District I 1625 N. French Dr., Hobbs, NM 88240 District II 1361 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

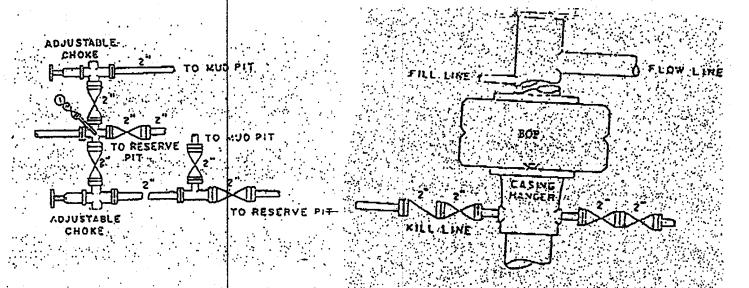
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

Submit to appropriate District Office

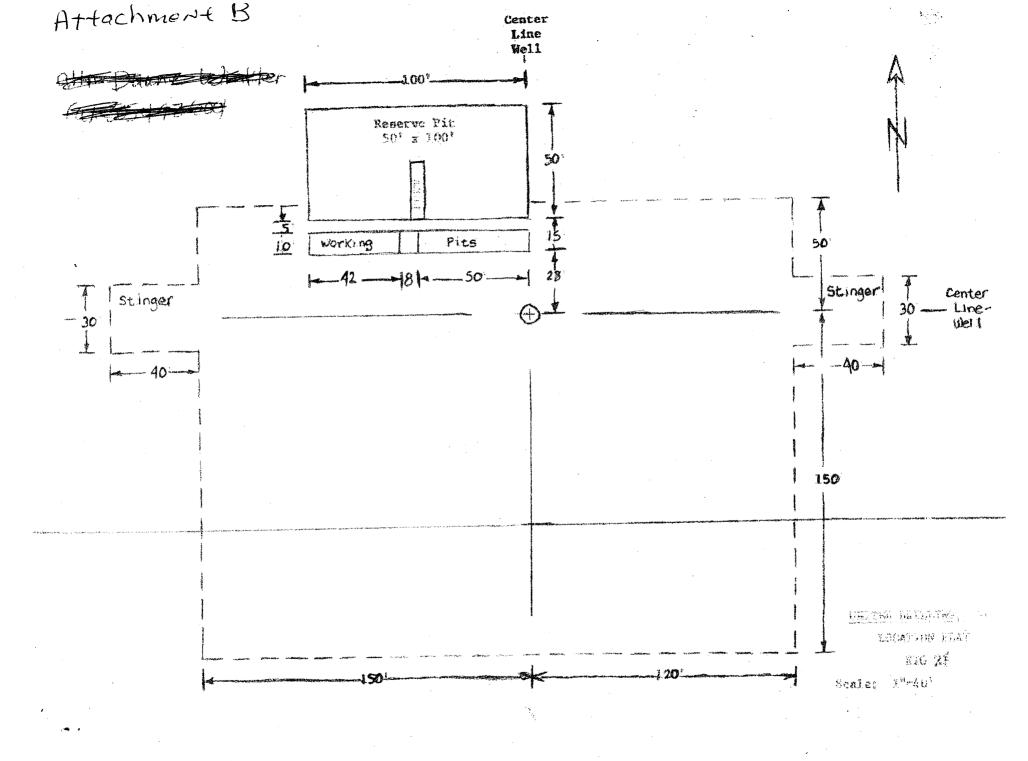
APPL	ICATIO					E-ENTI	ER, DI	EEPEI	N, PLUGBA			D A ZONE
		1	Operator Name	and Address	S			OGRID Number				
		PO Box 5	MAR Oil & 0 155, Santa Fe,	Gas Corp New Mexic	o 87502				151228	3 API Nu	ımher	
		10 2011	,						30-1			395
³ Prope	erty Code				⁵ Proper	ty Name	30-025-37395 v Name **Well No.					
11000	30415				•	ar Unit					220	, 1
	30413	9 Pro	posed Pool 1		IVIGITI	u ome	[10 Pror	osed Pool 2		
Maljamar – Grayburg – San Andres												
					⁷ Surfac	e Loca	tion					
UL or lot no.	Section	Township	Range	Lot Id	n Fee	t from the	li .	outh line	Feet from the	East/Wes		County
D	13	17\$	32E	<u> </u>		1310	<u> </u>	orth	1235	West		Lea
			8 Propo	sed Botto	m Hole Lo	cation If	Differer	nt From	Surface	T		
UL or lot no.	Section	Township	Range	Lot Id	n Fee	t from the	North/S	outh line	Feet from the	East/Wes	t line	County
				Ado	ditional V	Vell Inf	ormati	on		1		
11 Work	Type Code		12 Well Type Co			able/Rotary	Office		⁴ Lease Type Code	$\overline{\mathcal{A}}$	15 Grou	nd Level Elevation
	N		Ö			R			S	·	netten.	4127
	Multiple		17 Proposed Dep	th		Formation	1		19 Contractor	60th-	1232	Spud Date
Depth to Gro	NA	40'	5100	Dictorce	from nearest	y San Ar		0'	United /			nber 30 2005 nter 10 miles
				<u> </u>					/07	in nearest sa	Q	ici roginies
<u>Pit:</u> Liner	r: Synthetic	Plastic 20 mi	ls thick Clay	☐ Pit V	olume: 4500	bbls		rillin <u>g Me</u>	100	15	3 6 2	a (i)
Clos	Closed-Loop System								r X Brine XX	MA	<u> </u>	<u> </u>
			. 21	Propos	ed Casing	g and C	ement	Progra	m \Z	Par grand di grand disk granded granded di	ξ,	
