District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

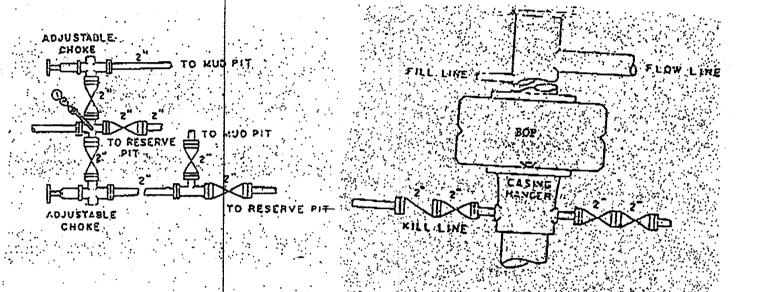
Submit to appropriate District Office

☐ AMENDED REPORT

APPI				TO D		LENTI			N, PLUGBA	CK. OR	ADI) A ZONE
			Operator Name	and Addre	ess				1,1,1,2,0,0,2,1,1	² OGRID N		7
	MAR Oil & Gas Corp PO Box 5155, Santa Fe, New Mexico 87502								151228	151228 API Number		
			,	,					30-0	25-3		292
³ Prope	3 Property Code Propert					ty Name				1	° Well	No.
30415 Malmar					r Unit					127	. •	
⁹ Proposed Pool 1 Maljamar – Grayburg – San Andres									10 Prop	osed Pool 2		
·					⁷ Surfac	e Locat	ion					
UL or lot no.	Section 13	Township 17S	Range 32E	Lot	Idn Feet	from the	North/S	outh line	Feet from the	East/West	line	County
	1.5	173		sed Rott	om Hole Loc		——		·	West	L	Lea
UL or lot no.	Section	Township	Range	Lot		from the		outh line	Feet from the	East/West	line	County
		Temistap		Lot	100	nom aic	1401415		2456	0	inic	County
					lditional W		ormati	on	/23.	970,		
	Type Code N		12 Well Type Co	de	13 Ca	ble/Rotary			Lease Type Code		• 1	d Level Elevation
¹⁶ M	fultiple		17 Proposed Dep	oth	¹⁸ F	ormation		/ 6	S Contractor	29		4230 Spud Date
	NA		5100	,	Graybur			3.29		7 1		st 31, 2005
Depth to Grou	ındwater	140'		Distanc	e from nearest f	resh water	well 528	$0, / \dot{z}$	Distance	n nearest surf	e wat	er 10 miles
Pit: Liner	: Synthetic	Plastic 20 n	nils thick Clay	☐ Pit V	Volume: 4500 b	bls	D	rilling Me	thesi:	95	7	
Close	d-Loop Sys	tem 🔲						esh Wate		7076	_	
			21	Propos	sed Casing	and Ce	ment	Progra	m			
Hole S	ize	Casi	ng Size	Casin	g weight/foot		Setting D	epth	Sacks of Ce	ment	Е	stimated TOC
12.1		8 5/8		20	<u> 24 # </u>		1300	,	619	619		Surface
7 7/8	ξ"	5	1/2"	15-	<u> 15.5 #</u>		5100	,	770			' in Surf Csg
						+						
		<u> </u>										
22 Describe tl	he proposed	l program. If	this application	is to DEE	PEN or PLUG	BACK, giv	e the dat	a on the p	present productive z	one and prop	osed ne	ew productive zone.
Describe the	blowout pr	evention prog	gram, if any. Us	e additiona	al sheets if nece	ssary.						•
Infill drill Gra	yburg-San	Andress to p	roposed depth of	f 5100', Su	rface: drill 12 3	4" hole to	1300' or	25' into t	op of the Salt, no bl	ow out preve	enter wi	ll be used while
			ce casing and co			ace comen	t product	ion oncin	g 500' into bottom o	- C		
Attachments:	A—BOP S	chematic	TD, Rull Logs,	Kuli 51/2	casing to surr	ice, cemen	i produci	ion casin	g 500 into bottom (or surrace cas	sing,	
Attachment: Attachment (•										
Attachment D	– Mud Pro	ogram										
Attachment E Attachment F			v		s 1 Year I	From A	oprov	/al				
		Jim Boundu	Permit	Expire	s 1 rear	Unde	rway					
			Dat	e Ulle	92 D.Is	,						
²³ I hereby cer	tify that the	e information	given above is t	rue and co	mplete to the	1		OII C	ONGEDIA		. II O Y C	
best of my kno	owledge an	d belief. I fu	rther certify tha	t the drill	ing pit will be			OIL C	CONSERVAT	ION DI	VISIC	ON :
(attached) alt			guidelines X, a g ed plan 🔲.	general pe	rmit ∐, or an	Appro	ved by:			> - DEF D	AL FI	RA PRIORIES
Drintad man-	Duare C	Windst	7	,					7 Jak	1717	UEEU	M ENGINEER
Printed name:		winkler	CACC	<u>U</u>		Title:		JUL	. 2 6 200 5			
Title: V.P. Op						Appro	val Date:		E:	xpiration Dat	te:	
E-mail Addres		ler@centuryt	T			-						
Date: July 22,	2005		Phone: 505-9	89-1977		Condit	ions of A	pproval A	ttached			

