HM Oll Cons. Commission

Drawer DD

OFFICE FOR

88290 COPIES KILLIRET (Other instructions on reverse side)

Artesia, NM

BLM Rosmall District Modified Form No.

Form 3160-3 (July 1989) (lormerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

S. LEASE DEGIGNATION AND SERIAL NO.

NHD60-3160-2

4800

BUREAU OF LAND MANAGEMENT					NM-3515	8	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAM, ALLOTTED OR TRIBE NAME		
DRILL	DEEPEN		PLUG BA	בא 🗆	7. UNIT AGBUSMENT NAME		
D. TYPE OF WELL OIL. GAR WELL WELL WELL X	OTHER	#INGLE	MULTIP ZONE 3a. Area Code &	L	8. FARM OR LEAS Jill Fe		1 l
Merit Energy Company (214) 701-8377					9. WALL NO. 2		
3. ADDRESS OF OPERATOR 12221 Merit Dr. 4. LOCATION OF WELL (Report location At NUTL ACE)	n clearly and in accordance	with any State re	quirements.*)		10. PIBLD AND PO	cos	Slope Abo
At proposed prod. sone	FNL & 2310' FEI	ut. E	5	0 1992 C. D.	Sec. 24	-T95	6-R25E
14. DIRTANCE IN MILES AND DIRECTION 18 road miles N		and the second s			Chaves		New Mexic
15. DISTANCE PROM PROPUBED® LOCATION TO MEAREST PROPERTY OR LEASE LINE, PT. (Also to bearest drig. unit line,	2310'	16. NO. OF A	640 17. NO. OF ACRES ASSIGNED TO THIS WALL 160				
18. DISTANCE FROM PROPOSED LOCATI TO NEAREST WELL, DRILLING, CON OR APPLIED POR, ON TRIS LEASE, FT.	ON*	19. гаоговко 4	4800' Rotary				
21. ELEVATIONS (Show whether DF, B7	GR, etc.)	g' GL		•	Decembe		0, 1992
23.	PROPOSED CA	ABING AND CEME	NTING PROGRA	M	, <u></u> ,_,_,_,_,		
HOLE SIZE CASING SIZE	WE IGHT/FOOT	GRADE	THREAD	TYPE	HTTING DEPTH		ITT OF CEMENT
12 1/4" 8 5/8"	2.4 #	J-55	LTC		900'	Cir	<u>c. 500 sx</u>

MUD PROGRAM:

7/8"

1/2"

0' - 900': Fresh water spud mud. No. WL control.

J - 55

900' - 4800': Cut Brine, 8.9-9.5#/gal, Vis. 28-30, WL 20cc or less, oil if required

LTC

BOP PROGRAM:

A 10" 3000 psi wp Schaffer Type E double hydraulic BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8". The BOP will be used as a 2000 psi wp system and will be

tested daily.

10.5#

Post ID-1 12-18-52 New Loc + API

300

Gas is not dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: Bone. If proposal is to drill or deepen direct	If proposal is to deepen or plug back, give data on present productive some and proposed new productive onally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowou	L
preventer program, if any.	Agent for:	-

	Agent Ioi.				
1.	Merit Energy	Company	Nov.	20,	199
BIGNED COSERX SINTER	TITLE		PATE		
Blanki					
			•		

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY :

PLEASE BE ADVISED THAT YE BE WILL BE NO EXCAVATION

APPROVAL OF THIS APPLICATION DUES NOT WARRANT OR CERTIFY THAT THE APPLICABLY HOLDS LEGAL OR EQUITABLE TION OF THE ACCESS ROAD OR PAD WITHOUTSPAYMENT IONS OF THE TOTAL SERIES IN THE SUBJECT LEASE WHICH WOULD IN TADVANCES C. Section 1001, makes it a crime for any person knowingly ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

