			N. M. OIL CONS. COM		
Form 3160-3 (July 1992)		TO STATES	P. O. BOX ISUBMIT I	N TRIPL ATE	UMB NU. 1004-0136
	DEPARTMENT	OF THE IN	NTERIOR	(Expires: February 28, 1995 5. LEASE DESIGNATION AND BERIAL N
	BUREAU OF		NM-86153		
	LICATION FOR PI			N	6. IF INDIAN, ALLOTTER OR TRIBE NAM
1a. TYPE OF WORK					7. UNIT AGREEMENT NAME
D. TIPE OF WELL	RILL 🛛	DEEPEN [
OIL WELL	GAS WELL OTHER		SINGLE X ZO		S. FARM OR LEASE NAME WELL NO.
2. NAME OF OPERATOR PENWELL ENERG	GY INC. (BILL PIE	ERCE)	Ph 505-683-	-2534	Tomcat "21" FEDERAL # 2 9. AN WELL NO.
3. ADDRESS AND TELEPHONEN	NO.	· · · · · · · · · · · · · · · · · · ·			30-025-34566
600 NORTH MAR	RIENFELD SUITE 11 (Report location clearly and	in accordance with	ND, TEXAS 79701 h any State requirements.		WILDCAT () of from D
At surface	60' FWL SEC. 21		_		11. SEC., T. E., M., OR BLK. AND SURVEY OR AREA
At proposed prod. z			D		SEC. 21 T23S-R32E
14. DISTANCE IN MILE	S AND DIRECTION FROM NEAR	IST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
	y 30 miles West of		exico		LEA CO. NEW MEXI
15. DISTANCE FROM PRO LOCATION TO NEAR PROPERTY OR LEAS	OPUSED"	60'	16. NO. OF ACRES IN LEAS 1020		ACRES ASSIGNED
(Also to nearest d	leig. unit line, if any)	<u> </u>	19. PROPOSED DEPTH		T OR CABLE TUMES
TO NEAREST WELL, OR APPLIED FOR, ON	, DRILLING, COMPLETED. 10	20'	12,350'	ROT ROT	HER BASIN
21. ELEVATIONS (Show)	whether DF, RT, GR. etc.)		NULSBAD CONTI		AS SOON AS APPROVE AFR
23.		672' GR. CI	NG AND CEMENTING PRO	GRAM	
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FO			QUANTITY OF CEMENT
25"	Conductor 20"	NA	40'		to surface/Redi-mix
		/ 0		kaa a	airculate to surface
17 ¹ 2"		48	<u>600</u> 4/1TN		
12 ¹ / ₄ "	J-55 8 5/8"	24 & 32	4800	1400 Sz	5. 11 17 17
12 ¹ / ₄ " 7 7/8	J-55 8 5/8" "P-110 5 ¹ 2"	24 & 32 17	4800' 12,350'	1400 Sz 1000 Sz	x. " " " x.Estimated top cement
12½" 7 7/8"	J-55 8 5/8" "P-110 5½" hole to 40'. Set	24 & 32 17 40' of con	4800'''''''''''''''''''''''''''''''''''	1400 Sz 1000 Sz surface v	x. " " " x.Estimated top cement with Redi-mix.
12½" 7 7/8 1. Drill 25"	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24 & 32 17 40' of con	4800'""""" 12,350' ductor cement to 600' of 13 3/8"	1400 Sz 1000 Sz surface v H-40 48# S	x. " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement
12 ¹ / ₂ " 7 7/8 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set " hole to 600'. R Sx. Class "C" Lig	24 & 32 17 40' of con	4800'""""" 12,350' ductor cement to 600' of 13 3/8"	1400 Sz 1000 Sz surface v H-40 48# S	x. " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement
12½" 7 7/8 1. Drill 25" 2. Drill 17½ with 400 cement to	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface.	24 & 32 17 40' of con un and set ht tail in Burn and set	4800'" 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate & 32# ST&C casing as
12 ¹ / ₄ " 7 7/8 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 il in with 400 Sx	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C"	4800'"""" 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu	1400 Sx 1000 Sx surface v H-40 48# S Lss "C" + 2 J-55 24 a lent with late cement	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate & 32# ST&C casing as 1000 Sx. Class "C" Light of to surface.
12 ¹ / ₄ " 7 7/8 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C" 0' Run and	4800'"""" 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 a int with ilate cement 5 ¹ / ₂ " P-110	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate & 32# ST&C casing as 1000 Sx. Class "C" Light to surface. 17# LT&C casing.
12 ¹ / ₂ " 7 7/8 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C" 0'. Run and "H" Light t	4800'"""" 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu 1 set 12,350' of call in with 400	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 a hent with hlate cement 5 ¹ / ₂ " P-110 Sx. Class	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate & 32# ST&C casing as 1000 Sx. Class "C" Light to surface. 17# LT&C casing. s "H" + additives
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12 ¹ / ₂ " 7 7/8 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, Class "C" 0'. Run and "H" Light t 00'. Ai G	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu 1. set 12,350' of cail in with 400 PROVAL SUBJECT ENERAL REQUIREM	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 8 hent with hate cement 5 ¹ / ₂ " P-110 Sx. Class TO CF ENTS A	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate x 32# ST&C casing as 1000 Sx. Class "C" Light at to surface. 17# LT&C casing. s "H" + additives PERTY NO. <u>2072.5</u>
12 ¹ / ₄ " 7 7/8 ¹ 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi estimated	J-55 8 5/8" "P-110 5½" hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class top of cement 80	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C" 0'. Run and "H" Light t 00'. Ai G	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu t.set 12,350' of cail in with 400 PROVAL SUBJECT ENERAL REQUIREM PECIAL STIPULATION	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 8 hent with hlate cement 5 ¹ / ₂ " P-110 Sx. Class TO CF ENTS A P NS	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate & 32# ST&C casing as 1000 Sx. Class "C" Light to surface. 17# LT&C casing. s "H" + additives PER. OGRID NO. [4738] OPERTY NO.2072.5 CODE -
