					~an)	
F 11(0.7	•	OPER. C	GRID	NO. 147		ICATI	FORM APPROVED
Form 3160-3 (July 1992)		UNITED PROPERTY NO. 20725					OMB NO. 1004-0136
	DEPARTMENT	TO POOL C	ODE	\checkmark		Y	Expires: February 28, 1995 5. LEASE DESIGNATION AND SERIAL NO.
	BUREAU OF	I AL		H/G/	02		NM-86153
	ICATION FOR PI	EFF. U/		1 015	3291	1	6, IF INDIAN, ALLOTTER OR TRIBE NAME
AFFL 1a. TIPE OF WORK	ICATION FOR PI	API NO		V-VAJ			
DR	NLL 🛛	DEEPEN					7. UNIT AGREEMENT NAME
	3.5				MULTIPL	× []	S. FARM OR LEASE NAME WELL NO
2. NAME OF OPERATOR	VELL OTHER		<u>z</u>		ZONE		Tomcat "21" FEDERAL # 3
PENWELL ENERGY	INC. (BILL PIE	ERCE)		Ph 505-6	83-253	4	9. API WELL NO.
3. ADDRESS AND TELEPHONE NO.					•		
600 NORTH MARI	ENFELD SUITE 11 Report location clearly and			TEXAS 7970			10. FIELD AND POOL, OR WILDCAT
At surface				State requirement			WILDCAT WDL+Comp
	660' FWL Sec. 21	L 1255-K521	2		~		AND SUBVEY OR AREA
At proposed prod. zo:	^{ne} Same			Unite			SEC. 21 T23S-R32E
	AND DIRECTION FROM NEAR	-					12. COUNTY OR PARISH 13. STATE
	30 miles West of	E Jal New N		O	T.97 1	17 80 /	LEA CO. NEW MEXICO
15. DISTANCE FROM PROP LOCATION TO NEARES PROPIETY OR LEASE				020			HIS WELL 40
(Also to nearest dri 18. DISTANCE FROM PROF	g. unit line, if any) 000		-	WPOSED DEPTH		20. ROTA	RY OR CABLE TOULS
	RILLING, COMPLETED.	1	1	2,350'		RO	TARY
21. ELEVATIONS (Show wh		3674' GR.					22. APPROX. DATE WORK WILL START*
		_					As soon as approved
23.		PROPOSED CAS	ING ANI	• CARLSB	ad Co	NTRO	LLED WATER BASIN
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER P		SETTING DE			QUANTITY OF CEMENT
25''	Conductor 20"	NA		40'	¢	lement	to sum INESSii-mix
17 ¹ / ₂ "	H-40 13 3/8"	48		600'	[·	00 Sx	
12½"	J-55 8 5/8"	24 & 32		4800'		400 S	X. /
7 7/8"	P-110 5 ¹ ₂ "	17		12,350'	¥	.000 5	x.Estimated top cement 80
1. Drill 25" h	nole to 40'. Set	40' of con	nduct	or cement	to sur	face	with Redi-mix.
							ST&C casing. Cement
2. Drill 1/2 with 400 St	noie to out . Ku	ht tail in	with	200 Sx. 0	lass "	'C'' +	2% CaCl circulate
cement to s							
		Run and se	r 480	0' of 8 5/	/8".J-5	5 24	& 32# ST&C casing as
follows: 21	300' of 32#, 2000	of 24#,	500'	of 32 ∦. C	Cement.	with	1000 Sx. Class "C" Light
cement tail	L in with 400 Sx	. Class "C	" + 2	% CaCl cir	culate	e ceme	nt to surface.
							17# LT&C casing.
Cement with	n 600 Sx. Class	"H" Light	tail	in with 4	400 Sx.	Clas	s "H" + additives
	top of cement 800			L SUBJECT			
		GE	NERAL	REQUIREM	IENTS A	ND	
		SPE	ECIAL	STIPULATIO	NS	.	
N ABOVE SPACE DESCRIB keepen directionally, give perti	E PROPOSED PROGRAM: 1Ep nent data on subsurface-locations	roposal is to deepen s and measured and t	ACHE	on present product	out prevente	r program,	new productive zone. If proposal is to drill or if any.
1							
SIGNED	1 Jall.	Ule III	ч. е _Ад	ent			03/14/97
	ral or State office use)						
(This space for Feder	a di Giard Gale ade,						
PERMIT NO.				APPROVAL DATE			it mille the section of mentions there
		icant holds legal or ec	puitable titi	le to those rights in th	subject len	se which wo	suld entitle the applicant to conduct operations thereo
CONDITIONS OF APPROVAL		140 69 4					
(ORIG.)	SGD.) TONY L. FERGL	JSON	ΆD	M, MINERAL	S		4-4-97
APPROVED BY		IIILE					

Jee Instructions Un Reverse Dide

DISTRICT 1 F.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III 1000 Rio Brazos Rd., Artec. NM 87410 State of New Mexico

Energy, Minerels 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 317-025-339 WILDCAT ram 1 Ø **Property Code** Property No fell Number .07TOMCAT FEDERAL 21 3 OGRID No **Operator** Name Elevation 147380 PENWELL ENERGY INC. 3674' Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ε 21 23 S 32 E 1980 NORTH 660 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Lot Idn Range 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 1 1 זר Т

	1		· · ·	OPERATOR CERTIFICATION
	 			I hereby certify the the information contained herein is true and complete to the best of my-knowledge and belief.
1980				pet Genero
			+	Joe T. Janica Printed Name
3674.8' 3674.7'				Agent Tiu03/14/97
3676.3 [,] 3673.2 [,]				Date
				SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was plotted from field notes of
	1			actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief
				March 6
	' +	 		Date Surveyed Signature & Sal of Professional Surveyof MEXICO
		 		Dan 29 Date
				W.O. Worth THE S
]	l		

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL # 3 UNIT "E" SECTION 21 T23S-R32E LEA CO. NM

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 & 660' FWL SEC. 21 T23S-R32E LEA CO. NM
- 2. Elevation above sea level: 3674' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> 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	0i1
Bone Spring	0i1
Wolfcamp	0i1

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
12 ¹ 4''	600-4800'	8 5/8"	32-24	8-R	ST&C	J - 55	New
7 7/8"	4800-12,350'	5½''	17	8-R	LT&C	p-110	New

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL # 3 UNIT "E" SECTION 21 T23S-R32E LEA CO. NM

9. <u>Cementing and Setting Depth:</u>

20"	Conductor	Drill 25" hole to 40'. Set 40'of 20" conductor Cement to surface with Redi-mix.
13 3/8"	Surface	Drill $17\frac{1}{2}$ " 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 $12\frac{1}{4}$ " 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.
5½"	Production	Drill 7 7/8" hole to 12,350'. Run and set 12,350' of $5\frac{1}{2}$ " 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 1500 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:

	A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.			
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 # 3 UNIT"E" SECTION 21 T23S-R32E LEA CO. NM

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 185°.

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.



ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON PENWELL ENERGY, INC. TOMCAT "21" FEDERAL # 3 UNIT "E" SECTION 21 T23S-R32E LEA CO. NM

COMPLOENTIAL LOGS ABOVE SAFE DOES NOT NAHW BTACIGNI **J**II 9

WILL BE RELEASED

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