District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Astec, NM 87410 District IV PO Box 2088, Sante Fe, NM 87504-2088			0	State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION Submi PO Box 2088 Santa Fe. NM 87504-2088				Form C-101 Revised February 10, 1994 Instructions on back to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies AMENDED REPORT			
APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE											
		1	Operator Na	me and Addre		<u></u>		2. OGRID	Number		
Merit Energy Company								3. API Number			
		Merit Dr		ite 1500	0						
		<u>, TX 752</u>	251				30-025-33095 6.Well No.				
4.	Property Co	de /		Longli		Property Name					
1	674	ļ <u></u>				Mattix Queens Unit Lease 45					
			•••••		Surface Lo				·····		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line South	Feet from the 1300	East/West line East	County		
P	15	25	37		1220			Lasi	Lea		
UL or lot no.	8. Section	Township	Bottom	Hole Lo Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
Р	15	25	37		1220	South	1300	East	Lea		
			posed Pool 1	1	I. \ -		10. Pr	oposed Pool 2			
	Penro	se Quee	ns hai	YGIIE /	MATTIX	IRVES ON			Al 14-14-14		
11. Work Ty	pe Code	12. Well Ty	pe Code	13. C	13. Cable/Rotary 14. Lease		Type Code 15. Ground Level Elevation				
		0	R		Р		3105'				
16. Multiple		17. Propos	ed Depth	18. Formation		19. Contractor		20. Spud Date			
No		3700	3700		e Queen	Nabors		ASAP			
			21.	Propose	ed Casing a	nd Cement	Program				
Hole Siz	e	Casing Size	Ca	sing wieght/	foot			f Coment	Estimated TOC		
12 1/4		8 5/8		24		1050	500sx (Surface		
7 7/8		5.5		15.5	3700		700sx Class C		Surface		
22. Describe the proposed program. If this application is to DEEPEN or PLUG BA						the data on the pres	sent productive z	one and proposed n	ew productive		
zone. Describe the blowout prevention program, if any. Use additional sheets if neccesary. NSL-355(0											
Marit Erra			oooo to	drill and	tast tha 7 E	livers Queen					
						livers Queen					
1050' surface casing will be set & circulated to surface. Approx. 3700' production casing will be ran & cemented to surface, perforated & stimulated as needed for production.											
casing wi	i pe ran	a cemente	su lo sui	iace, pei	noraleu a s	simulated as	necucu io				
Mud prog	Mud program EW/ to 1050', out Brine to 3700'										
Mud program FW to 1050', cut Brine to 3700'. BOPE Program: BOPE will be installed at the offset and tested daily for operational conditions.											
	DUFE FIDYIAIII. DUFE WIII DE INSIAIIEU AL THE ONSEL AND LESLEU DAILY TO OPERATIONAL CONDITIONS.										
1 -	-	information give		ue and							
complete to the best of my Knowledge and belief.					OIL CONSERVATION DIVISION						
Signature: Remail ante					ORIGINAL SIGNED BY JERRY SEXTON						
Printed Name:					Title:	Title: DISTRICT ! SUPERVISOR					
Russell Whited					Approval Date: UP Expiration Date:						
Operations Supt.											
Date: Phone:				Conditions of Approval:							
Sept.	5, 1995	6 (91	.5)520-4	1345	Attached			·			

.

-

Permit Expires 6 Months From Approvation Date Unless Drilling Underway.

ÿ-

OFFICE

SEP 12

RECENT

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III 1000 Río Brezos 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 Fcc Lease - 3 Copies

OIL CONSERVATION DIVISION P.0. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT									
API ZO-O Je	195	37240 LANGLIE Pool Name MATTIVY 7- Rivers Quern's							
30-025-33095 Property Code			Property Name					rnS Well Number	
7694				L	ANGLIE MATTI			45	
0 GRID No. 14591			Operator Name MERIT ENERGY COMPANY					Elevation 3099'	
Surface Location									
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Р	15	25 S	37 E		1220	SOUTH	1300	EAST	LEA
			Bottom	Hole Lo	ocation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code 0	rder No.]			l
41)			monution						
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED									
r		ORAN	NON-STAN	IDARD U	NIT HAS BEEN	APPROVED BY	THE DIVISION		
							I hereby contained herein best of my know Signature Russel Printed Nam Opeent Titu 9-6 Date	R CERTIFICAT y certify the the in, a is true and comple- itedge and betief.	formation ete to the
	 						on this plat w actual surveys supervison an correct to th APf Date Surveye Signature & Professional W.O. Nu Certificate. N	Seal of Surveyor	d notes of under my s true and if. -6-45)44 514 51, 676

SEP 1 2 1985 UCD HOBBE OFFICE





~

MERIT ENERGY COMPANY

Langlie Mattix #45 1220 FSL - 1320 FEL Unit P, Section 15-T25S-R37E Lea County, New Mexico

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

Base Red Beds	1000'		
Top Salt	1090'		
Yates	2820'		
7-Rivers	2900'		
Queen	3300'		
Pemrose	3450'		

2. The estimated depth at which anticipated water, oil and gas are expected to be encountered:

WaterSurface to 500'Oil and GasYates @ 2820' to Bottom Pemrose 3700'

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. Preventors 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 & B-1.

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 is not in use.

B. Casing and Cementing Program:

Hole Size: 11"Total Depth: 1050'Casing Size: 8 5/8"Setting Depth: 650'Mud Weight: 8.8 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 8 5/8" 24# J-55 8R ST & C 0-1050' 1050' Minimum Casing Design Factors: Collapse 1370, Burst 2950, Tensile Strength 3.81

Cement Program:

Lead Slurry: 550 sacks-Class Q with 2% CaCl2 1/4 lb per sack Cellophane Flake Expected Linear Fill: True Hole Volume-1089 feet Slurry Properties: Weight-12.8 ppg Yeild-1.98 cu.ft./sack

Hole Size: 7 7/8" Total Depth: 3700' Casing Size: 5 1/2" Setting Depth: 3700' 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 0-3700' 3700'

Langlie Mattix #45 Page 2 of 2

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

Cement Program:

Lead Slurry: 900 sacks Class "C" with .2% Calcium Cloride, 1/4# per sx Cello-Flake Calculated Linear Fill: True Hole Volume-3785.8. Slurry Properties: Weight-15.6 ppg Yeild-1.18 cu.ft./sack

5. Mud Program and Auxiliary Equipment: From 0 to 1050' (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 1050' to 3700' (Minimum Properties).

Mud Weight: 10.2 ppg, Viscosity: 34-40 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.

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 wellsite Geologist as warranted by drilling breaks and shows. Coring: None Anticipated Logging: CNL-FCD form TD to casing, with GR-CNL up to Yates @ 2820'.

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

> From: 0' to 1050' Anticipated Max. BHP: -0- PSI From: 1050' to 3700' Anticipated Max. BHP: 1000 PSI

Abnormal Pressures Anticipated: None Lost Circulation Zones Anticipated: Possible lost circulation 1050' to 3700'. H2S Zones Anticipated: Yates 2820' 7-Rivers 2900', Queens 3300', Penrose 3450' Maximum Bottom Hole Temperature: 104 degrees Fahrenheit

8. Anticipated starting date: As soon as possible after approval with the drilling time being approximately 10 days and the completion time being another 12 days.