N. M. OIL CONS. COM TIGH

P. O. BOX SUBSTIT IN TRIPLICATE:

HOBBS, NEW OMER TRIPLICATE:

Teverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

DEPARIMENT OF TH	EINTERIOR		5. LEASE DESIGNATION AND SERIAL NO.	
BUREAU OF LAND MA		USA BLM NM 81633		
APPLICATION FOR PERMIT 1	O DRILL OR DEEP	EN	6. IF INDIAN, ALLOTTER OR TRIBE NAME	
1a. TYPE OF WORK DRILL DEEPI			7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL GAS	0022	MULTIPLE ZONE	8. FARM OR LEASE NAME, WELL NO. #6	
WELL WELL OTHER 2. NAME OF OPERATOR	ZONE X	ZONE	Checkers "24" Federal	
Penwell Energy, Inc.			9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO.	Aidland Mayor	70701	10. FIELD AND POOL, OR WILDCAT	
600 N. Marienfeld, Ste. 1100, I 4. LOCATION OF WELL (Report location clearly and in accordance	-	79701	Red Tank Bone Spring	
At surface 1976 336			11. SEC., T., R., M., OR BLK.	
At proposed prod. zone -660 FSL & 991		1	AND SURVEY OR AREA	
660' FSL & 990			Sec. 24, T22S, R32E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF			12. COUNTY OR PARISH 13. STATE Lea N.M.	
35 miles East of Carlsbad, New	16. NO. OF ACRES IN LE	ASE 17, NO.	Lea N.M.	
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEARE LINE, FT. 660	920		HIS WELL 40	
(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®	19. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED. OR APPLIED FOR, ON THIS LEASE, FT. 1300	9000'		Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START	
3739' GR			Nov. 1, 1996	
PROPOSED	CASING AND CEMENTING PR	OGRAM		
SIZE OF HOLE GRADE SIZE OF CASING WEIGHT	ER FOOT SETTING DEPT	7H	QUANTITY OF CEMENT	
17 1/2" H-40 13 3/8" 48	850 W	Thereo	sx. Cl. C Neet - Circ.	
11" J-55 8 5/8" 32		I	sx_Cl.C+ 2 00sx_C_Neet Ci	
7 7/8" L-80 5 1/2" 17	9000'	500	sx Cl.H Est.TOC 5,000'	
OPER. OGRID NO	epen, give data on present productiv and true vertical depths. Give blowor	re zone and proposed	new productive zone. If proposal is to drill or if any.	
SIENED Branda Offman	Production	Analyst	DATE Oct. 10, 1996	
(This space for Federal or State office use)				
PERMIT NO.			therein	
Application approval does not warrant or certify that the applicant holds lega CONDITIONS OF APPROVAL, IF ANY:	or equitable title to those rights in the	subject lease which w	ould entitle the applicant to conduct operations thereon.	
G	•		SDATE 11-25-96	
*See In	structions On Reverse Sid	le	$\sim \sim $	

DISTRICT I P.O. Box 1950, Hobbs, NM 86240 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

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

OIL CONSERVATION DIVISION

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

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Red Tank Bone S	
	
1 (Well Number
ederal	6
y Inc.	Elevation 3739'

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	24	22 S	32 E		1980	South	330	West	Lea
								<u> </u>	<u> </u>

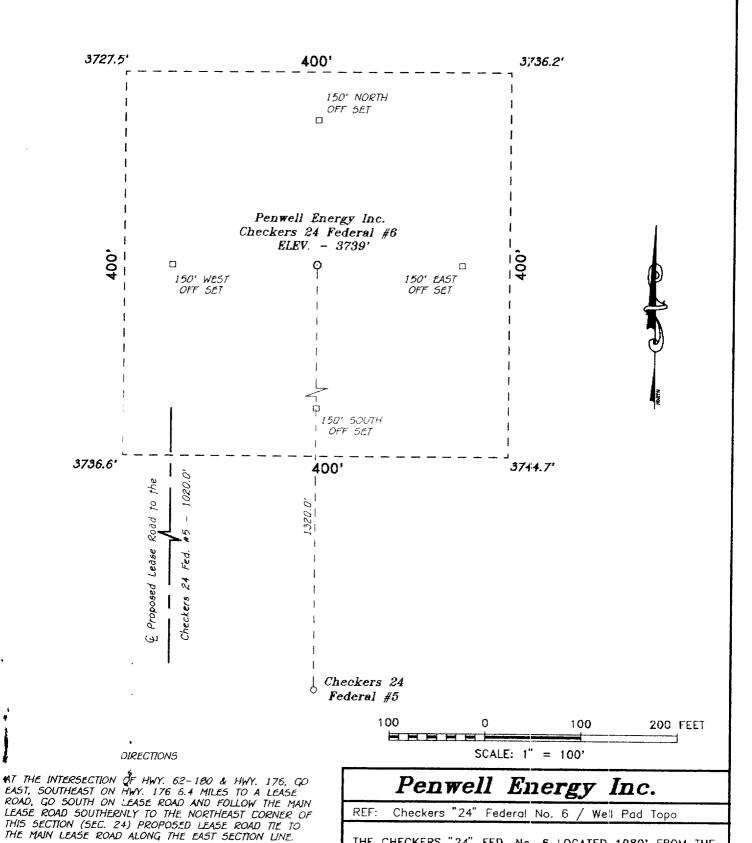
Bottom Hole Location If Different From Surface