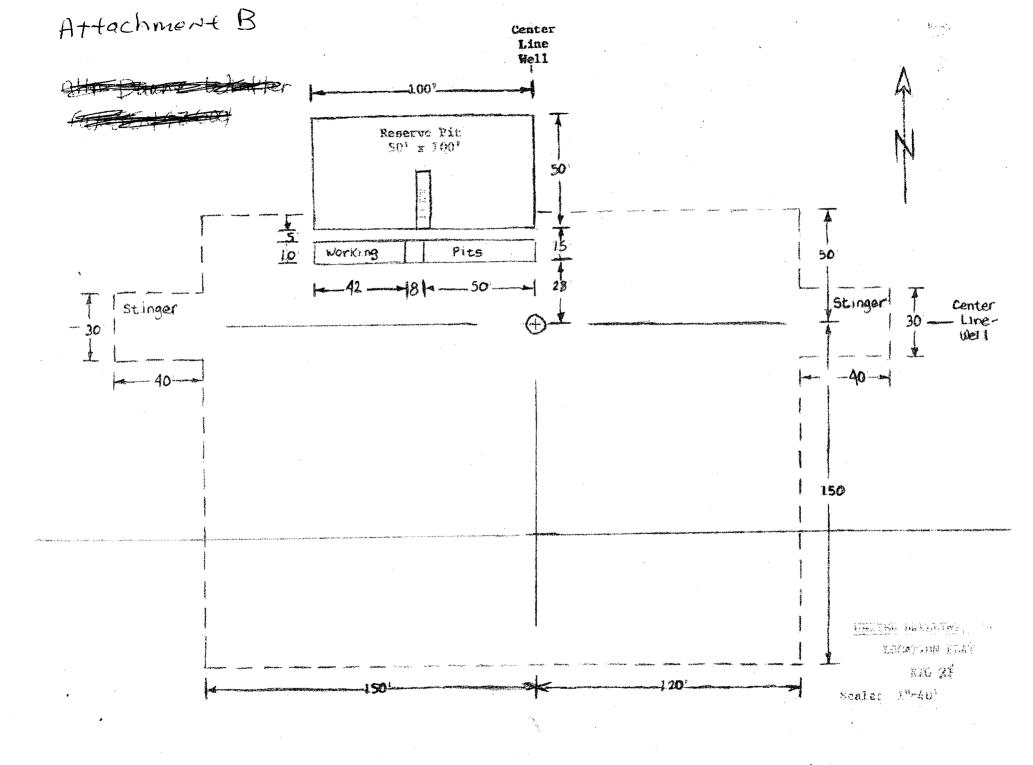
Conditions of Approval Attached

Attachment A



ANNULAR BOP STACK

PRESSURE 2000#





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

Mal Mar Unit #127 1321 FNL, 1321 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

HALLIBURTON

Job Information

Surface Casing

M	lal Mar	Unit	#127

12-1/4" Hole 0 - 13	000 ft (MD)
---------------------	-------------

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
Thread STC
Casing Grade J-55

Calculations

Cement: (991.00 ft fill)

991.00 ft * 0.4127 ft³/ft * 100 % = 818.02 ft^3 Total Lead Cement = 818.02 ft^3 = 145.70 bbl

= 145.70 bbl= 410 skg

Sacks of Cement = 419 sks

Cement: (309.00 ft fill)

309.00 ft * 0.4127 ft³/ft * 100 % = 255.06 ft³ Tail Cement = 255.06 ft³ = 45.43 bbl

Shoe Joint Volume: (40.00 ft fill)

Tail plus shoe joint

 $40.00 \text{ ft} * 0.3576 \text{ ft}^3/\text{ft} = 14.30 \text{ ft}^3$

= 2.55 bbl $= 269.37 \text{ ft}^3$

= 47.98 bblTotal Tail = 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

Fresh Water	Fluid Volume:	20 bbl

Flu	hiı	2.	Lead	with	420	sks

Halliburton Light Premium Plus Cement	Fluid Weight	12.50 lbm/gal
	01 77 11	10003/1

0.25 lbm/sk	Flocele (Lost Circulation Additive)	Slurry Yield:	1.95 ft ³ /sk
		Total Miving Fluide	10 90 Gal/alc

