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4. LOCATION OF WELL (] At surface	Report location clearly and	in accordance with	h any Si	tate requirem	ients.*)		CORBIN QUE		
🖊 200' FNL & 13	300' FEL SECTION	9 T18S-R3	3E L	EA CO.	NM		11. SEC., T., E., I AND SUBVEY	M., OR BI	
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	AND DIRECTION FROM NEAR	. .					12. COUNTY OR F	ARISH	13. STATE
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15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to mearest dr)	T LINE, FT. g. unit line, if any)		16. NO. - 3	OF ACEES I	N LEASE	17. NO. O TO TH	F ACRES ASSIGNED		
OR APPLIED FOR, ON TH	RILLING, COMPLETED, HIS LEASE, FT.		19. рко 43	POSED DEPTI	1	20. ROTAL ROTA	RY OB CABLE TOOL	3	
21. ELEVATIONS (Show wh		3986' GR.					22. APPROX. DA		E WILL START"
23.		PROPOSED CASIN	IG AND	CEMENTIN	G PROGRA	м СА	PITAN CONTR	TOLLE	D WATER BASIN
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	στ	SETTING	DEPTH	1	QUANTITY OF	CEMENT	•
25"	Conductor 20"	NA	[-	40'		Redi-m	ix cement		
124"	J-55 8 5/8"	24	-	385		350 Sx		u n	"
7_7/8"	J-55 51/3"	15.5		4310	,	1250 S		1	

- 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
- 2. Drill 12½" hole to 385'. Run and set 385' of 8 5/8" 24# J-55 ST&C casing. Cement with 350 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. cement to surface.
- 3. Drill 7 7/8" hole to 4310'. Run and set 4310' of 5½" 15.5# J-55 ST&C casing. Cement with 1000 Sx. of Halco Light cement + additives, tail in with 250 Sx. of Class "C" cement + additives, circulate cement to surface.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED OFT. Janua	fific Agent	08/01/04	
(This space for Federal or State office use)			
100 L			K
PERMIT NO.	APPROVAL DATE		48

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY/S/ Joe G. Lara	FIELD MANAGER	DATE 7 SEP 2004
*See	Instructions On Reverse Side AP	PROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States_any_false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I

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1625 N. FRENCH DR., HOBBS, NM 88240

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

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

State of New Mexico

Energy, Minerals and Natural Resources Department

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 Copies Fee Lease - 3 Copies

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ELEVATION3986'							
OPERATOR LATIGO PETROLEUM, INC.							
LEASE C.C.Q.U.							



LOCATION VERIFICATION MAP



APPLICATION TO DRILL

LATIGO PETROLEUM, INC. CENTRAL ORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 200' FNL & 1300' FEL SECTION 9 T18S-R33E LEA CO. NM

2. Elevation above Sea Level: 3986' GR.

3. Geologic name of surface formation: Quaternery Aeolian Deposits.

4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.

5. Proposed drilling depth: 4310'

6. Estimated tops of geological markers:

Rustler Anhydrite	1560'	Yates	3050'
Top of salt	1668'	Seven Rivers	3482'
Base of Salt	2824 '	Queen	4242 '

7.	Possible	mineral	bearing formations:
	Yates		Gas

Yates	Gas	Queen	Oil
Seven Rivers	Oil		

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25''	0-40'	20''	NA	NA	NA	Conductor
124"	0-385'	8 5/8"	24	8-R	ST&C	J-55
7 7/8"	0-4310'	5 ¹ 2''	15.5	8-R	ST&C	

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APPLICATION TO DRILL

LATIGO PETROLEUM, INC. CENTRAL ORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO. NM

9. <u>CEMENTING & SETTING DEPTH:</u>

20''	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8"	Surface	Set 385' of 8 5/8" 24# J-55 ST&C casing. Cement with 350 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to surface.
5 ¹ 2''	Production	Set 4310' of 5½" 15.5# J-55 ST&C casing. Cement with 1250 Sx. of Class "C" cement. 1000 Sx. of Halco Light cement + additives, tail in with 250 Sx. of Class "C" cement + additives, circulate cement to surface.