erator	MERIT ENERG	Y COMPANY	Leas	e JILL	FEDERAL		Well No.
			Rang			County	<u> </u>
t Letter	Section	Township 9 SOU	1 -	25 EAS	T NMPM		CHAVES
G	24 cation of Well:	3 300					
		ORTH line and		2310	feet from	the EAS	
2310 fer	t Hom the		Pool				Dedicated Acreage:
3647.3		ABO	l Pi	ECOS SLOPE AE	O. SOUTH_		160 Acre
Outline the	crease dedicated	to the subject well	by colored pencil	or hachure marks o	n the plat below	•	
if more than	one lease is ded	licated to the well,	outline each and	identify the ownersh	nip thereof (both	as to worki	ing interest and royalty).
☐ Yes	force-pooling, et	c.? If answer is ' and tract descripti	yes" type of con		idated (Use rev	erse side of	
o ellomepie .	vill be assigned	to the well unit	all interests hav	re been consolidat	ed (by commun	nitization, u	initization, forced-pooli
herwise) or	intil a non-stan	dard unit, eliminat	ing such interes	t, has been approv	ed by the Divisi		TOR CERTIFICATION
				350		i	
	1	1	1 NM-35		_		reby certify the the informa crein is true and complete to
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	Ì			I ₂₃₁₀ ;			
	i	3644	6' 3652.0	,	1	SURVE	YOR CERTIFICATION
	<u>_</u>	3044		;		/ hereby car	tify that the well location sh
	1			 		on this plat actual survi supervison	was plotted from field note see made by me or unde and that the same is true the best of my knowledge
				 '			PTEMBER 1, 1992
						Signature Profession	& Scal of nal Surveyor
	 					Cedurica	No JOHN WE WEST. RONALD L'EIDSON.
							GARY UNIES.
					500 0	1 Z	92-11-1258

APPLICATION FOR DRILLING

MERIT ENERGY COMPANY Jill Federal, Well No. 2 2310' FNL & 2310' FEL, Sec. 24-T9S-R25E

Chaves County, New Mexico Lease No.: NM-35158 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Merit Energy Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

San Andres	580'
Glorieta	1675'
Yeso	1740'
Abo	3905'
T.D.	48001

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Random fresh water sands from surface to - 300'+/-.

Oil: None expected.

Gas: Possible in the Abo below 3905'.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None, unless warranted

Logging: T.D. to surface casing: CNL-LDT, and DLL w/selected RXO.

T.D. to surface: GR-CNL.

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 1200 psi with 120° temperature.

H₂S: None expected. None in the previously drilled wells in vicinity.

10. Anticipated starting date: December 10, 1992.

Anticipated completion of drilling operations: Approximately 30 days.



MULTI POINT SURFACE USE AND OPERATIONS PLAN

MERIT ENERGY COMPANY
Jill Federal. Well No. 2
2310' FNL & 2310' FEL. Sec. 24-T9S-R35E
Chaves County, New Mexico
Lease No.: NM-35158
(Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Roswell Quadrangle map showing the location of the proposed well as staked, in relation to existing roads and highway. The well site location is approximately 19 road miles east of Roswell, New Mexico. Traveling east from Roswell, there will be approximately 10 miles of paved U.S. Highway 380 and 9 miles of gravel ranch/oilfield roads.
- B. Directions: Travel East from Roswell, NM on U.S. Highway 380 for 10 miles to the Bottomless Lakes turnoff. Turn north toward the National Guard building on Chaves County road No. 61. Continue past the National Guard for a total of 5.5 miles from the highway, crossing a cattle guard and follow the road northwest parallel to the Texas New Mexico pipeline. Cross the next cattle guard and continue northwest for 1.9 mile crossing the third cattle guard, then turn right to the Rick Fed., No. 1 well site. On the northeast corner of this well site take the road north to the Rick Fec. Well No. 2; then northeast for .5 mile to the Jill Fed., No. 1 well site. The proposed access road starts on the northeast corner of the pad and is staked to the northeast for 1200 feet to the southwest corner of the staked location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: There will be approximately 1200 feet of new access road 12 feet wide (24' Max.), which is color coded red cn Exhibit "B".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche or gravel. The surface will be properly drained. The access road will have a 2.0% slope in the first 500 ft. and will level off to about an .8% slope to the location.
- C. Turnouts: One will be required, increasing the road to 20 feet for passing.
- D. Culverts: None required.
- E. Cuts and Fills: None required, except to level the small sand dunes.
- F. Gates, Cattleguards: None required.
- G. Off Lease R/W: None required.
- H. Existing Roads: To be maintained in as good or better condition.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a one mile radius are shown on Exhibit "C".



