	÷		*****			•	S. LEASE DESIGNATION AND SERIAL NO.
	BUREA	AU OF LAND MAN	AGEME	ML OILCO	ins.	OIV-D	
APPL	ICATION FO	REPERMIT TO	DRIL	LOR DEE	PEN	d Ava	6. IF INDIAN, ALLOTTER OR TRIBE NAME
A. TIPE OF WORK	•	TOCIVED		1 6 6 1 1 1 1 1			1000
D) b. TYPE OF WELL	RILL X	MAR 0 1 2005	I L	Artesia,	NM	8821	T. UNIT AGREEMENT NAME
• • • • • • • • • • • • • • • • • • • •		PARTERIO	8	HACLE KX	MULTIP	i=	S. FARM OR LEASE HAME WELL NO.
2. NAME OF OPERATOR	WILL CAI OF	HER	z	IONE E	ZONE		MARINE "19" FEDERAL #
LATIGO PETROL	LEUM, INC.	(JOE (CLEMEN'	T 432-684-4	293)	1	9. API WELL NO.
3. ADDRESS AND TELEPHONE HO).	TE 1900 MIDLA					30-015-33981
4. LOCATION OF WELL (Report location clea	rly and in accordance	with any	State requirement	(s.*)		10. FIELD AND POOL OF WILDCAT COTTONWOOD DRAW UNDES MORROW
At surface	12201 1227 027	CTION 19 T25S-I	0 724 m	2011 00 10-1			11. BEC., T., R., M., OR BLK.
At proposed prod. 20							AND SURVEY OR AREA
	10,	· SP lated a					SECTION 19 T25S-R27E
14. DISTANCE IN MILES							12. COUNTY OR PARISH 13. STATE
		outhwest ot Mal					EDDY CO. NEW MEXIC
13. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE	BT LINE, FT.	1330'		O. OF ACRES IN L	EASE		FACELS ASSIGNED HIS WILL 320
(Also to nearest dri 13. DISTANCE FROM PRO	COSED LOCATION.		- 19. Fi	HOPOSED DEPTH	 -	20. BOTAE	RY OR CABLE TOOLS
TO NEAREST WELL, I OR APPLIED FOR, ON TE		D. NA	_	[2,100'		ROTARY	
21. ELEVATIONS (Show WI	hether DF, RT, GR,	etc.)				110 111111	22. APPROX. DATE WORK WILL START
	•	3240	GR.				WHEN APPROVED
23.		PROPOSED CA	SING ANI	O CEMENTING P	ROGRAN		-
SIZE OF ROLE	GRADE SIZE OF CAS	ING WEIGHT PER	FOOT	SETTING DEP	тн		QUANTITY OF CENERT
25"	20"	NA NA		40'		Cement	to surface w/Redi-mix
1715"	H-40 13 3		WITN	ESS 400'			. Circulate cement.
12½"	-	5/8" 40 & 36	-	2100'		750 Sx	
8½"	N-80,P-110			8800'		1000 S	x. "
6 1/8"	P-110 4½	11.5		12 100 to	85001	400 Sx	. cement to liner top.
0 1/8	17-110 4-2						TROLLED WATER BASIN
Redi-mix. 2. Drill 17 with 400 sirface. 3. Drill 12 Cement with 4. Drill 8½ Cement with 4. Drill 8½ Cement with 4. Drill 6 back to 8	hole to 40 Sx. of Class the control of the control	00'. Run and so so "C" cement + 100'. Run and of Class "C" co co co class "C" 12,100'. Run with 400 Sx.	et 400 %# Flo set 210 ement et 880 cement and se of Cla	of 13 3/8 ocele/Sx, + oo' of 9 5/ + additives o' of 7" 26 + additive t a3600' 4½ ss "H" Prem on present production depths. Give blowe	" 48# - 2% C 8" 36 s, cir s# N-8 es, ci 1" 11. nium P	H-40 S aCl, ci & 40# culate 0 & Pll rculate 6# Pl00 lus cem	r o
100	PH	entro.		GENERAL	REQU	JIREMI	ENTS 01/25/05
SIGNED				ÁND SPEC	IAL S	TIPUL	ATIONS
(This spice for Fede	ral or Seate office u	3e}		ATTACHE	D		
PERMIT NO.				APPROVAL DATE			
Application approval does r		t the applicant holds legal or	ಂದುಗಡಾರ್ಗಿ ಭಗ	le to those rights in the	subject le	se which wou	ld entitle the applicant to conduct operations ther
		a ACT	TNG				
1	/s/ Joe G. Lara	a ACI	াৰ	ELD MAN	AGEI	ર જ	FEB 2 4 2005
APPROVED BY							DATE
		*See Instru	uctions (On Reverse Sic	de	App	POWAT FOR A STR.