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12 ¹ / ₄ " 7 7/8 ¹ 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi estimated	J-55 8 5/8" "P-110 5½" hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class top of cement 80	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C" 0'. Run and "H" Light t 00'. Ai G	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu t.set 12,350' of cail in with 400 PROVAL SUBJECT ENERAL REQUIREM PECIAL STIPULATION	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 8 ilate cemen 5½" P-110 Sx. Class TO ENTS A Score and p prevencer p	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate x 32# ST&C casing as 1000 Sx. Class "C" Ligh at to surface. 17# LT&C casing. s "H" + additives PERTY NO.20725 CODE - F. DATE 2-1-99 NO. 30-025-3456
12 ¹ / ₄ " 7 7/8 ¹ 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi estimated IN ABOVE SPACE DESCR deeper. directionally, give P 21. SIGNED	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class top of cement 80 UBE PROPOSED PROGRAM: If errigent data on subsurface location	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, . Class "C" 0'. Run and "H" Light t 00'. Ai G	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem + 2% CaCl circu t.set 12,350' of cail in with 400 PROVAL SUBJECT ENERAL REQUIREM PECIAL STIPULATION	1400 Sz 1000 Sz surface v H-40 48# S ss "C" + 2 J-55 24 8 ilate cemen 5½" P-110 Sx. Class TO ENTS A Score and p prevencer p	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate x 32# ST&C casing as 1000 Sx. Class "C" Light at to surface. 17# LT&C casing. s "H" + additives PERTY NO.2072.5 CODE - F. DATE 2-1-99
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12 ¹ / ₄ " 7 7/8 ¹ 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi estimated IN ABOVE SPACE DESCR deeper directionally, give P 2 ¹ / ₂ SIGNED (Thir space for Fe	J-55 8 5/8" "P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx 78" hole to 12,35 th 600 Sx. Class top of cement 80 UBE PROPOSED PROGRAM: If entitient data on subsurface location with 400 Sx for the subsurface location State office use)	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, Class "C" 0'. Run and "H" Light to 00'. Ai Gi SI proposal is to deepen a s and measured and the control of a set of control of control of control of a set o	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem 4800' of 32#. Cem 4800' of 32#. Cem 4800' of 32#. Cem 4800' of 32#. Cem 500' of 32#. Cem 4800'	1400 Sz 1000 Sz surface v H-40 48# S Iss "C" + 2 J-55 24 8 Hate cemen Szore and p preventer p AF	x. " " " " x.Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate x 32# ST&C casing as 1000 Sx. Class "C" Light at to surface. 17# LT&C casing. s "H" + additives PERTY NO. <u>20725</u> CODE - F. DATE <u>2-1-99</u> PINO. <u>30-025-3456</u> DATE <u>03/17/97</u> Audit entitle the applicant to conduct operations
12 ¹ / ₄ " 7 7/8 ¹ 1. Drill 25" 2. Drill 17 ¹ / ₂ with 400 cement to 3. Drill 12 ¹ / ₄ follows: cement ta 4. Drill 7 7 Cement wi estimated IN ABOVE SPACE DESCR deeper directionally, give P 2 ¹ / ₂ SIGNED (Thir space for Fe	J-55 8 5/8" P-110 5 ¹ ₂ " hole to 40'. Set "hole to 600'. R Sx. Class "C" Lig surface. "hole to 4800'. 2300' of 32#, 200 i1 in with 400 Sx /8" hole to 12,35 th 600 Sx. Class top of cement 80 UBE PROPOSED PROGRAM: If erritent data on subsurface location whereal or State office use) es not warrant or certify that the appendix the appendix of the set office use office	24 & 32 17 40' of con un and set ht tail in Run and set 0' of 24#, Class "C" 0'. Run and "H" Light to 00'. Ai Gi SI proposal is to deepen a s and measured and the control of a set of control of control of control of a set o	4800' 12,350' ductor cement to 600' of 13 3/8" with 200 Sx. Cla 4800' of 8 5/8" 500' of 32#. Cem 4800' of 32#. Cem 500' of 32#. Cem 4800'	1400 Sz 1000 Sz surface v H-40 48# S Ss "C" + 2 J-55 24 8 hent with halate cement 5½" P-110 Sx. Class TO CF ENTS A P preventer p AF bject lesse which we Office Manage	x. " " " " x. Estimated top cement with Redi-mix. ST&C casing. Cement 2% CaCl circulate x 32# ST&C casing as 1000 Sx. Class "C" Light at to surface. 17# LT&C casing. s "H" + additives PER. OGRID NO. [4738] OPERTY NO. 20725 CODE - F. DATE 2-1-99 PINO. 30-025-3456 DATE 03/17/97
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DISTRICT 1 P.O. Box 1980, 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API Number Pool Code Pool Name WILDCAT Wolfcamp 30-025-34566 Property Code Property Name Well Number TOMCAT "21" FEDERAL 4 20125 **Operator** Name Elevation **OGRID** No. PENWELL ENERGY INC. 3672' 147380 Surface Location North/South line UL or lot No. Section Township Range Lot Idn Feet from the Feet from the East/West line County 21 23 S 32 E 660 NORTH 660 WEST LEA D Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line East/West line UL or lot No. Feet from the Section Township Range 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 3666.2' ⁶ I hereby certify the the information 3672.4' contained herein is true and complete to the best of my knowledge and belief. 660' 3672.4' 3674.1 muca Signature Joe T. Janica Printed Name Agent Title 03/17/97 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 belief. March Date Surveyed EN MEXI Signature & ca Professions Su W.O 10,8 Certificate No.