4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if needed, will be installed on the drilling pad. A 2 3/8" gas pipeline will be buried a maximum of 24" and will run parallel with and 25 feet from the edge of the proposed access road to an existing pipeline at the Jill Fed. #1 well site.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads. The water will be obtained from a well belonging to Bill Timer in NE½NE½NE½ Sec.14-T11S-R26E.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche (gravel) for surfacing the proposed access road and well site pad will be obtained from an approved Federal pit in the SW%NE% of Section 25-T9S-R25E. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve/mud pit.
- B. Drilling fluids will be allowed to evaporate in the reserve/mud pit until the pit is dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

Merit Energy Company Jill Federal, Well No. 2 Page 3

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, waste pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: Maximum size: 260' X 185' plus 50' X 100' reserve pit, which will be cut 4 feet below surface level on the north side of the pad.
- C. Cut & Fill: A $1-1.5^{\circ}$ cut on the north and east with fill to the center and southwest will be required.
- D. The surface will be topped with compacted caliche or gravel and the pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced and screened until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as the pits are dry enough to work.

11. OTHER INFORMATION:

- A. Topography: The proposed well site is located on a fairly flat area with 5 7 foot dunes to the north and west. The proposed access road and well site are on the high terraces of the upland areas east of the Pecos River. The location is a relatively level area with an overall 2% slope to the southwest from an elevation of 3647.3' G.L with drainage toward the Pecos River tributaries.
- B. Soil: The topsoil at the well site is a light brown colored sandy loam. This soil is part of the Roswell-Jalmar fine sands with some areas of very loose sands held in place with vegetation.
- C. Flora and Fauna: The vegetation cover is a fair grass cover of three-awn, sand dropseed and grama along with plants of salt cedar, mesquite, yucca, cacti, broomweed, fourwing saltbush and miscellaneous weeds and wildflowers. The wildlife consists of antelope, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: The Pecos River is 1.75 miles west of the location.
- E. Residences and Other Structures: None in immediate vicinity.
- F. Land Use: Cattle grazing.

Merit Energy Company Jill Federal, Well No. 2 Page 4

11. OTHER INFORMATION:

cont.....

- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey has been conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved surface use and operations plan is as follows:

Mark Hamilton
Merit Energy Company
P. O. Drawer 8249
Roswell, New Mexico 88202
Home Phone: (505) 622-9062
Mobile Phone: (505) 625-6135