- 10. <u>PRESSURE CONTROL EQUIPMENT</u>: Exhibit "E" shows a 900 Series 3000 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 9 5/8" 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 the drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected in this well.
- 11. PROPOSED MUD CIRCULATING SYSTEM:

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DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE SYSTEM
40-350'	8.4-8.6	29-38	NC	Fresh water use paper to control seepage.
350-4310'	10.0-10.2	29-40	NC*	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
	ter loss contro h to a Polymer		o run logs or casing	

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, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

LATIGO PETROLEUM, INC. CENTRAL ORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Laterolog, CNL, LDT, Gamma Ray, Caliper from TD back to 8 5/8" casing shoe.
- B. Cased hole logs: Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- C. No DST's, cores or mud logger will be used on this well.

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 1500 PSI, and Estimated BHT 130°

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 <u>10</u> days. If production casing is run then an additional <u>30</u> 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 <u>Queen</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

Page 3

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H_2S
 - 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. 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 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.

• 13-A

8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.

· 13–A

9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

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SURFACE USE PLAN

LATIGO PETROLEUM, INC. CENTRAL CORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO..NM

- EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From Hobbs New Mexico take U.S. Hi-way 62-180 West to the junction with State Hi-way #529, turn Right go approximately 16 miles to Mile Post 13 turn South go .6 Mi±, turn Left go .2 Mi±, turn Right go .3 Mi±, Right go approximately 700', location is on the East side of road approximately 370'.
 - C. Flowlines and powerlines will be constructed along existing roads and R-O-W's.

2. PLANNED ACCESS ROADS: Approximately 370' of new road will be constructed.

- A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
- B, Gradient of all roads will be less than 5.00%.
- C. If turn-outs are necessary they will be constructed.
- D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.
- E. Center-line for new roads will be flagged. Earth-work will be will be done as field conditions require.
- F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.
- 3. LOCATIONS OF EXISTING WELLS IN A ONE MILE RADIUS. EXHIBIT "A-1"

A. Water wells	- None known	e Q
B. Disposal wells	- As shown on Exhibit "A-1"	
C. Drilling wells	- None known	B
D. Producing wells	- As shown on Exhibit "A-1"	
E. Abandoned wells	- As shown on Exhibit "A-1"	

Page 4

SURFACE USE PLAN

LATIGO PETROLEUM, INC. CENTRAL CORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO. NM

- 4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "C"
- 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE MATERIAL:

A. Drill cuttings will be disposed of in the reserve pits.

- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

SURFACE USE PLAN

LATIGO PETROLEUM, INC. CENTRAL CORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO..NM

- 9. 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.
 - C. Mud pits in the active circulating system will be steel pits & 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 polyethelene. 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 per BLM requirements.
- 10. 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, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped 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 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.

11. OTHER INFORMATION:

- A. Topography is relatively flat with a slight dip to the West, the soil consists of tam loamy silty sands mixed with small gravel. Vegetation consists of shinnery oak, prickley pear, yucca, broom snakeweed, sand sage and various native grasses.
- B. Surface is owned by the Ruth Caviness Trust, and the minerals are owned by The U.S. Department of Interior.
- C. An archaeological survey will be conducted and the results will be filed with The Bureau of Land Management Carlsbad Field office in Carlsbad NM.
- D. There are no domestic dwellings located within one mile of the location.

12. OPERATORS REPRESENTIVE:

Before construction:

During and after construction:

TIERRA EXPLORATION, INC. P.O. BOX 2188 HOBBS, NEW MEXICO 88241 JOE T. JANICA OFFICE PHONE 505-391-8503

LATIGO PETROLEUM, INC. 415 WEST WALL STREET SUITE 1900 MIDLAND, TEXAS 79701 JOE CLEMENTS 432-684-4293

13. <u>CERTIFICATION</u>: 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, are true and correct, and that the work associated with the operations proposed herein will be performed by LATIGO PETROLEUM, INC. it's contractors/subcontractors is in the conformity with thus 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.