UL or lot	No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated	Acres	Joint or	Infill Con	nsolidation (ode Or	der 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

	I hereby o	CERTIFICATION certify the the information s true and complete to the type and belief.
	Mtle	Coffman Lion Analyst Lio, 1996
2 5' 3736.2' 30'	I hereby certify the contribution on this plat was actual surveys me	CERTIFICATION at the well location shown plotted from field notes of the by me or under my
3 6' 3744.7'	correct to the b	DET 7, 1996
1980		0. 6385c 7977
	RASTIN	SURVEYS

SECTION 24, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

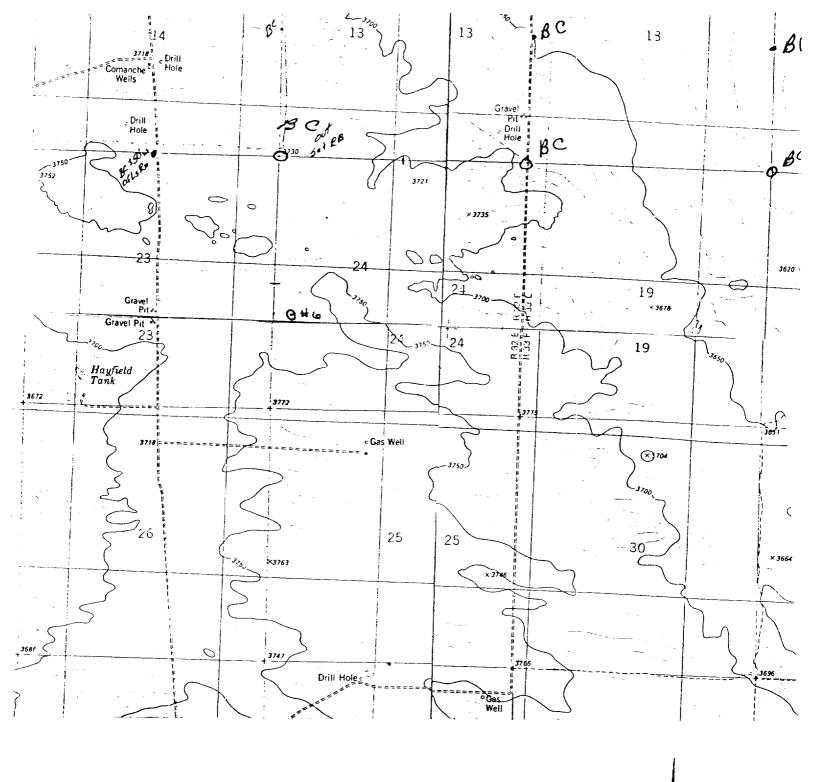
 W.O. Number: 6385
 Drawn By:
 S.C. NICHOLS

 Date: 09-09-96
 Disk: SCN #31 - 6385CC.DWG

THE CHECKERS "24" FED. No. 6 LOCATED 1980' FROM THE SOUTH LINE AND 330' FROM THE WEST LINE OF SECTION 24, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 09-07-96 Sheet

Sheet 1 of 1 Sheets



PENWELL ENERGY INC. CHECKERS 24 FEDERAL #6 1980' FSL & 330' FWL Sec. 24, T-22-S, R-32-E, Lea County, New Mexico.



SCALE: 1"=2000"

BASIN SURVEYS P.O. BO	DX 1786-HOBBS, NEW MEXICO	2000 [.]	0 HH	2000		4000 Feet
	0 00 111 1		09-07-96	Sheet	of	1 Sheets

PENWELL ENERGY, INC.

