Form 3160-3 (July 1992)	P.O.E HOBB United Sta		CATE* FORM APPROVED on OMB NO. 1004-0136 Expires: February 28, 1995
	DEPARTMENT OF TH	-	5. LEASE DESIGNATION AND SEBIAL NO.
	BUREAU OF LAND M		NM 86924
APP	LICATION FOR PERMIT	TO DRILL OR DEEPEN	6. IF INDIAN, ALLOTTEE OF TRIBE NAME
LA TYPE OF WORK D TYPE OF WELL	DRILL 🗶 DEEP	EN []	7. UNIT AGREEMENT NAME
WELL X	CAS WELL OTHER	ZONE ZONE	8. FARM OR LEASE NAME, WELL NO.
2 NAME OF OPERATOR Penwell Ene: 3 Address and telephone			Tomcat "8" Federal #2
600 N. Marie 4. LOCATION OF WELL AT SUFFICE 195	enfeld, Ste. 1100, M (Report location clearly and in accordan 80' FSL & 330' FWL	idland, Texas 79705 ce with any State requirements.*)	10. FIELD AND POOL, OR WILDCAT Sand Dunes Bone Spring 11. SBC., T., B., M., OR BLE. AND SURVEY OR AREA
At proposed prod a	zone	Il it L	Sec. 8, T-23-S, R-32-E
14 DISTANCE IN MILE	S AND DIRECTION FROM NEAREST TOWN C	B POST OFFICE.	12. COUNTY OF PARISH 13. BTATE Lea N.M.
18 DISTANCE FROM PR	EST E LINE, FT. 330 ' irig. unit line, if any; DOFOSED LOCATION [®] RAILLING, COMPLETED.	320	NO. OF ACRES ASSIGNED TO THIS WELL 40 ROTARY OR CABLE TOULS
	whether DF, RT, GR, etc.)	9,000	ROTARY
3568' (GR		August 5, 1996
23	PROPOSED	CASING AND CEMENTING PROGRAM	
IN ABOVE SPACE DESCR	H-40 13 3/8 48 J=55 8 5/8" 32 L-80 5 1/2 17 Special Stipulations Attached	# 4800' 110 9000' 600 OPEN. DODID NO. 147 PROPERTY NO. 19201 POOL CODE 5380 EFF. DATE 7/16/ APINO. 30-025-33	QUANTITY OF CEMENT 0 sx. C1.C+ CaC1_CIRCULATE 00 sx "C" Lite + 250 sx C 0 sx C1. H (Est TOC 4800') 380 6518 C 518 C C C C C C C C C C C C C
SHONED CThis space for Fee	Ieral or State office use)	TILEProduction Analys	st DATE - May 31, 1996
PERMIT NO Application approval doe CONDITIONS OF APPROV	s not warrant or certify that the applicant holds leg	al or equitable title to those rights in the subject lease whi	ich would entitle the applicant to conduct operations thereon.
	J. SGD.) RICHARD L. MANU		DATE
		ntructions On Pourse Side	

*See	Instructions	On	Reverse	Side
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Little 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.

DISTRICT I P.O. Box 1080, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD. Artesia, NM 88210

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

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back 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

D AMENDED REPORT

			WELL LO	OCATION	AND ACREA	AGE DEDICATI	ON PLAT		
25 -	Number	2-10)		Pool Code			Pool Name		
30-02	25 - 3 24 1920	3518	5	3805 5	3800 Sar	nd Dunes Bo	ne Spring	s S.E.	
	-+ 1920				Property Nam Torncat 8 F	ne		Well N	umber
OGRID N		9		······	Operator Nan			2	
147380					Penwell Ener			Eleva	
					Surface Loc			356	8.
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line			
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	l	1		I		1	330	West	LEA
UL or lot No.	Section	Township		T		rent From Sur	face		
	Section	тожпатр	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint o	r Infill Co	nsolidation		L				
40	- Volue V		TROUGHTOU (Lode Or	der No.				
		<u>l</u>							
NU ALLC	WABLE W	ILL BE AS	SSIGNED	TO THIS	COMPLETION U	NTIL ALL INTER	ESTS HAVE BE	EN CONSOLIDA	TED
			IUN-STAN	DARD UN	IT HAS BEEN	APPROVED BY 1	HE DIVISION		
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PENWELL ENERGY, INC. TOMCAT "8" WELL NO. **2**. EXHIBIT "D" Rig Layout Plat

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "8" FEDERAL #2 1980' FSL & 330' FWL SECTION 8, T23S, R32E LEA COUNTY, NEW MEXICO

- 1. LOCATION: 1980' FSL & 330' FWL, Sec. 8, T23S, R32E, Lea Co. NM.
- 2. ELEVATION ABOVE SEA LEVEL: 3568'.
- 3. GEOLOGIC NAME OF SURFACE FORMATION:
- 4.. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using mud for the circulation medium.
- 5. PROPOSED DRILLING DEPTH:
- 6. ESTIMATED GEOLOGICAL MARKER TOPS:

Lamar	4800'	Bone Spring	87 00'
Bell Canyon	4900'		
Cherry Canyon	5900'		
Brushy Canyon	7300'		

7. POSSIBLE MINERAL BEARING FORMATION:

Lamar	4800'	Bone Spring	8700'
Bell Canyon	4900'		
Cherry Canyon	5900'		
Brushy Canyon	7300'		

CASING PROGRAM:

Hole Size	Interval (OD Csg	Weight	Thread	Collar	Grade	Cond.
17 ½"	600 · 0-500 ·						
	590-4800						
7 7/8"	0 , 4800-9000,	5 1/2"	17#	8-R	LT&C	L-80	New

PENWELL ENERGY, INC. TOMCAT "8" FEDERAL #2 APPLICATION FOR PERMIT TO DRILL

PAGE 2

9.	CASING (CASING CEMENTING & SETTING DEPTH:					
	13 3/8"	Surface	600 ' Set 500° of 13 3/8" 48#, 8rd, ST&C, H-40 new casing. Cement with 350 sacks Class "C" + CaCl ₂ . Circulate cement to surface.				
	8 5/8"	Intermediate	Set 4800 of of 8 5/8" 32#, J-55 ST&C casing. Cement with 1100 sx "C" Lite + 250 sx "C" Neet. Cement circulate to surface.				
	5 1/2"	Production	Set 5 ½", 17#, 8rd, LT&C, L-80 casing at 9,000'. Cement with 600 sx Class "H". Estimated top of cement @ 4,800'.				

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E". A Blow-out Preventer (no less than 900 Series 3000 PSI working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 13 3/8" casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling & blind ram will be worked on trips when no drill pipe is in hole. Full opening stabbing valve and upper kelley cock will be utilized. Anticipated BHP 2000 PSI and 110° BHT.

DEPTH	MUD. WT.	MUD VISC.	FLUID LOSS	TYPE MUD
(JA 0'-500'	8.4	28	NC	Fresh water spud mud, use paper for seepage control.
600 580 - 4800'	10	29	NC	Brine water, use paper for seepage control and lime for
4800 - 9000'	9.0 - 10.0#	29 - 38	10 cc's or less	pH control. Cut brine w/Drispac, starch, soda ash & lime.

11. PROPOSED MUD CIRCULATING SYSTEM:

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirements will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered.

PENWELL ENERGY, INC. TOMCAT "8" FEDERAL #2 APPLICATION FOR PERMIT TO DRILL

PAGE 3

12. TESTING, LOGGING AND CORING PROGRAM:

- A. Gamma Ray Surface casing to T.D. @ 9,000'.
- B. CNL-LDT, D11-MFL Below 8 5/8" to T. D.
- C. Coring None anticipated.
- D. DST'S None anticipated.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H_2S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 1600 PSI, estimated BHT 100°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after BLM approval of APD. Anticipated spud date is July 15, 1996. Drilling is expected to take 24 days. If production casing is run an additional 10 days will be required to complete and construct surface facilities.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Bone Springs pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.