APPROVAL FOR 1 YEAR

SHINDS	BUREAU OF LAND MAN		VELLO		5. Lease Seria	al No. 09756	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.						6. If Indian, Allottee or Tribe Name	
SUBMIT IN TR	RIPLICATE - Other inst	ructions on	reverse	side	7. If Unit or (CA/Agreement, Name and/or No.	
1. Type of Well							
Oil Well Gas Well	Other				8. Well Name	e and No.	
2. Name of Operator LATIGO	PETROLEUM, INC. ((JOE CLEME	NT 432-	-684-4293)	MARINE "	19" FEDERAL # 1	
3a. Address 415 WEST WA	ALL STREET	3b. Phone	No. (include	area code)		•	
	D, TEXAS 79701		84-4293	}	10. Field and F	Pool, or Exploratory Area DD DRAW UNDES MORRO	
4. Location of Well (Footage, Sec.	., T., R., M., or Survey Description	on)					
1130' FWL & 1480'	FNL SECTION 19 T2	25S-R27E E	DDY CO	. NM	EDDY CO.		
12. CHECK AP	PROPRIATE BOX(ES) T	O INDIĈATI	E NATUR	E OF NOTICE, R	EPORT, OR C	THER DATA	
TYPE OF SUBMISSION			TYP	E OF ACTION			
****	☐ Acidize	Deepen		Production (Start	/Resume)	Water Shut-Off	
Notice of Intent	☐ Alter Casing	Fracture T	Freat	☐ Reclamation		Well Integrity	
Subsequent Report	Casing Repair	New Cons	struction	☐ Recomplete	χΩ	Other Move location	
Final Abandonment Notice	Change Plans	Plug and A		Temporarily Aba	andon		
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal			
LATIGO PETROLEUM, 1 FEDERAL # 1	INC. Requests the	approval	to mov ϵ	the location	n of their	MARINE "19"	
FRO	OM: 1330' FNL &	1330' FWL	SECTIO	N 19 T25S-R2	7E	•	
TO:	: 1480' FNL &	1130' FWL	SECTIO	N 19 T25S-R2	7E		
The reason for this DUE TO topography.	s move is to compl	y with th	e reque	st of the BU	REAU O F LA	ND MANAGEMENT	
4. I hereby certify that the foregoing	g is true and correct	1					
Name (Printed/Typed) Joe T. Janica			Title	Agent			
Signature Signature	T James		Date	02/04/05			
	THIS SPACE F	OR FEDERA	L OR ST	ATE OFFICE USE			
pproved by /s/ Joe	G. Lara	AC	TING	FIELD MAN	AGER	FEB 2 4 2005	
conditions of approval, if any, are all entity that the applicant holds legal which would entitle the applicant to ex-	trached. Approval of this notic	e does not warra	ant or		AD FIELD	O OFFICE	
Title 18 U.S.C. Section 1001 and Title	e 43 U.S.C. Section 1212, make	it a crime for an	y person kno				

Expires November 30, 2000

BUREAU OF LAND MANAGEMENT

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Confes

State Lease - 4 Copies Fee Lease - 3 Copies

1301 W. GRAND AVENUE, ARTESIA, NW 882

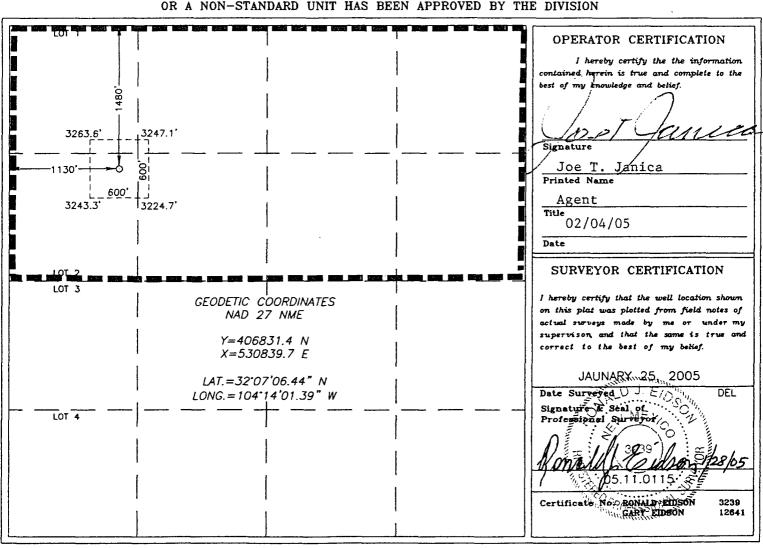
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