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900 Series 3000 PSI WP

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

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LATIGO PETROLEUM, INC. CENTRAL CORBIN QUEEN UNIT # 106 UNIT "A" SECTION 9 T18S-R33E LEA CO. NM



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CENTRAL CORBIN QUEEN UNIT # 106

SECTION 9 LEA CO. NM

UNIT "A"

T18S-R33E

1.

		· · · · · · · · · · · · · · · · · · ·		
District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-144		
Districe II Energy	gy Minerals and Natural Resources	June 1, 2004		
1301 W. Grand Avenue, Artesia, NM 88210 District III	Oil Conservation Division F	For drilling and production facilities, submit to appropriate NMOCD District Office.		
1000 KIO Brazos Koad, Aztec, NM 87410	1220 South St. Francis Dr.	appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office		
1220 S. St. Francis Dr., Santa Fe, NM 87505				
Pit or Below-	-Grade Tank Registration or Cl	osure		
Is pit or below-grad	de tank covered by a "general plan"? Yes	X No		
Type of action: Registration of	f a pit or below-grade tank 🔲 Closure of a pit or below	ow-grade tank		
Deerstor: LATIGO PETROLEUM, INC. Telen	hone: 432-684-42931 address:			
Apperator:LATIGO PETROLEUM, INC.Telep415 WEST WALLSTREET SUITE 1900 M	IDLAND, TEXAS 79701			
acility or well name: CCQU # 106 API #: 5	20.025.36870 U/L or Otr/Otr Sec	TR		
County: LEA Latitude 32°46'07.2"Longitud	e103°39'47.7" NAD: 1927 [1983 [Surf	face Owner Federal 🖒 State 🗌 Private 🗌 Indian 🗌		
<u>'t</u>	Below-grade tank			
ype: Drilling 🖄 Production 🗌 Disposal 🗌	Volume:bbl Type of fluid:			
Workover 🗋 Emergency 🗌	Construction material:			
ined 🖾 Unlined 🔲	Double-walled, with leak detection? Yes] If not, explain why not.		
iner type: Synthetic Thickness <u>12</u> mil Clay		·		
tit Volume 1500 bbl	— .			
Pepth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)		
/ater elevation of ground water.) 951	50 feet or more, but less than 100 feet	(10 points) 10		
	100 feet or more	(0 points)		
Vellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)		
rater source, or less than 1000 feet from all other water sources.)	No	(0 points) O		
	Less than 200 feet			
Jistance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(20 points) (10 points)		
rigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	10 points) 10 (0 points)		
		20		
	Ranking Score (Total Points)			
If this is a pit closure: (1) attach a diagram of the facility showing the		Indicate disposal location: (check the onsite box if		
your are burying in place) onsite 🗌 offsite 🔲 If offsite, name of fac	cility (3) Attach a ge	neral description of remedial action taken including		
remediation start date and end date. (4) Groundwater encountered: N	Io [] Yes [] If yes, show depth below ground surfac	t. and attach sample results. (5)		
Attach soil sample results and a diagram of sample locations and exca	ivations.			
Additional Comments:				
I hereby certify that the information above is true and complete to the been/will be constructed or closed according to NMOCD guidelin Date: _09/14/04	est of my knowledge and belief. I further certify t est, a general permit or an (attached) alternational strengthered alternation of the strengthered alternat	that the above-described pit or helow-grade tank has ative OCD-approved plan .		
Printed Name/Title Joe T. Janica Agent	Signature	Janea		
Your certification and NMOCD approval of this application/closure d	loes not relieve the presentor of liability should the con	tents of the pit or tank contaminate ground water or		
otherwise endanger public health or the environment. Nor does it reli regulations.	eve the operator of its responsibility for compliance w	with any other federal, state, or local laws and/or		
Approval:	ORIGINAL SIGNED BY			
Printed Name/Title	PALLE KAUTZ	Date:		
	PETROLEUM ENGINEER	Date:		