9510'+ 680'+	13,450'+ 9,510'+ 680'+	3,940' <u>+</u> 8,830' <u>+</u> 680' +
	11-3/4" Size 8-5/8" Size 5-1/2"	Size Grade 8-5/8" S-80 Size Grade 5-1/2" S-95 5-1/2" N-80	INTERMEDIA ST&C INTERMEDIA Size Grade Thread ST&C S-5/8" S-80 ST&C PRODUCTION Size Grade Thread Thread S-1/2" S-95 LT&C LT&C LT&C S-1/2" N-80 LT&C LT&C ST&C ST&C	INTERMEDIATE CASING Size Grade Thread Weight S-5/8" S-80 ST&C 24#	INTERMEDIATE CASING Size Grade Thread Weight Top	INTERMEDIATE CASING Size Grade Thread Weight Top Bottom

Stephen P. Smith 2-23-82

BIG EDDY UNIT NO. 97

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<u> </u>	WATER LOSS	ON	NC	NC	C	2 2) = -
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VISCOSITY	34-40	28-34	t	28-34	28-34	28-34	34-40
WEIGHT	8.4-8.6	10.0	8.4-8 6		10.0	10.3	11.5
TYPE FLUID	FW GEL	ВМ	FW	710	MQ	ВМ	BW Polymer
T0	- 200, -	3,300'+	10,318'+	11,658'+	11000	11,838+	10
FROM	+10	+,009	3,300'+	10,318'+	1.658'+	11 8201	+ 0000 411

Lephen Smith 2-18-82

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BIG EDDY UNIT #97

Anticipated Formation Tops (KB 3168' est)

T/Dela. Sd.	3,378' <u>+</u>	(+ 40' <u>+</u>).
T/Indian Draw	4,218' <u>+</u>	(- 800' <u>+</u>)
T/Bone Springs	7,038' <u>+</u>	(-3,620' <u>+</u>)
T/Wolfcamp	10,318' <u>+</u>	(-6,900' <u>+</u>)
T/Strawn	11,658'+	(-8,240' <u>+</u>)
T/Atoka	11,838' <u>+</u>	(-8,420' <u>+</u>)
T/U. Morrow	12,493' <u>+</u>	(-9,075' <u>+</u>)
T/M. Morrow	12,893' <u>+</u>	(-9,475' <u>+</u>)
T/L. Morrow	13,238' <u>+</u>	(-9,820'+)

Stephen Smith 2-18-22

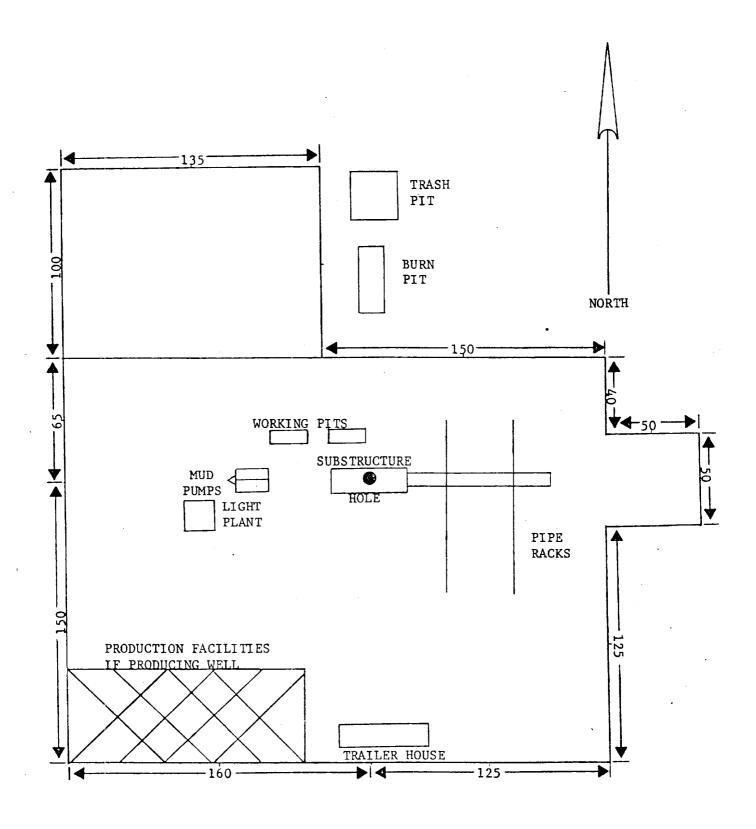
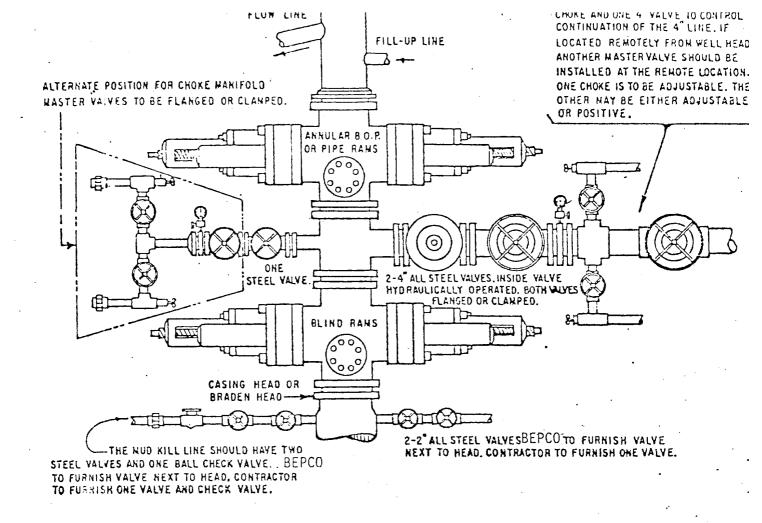