CHECKERS "24" FEDERAL #6 660 FSL & 990 FEL SECTION 24 T22S, R32E LEA COUNTY, NEW MEXICO

APPLICATION FOR PERMIT TO DRILL

- 1. LOCATION: 660 FSL & 990' FEL, SECTION 24, T22S, R32E
- 2. ELEVATION ABOVE SEA LEVEL: 3739'.
- 3. GEOLOGIC NAME OF SURFACE FORMATION: Kermit-Berino
- 4.. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using mud for the circulation medium.
- 5. PROPOSED DRILLING DEPTH: 9000'
- 6. ESTIMATED GEOLOGICAL MARKER TOPS:

Rustler 980' Lamar 4890' Bell Canyon 4950' Brushy Canyon 7485' Bone Spring 8750'

7. POSSIBLE MINERAL BEARING FORMATION:

OIL			
Bell Canyon Brushy Canyon Bone Spring	4950° 7485° 8750°	NONE	

CASING PROGRAM:

Hole Size	Interval	OD Csg	Weight	Thread	Collar	Grade	Cond.	
17 ½"	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'	5 ½"	17#	8-R	LT&C	L-80	New	

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 APPLICATION FOR PERMIT TO DRILL

PAGE 2

9. CASING CEMENTING & SETTING DEPTH:

13 3/8"	Surface	Set 850' of 13 3/8" 48#, ST&C casing. Cement with 600 sacks Class "C" Neet + 2% CaCl ₂ Circulate cement to surface.
8 5/8"	Intermediate	Set 4600' of 8 5/8" 32# J-55 ST&C casing. Cement with 700 sx Class "C" Lite + 200 sx "C" Neet + 2% CaCl ₂ . Circulate cement to surface.
5 1/2"	Production	Set 9000' of 5 1/2" 17#, STC casing. Cement with 500 sx Class "H" Lite Estimated top of cement @ 5,000'.

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 3000 PSI and 141° BHT.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD. WT.	MUD VISC.	FLUID LOSS	TYPE
0'- 850'	8.4	None	NC	FW
850' - 4600'	10.0	None	NC	BW
4600' - 8500'	Cut Brine	None	NC	СВ
8500' - 9000'	Cut Brine	36	15 cc's or less	Starch, Drispac, Soda Ash

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety safety instructor to the following:
 - A. Characteristics of H₂S
 - 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 H2S safety flag indicates 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 chalk board is inappropriate.
- C. Cellular telephones will be used to communicate off location in case emergency help is required.

7. DRILLSTEM TESTING

- A. Exhausts will be watered
- B. Flare line will be equipped with an electric ignitor, diesel pilot, or a propane pilot light in case gas reaches the surface.
- C. If location is near any dwelling a closed D.S.T. will be performed.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

PAGE 2

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.

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 APPLICATION FOR PERMIT TO DRILL

PAGE 3

12. TESTING, LOGGING AND CORING PROGRAM:

- A. Gamma Ray Surface casing to T.D.
- B. CNL-LDT, DLL-MFL Below 4600' to T. D.
- C. Coring Sidewall only
- D. DST'S None Anticipated

E.

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 3000 psi, estimated BHT 141°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after BLM approval of APD. Anticipated spud date is November 1, 1996. Drilling is expected to take 18 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 a oil well.

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 SURFACE USE PLAN

PAGE 2

4. 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.

5. 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".

METHODS FOR HANDLING WASTE DISPOSAL

- A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 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 and will be buried at least 36"
 deep within a reasonable period of time.
 - 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.
- 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.

6. ANCILLARY FACILITIES

No camps or airstrips will be constructed.

7. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 SURFACE USE PLAN

PAGE 3

- 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 polyethylene. 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, as close as possible, to BLM requirements.

8. 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. The pit area will then be leveled and contoured to conform, as closely as possible, to the original and surrounding area. Drainage systems, if any, will be reshaped, as close as possible, 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 contoured to match, as close as possible, 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.

9. OTHER INFORMATION:

- A. Topography: The proposed well site and access road consists of stabilized sand dunes. The most common plant varieties in the region are shin oak, mesquite, plains yucca, broom snakeweed and various grasses.
- A. Soils in the region consist of loamy sands which belong to the Kermit-Berino association.
- B. Flora and Fauna: The vegetation cover is a poor grass cover of three-awn, sand and spike dropseed, bluestem and other misc. native grasses along with small cedar trees. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.

PENWELL ENERGY, INC. CHECKERS "24" FEDERAL #6 SURFACE USE PLAN

PAGE 4

- D. Ponds and Streams: None in area.
- E. Residences and Other Structures: None in the immediate area, except oil production facilities.
- F. Land Use: Cattle grazing.
- G. Surface ownership: BLM, Carlsbad, N.M.
- H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey has been conducted by Archaeological Services By Laura Michalik and their report is being submitted to the appropriate government agencies.
- 10. OPERATORS REPRESENTIVE:

PENWELL ENERGY, INC. 600 NORTH MARIENFELD, STE. 1100 MIDLAND, TEXAS 79701

BILL PIERCE PHONE 915 683-2534

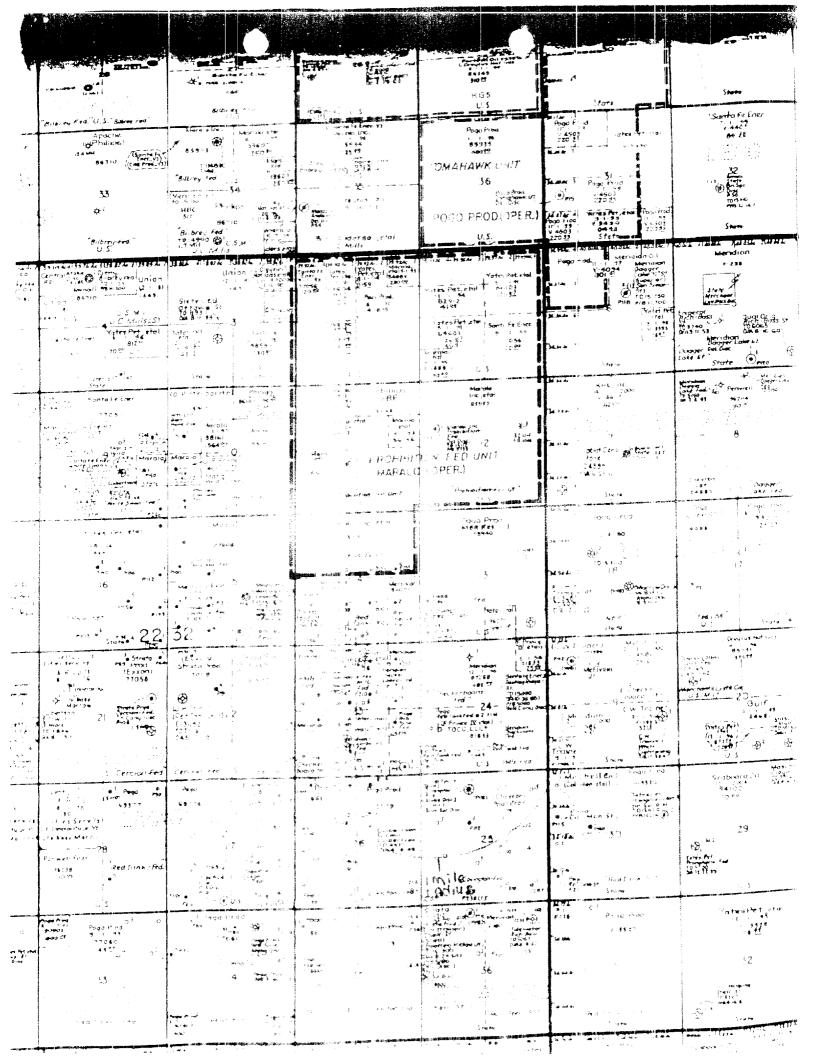
11. CERTIFICATION: - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein 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.

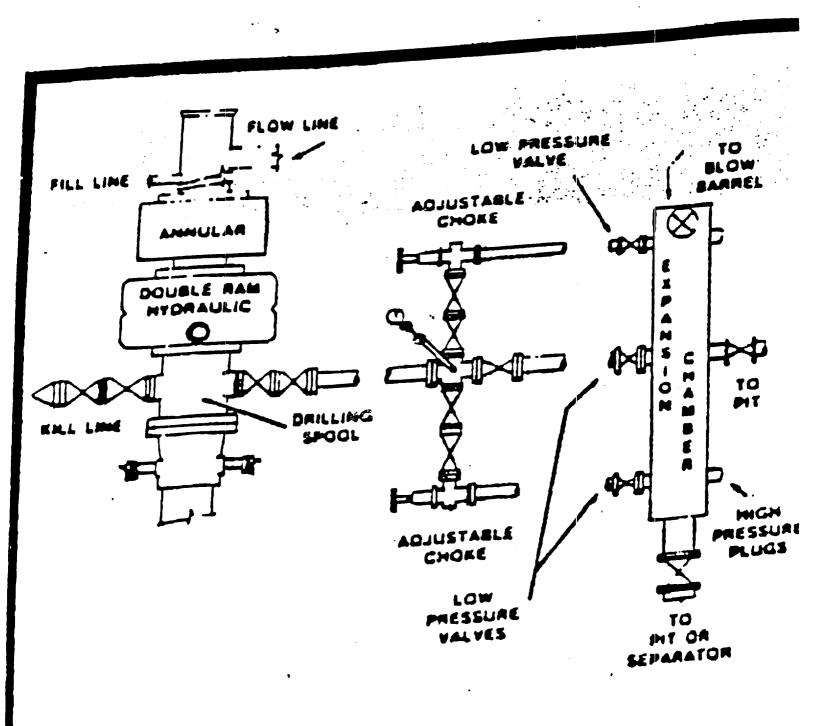
NAME

Bill Pierce

DATE : October 10, 1996

TITLE: Engineer





Standard Blowout Preventer Stack

