

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
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 & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit 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

MARALO, INC. P. O. BOX 832 MIDLAND, TX 79702		Operator Name and Address.		1 OGRID Number 014007	
				3 API Number 30 - 015-28511	
4 Property Code 17082		5 Property Name DC "30" STATE			6 Well No. 1

7 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
6	30	23S	27E		1980	NORTH	1980	EAST	EDDY

8 Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
9 Proposed Pool 1 FOREHAND RANCH, DELAWARE 79070					10 Proposed Pool 2 WILDCAT				

11 Work Type Code P	12 Well Type Code 0	13 Cable/Rotary	14 Lease Type Code S	15 Ground Level Elevation 3190'
16 Multiple S	17 Proposed Depth 9500'	18 Formation DELAWARE	19 Contractor N/A	RECOMPLETION Date 09/15/98

20 Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	54.5#	352'	350 SXS CIRC'D	
12-1/4"	9-5/8"	40#	5540'	1350 SXS CIRC'D	
8-3/4"	5-1/2"	17#	12218'	1150 SXS	8300'

21 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET

Oil to within 100'

22 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Dorothea Logan</i>		OIL CONSERVATION DIVISION	
Printed name: DOROTHEA LOGAN		Approved by: ORIGINAL SIGNED BY TIM W. GUM	
Title: REGULATORY ANALYST		Title: DISTRICT II SUPERVISOR	
Date: SEPTEMBER 4, 1998		Approval Date: 9-15-98	Expiration Date: 9-15-99
Phone: (915) 684-7441		Conditions of Approval: Attached ☒ <i>See Attached</i>	

RECOMPLETION PROGNOSIS
MARALO INC.
State "DC" 30 #1
1980' FNL & 1980' FEL, Sec. 30, T-23-S, R-27-E
Forehand Ranch Pool, Eddy County, New Mexico

ELEVATIONS: 3190' GL 3208' KB (18' AGL) 12,217' TD 11,315' PBTD

CASING: 13 3/8" 54.5# @ 352' w/350 sx, circ'd
9 5/8" 40# @ 5540' w/3150 sx in 2 stages (DV @ 1006') circ'd
5 1/2" 17# @ 12,217' w/1150 sx, TOC - 8300'

CURRENT
PERFORATIONS: 12,045 - 12,063', plugged off w/CIBP @ 12,000'
11,412 - 11,426' and
11,677 - 11,688', plugged off w/CIBP @ 11,350'
9,566 - 9803' - open

PROPOSED
OPERATIONS: Recomplete in Brushy Canyon

1. RUPU. TOH w/pkr & tbq.
2. RU wireline. TIH & set 5 1/2" CIBP @ $\pm$ 9500'. Cap w/35' cement.
3. TIH w/csg cutters & cut 5 1/2" csg @ $\pm$ 8200'. TOH & LD csg.
4. TIH w/tbg to PBTD. Fill hole w/450 bbls 10# mud-laden plugging fluid.
5. PU to 8250'. Spot 100' cnt plug across csg cut. — Tag
6. PU to 5600'. Spot 100' cnt plug across 9 5/8" csg shoe. — Tag
7. PU to 4952'. Spot 300 gals 7 1/2% mud-removal acid, triple-inhibited. TOH w/tbg.
8. RU wireline. Run GR/CCL correlation log. Correlate to SWSCO GR/CNL/LDT OH log (run #1) run 8/10/95.
9. TIH w/4" carrier guns, premium charges and shoot 2 SPF @ 4940 - 4951' (22 total holes).
10. TIH w/9 5/8" treating pkr to $\pm$ 4850'. Reverse spot acid. Set pkr.
11. Breakdown perfs by pumping away spot acid.
12. Continue treatment w/1000 gals 7 1/2% "mud-removal" acid carrying 40 ball sealers, pumping down tbg @ $\pm$ 4 BPM.
13. Swab back load and evaluate.
14. If warranted, RU American Fracmaster to frac perfs 4940 - 4951' w/16,000 gals 30# x-link gel carrying 30,000# 16/30 mesh sand down tbg at a rate of $\pm$ 15 BPM with an anticipated pressure of 3000 psi. Pump as follows:
 - a) 4000 gals 30# x-link gel + pad
 - b) 3000 gals 30# x-link gel + 1 ppg 16/30 sand
 - c) 3000 gals 30# x-link gel + 2 ppg 16/30 sand
 - d) 3000 gals 30# x-link gel + 3 ppg 16/30 sand
 - e) 3000 gals 30# x-link gel + 4 ppg 16/30 sand
 - f) flush

Shut well in to allow gel to break.