Hole S	Size	Casin	g Size	Casing	Casing weight/foot S		Setting D	epth	Sacks of C	ement		Estimated TOC
12	1/4	8 5/8		20—24 #			1300)'	619)		Surface
7.7/	8"	5 1	/ ₂ ",	15—15.5 #			5100'		770		500' in Surf Csø	
22 Dit		1 164	Li li i	is to DEED	EN as DULC	DACK a	un the de	to on the r				
		i program. If the evention progr					ve the da	ta on the p	bresent productive	zone and pro	oposeu i	new productive zone.
	•					-						
		Andress to pro n 8 5/8" surfac				1/4" hole to	1300' or	25' into t	op of the Salt, no b	olow out pre	venter w	vill be used while
						face, ceme	nt produc	tion casin	g 500' into bottom	of surface of	casing,	
Attachments												
Attachment: Attachment												
Attachment I	D – Mud Pro	ogram										
Attachment I		n Plat Unit Boundary	973. a	a Evni	res 1 Ye	ar Fron	n App	roval				
Attachillent	r – Iviap oi t	onii Boundary	P P P	M Exhi	res i Te les Dri	ling Ur	iderwa	ay		*		
			8		1000 -							
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be					e	OIL CONSERVATION DIVISION						
constructed according to NMOCD guidelines X, a general permit , or an					II.							
(attached) alternative OCD-approved plan .					·	1000						
Printed name: Duane C. Winkler				Title:	Title: PENPOLEUM ENGINEER							
Title: V.P. C	Operations				······································	Appr	oval Date	:		005 Expiration I	Date:	
		ler@centuryte	l.net				дричи вис.					
Date: July 22			Phone: 505-	9 8 9-1977		Cond	Conditions of Approval Attached					
Face. 3dfy 22, 2003				Constitution of Approvide Authorities								

Attachment A



ANNULAR BOP STACK

PRESSURE 2000#





Mar Oil & Gas Corp P. O. Box 5155 Santa Fe, New Mexico 87502

Mal Mar Unit #220 1321 FNL, 1235 FWL Lea County, New Mexico United States of America S:13 T:17S R:32E