13. CERTIFICATION:

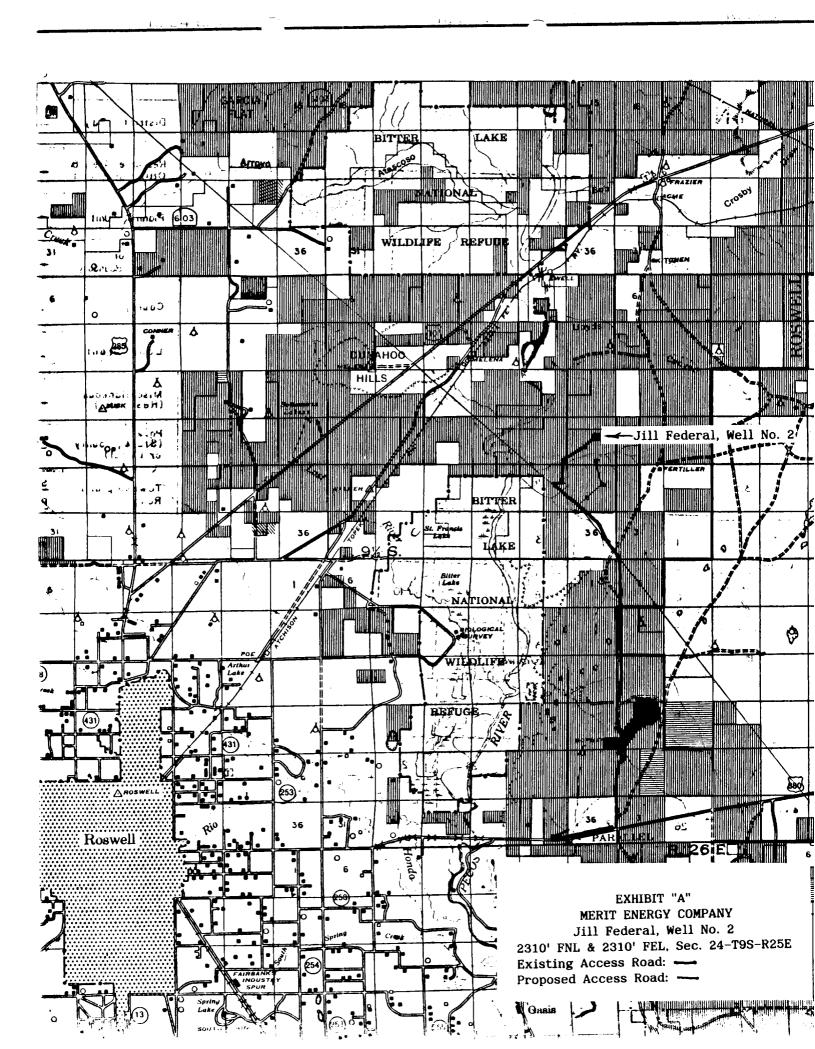
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Merit Energy Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