SECTION 21, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO





PENWELL ENERGY INC. TOMCAT "21" FEDERAL #4 660' FNL & 660' FWL Sec. 21, T-23-S, R-32-E Lea County, New Mexico.

SCALE: 1=2000'

BASIN SURVEYS	X 1786-HOBBS, NEW MEXICO	2000'		200	0'	400	0 Feet
			03-06-97	Sheet	1 0	of 1	Sheets

APPLICATION TO DRILL

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" 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: 660' FNL & 660' FWL SEC. T23S-R32E LEA CO. NM
- 2. Elevation above sea level: 3672' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.

4900'

- 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 '
Wolfd	amp	12.150'

- Delaware
- 7. Possible mineral bearing formation:

Delaware		
Bone Spring	Oil	
Wolfcamp	0 i 1	

8. Casing program:

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<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'	5½"	17	8-R	LT&C	p-110	New

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" T23S-R32E LEA CO. NM

- 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 5¹/₂" 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	Svstem:

_Depth	Muđ 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.

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PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" 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 $50-65 \pm 4$ 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.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - A. Characteristics of H2S

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- B. Physical effects and hazards
- C. Proper use of safety equipment and life support systems
- D. Principle and operation of H2S detectors, warning system and briefing areas.
- E. Evacuation procedure, routes and first aid
- F. Proper use of 30 minute pressure demand air pack
- 2. H2S Detection and Alarm Systems
 - A. H2S detectors and audio alarm system to be located at bell nipple end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicated potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalkboard is inappropriate.
 - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. All testing will be done in daylight hours.
 - B. Exhausts will be watered.
 - C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - D. If location is near any dwelling a closed D.S.T. will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

SURFACE USE PLAN

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" T23S-R32E LEA CO. N.M.

