	NAC		10 NO. 140	07	
	*	OX PROPERTY		2	
orm 3160-3	HÒBB:		10.1	L CATE	FORM APPROVED
uly 1992)	UNI	TEI	8 1,2 100	; on	OMB NO. 1004-0136 Expires: February 28, 1995
		T C EFF. DATE	$\frac{0}{10}$	0/11	5. LEASE DESIGNATION AND SEBIAL NO.
		ELA APINO. 31		<u>Vb4</u>	NM-86147
	ICATION FOR F	PERMIT			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
. TYPE OF WORK	RILL 🔛	DEEPEN			7. UNIT AGREEMENT NAME
	GAS OTHER				8. FARM OR LEASE NAME, WELL NO
NAME OF OPERATOR					EMERALD FEDERAL # 2
MARALO INC.					9. API WELL NO
	2 MIDLAND, TEXAS	79702 PHON	E. 915-684-744	1	10. FIELD AND POOL OF WILDCAT
At	Report location clearly an				E Lingston Ridge Del
	FSL & 1650' FWL	SEC. 10 T22:	S-R32E Lea Co	. NM	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zo	one Same	Unit	K	1	Sec. 10 T22S-R32E
DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FICE®		12. COUNTY OR PARISH 13. STATE
33 MI East of DISTANCE FROM PROF	Carlsbad, New	Mexico	NO. OF ACRES IN LEAS		Lea NM
LOCATION TO NEARES PROPERTY OR LEASE	ST LINE, FT. 3	30'	340		F ACRES ASSIGNED HIS WELL
DISTANCE FROM PRO			PROPOSED DEPTH	20. ROTAR	40 TOB CABLE TOOLS
TO SEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED, HIS LEASE, FT.	600'	9000	Rot	arv
ELEVATIONS (Show wh	hether DF, RT, GR, etc.)	Carl	ibed Controlled W		22. APPROL DATE WORK WILL START*
		3801 GR.			As soon as approved
		PROPOSED CASING /	AND CEMENTING PRO	GRAM SOCT	etary's Potash
SIZE OF ROLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT		050 8-	QUANTITY OF CEMENT
125"	<u> K-55 13 3/8"</u> K-55 8 5/8"	<u> </u>	4700'		<u>Circulate to surface</u> x Circulate to surface
7 7/8"	J-55 5 ¹ / ₅ "	17	9000'		x Bring Cem. back to 460
with 950	Sx Class "C" ce	ment + 2% CaCl	l circulate to	surface.	4.5# ST&C Casing. Cement # ST&C casing. Cement
with 1500	Sx. Halliburto				
circulate	to surface.				÷
					LT&C casing. Cement at least 4600'.
to fair a la chair	and foot to				· .
Ganstal R	applements and				· · · · · · · · · · · · · · · · · · ·
Special Si Attached	tipulations				$\frac{1}{2}$ $\frac{1}{2}$
		enconception and the second			5
	E PROPOSED PROGRAM: It nent data on subsurface location				new productive zone. ⁵ If proposal is to drill or any.
NGNED JOY	T Jan	- TITLE_	Agent		DATE 05/29/95
(This space for Feder	ral or State office use)				
·	r				
Application approval does n CONDITIONS OF APPROVAL		ncant holds legal or equitable	title to those rights in the sub	oject lense which wou	ild entitle the applicant to conduct operations thereo
	· /	/	_		6
ISI MIL	eet (]. AII	reno /1	tiva State	Discoto	PATE 8-9-95
		<u></u> TITLE / / /	mrg	Lucia	

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*See	Instructions	On	Reverse	Side

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

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

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

DISTRICT IV PO BOX 2088, SANTA FE, NM 87504-2088 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 Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Bool Name Property Code 39366 Livingston Ridge East-Delaware Property Code Property Name Well Number 15522 EMERALD FEDERAL 2 OCRID No. Operator Name 2 14007 MARALO INC. 3801 Surface Location IL or tot No. Section Township A 10 22 S 32 E 1980 SC_TH 1650 AEST E4 Bottom Hole Location If Different From Surface	API	Number			Pool Co	nde	<u> </u>				
Property Code 13522 06RD No. 13607 06RT No. 14007 06RT No. 14007 06RT No. 14007 06RT No. 1407 06RT No. 1407 06RT No. 1407 07 07 07 07 07 07 07 07 07 07 07 07 0	30-025-33064 39366						Liv	ingston Pider	Pool Name		
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EXHIBIT "A"



ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON MARALO INC. EMERALD FEDERAL # 2 1980' FSL & 1650' FWL SEC. 10 T22S-R32E LEA CO. NM





BLOWOUT . _VENTION EQUIPMENT

Accumulators



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



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

EXHIBIT "E-1" CHOKE MANIFOLD & CLOSING UNIT MARALO INC. EMERALD FEDERAL # 2 1980' FSL & 1650' FWL SEC. 10 T22S-R32E LEA CO. NM

APPLICATION TO DRILL

MARALO INC. EMERALD FEDERAL # 2 1980' FLS & 1650' FWL SEC. 10 T22S-R32E LEA 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: 1980' FSL & 1650' FWL SECTION 10 T22S-R32E LEA CO. New Mexico
- 2. Elevation Above Sea Level: 3801 GR.
- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. <u>Drilling Tools and Associated Equipment:</u> Conventional rotary drilling rig using mud for the circulation medium.
- 5. Proposed Drilling Depth: 9000'
- 6. Estimated Geological Marker Tops:

Castile	2770'
Bell Canyon	4842 '
Cherry Canyon	5790'
Brushy Canyon	6990'
Bone Springs	8775'

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7. Possible Mineral Bearing Formation:

Brushy Canyon 0il

8. Casing Program:

<u>Hole S</u>	ize Intreval	OD Csg	Weight	Thread	Collar	Grade	Cond.	
175	0-1100	13 3/8"	54.5#	8-R	ST&C	K - 55	New	-
124"	1100-4700	8 5/8"	32.0#	8-R	ST&C	K-55	New	
7 7/8	" 4700-9000	5 ¹ ₂ "	17.0#	8 - R	LT&C	J - 55	New	



AUG 1 7 1995

APPLHCATION TO DRILL

MARALO INC. EMERALD FEDERAL # 2 1980' FSL & 1650' FWL SEC. 10 T22S-R32E LEA CO. NM

9. Cementing and setting depth:

20" Conductor	Set @ 40' cement with Redi-mix to surface
13 3/8" Surface Casing	Set @ 1100' cement with 950 Sx Class "C" plus additives circulate to surface.
8 5/8" Intermediate Casing	Set @ 4720' cement with 1500 Sx Hal-light tail in/200 Sx. neat circulate to surface.
5 ½" Production Casing	Set @ 9000' Cement with 350 Sx Halliburton light + 6# salt tail in with 750 Sx 50/50 POZ + 6# salt/sx .5% Halad 22, .3% CFR2. Bring cement back to 4600' 100' into 8 5/8" casing.

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 1500 series 5000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 13 3/8 casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. No pressures greater than 3000 psi anticipated.

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
0-1100	8.6-9	34-36	NC	Spud mud
1100-4700	10.1-10.2	28-29	NC	Brine water
4700-7000	9.0-9.2	28-29	20-30 CC	Cut brine with starch for water loss control.
7000 -9000	9.0-9.5	29-35	10 CC or less	Cut brine with starch for water loss control.

11. Proposed Mud Circulating System:

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirments will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered.



APPLICATION TO DRILL

MARALO INC. EMERALD FEDERAL # 2 1980' FSL & 1650' FWL SEC. 10 T22S-R32E LEA CO. NM

12. Testing, Logging and Coring Programs:

- A. No cores or DST'S are planned.
- B. Open hole logs will be run. CNL/ LDT/GR from TD to casing shoe GR to surface. DLL/GR/MSFL from TD over pay section.
- C. Cased hole logs will be run from TD over pay section for correlation in order to complete well.

13. Potential Hazards:

No abnormal pressures of temperature zones expected (nothing abnormal in offset wells or other wells in the area). Hydrogen sulfide gas is not anticipated however, precautions for detection will be observed. No major lost circulation is expected (none reported in this area). H2S contingency attached "13-A".

- 14. Anticipated Starting Date and Duration of Operation: Road and location construction will begin after BLM approval of APD. Anticipated spud date 7/1/95. Drilling expected to take 20 to 27 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.
- 15.<u>Other Facets of Operations:</u> After running casing, cased hole gamma ray collar correlation logs will be run from total depth over possible pay intervals. The Delaware pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.



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