		upen. (Nates.) NO	14134	V		
Form 3160-3		PROPER					TE•	FORM APPROVED
(July 1992)	•••••	red : pool o r of	-	5	1683		.,	OMB NO. 1004-0136 Expires: February 28, 1995
	DEPARTMEN BUREAU OF			6/	6/97	/ 	ΞQ	NA-81633
APPL	ICATION FOR P				5 540.	\sim	AY	6. IF INDIAN, ALLOTTER OR TRIBE NAME
1a. TYPE OF WORK		DEEPEN	7	5	127-97	MU	6 m	7. UNIT AGREEMENT NAME
b. TIPE OF WELL	AS []				BU	<u>RSA</u>	.' eE	
	VELL OTHER		zo		ZONE	RIS	14	SE FARMOR LEASE NAME WELL NO. Theckers 24" FEDERAL # 7
PENWELL ENERGY	, INC.	(BILL PI	ERCE)			-	9. API WELL NO.
3. ADDRESS AND TELEPHONE NO.					15-683-25	534	_	10. FIELD AND POOL, OR WILDCAT
600 NORTH MARI 4. LOCATION OF WELL (R	ENFELD SUITE 1 eport location clearly and					<u> </u>		RED TANK-BONE SPRING
At surface 1980' FEL & 76	0' FSL SEC. 24	T22S-R32E	LEA	CO. NM	[-	11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zor	e SAME	ait Q						SEC. 24 T22S-R32E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE	•				12. COUNTY OR PARISH 13. STATE
Approximate	ly 30 miles East					1 1 2 1		LEA CO. NM
LOCATION TO NEARES! PROPERTY OR LEASE I	T LINE, FT.	660'	10. NO.	. OF ACER	S IN LEASE			ACRES ASSIGNED S WELL 4()
(Also to nearest drig 18. DISTANCE FROM FROM TO NEAREST WELL, D	OSED LOCATION*	· · _		POSED DE	PTH	20. R	OTAR	OB CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	1320'	90	200'	<u></u>		OTA	
21. ELEVATIONS (Show wh	ether Dr, KI, GR, etc.)	3749 ' GR	•	Ċ	ARLSBAD	CON	ITR	s soon as approved
23.		PROPOSED CASIN	G AND					VILLED WATER BASIN
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	T	SETT	ING DEPTH			QUANTITY OF CEMENT
25" 17 ¹ / ₅ "	Conductor	<u>NA</u>				Ceme	<u>nt</u>	to surface with Redi-mix
11"	<u>H-40 13 3/8"</u> J-55 8 5/8"	<u>48</u> 32		<u> </u>	-			circulate to surface
7 7/8"	L-80 5 ¹ / ₂ "	17		9000	1	700	Sx.	estimate top of cement_450
1. Drill 25" 1	hole to 40'. Set	: 40' of 20"	cond	luctor	and ceme	nt t	0 51	rface with Redi-mix.
	hole to 850'. H ass "C" + 2% Ca(# S:	I&C casing. Cement with
								F&C casing. Cement with
700 Sx. Cla cement to a		ght, tail i	n wit	th 200	Sx. Clas	s "C	" +	2% CaCl, circulate
	ass "H" Halco Li	ght, tail i	n_wit	h_200				F&C casing. Cement with ith additives. Estimate
					REMENTS	AND		
					ations			0C1) 6/10/97
IN ABOVE SPACE DESCRIB deepen directionally, grouperti	E PROPOSED PROGRAM: If nent data on subsurface location	proposal is to deepen, so and measured and true	e vertical	n present depths. Gi	productive zone a ve blowout preven	und prope iter progr	osed n am, if	ew productive zone. If proposal is to drill or any.
24.	o Maria	ica TITLI		Agent				5-22-97
SIGNED	ral or State office use)	TITL	с					
PERMIT NO.			,	APPROVAL	DATE			
Application approval does n CONDITIONS OF APPROVAL		licant holds legal or equi	itable title	to those rig	hts in the subject le	ease whic	h woul	d entitle the applicant to conduct operations thereon.
		ALSAN						
APPROVED BY	LISGEL) FONY (LIFEF	IGUOUNI TILE			adm, Min	VERA	LS	DATE

•

*See	Instructions	On	Reverse	Side
------	--------------	----	---------	------

A

Title 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, ficticious or fraudulent of depends correspondations as to any matter within its jurisdiction.





DISTRICT I P.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, 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

30-02	Number 5-34	02-		Pool Code 51683			Fool Name RED TANK BONE SPRING				
Property (-					Property Name Well Num					
20022			Checkers 24 Federal						7 Elevation		
147.380					Penwell				374		
		L			Surfac		· · · · ·	· · · · · · · · · · · · · · · · · · ·	<u></u>		
UL or lot No.	Section	Township	Range	Lot Id			North/South line	Feet from the	East/West line	County	
0	24	22 :	S 32 E		76	0	South	1980	East	Lea	
<u>_</u>		L		Hole			rent From Sur				
UL or lot No.	Section	Township		Lot Id	·		North/South line	Feet from the	East/West line	County	
Dedicated Acres	Joint o	r Infill	Consolidation	Code	Order No.		· · · · · · · · · · · · · · · · · · ·		+	L	
40											
NO ALLO	WABLE W						UNTIL ALL INTER		EN CONSOLIDA	ATED	
		OR A	NON-STAN	IDARD	UNIT HAS	BEEN	APPROVED BY	THE DIVISION			
	I			1				OPERATO	R CERTIFICAT	TION	
	1					1			certify the the inj		
						1		contained herein	is true and comple		
	1							best of my know	isape and belief.		
	i					i			τ		
	I					1		100	1 you	ela	
	+	- — —		+		-+-		- Shenature	Janica		
						l		Printed Name			
	1						,	Agent			
						1		'liue			
						1 [<u>Date</u>	-22-97		
						1					
					<u> </u>			- SURVEYO	R CERTIFICAT	TION	
						I			that the well locati		
	1					1		11	s plotted from field made by me or		
									t that the same is best of my belief		
										, I	
	l							Ma	y 7 , 1,997		
	ا بے ب					ا 		_ Date Surveyer	Seel of CS 12		
						N		Frofessional	Surrettor		
				3751	.1' 3751	.6'			Ge HI.	- CUID-11	
	l				· · · · ·) -	- 1980'	- 1 Fal	Jyay	20	
	I			3744	L	.c. N		1 × w.o.	<u> </u>		
					- 760			Certinoatechio	- Gany UN denes	7977	
	l							BA	SIN SURVEYS		



APPLICATION TO DRILL

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL # 7 UNIT "O" SECTION 24 T22S-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' FEL & 760' FSL SEC. 24 T22S-R32E LEA CO. NEW MEXICO.
- 2. Elevation above sea level:
- 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: 9000'

6.	Estimated tops of	geological markers:		
	Rustler Anhydrite	980'	Brushy Canyon	7485'
	Lamar Lime	4890 '	Bone Spring	8750'
	Bell Canyon	4950 '		

7. Possible mineral bearing formation:

Bell Canyon	0i1
Brushy Canyon	0 i 1
Bone Spring	011

8. Casing program:

Hole size	Interval	OD casing	Weight	Thread	Collar	Grade	Condition
25"	0-40'	20"	NA	NA	NA	Conductor	New
17 ¹ ₂ ''	0-850'	13 3/8"	48#	8-R	ST&C	H-40	New
11"	0-4600'	8 5/8"	32#	8-R	ST&C	J - 55	New
7 7/8"	0-9000'	5½"	17#	8-R	LT&C	L-80	New

۰.



APPLICATION TO DRILL

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL # 7 UNIT "O" SECTION 24 T22S-R32E LEA CO. NM

9. Cementing and Setting Depth: 20" Conductor Set 40' of 20" conductor and cement to surface with Redi-mix. 13 3/8" Surface Set 850' of 13 3/8" H-40 48# ST&C casing. Cement with 600 Sx. Class"C" + 2% CaCl, circulate cement to surface. Set 4600' of 8 5/8" J-55 32# ST&C casing. Cement with 8 5/8" Intermediate 700 Sx. Class "C" Light + additives, tail in with 200 Sx. Class "C" neat + 2% CaCl, circulate cement to surface. 51/1 Set 9000' of $5\frac{1}{2}$ " L-80 17# LT&C casing. Cement with 500 Sx. Production Class "H" Halco Light + additives, tail in with 200 Sx. Class "H" Premium. Estimate top of cement 4500'

10. <u>Pressure Control Equipment:</u> Exhibit "E". A 900 Series 3000 PSI working pressur 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	
		V15C,		Type Mud
40-850'	8.4-8.6	29-34	NC	Fresh water Spud mud use paper to control seepage.
850-4600'	10-10.5	29-32	NC	Brine water use Lime to control pH and paper to control seepage.
4600 - 8500'	9.2-10	29-32	NC	Cut Brine with paper to control seepage and Lime to control pH.
8500-9000'	9.2-10.5	32-38	10 cc or less	Cut Brine, Drispac system use Gel for viscosity starch to control water loss and soda ash to control pH.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, unexpected kicks. 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. CHECKERS "24" FEDERAL # 7 UNIT "O" SECTION 24 T22S-R32E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. Caliper from TD to 4600', Gamma Ray from TD to surface of ground.
- B. Dual Laterlog, Micro SFL, CNL LDT from TD to 4600'
- C. Side wall cores where shows dictate.
- D. No DST's are planned but will be run if deemed necessary.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H₂S 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 3000 PSI, estimated BHT <u>140°</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 <u>16-20</u> 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 Bone Spring pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.



900 Series 3000 PSI WP

B.O.P.	EXHIB SKETCH	IT "E" TO BE	USED	ON
	WELL E			011
	ERS "24	" FEDE	RAL #	7
UNIT "(-		FION 2	
T22S-R	32E	LEA	CO. 1	M

•

···· .