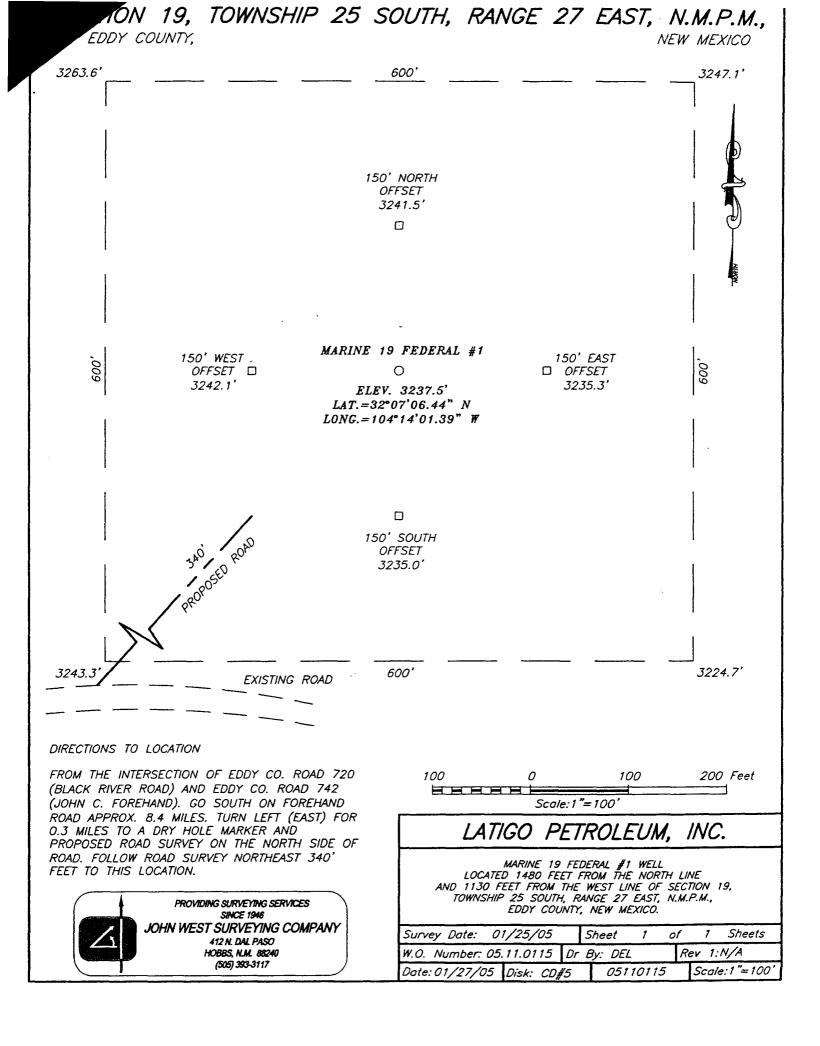
Number
1
vation 238'

Surface Location UL or lot No. Lot Idn Feet from the North/South line Section Township Range Feet from the East/West line County 2 19 25-S 27-E 1480 NORTH 1130 WEST **EDDY**

Bottom Hole Location If Different From Surface Lot Idn Feet from the UL or lot No. North/South line Section Township Range Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 320

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





APPLICATION TO DRILL

LATIGO PETROLEUM, INC.
MARINE "19" FEDERAL # 1
UNIT "F" SECTION 19
T25S-R27E EDDY 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: 1330' FNL & 1330' FWL SECTION 19 T25S-R27E EDDY CO. NM
- 2. Elevation above sea level: 3240' GR.
- 3. Geologic name of surface formation: Quateranity
- 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: 12,100'
- 6. Estimated tops of geological markers:

Delaware	1880'	Strawn	10490'
Bone Spring	5340'	Atoka	10810'
Wolfcamp	5800'	Morrow Lime	10920'
Penn Shale	10190'	Mõrrow Clastics	11280'