Cementing Recommendation

Prepared for: Duane C. Winkler

June 14, 2005 Version: 1

Submitted by: Paul Thornton

Halliburton Energy Services 5801 Lovington Hwy. Hobbs, New Mexico 88240 1.505.392.0742

HALLIBURTON

Job Information Surface Casing Mal Mar Unit #220 0 - 1300 ft (MD) 12-1/4" Hole Inner Diameter 12.250 in Job Excess 100 % **Surface Casing** 0 - 1300 ft (MD) Outer Diameter 8.625 in Inner Diameter 8.097 in Linear Weight 24 lbm/ft

STC

J-55

Calculations

Thread

Casing Grade

$= 818.02 \text{ ft}^3$
$= 818.02 \text{ ft}^3$
= 145.70 bbl
=419 sks
$= 255.06 \text{ ft}^3$
$= 255.06 \text{ft}^3$
= 45.43 bbl
- 45.45 001
$= 14.30 \text{ ft}^3$
= 2.55 bbl
$= 269.37 \text{ft}^3$
= 47.98 bbl
= 200 sks

Job Recommendation

Surface Casing

Install floating equipment, run casing to bottom, and circulate minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Fluid 1: Precede cement with 20 bbls

Fresh Water Fluid Volume: 20 bbl

Fluid 2: Lead with 420 sks

Halliburton Light Premium Plus Cement Fluid Weight 12.50 lbm/gal 0.25 lbm/sk Flocele (Lost Circulation Additive) Slurry Yield: 1.95 ft³/sk

0.25 lbm/sk Flocele (Lost Circulation Additive) Slurry Yield: 1.95 ft³/sk Total Mixing Fluid: 10.80 Gal/sk

Top of Fluid: 0 ft
Calculated Fill: 991 ft

Volume: 145.76 bbl Calculated Sacks: 419.47 sks

Proposed Sacks: 420 sks

Estimated Slurry Properties: Thickening Time: 5:0:0

CompressiveStrengths @ 80 °F 24:0:0 510 psi

24:0:0 510 psi 72:0:0 760 psi

Free Water: 0.3 %
Actual Fluid Loss: 500 cc

Fluid 3: Tail-in with 200 sks

Premium Plus Cement Fluid Weight 14.80 lbm/gal 94 lbm/sk Premium Plus Cement (Cement) Slurry Yield: 1.35 ft³/sk

2 % Calcium Chloride (Accelerator) Total Mixing Fluid: 6.37 Gal/sk
Top of Fluid: 991 ft

Top of Fluid: 991 ft Calculated Fill: 309 ft

Volume: 47.91 bbl Calculated Sacks: 200 sks Proposed Sacks: 200 sks

Estimated Slurry Properties: Thickening Time: 2:45:0
CompressiveStrengths @ 80 °F 24:0:0 1800 p

24:0:0 1800 psi 72:0:0 3000 psi

Free Water: 0.0 %

Casing/Sales Equipment

Surface Casing

Mtrl Nbr	Description	Qty	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
2	FLOAT EQUIPMENT DELIVERY CHARGE	80	MI		7
	NUMBER OF UNITS	1			
86954	FUEL SURCHG-CARS/PICKUPS	80	MI		
	NUMBER OF UNITS	1			•
101314446	SHOE,CSG,TIGER TOOTH,8 5/8 IN 8RD	1	EA		T
101235370	CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA		
100004484	CENTRALIZER ASSY - API - 8-5/8 CSG X	10	EA	45.53	70
100004628	CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA	915	
100005045	HALLIBURTON WELD-A KIT	1	EA	310	
	Total			USD	9
	Less 52% Discount			USD	
	Discounted Total			USD	1

Job Information Production Casing

Mal Mar Unit #220

Surface Casing 0 - 1300 ft (MD)