15. Flow/swab back well and evaluate.
16. TOH w/tbg & pkr. TIH w/pumping equipment and place well on production

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DISTRICT IV
PO BOX 2088, SANTA FE, NM 87504-2088

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OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28511	Pool Code 24670	Pool Name FOREHAND RANCH; DELAWARE
Property Code	Property Name DC "30" STATE	Well Number 1
OGRID No. 014007	Operator Name MARALO, INC.	Elevation 3190

Surface Location

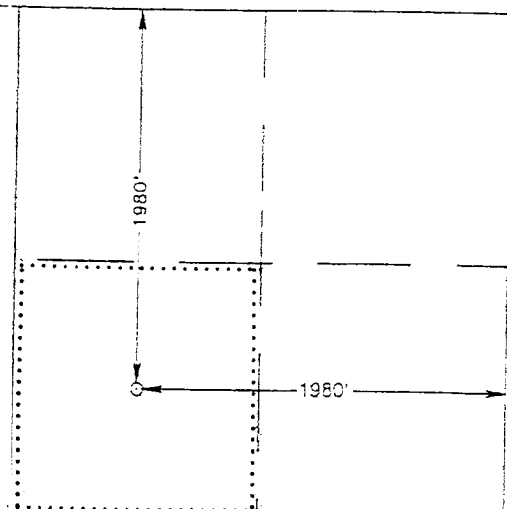
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	30	23 S	27 E		1980	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill N	Consolidation Code	Order No.
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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

LOT 1 38.55 AC.		OPERATOR CERTIFICATION	
LOT 2 38.45 AC.		I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.	
LOT 3 38.35 AC.		Signature <i>Dorothea Logan</i>	
LOT 4 38.25 AC.		Printed Name DOROTHEA LOGAN	
		Title REGULATORY ANALYST	
		Date SEPTEMBER 4, 1998	
		Date	
		SURVEYOR CERTIFICATION	
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.	
		Date Surveyed MAY 1, 1995	
		Signature & Seal of Professional Surveyor <i>Ronald L. Edson</i>	
		Certificate No. JOHN W. WEST 676 RONALD L. EDSON 3239 GARY EIDSON 12641	

CURRENT

#101-D

ELEV.: KB 3208 ', 18 ' ABOVE GL

LEASE & WELL NAME: State DC "30" #1
FIELD: Forehand Ranch COUNTY: Eddy ST: NM
LOCATION: 1980' EN 2 EL Sec 30 - T23S - R27E

DATE: 8/10/98 BY: QAG REV.: BY:

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
13 3/8"	54.5 #		352'
9 5/8"	40 #		5540'

PRODUCTION CASING

5 1/2"	17"		12 217'

TUBING

NO.	JTS.	C.D.	THD.	TYPE	WT.	GDE.	SET A
		27/8'					9435

WELL HISTORY:

8/4/95 port 12045 - 63'

Alum only 7 1/2%

8/8/95 Set CIBP @ 12000

Page 11,677 - 88

Alkano acids 74.61

815-65 2054 11.412-26

At 1500 mags 7 7/16

8/22/95 Sat CIBP 0 11 350

cont 9547-61

7/13/2000 15°

8/29/95 perf 5566 - 9679

A / 5000 4000 15%

9/14/95 reset ok @ 9435'

HOLE SIZE: _____

TOC: 8300'

27 1/2" Hdg : pkr @ 9435'

perf (547-9679)

2.189 @ 1'.350' w/ 35' cont

Perfs 11,412-11,688

C1B2 @ 12,000' w/ 35' cont

Perfs 12.045 - 12.063'

5 1/2 - 12,217

CMT 1150 SX

TD: 12,217' PBD: 11,315'

PROPOSED

#101-D

ELEV.: KB 3208 ', 18 ' ABOVE GL

LEASE & WELL NAME: State DC "30" #1

FIELD: Forehand Ranch COUNTY: Eddy ST.: NM

LOCATION: 1980' FN ° EL, Sec 30 - T23S - R27E

DATE: 8/10/98 BY: RAG REV.: _____ BY: _____

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
13 3/8"	54.5 #		352'
9 5/8"	40 #		5540'

PRODUCTION CASING

5 1/2"	17"		12217'

TUBING

NO.	JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT

WELL HISTORY:

8/4/95 port 12045 - 63'
A/ 1000 gals 7 1/2%
8/8/95 Set CIBP @ 12000'
port 11677 - 88'
A/ 1000 gals 7 1/2%
8/15/95 port 11472 - 26
A/ 1500 gals 7 1/2%
8/22/95 Set CIBP @ 11350'
port 9547 - 61
A/ 1000 gals 15%
8/29/95 port 9566 - 9679
A/ 5000 gals 15%
9/14/95 reset plot @ 9435'

HOLE SIZE: _____"
TOC surf

133/8 • 352
CMT 350 SX

DV tool @ 100%

HOLE SIZE: _____
TOC: surf

perf. 4940 - 4952'

9 5/8 • 5540
CMT 3150 SX

cm+ plug 5502-5602

HOLE SIZE: _____"
TOC: 8300'

- cm+ plug 8150-8250'

step @ 1500' w/ 35' cm.

pages 9547-9679'

0.89 @ 1.350' w/ 35' cont

ref: 11 412-11,628

CIBP @ 12,000' = 135' cmt

Perfs 12,043-12,063

5 1/2 • 12,217.

CMT 1150 SX

WSG cut
@ ± 8200

TD: 12,217' PBD:

