			14739	50	
		PROPERTY	A A	2 <u>5</u>	
Form 3160-3 (July 1992)		900L 000	OMB NO. 1004-0136		
	DEPARTMEN	TED SEFE CATE	4/8/97	1	Expires: February 28, 1995
	BUREAU OF		0-025-330	712	5. LEASE DESIGNATION AND SERIAL NO.
				<u> </u>	NM-86153 6. IF INDIAN, ALLOTTER OR TRIBE NAME
APPL	ICATION FOR P	ERMIT TO DRIL			
	ILL X	DEEPEN 🗌			7. UNIT AGREEMENT NAME
	AS			°LE []	S. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR	VELL OTHER		Ph $505-683-25$	<u> </u>	Tomcat "21" FEDERAL #7
PENWELL ENERGY	INC. (BILL PI	ERCE)	Ph 505-665-25		9. API WELL NO.
3. ADDRESS AND TELEPHONE NO.	ENFELD SUITE 1	100 MIDIAND	TEXAS 79701		10. FIELD AND POOL, OR WALDGAT
600 NORTH MARI 4. LOCATION OF WELL (R	LENFELD SUITE I	in accordance with any :	State requirements.*)		WILDCAT WOLTCAMD
At surface 1980' FNL & 1	980' FEL SEC. 2	21 T23S-R32E			11. SEC., T., R., M., OR BLK. AND SUBVEY OR AREA
At proposed prod. zor	^{re} Same		11 ist		SEC. 21 T23S-R32E
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POST OFFIC			12. COUNTY OR PARISH 13. STATE
	30 miles West o	f Jal New Mexic	0		LEA CO. NEW MEXICO
15. DISTANCE FROM PROP LOCATION TO NEARES	T		D. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL 40
PROPERTY OR LEASE ! (Also to nearest dr)	g. unit line, if any)	-	020 WFOSED DEPTH	20. ROTA	AU ART OR CABLE TOULS
18. DISTANCE FROM PROD TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED.		2,350'	RO	TARY
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
- <u></u>	308	30' GR.	(* * *	5 AND 53 PT 8	As soon as approved
23.		PROPOSED CASING AN	CARLERIDCO	NIRUL	
SIZE OF HOLE	GRACE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
<u>25''</u> 17 ¹ ₂ ''	Conductor 20" H-40 13 3/8"	<u> </u>	<u>40'</u> 600'	600 Sx	to surface/Redi-mix . circu lWiness urface
<u> </u>	J-55 8 5/8"	24 & 32	4800'	1400 S	
	P-110 5 ¹ ₂ "	17	12,350'	1000 S:	x.Estimated top cement 8000
	nole to 40'. Set	KOL of conduct	or cement to su	irface i	with Redi-mix.
I. Drill 25" I			of 12 2/8" H_/	50 / 8#	ST&C casing. Cement
with 400 Sz	x. Class "C" Lig	ht tail in with	200 Sx. Class	"C" +	2% CaCl circulate
cement to s				55 94	s 30# ST&C casing as
follows 2	hole to 4800'. 300' of 32#, 200 1 in with 400 Sx	0^{\prime} of 24#. 500'	of 32#. Cement	t.with	& 32# ST&C casing as 1000 Sx. Class "C" Light ent to surface.
4 Drill 7 7/9	8" hole to 12.35	in'. Run and set	12,350' of 5 ¹ 2'	" P-110	17# LT&C casing.
Cement wit	h 600 Sx. Class	"H" Light tail	in with 400 St	x. Clas	s "H" + additives
estimated	top of cement 80	boo'. APPRO	AL SUBJECT TO		
			AL REQUIREMENTS	S AND	
IN ADOUT STACE DESCRIP	E PROPOSED PROGRAM- If	SPECIAl renorsal is to deep to the set	STIPULATIONS	and proposed	I new productive zone. If proposal is to drill or
	inent data on subsurface location	and measured and trie the	and pths. Give blowout preve	nter program,	d new productive zone. If proposal is to drill or if any.
24. SIGNED	. 7 Jane	La TITLE A	gent		DATE 03/17/97
(This space for Fede	ral or State office use)				
V	V		APPROVAL DATE		
Application approval does t	not warrant or certify that the app	plicant holds legal or equitable t	tle to those rights in the subject	lease which w	ould entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL	L IF ANY:				
(ORIC	G. SGD.) TONY L FER	AGUSON	ADM, MINERALS		4-4-97
APPROVED BY		TITLE			DATE 7-9-9-1
	. 1001 makes it a crim	*See Instructions	On Reverse Side	ake to any	department or agency of the