Outer Diameter 8.625 in
Inner Diameter 8.097 in
Linear Weight 24 lbm/ft
Thread STC
Casing Grade J-55
Job Excess 10 %

7-7/8" Hole 1300 - 5000 ft (MD)

Inner Diameter 7.875 in Job Excess 50 %

Production Casing 0 - 5000 ft (MD)

Outer Diameter 5.500 in
Inner Diameter 4.950 in
Linear Weight 15.50 lbm/ft
Thread LTC

Thread LTC Casing Grade J-55

DV / ECP Tool 3200 ft (MD)

Production Casing

Calculations

Stage 1

Cement: (1800.00 ft fill)

 $1800.00 \text{ ft} * 0.1733 \text{ ft}^3/\text{ft} * 50 \%$ = 467.79 ft^3 First Stage Tail Cement = 467.79 ft^3 = 83.32 bbl

Shoe Joint Volume: (40.00 ft fill)

 $40.00 \text{ ft} * 0.1336 \text{ ft}^3/\text{ft}$ = 5.35 ft³ = 0.95 bbl Tail plus shoe joint = 473.13 ft³ = 84.27 bbl

Total Tail = 343 sks

Stage 2

Cement: (2300.00 ft fill)

 $1300.00 \text{ ft} * 0.1926 \text{ ft}^3/\text{ft} * 10 \%$ = 275.41 ft³ $1000.00 \text{ ft} * 0.1733 \text{ ft}^3/\text{ft} * 50 \%$ = 259.88 ft³ Total Second Stage Lead Cement = 535.29 ft³ = 95.34 bbl Sacks of Cement = 257 sks

Cement: (900.00 ft fill)

900.00 ft * 0.1733 ft³/ft * 50 % = 233.89 ft³ Second Stage Tail Cement = 233.89 ft³ = 41.66 bbl

Shoe Joint Volume: (0.00 ft fill)

 $0.00 \text{ ft} * 0.1336 \text{ ft}^3/\text{ft}$ = 0.00 ft³ = 0.00 bbl Tail plus shoe joint = 233.89 ft³ = 41.66 bbl

Total Tail = 170 sks

Job Recommendation

Production Casing

Install floating equipment, run casing to bottom, and circulate minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Stage 1

Fluid 1: Precede cement with 20 bbls

Fresh Water Fluid Volume: 20 bbl

Fluid 2: First Stage: Mix and pump 345 sks

- 1010 - 1 1101 010	Ser min and pamp 5 15 ons		
Premium Plus Co	ement	Fluid Weight	14.80 lbm/gal
94 lbm/sk	Premium Plus Cement (Cement)	Slurry Yield:	$1.38 \text{ ft}^3/\text{sk}$
0.6 %	LAP-1 (Low Fluid Loss Control)	Total Mixing Fluid:	6.49 Gal/sk
0.4 %	CFR-3 (Dispersant)	Top of Fluid:	3200 ft
0.25 lbm/sk	D-AIR 3000 (Defoamer)	Calculated Fill:	1800 ft
3 lbm/sk	Salt (Lost Circulation Additive)	Volume:	84.27 bbl
0.3 %	Econolite (Light Weight Additive)	Calculated Sacks:	343.35 sks
		Proposed Sacks:	345 sks

DV / ECP Tool @ 3200 ft (MD)

Stage 2

Fluid 1: Precede cement with 20 bbls

Fresh Water Fluid Volume: 20 bbl

Fluid 2: Second Stage: Lead with 260 sks Halliburton Light Premium Plus Cement

Halliburton Light Premium Plus Cement Fluid Weight 12.50 lbm/gal

0.25 lbm/sk Flocele (Lost Circulation Additive) Slurry Yield: 2.08 ft³/sk

6 lbm/sk Salt (Salt) Total Mixing Fluid: 11.55 Gal/sk

Top of Fluid: 11.55 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 2300 ft

Volume: 95.34 bbl

Calculated Sacks: 257.10 sks

Proposed Sacks:

260 sks

Fluid 3: Second Stage: Tail-in with 170 sks

Premium Plus Cement Fluid Weight 14.80 lbm/gal 94 lbm/sk Premium Plus Cement (Cement) Slurry Yield: 1.38 ft³/sk

0.6 % LAP-1 (Low Fluid Loss Control) **Total Mixing Fluid:** 6.47 Gal/sk 0.4 % CFR-3 (Dispersant) Top of Fluid: 2300 ft 0.25 lbm/sk D-AIR 3000 (Defoamer) Calculated Fill: 900 ft 3 lbm/sk Salt (Salt) Volume: 41.66 bbl 0.3 % Econolite (Light Weight Additive)

3 % Econolite (Light Weight Additive) Calculated Sacks: 169.98 sks
Proposed Sacks: 170 sks

Cost Estimate (Continued)

Production Casing

Mtrl Nbr	<u>Description</u>	Qty	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
76400	MILEAGE, CMT MTLS DEL/RET NUMBER OF TONS	40 38.16	MI	ملک	
3965	SVC CHRG, CMT & ADDITIVES NUMBER OF EACH	864 1	CF		
	Total			USD	
	Less 56% Discount			USD	
	Discounted Total			USD	

Note: If flow occurs, ECP and all other float equipment will be supplied by competition. If no flow is present, HES will supply DV Tool and all other float equipment.

Casing/Sales Equipment

Production Casing

Mtrl Nbr	<u>Description</u>	<u>Qty</u>	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
2	FLOAT EQUIPMENT DELIVERY CHARGE	80	MI		
	NUMBER OF UNITS	1			
86954	FUEL SURCHARGE- F. E. DELIVERY	80	MI		
	NUMBER OF UNITS	1			
101242320	SHOE,FLT,TROPHY SEAL,5-1/2 8RD	1	EA	d213.51	and the same of the same
101235368	CLR,FLT,TROPHY SEAL,5-1/2 8RD	1	EA		
100013917	CMTR,TY P ES,5-1/2 LG 8RD,17-23 LBS	1	EA		120
100004672	PLUG SET - FREE FALL - 5-1/2 8RD &	1	EA		
100004476	CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED	15	EA	CALLED	
100004624	CLAMP - LIMIT - 5-1/2 - HINGED -	1	EA	4	
100005045	KIT,HALL WELD-A	1	EA		ينالز
	Total			USD	
	Less 52% Discount			USD	ط الله
	Discounted Total			USD	



Jerry Bults
Post Office Box 263 Arteste, New Mexico 88211
505-365-6093 (cell) 505-748-7396 (fax
Email: buildogmud@yehoo.com

June 14, 2005

MAR Oil & Gas Corporation

Post Office Box 5155
Santa Fe, New Mexico 87502
Attn: Mr. Duane Winkler
& Mr. John Gould

RE: Maljamar Area Wells Lea County, New Mexico

Suggested Mud Program

Surface Interval

 $0 - 1300^{\circ}$

Drill with Fresh Water adding Fresh Water Gel and Soda Ash at 10:1 for a viscosity of 34+

Production Interval

1300 - 5000° TD

Circulate reserve pit, add Brine and PHPA as needed to keep fluid clean if water flow is encountered, continue drilling with fluid as is and sweep hole with Super Sweep and for PHPA.

If no water flow, drill with fluid as above; may desire 20 cc water loss with Starch to protect pay zone At TD, sweep of 40 vis mud with Selt Gel and Starch at 8:1 ratio

Estimated cost, no abnormal problems or pressures: not to exceed a person

Thank you for your consideration of this Mud Program. If you have any questions, suggestions or concerns, please do not hesitate to contact me immediately, Bulldog Mud sincerely appreciates all of your past work and looks forward to continuing to service your drilling fluid needs.