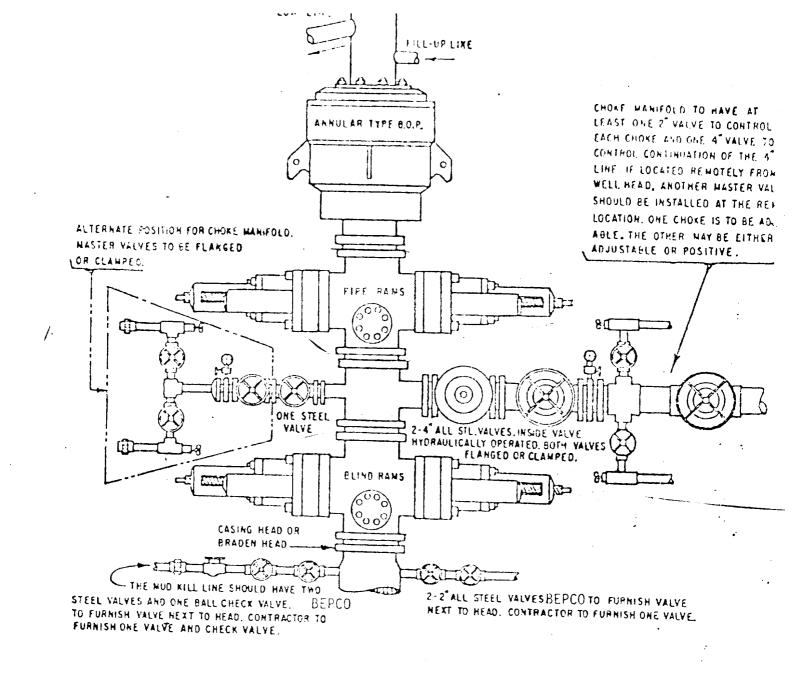
EXHIBIT "B"



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

A. CONDITIONS MAY BE MET BY EITHER

- (1) AN ANYULAR BLOWOUT PREVENTER ON TOP AND BLIND RAMS BELOW WITH A CHOKE SPOOL BETWEEN THEM.
- (2) PIPE RAMS ON TOP AND BLIND RAMS BELOW WITH A CHOKE SPOOL BETWEEN THEM.
- (3) A DUAL BLOWOUT PREVENTER WITH PIPE RANS ON TOP AND BLIND RANS BELOW WITH A SIDE OUTLET BETWEEN. THE RANS AT LEAST FOUR INCHES DIAMETER.
- B. OPENINGS BETWEEN RANS TO BE FLANGED, STUDDED OR CLAMPED.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER
- O. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE 8.0.P s.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'s.
- F. WANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CENENT PLUG.
- G KELLY COCK TO BE INSTALLED ON KELLY.
- H. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. CONDITIONS MAY BE NET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKE SPOOL BELOW AND EITHER
 - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING
 - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RANS ON BOTTOM AND PIPE RAMS ON TOP.
- 6. OPENING ON CHOKE SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
- ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TURE A MINIMUM OF ONE INCH IN DIANETER.
- THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B
- E. ALL CONNECTIONS TO AND FROM PHEVENTER TO HAVE A PRESSURE RAFING EQUIVALENT TO THAT OF THE B O P 1
- MANUAL CONTROLS-TO BE INSTALLED BEFORE DRILLING CEMENT FLUG.
- KELLY COCK TO BE INSTALLED ON KELLY
- INSIDE BLOWOUT PREVENTER TO BE AVAILABLE OF FIG FLOOR
- DUAL GPERATING CONTPOLS ONE LOCATED BY DRILLERS POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.