November 20, 1992

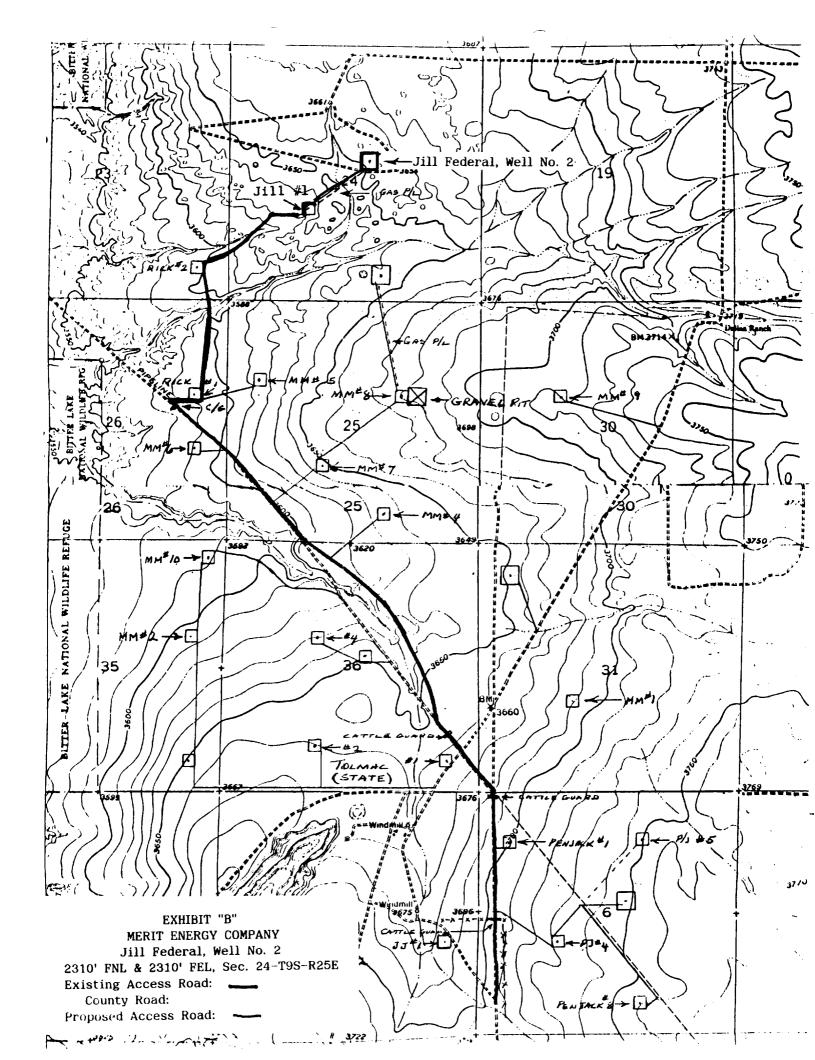
George R. Smith

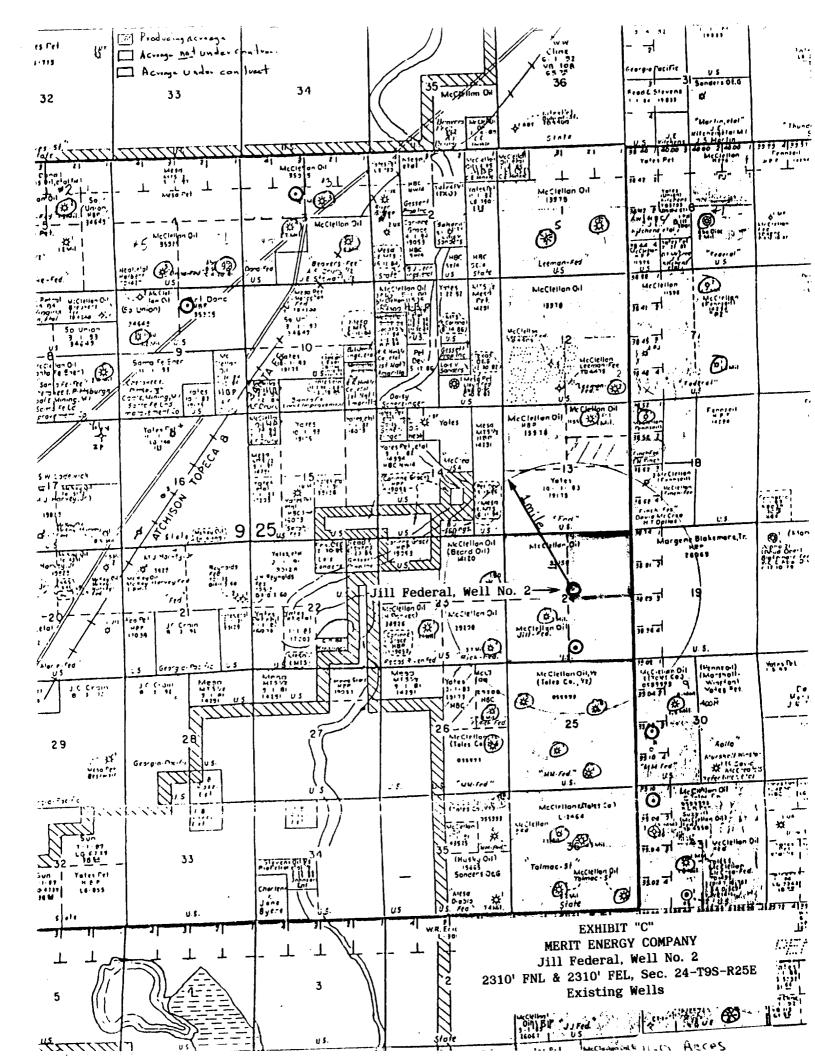
Agent for: Merit Energy Company

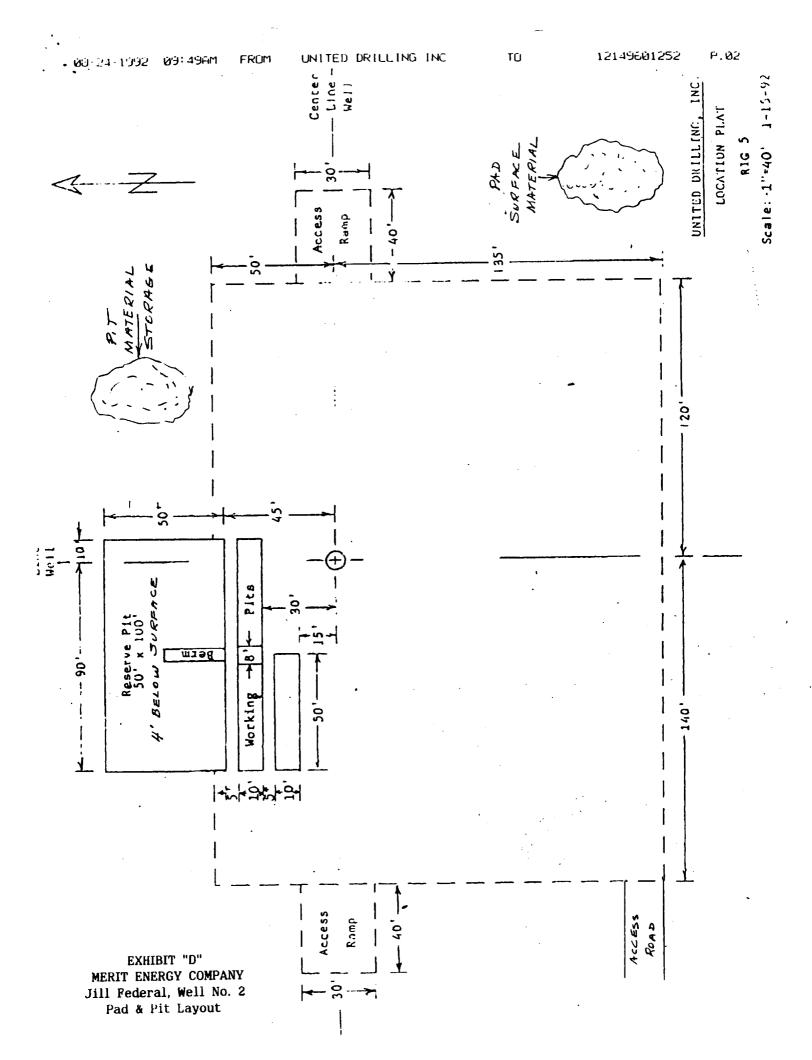










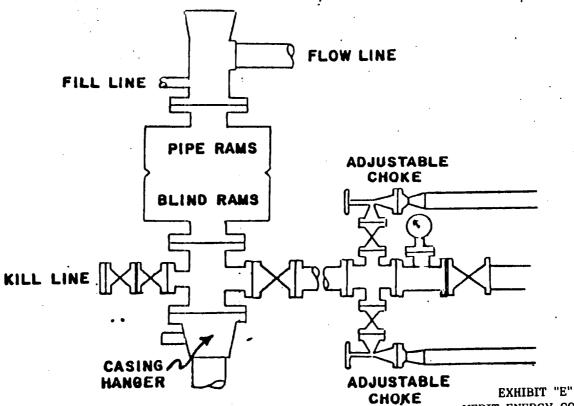




BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP - 80 GALLON, 4 STATION KOOMEY ACCUMULATOR 3000 psi WP CHOKE MANIFOLD



MERIT ENERGY COMPANY
Jill Federal, Well No. 2
BOP Specifications