Total Mixing Fluid:	10.80 Gal/sk
Top of Fluid:	0 ft

Proposed Sacks: 420 sks

Estimated Slurry Properties: Thickening Time: 5:0:0 CompressiveStrengths @ 80 °F

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 C	ement	Fluid Weight	14.80 lbm/gal
Q4 lbm/sk	Premium Plus Cement (Cement)	Slurmy Violds	1.35 ft ³ /ck

94 lbm/sk	Premium Plus Cement (Cement)	Slurry Yield:	1.35 ft ⁻ /sk
2 %	Calcium Chloride (Accelerator)	Total Mixing Fluid:	6.37 Gal/sk
		OD CT1 11	001.0

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 psi 72:0:0 3000 psi

Free Water: 0.0 %

HALLIBURTON

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	4	يا الله
	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		
101235370	CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA	حطالية	
100004484	CENTRALIZER ASSY - API - 8-5/8 CSG X	10	EA		
100004628	CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA	42	44.32
100005045	HALLIBURTON WELD-A KIT	1	EA		43
	Total			USD	SAME ES
	Less 52% Discount			USD	
	Discounted Total			USD	

7

HALLIBURTON

Job Information

Production Casing

Mal Mar Unit	#127
--------------	------

Curfosa Casina	0 - 1300 ft (MD)
Surface Casing	0 - 1300 II (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 Diameter7.875 inJob Excess50 %

Production Casing 0 - 5000 ft (MD)

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

Thread LTC Casing Grade J-55

DV / ECP Tool 3200 ft (MD)

Production Casing

Calculations

Stage	1
Stage	1

Cement: (1800.00 ft fill)

1800.00 ft * 0.1733 ft³/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 ft * 0.1926 ft³/ft * 10 %= 275.41 ft³1000.00 ft * 0.1733 ft³/ft * 50 %= 259.88 ft³Total Second Stage Lead Cement= 535.29 ft³Sacks 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)

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

Total Tail = 170 sks

Production Casing

Job Recommendation

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

Fluid Instructions

C4	1
Stage	1

Fluid 1: Precede cement with 20 bbls

Fresh Water Fluid Volume: 20 bbl

Fluid 2: First Stage: Mix and pump 345 sks

Premium Plus Cement 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

5 lbm/sk Salt (Salt) Total Mixing 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

94 lbm/sk

0.6 %

Premium Plus Cement (Cement)

LAP-1 (Low Fluid Loss Control)

Fluid Weight

Slurry Yield:

1.38 ft³/sk

Total Mixing Fluid:

6.47 Gal/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) Calculated Sacks: 169.98 sks
Proposed Sacks: 170 sks

Cost Estimate (Continued)

Production Casing

Mtrl Nbr	Description	Qty	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
76400	MILEAGE, CMT MTLS DEL/RET NUMBER OF TONS	38.16	MI		
3965	SVC CHRG, CMT & ADDITIVES NUMBER OF EACH	864	CF		5
	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	Description	<u>Oty</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		
101235368	CLR,FLT,TROPHY SEAL,5-1/2 8RD	1	EA		2
100013917	CMTR,TY P ES,5-1/2 LG 8RD,17-23 LBS	1	EA	6.71	
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		4
100004624	CLAMP - LIMIT - 5-1/2 - HINGED -	1	EA	Sill	
100005045	KIT,HALL WELD-A	1	EA	2 5 5	
	Total			USD	diam'r.
	Less 52% Discount			USD	
	Discounted Total			USD	



Bulldog Mud

Jerry Bults
Post Office Box 263 Artesta, 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: Maljamer Area Wells Lea County, New Mexico

Suggested Mud Program

Surface interval 0 - 1300

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/or 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 the period

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

DISTRICT IV

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised JUNE 10, 2003

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87505

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 1220 S. ST. FRANCIS I	DR., SANTA PE,	NM 87505	WELL LO	CATION	AND ACRE	AGE DEDICATI	ON PLAT	□ AMEND	ED REPOR
	Number	7190		Pool Code Pool Name					
30-00	<u>رو ح ع</u>	(373	393 43329 Maliamer GB-SA						
Property (Code						Well Nun	aber	
304	115				MALMAR U	NIT		127	r
OGRID N					Operator Na			Elevation	on
15122	151228		MAR OIL & GAS CORPORATION 4099'				9'		
	Surface Location								
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	13	17-S	32-E	Ì	1310	SOUTH	1310	WEST	LEA
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	s Joint o	or Infill Co	onsolidation	Code Or	der No.				
NO ALLO	WABLE V					UNTIL ALL INTER	RESTS HAVE BI	EEN CONSOLIDA	ATED