Respectfully,

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

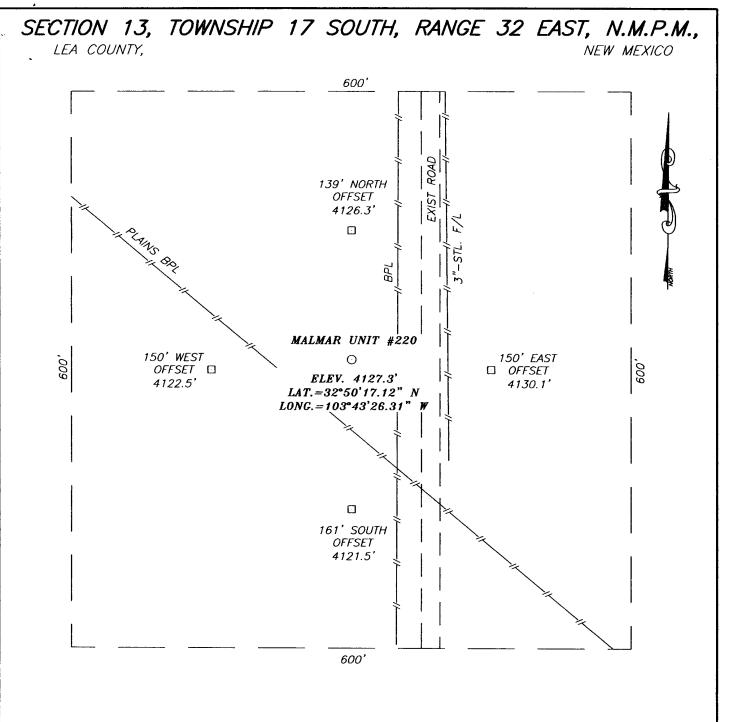
Energy, Minerals and Natural Resources Department

DISTRICT II

OIL CONSERVATION DIVISION

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office

DISTRICT III 1000 Rio Brazos Rd., Aztec, N					FRANCIS DR. exico 87505			e – 4 Copie e – 3 Copie
DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FR.	NM 87505			AND ACREA	AGE DEDICATI	ON PLAT	□ AMEND	ED REPOR
30-025-37	385	. م	Pool Code 332	9 M	aliama.	Pool Name	SA	
Property Code				Property Nam MALMAR UN	ne J		Well Num	
OGRID No.			MAD OF	Operator Nam	ne		Elevation	ממ
151228	<u> </u>		MAR UI	L & GAS CO Surface Loc	ORPORATION		412	7' ———
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D 13	17-S	32-E		1310	NORTH	1235	WEST	LEA
		Bottom	Hole Lo	cation If Diffe	erent From Sur	face	<u> </u>	L
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint of	r Infill Co	nsolidation	Code Or	der No.	1.		1	<u> </u>
NO ALLOWABLE V	VILL BE AS	SSIGNED NON-STAN	TO THIS	COMPLETION OF	JNTIL ALL INTER	RESTS HAVE BI	EEN CONSOLID	ATED
1235'		Y=669	77 NME 148.0 N 161.2 E 0'17.12" :	 		I hereby certify on this plat wactual surveys supervison, ar correct to the	OR CERTIFICAT That the well locate as plotted from field made by me or and that the same is the best of my belief that the same is the	STON ion shown thotes of under my true and
						Certification	25_11.0903 & 1	12841
						J. Tribun	OFESSIONA TOTAL	

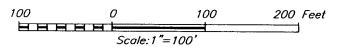


DIRECTIONS TO LOCATION

FROM OF CO. RD. L-125 (MESCALERO RD.) AND CO. RD. L-122 (TOMAHAWK RD.), GO NW ON CO. RD. L-125 FOR APPROX. 1.9 MILES, TURN RIGHT (NORTH) AND GO APPROX. 0.6 MILES. THIS LOCATION IS APPROX. 70' WEST OF ROAD.



