(December , 990)	1 D ² T	CD STATES	(Ofher instructio	2 C C C C C C C C C C C C C C C C C C C	Bud	RM APPROVED get Bureau No. 1004-1036
	DEPARTM.	OF THE INTERIOR	teverse side	13821 - 24 Designs	ntion and Serial No	ires: December 31, 1991 () 19119 19119
AP	PLICATION FOR PER	MIT TO DRILL C)R DEEPEN	6. If Indian, Allo	ttee of Tribe Name	
a. Type of Work				7. If Unit or CA,	Agreement Design	ation
DRIL Type of Well			المراجع المراجع المراجع المراجع	8. Well Name and	d No.	com 1666
Well	Other Single	Zone	Multiple Zone		Feder	rarl 4 #3
. Name of Operator Me	erit Energy Company	IN Cal	, <u>(</u>), ,	9. API Well No.		
. Address and Telephone		<u></u>		<u> </u>	015 -	28595
	Drive 1500 Dallas Tx 75		BROC	Burton	n Flats Bo	ne Springs #96335
At Surface:	ort location clearly and in accordance w		NEVE		r Blk. and Survey or A	ген
Lot 7 Unit	G, Sec 4, T21S, R27E,	1980 FNL 1980 FI	EL-Eddy Count FFH 25	ty, NM 1007	Sec. 4, T	21S, R27E
	Same as above					
6 miles -Nor	direction from nearest Town or Post Of theast of Carlsbad, NM		oil cor		^{rish} Eddy	13. State NM
 Distance from prop nearest property o (Also to percent del 	r lease line, Ft.	16. No. of acres in le	iase DIST	17 No. of acres assigned to this well		
(Also to nearest dri						
. Distance from propose	1980' FN		298	40(for		
	applied for, on this lease, ft	19. Proposed Depth		20. Rotary or Cable Tools		
. Elevations (Show whet	1320'	6	6650'	Rota		
		GR 318	3'		22. A	oprox date work will start* ASAP
Size of Hole	Grade, Size of Casing	PROPOSED CASING A Weight Per Foot	AND CEMENTING P	ROGRAM Setting Depth		Ouentitu of (
17 1/2	13 3/8	54.5		650		Quantity of Cement OSX Class C Circ
7.875	<u>8 5/8</u> 5 1/2	24	<u> </u>	\sim 1750		3sx Class C Circ
	npany proposes to drill and t	test the Bone Springs f	formation. Approx	6650 650' surface casin	σ will he set	sx class C,356sx C H tie &
oiroulated to surfa		ate casing will be ran	& cemented to sur needed.	face, if comercial p	roduction ca	using will be ran .
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				ubmit in Triplicate*		FORM AP Budget Bu	PROVED reau No. 1004-1036	
	DEPAR'	TED STATES		reverse side)		Expires: De	cember 31, 1991	
		LINT OF THE INT	ERIOR	1	5. Lease Designation and S	erial No.		
					6 Windian All and The	<u>NM - 🗶</u>	<u> 01119</u>	
AI	PPLICATION FOR	PERMIT TO DR	ILL OR DEEP	EN	6. If Indian, Allottee of Trib	e Name		
la. Type of Work					7. If Unit or CA, Agreement	Designation		
b. Type of Well	LLX DEEPER	N []		SIS	8. Well Name and No.	X		
	Other	Simple Zone		Makiple Zan		ederal 4 🙀	₩ #3	
2. Name of Operator M	lerit Energy Compa	ny	· · · · · · · · · · · · · · · · · · ·		9. API Well No.			
3. Address and Telepho	one No.		<u> </u>		10. Field and Pool, or Wildo	at		
4. Location of Well (Re	NN - Jal, NM 882	52 (505)	395-2173		Burton Flats - Bone Springs			
At Surface: 11 Lot 7	🗶 " Unit Letter 🕒 - Sec 🖉	4, T21S R27E			Pool # 96335			
At proposed prod. zone:	1980' FNL and 198	0' FEL - Eddy County	v, NM		Sec 4 - T21S R27E			
14. Distance in miles and	Same as above d direction from nearest Town	- D - 02						
	6 miles Northeast of				12. County or Parish		13. State	
15. Distance from pro nearest property	oposed* location to		f acres in lease	17. No. o	Edd facres assigned	Y	NM	
	rig unit line, if any)			to thi	s well			
18 Distance from	1980 sed location* to nearest well	'FNL	298		40(forty)			
	or applied for, on this lease, ft	19. Propos	ed Depits	20. Rotar	y or Cable Tools		;) <u> </u>	
21. Elevations (Show whe	ether DF BT CP	1320'	6650'			Rotary	T	
	31831					22. Approx dat	e work will start*	
23. Size of Hole	Conde Sing of Cal	PROPOSED C	ASING AND CEM	ENTING PROGRA	M	_L	ASAP	
	Grade. Size of Casing	Weight P		Settin	g Depth	Quanti	ity of Cement	
12 1/4	8 5/8	24	#	Settin	g Depila 650			
			#	Settin		570sx (Class C (Cir	
12 1/4	8 5/8	24	#	- Settin	650 6650	570sx (518sx (Class C (Circ Class C(Circ	
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MERIT ENERGY COMPANY