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
GEODETIC COORDINATES NAD 27 NME	Signature Duone C Winkler Printed Name VP Operations Title
Y=666488.8 N X=687252.9 E LAT.=32'49'50.81" N LONG.=103'43'25.41" W	Title 7/22/05 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 supervison, and that the same is true and correct to the best of my betief.
1310'	JUNE 10, 2005 Date Surveyed REVING 29/05 JR Signature at Seal Of the Processional Surveyor Of the Procession o
. 113 -1301	Certaria: No. GARY. EIRSON 12641

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO 600' 161' NORTH **OFFSET** 4102.9 139' WEST 161' EAST MALMAR UNIT #127 OFFSET 🖸 □ OFFSET 0 4098.9 4100.7' ELEV. 4098.6' LAT.=32°49'50.81" N LONG.=103°43'25.41" W 139' SOUTH **OFFSET** 4095.3 600'

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. 300'. THIS LOCATION IS ON THE EAST SIDE OF ROAD.



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(506) 383-3117

100 0 100 200 Feet

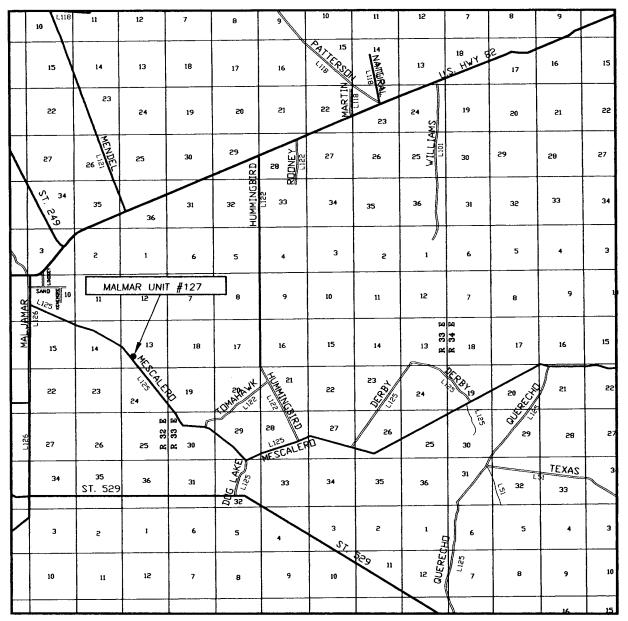
| Scale: 1"=100'

MAR OIL & GAS CORPORATION

MALMAR UNIT #127 WELL
LOCATED 1310 FEET FROM THE SOUTH LINE
AND 1310 FEET FROM THE WEST LINE OF SECTION 13,
TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 06/10/05	Sheet 1 c	of	1 Sheets
W.O. Number: 05.11.0905 Dr	By: J.R.	Rev	1:06/29/05
Date: 06/16/05 Disk: CD#5	05110905	S	cale:1 "=100"

VICINITY MAP



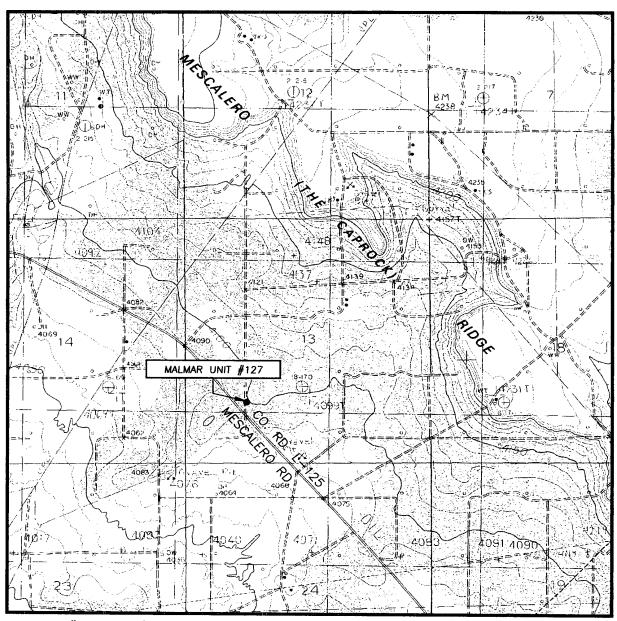
SCALE: 1" = 2 MILES

SEC. 13 IV	VP. <u>17-S</u> RGE. <u>32-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION	1310' FSL & 1310' FWL
ELEVATION	4099'
OPERATOR	MAR OIL & GAS CORPORATION
LEASE	MALMAR UNIT





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 13 TWP	⁹ . <u>17-S</u> RGE. <u>32-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION 13	310' FSL & 1310' FWL
ELEVATION	4099'
OPERATOR	MAR OIL & GAS CORPORATION
LEASE	MALMAR UNIT
U.S.G.S. TOPOG DOG LAKE, N.M	