- EXISTING ROADS. Area map, Exhibit "B" is a reproduction of the New Mexico General Hi-way Co. Map. Exhibit "C" is a reproduction of a topographic map. Existings roads and proposed roads are shown on each exhibit. All roads will be maintained in a condition equal to or better than of construction.
 - A. Exhibit "A" shows the proposed development well as staked.
 - B. From Eunice new Mexico take State Hi-way 18 South 2.5 mile to Delaware Basin road (CR-21) go 32.6 miles to State Hi-way 128 turn West go 13.2 miles to Lea-Eddy co line turn Northeast on pipeline road go 3.7 miles turn Northwest go .65 miles to Yates well bear North go .75 miles turn west go .25 miles turn North go .25 mule to location on West side of road.
 - C. Lay 3" polyethelene pipeline to transport produced fluids to a common tank battery. Construct a 1250 KV electric power line along road ROW in order to produce oil and gas from this well.

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- 2. PLANNED ACCESS ROADS: Approximately 1320' of new road will be constructed.
 - A. The access road will be crowned and ditched to a 12'00" wide travel surface with 40' right-of-way.
 - B. Gradient on all roads will be less than 5.00%.
 - C. No turnouts will be necessary.

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- D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
- E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
- F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Lopography.
- 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

Α.	Water wells -	See Exhibit "C"
з.	Disposal wells -	None known
с.	Drilling wells -	see Exhibit "C"
D.		As shown on Exhibit "A-1"
_		See Exhibit "A-1"

E. Abandoned wells - See Lambia

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" T23S-R32E LEA CO. N.M.

- 4. If, upon completion this well is a producer Penwell Energy Inc. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry Notice.
- 5. LOCATION AND TYPE OF WATER SUPPLY

Water will be purchased locally from a private source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "A".

- 7. METHODS FOR HANDLING WASTE DISPOSAL
 - A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will either be contained in a fenced trash trailer or in a trash pit, fenced with mesh wire to prevent wind-scattering during storage. When the rig moves out, all trash and debris left at the site will be contained to prevent scattering and will be buried at least 36" deep within a reasonable period of time.
 - 3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
 - 4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and backfilled upon completion. A "porta John" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
 - B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. In the event drilling fluids will not evaporate in a reasonable period of time they will be transported by tank truck to a state approved disposal site.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

8. ANCILLARY FACILITILS

No camps or airstrips will be constructed.

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" T23S-R32E LEA CO. N.M.

9. WELL SITE LAYOUT

- A. Exhibit "D" shows location and rig layout.
- B. This exhibit indicates proposed location of reserve and trash pits; and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be unlined, unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with PVC or polyethylene line. The pit liner will be 6 mils thick. Pit liner will extend a minimum, 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountered to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

SURFACE USE PLAN

PENWELL ENERGY, INC. TOMCAT "21" FEDERAL #4 SEC. 21 UNIT "D" T23S-R32E LEA CO. N.M.

11. OTHER INFORMATION:

- A. Topography as shown on topographic map consists of sand dunes with a Westerly dip toward the Pecos River. The surface is used mainly for live stock grazing and access to Oil & Gas production. Surface vegetation consists of native grasses, shinnery oak, mesquite, sandsage and snake weed.
- B. The surface is owned by The Dept. of Interior, Bureau of Land Management.
- C. An archaeological survey will be conducted of the location and road. This will be submitted separately to the BLM when it is completed.

D. There are no dwellings within 2 miles of this location.

12. OPERATORS REPRESENTIVE:

Before construction:During and after construction:TIERRA EXPLORATION INC.PENWELL ENERGY INC.P.O. BOX 21881100 ARCO BUILDINGHOBBS, NEW MEXICO 88241600 NORTH BIG SPRINGOFFICE PHONE 505-392-2112MIDLAND, TEXAS 79701JOE T. JANICABILL PIERCE

13. <u>CERTIFICATION:</u> - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposedherein will be performed by Penwell Energy Inc., its contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

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ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

EXHIBIT "E"	
B.O.P. SKETCH TO BE U	JSED ON
PENWELL ENERGY, I	
TOMCAT "21" FEDERAL	L#4
UNIT "D" SECTION	N 21
T23S-R32E LEA CO	. NM









FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.



FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "1-E" CHOKE MANIFOLD & CLOSING UNIT
PENWELL ENERGY, INC. TOMCAT "21" FEDERAL # 4 UNIT "D" SECTION 21 T23S-R32E LEA CO. NM

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