Federal 4 Com #3 1980' FNL and 1980' FEL L+7 Unit **G** Section 4-T21S-R27E Eddy County, New Mexico

1. The estimated top of geologic markers are as follows:

	Yates	675'	
	Delaware	2800'	
	Cherry Canyon	3300'	
	Brushy	5100'	
		6300'	
2. The estimated depth at which antici	ipated water, oil and gas are ex	xpected to be encountered	1:
Watan C C		1	

Water Surface to 500'

Oil and Gas Yates 675' to Bone Springs 6650'

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

4. Auxiliary Equipment and proposed Casing Program:

A. Auxiliary Equipment: Kelly Cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit drill pipe and collars will be available on rig floor in open position at all times for use when Kelly not in use.

is

B. Casing and Cementing Program: Hole Size 17 1/2" Total Depth 650' Casing size 13 3/8 Setting Depth 650' Mud Weight: 8.8

Casing Design:

O.D	. Wieght	Grade	Thread	Coupling	Interval	Length
13 3/8	3 54.5#	J-55	8R	ST&C	0-650	650
Minir	num Casing E	esign Fac	tors:			
Colla	pse 11.30, Bu	ırst 27.30,	Tensile St	rength 8.53		
Cement Prog	gram:			-		
Lead	Slurry 280 sx	s 3565 po	s C w/ 6%	Bentonite 2	% CaCl2,	1/8 lb. per sx Cellophane
	y Properites: '					I I
Tail S	Slurry: 290 sx	s Class C	w/2% CaC	212		
Slurr	y Properties:	12.8 ppg Y	rield 1.32 d	cu. ft./sx		
Hole Size: "	Total Deptl Setting Depth			750 Casing :: 10 ppg	Size: 8 5/8	3"

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 8 5/8" 24# J-55 8R ST & C 0-1750' 1750' Minimum Casing Design Factors: Collapse 11.30, Burst 27.30, Tensile Strength 8.53

Cement Program:

Lead Slurry: 343 sx 3565 posC w/6% Bentonite 10% NaCl (circ to surface) Slurry Properties: Weight-12.7 ppg Yield 2.10 cu. ft./sack Tail Slurry: 200 sxs Class C w/2% CaCl2 Slurry Properties: Weight 14.8 ppg Yield 1.32 cu. ft./sx

Hole Size: 7 7/8" Total Depth: 6650' Casing Size: 5 1/2" Setting Depth: 6650' Mud Weight: 8.7 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 5 1/2 15.5# J-55 8R LT & C 0-6650' 6650'

Minimum Casing Design Factors: Collapse 40.40, Burst 48.10, Tensile Strength 2.17

Cement Program from 6650' to 2750':

Lead Slurry: 687 sacks Class "H" with .3% Flack(Fluid Loss) 3% Mll7 Slurry Properties: Weight-15.6 ppg Yield-1.18 cu. ft/sack

From DV tool @ 2750' to Surface (circulated to surface): Tail Slurry: 272 sacks 35/65 posC w/6% Bentonite, 10% salt Slurry Properties: Weight-12.7 ppg Yield-2.10 cu ft./sack

5. Mud Program and Auxiliary Equipment:

From 0 to 650' (Minimum). Mud Weight: 8.6 ppg, Viscosity: 32 sec./1000 cc, Water Loss: N C cc, Mud Type: FW Gel/LCM. Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

From 650' to 2750' (Minimum Properties).
Mud Weight: 10.0 ppg, Viscosity: 28 sec./1000cc, Water Loss: N/C cc.
Mud Type: Brine, use salt water gel for hole sweeps.
Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

From 2750' to 6650' (Minin Properties) Mud Weight: 8.7 ppg, Viscosity: 30 sec./1000cc, Water Loss: N/C cc, Mud Type: Brine. Use salt water gel for hole sweeps.

6. Testing, Logging and Coring Program:

Samples: Every 10' from surface casing to TD. DST's: Any tests will be based on the recommendations of the well site Geologist as warranted by drilling breaks and shows. Coring: None Anticipated Logging: CNL form TD to 2750'.

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards: Anticipated BHP:

> From: 0' to 650' Anticipated Max. BHP: -0- PSI From: 650' to 5100' Anticipated Max. BHP: 1000 PSI From: 5100' to 6650' Anticipated Max. BHP: 1700 PSI

Maximum Bottom Hole Temperature: 130 degrees Fahrenheit

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: Possible lost circulation 450' to 5100'. H2S Zones Anticipated: None 8. Anticipated starting date: As soon as possible after approval with the drilling time being approximately 15 days and the completion time being another 15 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Merit Energy Company Federal 4 Com #3 1980' FNL and 1980' FEL Lot?Unit & Section 4-T21S-R27E Eddy County, New Mexico

This plan is submitted with a Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated the operations.

1. EXISTING ROADS:

Exhibit A is a portion of BLM map showing the well and roads in the vicinity for the proposed location. The proposed well site is located approximately 6 miles Northeast of Carlsbad, New Mexico and the access route to the location is indicated in Blue and Red on Exhibit A.

2. DIRECTIONS:

Go North of Carlsbad, New Mexico on Highway 206. Turn right(East) onto 600 to GCNM Avalon Plant. Turn North 1 1/4 mile to new access road on west side.

3. PLANNED ACCESS ROAD:

Approx. 600' feet in length going in a western direction. Drainage on both sides will be needed. No turn outs needed. Road will enter drilling pad on southeast corner.

4. LOCATION OF EXISTING WELL:

A. There is no drilling activity within a one-mile radius of the well site.

B. Exhibit F shows existing wells within a one-mile radius of the proposed wellsite.

5. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive the necessary flowline will be laid along road right-of-ways following the east & south road to production

facility onlease Federal 4 Com #1 Central Battery(2787' FNL and 860'FEL Section 4-T24S-R21S R27E NM #1531). 2 3/8" J-55 pipe will be
green line exhibit E.

Multi-Point Surface Use and Operations Plan Federal 4 Com #3 Page 2 of 3

6. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh and brine water system.

- The water will be obtained from commercial sources and will be hauled to the location over the existing and proposed roads shown in Exhibit A.
 - B. Fresh water source is the City of Carlsbad
 - C. Brine water source is B & E (Carlsbad, NM)

7. SOURCE OF CONSTRUCTION MATERIALS:

Materials for construction will be obtained from surface of location area(caliche at surface). There will be a burm built along south & west side of location to

prevent run-off into old lake bed.

8. METHODS OF HANDLING WASTE DISPOSAL:

County, New Mexico.

- A. Drill cutting will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with. Sanitary Port-O-Potties will be provided during drilling operations, cleaned, sanitized, and/or replaced as necessary.
- F. Trash, waste paper, garbage and junk will be contained to prevent scattering by the wind. Containment will be obtained by using covered trash bins. Then, hauled off to approved landfill off Highway 62-180 east of Carlsbad,

Eddy

G. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

9. WELL SITE LAYOUTS:

- A. Exhibit C shows the relative location and dimensions of well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined with 6 mil plastic..

C. A 400' x 400' area has been staked and flagged.

10. PLANS FOR RESTORATION:

A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned and all trash and junk to leave well site in as aesthetically a condition as possible.

Multi-Point Surface Use and Operations Plan Federal 4 Com #3 Page 3 of 3

B. Unguarded pits, if any, containing fluid will be fenced until they have dried been leveled.

- C. If the proposed well is non-productive, all rehabitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expedient as possible. All pits will be filled level
- within 90 days after abandonment.

11. SURFACE OWNERSHIP:

and

Federal Surface administered by the Bureau of Land Management, Carlsbad Resource Area.

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE: A. Through A.P.D. Approval:

B. Through Drilling Operations, Completion and Production:

Russell Whited, Production Manager Merit Energy Company 3525 Andrews Highway, Suite 113 Midland Tx. 79703 (915) 520-4345

Russell Whited (915) 520-4345

14. CLARIFICATION:

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 presently 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 Merit Energy Company and its terms and conditions under which it is approved. This statement is subject to the provisions of U.S.C. 1001 for the filing of a false statement.

West District,

Production Manager

1-14-97

Runll White Russell Whited

Date



DISTRICT I P.O. Box 1960, Hobbs, NM 88240

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

DISTRICT III 1000 Rig Brezos Rd., Aztec, NM 87410

DISTRICT IV PO BOX 2088, SANTA FE, NM 87504-2088 State of New Mexico

Energy, Minerals and Natural Resources Departmen-

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

□ AMENDED REPORT

NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

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VICINITY MAP



SEC. <u>4</u> TWP. <u>21-S</u> RGE. <u>27-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980' FNL & 1980' FEL</u> ELEVATION <u>3183</u> OPERATOR <u>MERIT ENERGY COMPANY</u> LEASE <u>FEDERAL "4" COM.</u>

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATIO. MAP



SCALE: 1'' = 2000'

SEC. 4 TWP. 21-S RGE. 27-E SURVEY_____N.M.P.M. COUNTY____EDDY DESCRIPTION 1980' FNL & 1980' FEL ELEVATION _____ 3183 OPERATOR MERIT ENERGY COMPANY LEASE_____FEDERAL "4" COM.____ U.S.G.S. TOPOGRAPHIC MAP ANGEL DRAW, N.M.

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117