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	makes it a crime for any person knowingly and willfully to make to a	iny depa	artment or agency of
2011 921 8 C Street 2001	waxes it a clime for any belain arrowment and the clime of the		prove the end of the

DISTRICT I P.O. Box 1980, Holds, NM 88240

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

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

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 LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-025-33912 WILDCAT Framp 61 **Property** Code Property Name Well Number TOMCAT "21" FEDERAL 7 Operator Name OGRID No. Elevation 147380 PENWELL ENERGY INC. 3680' Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County G 21 23 S 32 E 1980 NORTH 1980' EAST LEA 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 Infill Consolidation Code Order No. 40 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 OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. 1980' un Signature Joe T. Janíca Printed Name 3682.5' 3688.4 Agent Title 1980* 03/17/97 3675.91 3681.1 Date 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 beisef. 997 L JONES Date S 'e BY Sign Pro Certif 7977 BOTESSIONN

EXHIBTT "A"

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #7 SEC. 21 UNIT "G" T23S-R32E LEA CO., N.M.

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1. Location: 1980' FNL & 1980' FEL SEC. 21 T23S-R32E LEA CO. NM

2. Elevation above sea level: 3680' GR.

3. Geologic name of surface formation: Quaternery Aeolian Deposits.

4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

5. Proposed drilling depth: 12,350'

6. Estimated tops of geological markers:

Bone Spring	8700 '
Wolfcamp	12.150'

Delaware 4900'

7. Possible mineral bearing formation:

Delaware	Oil
Bone Spring	Oil
Wolfcamp	Oil

8. Casing program:

<u>Hole size</u>	Interval	OD casing	g Weight	Thread	Collar	Grade	Condition
25"	0-40	20"	Conductor	NA	NA	NA	New
17 ¹ ₂ ''	0-600	13 3/8"	48	8-R	ST&C	H-40	New
124"	600-4800 '	8 5/8"	32-24	8-R	ST&C	J-55	New
7 7/8"	4800-12,350'	5'2''	17	8-R	LT&C	p-110	New

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #7 SEC. 21 UNIT "G" T23S-R32E LEA CO., N.M.

- 9. Cementing and Setting Depth:
 - 20" Conductor Drill 25" hole to 40'. Set 40'of 20" conductor Cement to surface with Redi-mix.
 - 13 3/8" Surface Drill 17½" hole to 600'. Run and set 600'of 13 3/8" 48# H-40 ST&C casing. Cement with 400 Sx. Class "C" Light, tail in with 200 Sx. Class "C" + 2% CaCl circulate cement to surface.
 - 8 5/8" Intermediate Drill 12½" hole to 4800'. Run and set 4800' of 8 5/8" J-55 32 & 24# ST&C casing. Cement with 1000 Sx. Class "C" Light, tail in with 400 Sx. Class "C" + 2% CaCl Circulate cement to surface.
 - 5¹/₂" Production Drill 7 7/8" hole to 12,350'. Run and set 12,350' of $5^{1}/_{2}$ " 17# P-110 LT&C casing. Cement with 600 Sx. Class "H" Light, tail in with 400 Sx. Class "H" + additives estimate top of cement 8000'.
- 10. <u>Pressure Control Equipment:</u> Exhibit "E". A 1580 Series 5000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP un-t will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nippled up on 13 3/8" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.
- 11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc,	Fluid Loss	Type Mud
40 - 600'	8.6-9	29-36	NC	Fresh water Spud mud add paper for seepage control.
600-11750'	10-10.7	29-32	NC	Brine water add Lime for pH control and paper for seepage.
11,750-12,350	' 9-9.6	30-38	10 CC or less	Cut Brine Soda Ash Drispac & Starch for water loss control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, unexpected kiks. In order to run DST'S, open hole logs, and casing the viscosity and water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #7 SEC. 21 UNIT "G" T23S-R32E LEA CO., N.M.

12. Testing, Logging and Coring Program:

- A. Gamma Ray from TD to surface, Caliper from TD to 8 5/8" casing shoe.
- B. CNL-LDT, DUAL Laterlog, MSFL Caliper from TD to 8 5/8" casing shoe.
- C. Mud logger on from 4800' to TD.
- D. DST'S and cores will be taken as shows dictate.

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 7000 PSI, estimated BHT <u>185°</u>.

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 50-65 days. If production casing is run an additional 30 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 Wolfcamp pay will be perforated and stimulated. The well will be swab tested and potentialed as an Oil well.



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ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

B.O.P.	EXHIBIT SKETCH TO	ON
Ŭ	PENWELL E OMCAT "21" NIT G" 23S-R32E	∦ 7 2]