7. Possible mineral bearing formation:

Strawn Gas

Morrow Gas

8. Casing program:

Hole size	Interval	OD casing	Weight	Thread	Collar	Grade_
25"	0-40"	20"	NA	NA	NA	Conductor
17½"	0-400'	13 3/8"	48	8-R	ST&C	H-40
12½"	0-2100'	9 5/8"	36 & 40	8-R	ST&C	J-55
8½"	0-8800'	7''	26	8-R	LT&C	P-110
* 6 1/8"	8500-12,100'	41211	11.6	8-R	LT&C	P-110

^{*}Liner from 8500' to TD.

APPLICATION TO DRILL

LATIGO PETROLEUM, INC.

MARINE "19" FEDERAL # 1

UNIT "F" SECTION 19

T25S-R27E EDDY CO. NM

9. CEMENTING AND CASING SETTING DEPTHS:

9.	20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
	13 3/8"	Surface	Set 400' of 13 $3/8$ " $48\#$ H-40 ST&C casing. Cement with 400 Sx. of Class "C" cement + additives, circulate cement to surface.
	9 5/8"	Intermediate	Set 2100' of 9 5/8" 36 & 40# J-55 ST&C casing. Cement with 750 Sx. of Class "C" cement + additives, circulate cement to surface.
	7'' 2n	d Intermediate	Set 8800' of 7" 26# P-110 LT&C casing. Cement with 1000 Sx. of Class "C" cement + additives, estimate top of cement 1800' from surface.
	4½" Pr	od. Liner	Set 3600' of 4½" 11.6# P-110 Liner from TD (12,100') back to 8500'. Cement with 400 Sx. of Class "H" Premium Plus cement + additives, cement to top of liner.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 1500 Series 5000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 5000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40 ~ 400 ' .	8.4-8.7	29-34	NC ·	Fresh water Spud Mud add paper to control seepage.
400-2100'	10.0-10.2	29-34	NC	Brine water use paper to control seepage use higih viscosity sweeps to clean hole.
2100-8800'	10.0-10.3	29-40	NC	Same as above.
8800-12,100'	.9.8-10.1	32-40	* 10 cc or less	Cut Brine use Gel to control viscosity,Dris-
* Water loss ma and casing as	ay have to be co s well to protec	ntroled in orde t formation fro	er to run logs om damage.	Pac to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

LATIGO PETROLEUM, INC.

MARINE "19" FEDERAL # 1

UNIT "F" SECTION 19

T25S-R27E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Laterolog, Spectral Density, LDT, CNL, MGRD, Gamma Ray Caliper from 2100' to 13 3/8" casing shoe. Gamma Ray, Neutron from 13 3/8" casing shoe to surface. Same open hole logs over intervals 8800 to 2100', TD to 8800'.
- B. Mud logger will be placed on hole at 1700'.
- C. No DST's are planned at this time.
- D. No cores are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of $\rm H^2S$ in this area. If $\rm H^2S$ is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 5200 PSI, and Estimated BHT 195°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