PROVIDING SURVEYING SERVICES SINCE 1948 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 82240 (505) 383-3117

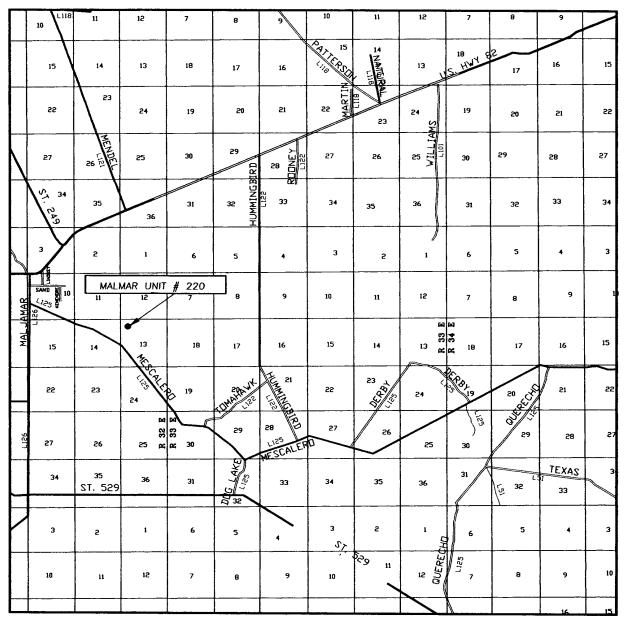


MAR OIL & GAS CORPORATION

MALMAR UNIT #220 WELL
LOCATED 1310 FEET FROM THE NORTH LINE
AND 1235 FEET FROM THE WEST LINE OF SECTION 13,
TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 0	6/10/05		Sheet	1	of	1	Sheets
W.O. Number: 05	.11.0903	Dr I	By: J.R.		R	ev 1.	06/29/05
Date: 06/16/05	Disk: CD#	4 5	0517	090	3	Scal	le:1"=100°

VICINITY MAP



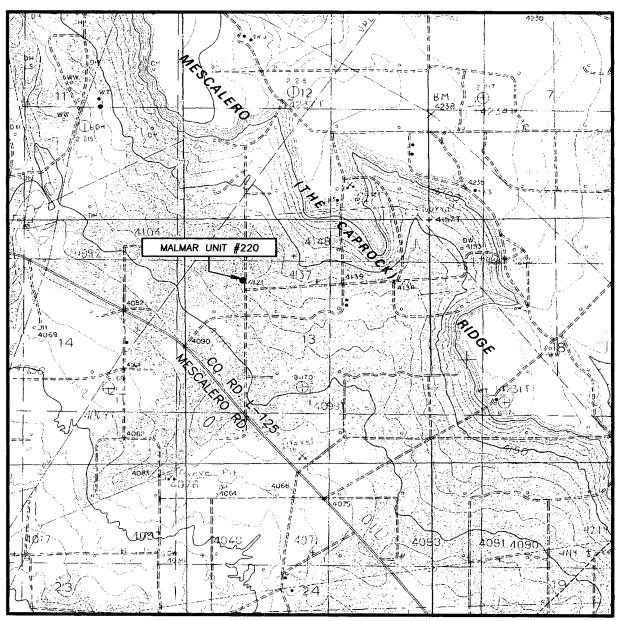
SCALE: 1" = 2 MILES

SEC. <u>13</u> TW	P. <u>17-S</u> RGE. <u>32-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION_1	310' FNL & 1235' FWL
ELEVATION	4127'
OPERATOR	MAR OIL & GAS CORPORATION
LEASE	MALMAR UNIT





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: DOG LAKE, N.M. - 10'

SEC. 13 IW	P. <u>17-S</u> RGE. <u>32-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION_	1310' FNL & 1235' FWL
ELEVATION	4127'
OPERATOR	MAR OIL & GAS CORPORATION
LEASE	MALMAR UNIT
U.S.G.S. TOPO DOG LAKE, N.	OGRAPHIC MAP .M.