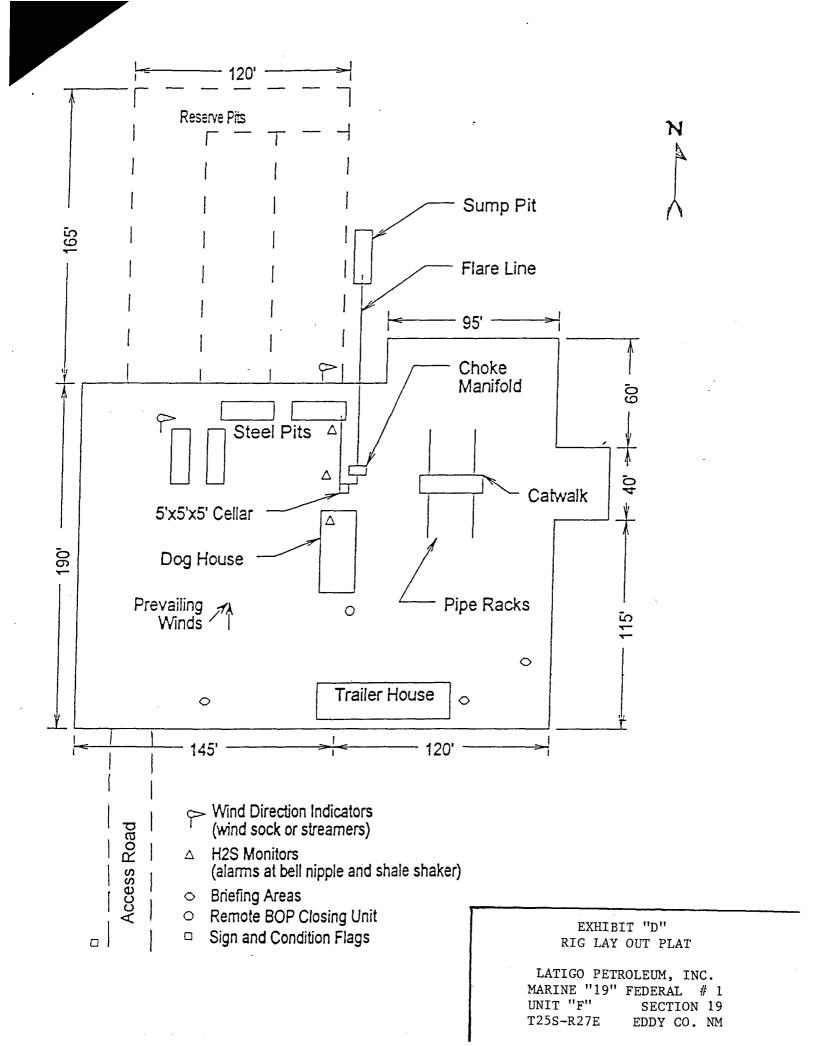
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 40 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

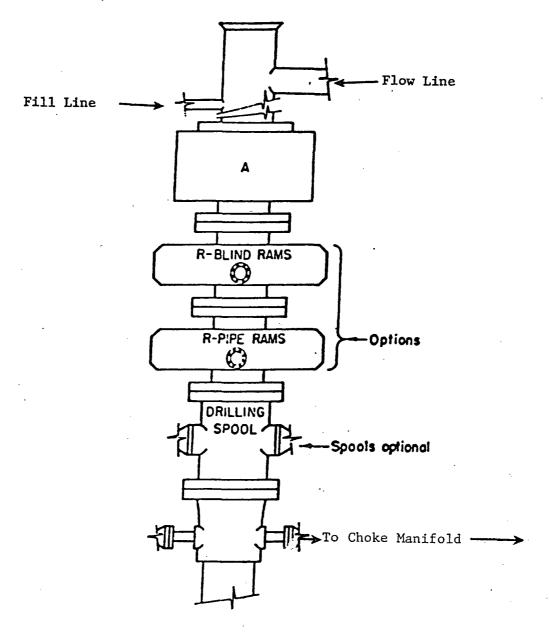
15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The MORROW formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as a gas well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - 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. H_2S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blóoie 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 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" & "E-1"
- 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. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST 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.
- 9. If H_2S 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 H_2S scavengers if necessary.





ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

LATIGO PETROLEUM, INC.
MARINE "19" FEDERAL # 1
UNIT "F" SECTION 19
T25S-R27E EDDY CO. NM



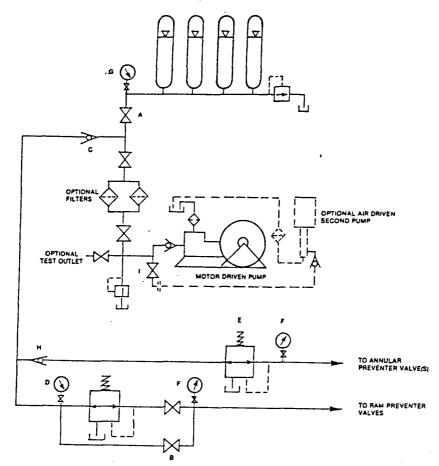


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

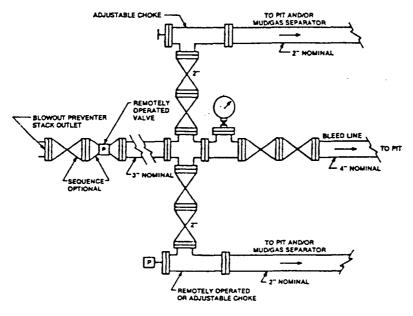


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXMIBT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

LATIGO PETROLEUM, INC.

MARINE "19" FEDERAL # 1
UNIT "F" SECTION 19
T25S-R27E EDDY CO. NM