District I

State of New Mexico **Energy Minerals and Natural Resources**

Form C-101 May 27, 2004

1625 N. French Dr., Hobbs, NM 88240 District II* 136 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

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

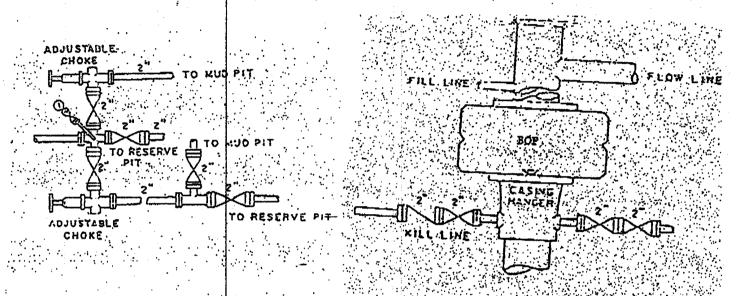
Submit to appropriate District Office

☐ AMENDED REPORT

APPL	ICATI	ON FO				ENTER, I	DEEPE	N, I	PLUGBA	CK, Ol	R AD	D A ZONE
		•	Operator Name		SS					² OGRID	Number	
		PO Bo	MAR Oil & ox 5155, Santa Fe	Gas Corp New Mexic	co 87502			3 API Number				
				35			3°CD					
³ Prope	rty Code			·	⁵ Property	Name		1		1		I No.
	30415				Malmar	Unit					12	2
			Proposed Pool 1						10 Prop	osed Pool 2	2	
		Maljamar	– Grayburg – Sar	Andres	7 Surface	Location						
UL or lot no.	Section	Township	Range	Lot Io			h/South line	Τ,	Feet from the	East/We	at lina	Country
C C	18	17S	33E	1 200	13		North	'	2310	We:		County Lea
			⁸ Propo	sed Botto	om Hole Loca	tion If Differ	ent From	Sur	face			
UL or lot no.	Section	Township	Range	Lot I			h/South line		Feet from the	East/We	st line	County
					ditional We	all Informa	tion	1				
11 Work	Type Code		12 Well Type Co			e/Rotary		14 Leas	se Type Code		15 Grou	nd Level Elevation
	N		0]	R			S			4187
	lultiple NA		17 Proposed Dep	th		mation			Contractor			O Spud Date
Depth to Grou		140'	5100	Distance	from nearest fre	San Andres sh water well 5	280'	<u> </u>	nited Distance from	m nearest si		1st 15, 2005 ater 10 miles
Pit: Liner	Synthetic	Plastic 20	mils thick Clay	Pit V	olume: 4500 bbl	ls	Drilling M	ethod:				
	d-Loop Sys		mio unon Ciu,		0101110. 1200 BO	Fresh Water X Brine X						
	- 100p 3)0		21	Propos	ed Casing a	ınd Cemer			Brine 74			
Hole S	ize	Ca	sing Size	-	weight/foot	Setting			Sacks of C	ement		Estimated TOC
12 1		8 5/8	g 5120	20-24 #		 	1300'		619			Surface
7.7/8			5 1/2"	15—15.5 #		1	5100'		770		500' in Surf Csg	
		<u> </u>						_	·			
22 Describe ti	he proposed	nrogram	If this application	is to DEEE	PEN or PLUG B	ACK give the	lata on the	prese	at productiver	and no	anacad r	any mandenative and
Describe the	blowout pr	evention pro	gram, if any. Us	e additional	sheets if necess	ary.	iata on the	preser	1 productive 2	456 > 6	oposea r	new productive zone.
Infill drill Gra	ıvhiiro-San	Andress to	proposed depth o	£5100' Sur	face: drill 12 1/2"	' hole to 1300'	or 25' into	ton de	Sta Salt no h	love out me	<i>\$</i> }	.:11 1
d=:11:	l l. D	- 0 5 (02)						/ (1	a	-	1	
NU BOP, dril Attachments:	1 7 7/8" hol	le to propose chematic	ace casing and co	Run 51/2"	casing to surfac	e, cement prod	uction casin	ng/500)' into botton	of surface	casing <u>.</u>	<u>, </u>
Attachment:	B - Rig La	yout						18 2 7 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*(A)	. જેલું. >. જેલું.	31415	
Attachment (Attachment D							war et Sa	ò		20 Km	1 5%	,
Attachment E	- Location	Plat			_ 4 V@@5	From AP	erren Status				~ 12°	
Attachment F	– Map of U	Jnit Bounda	iry	FXDII'	os polling	³ Augain	e		The Contract of the Contract o		i.	
			D	ata Uni	es 1 Year's Ses Drilling							
23												
			n given above is arther certify the				OIL (CON	ISERVA	ΓΙΟΝ D	<u>IVIS</u> I	ON
constructed a	eccording t	o NMOCD	guidelines X, a			Approved by	:		<u> </u>			
(attached) al	ternative C	OD-appro	ved plan ∐.					9			CINICI	8
Printed name:	Duane C.	Winkler	<u>d</u>	w		Title:			PETROLZ 2005	UM EN	GIVE	.n
Title: V.P. O	perations					Approval Da	toJUL 2	, b	ΣUUJ E	xpiration [Date:	
E-mail Addre	ss: dcwink	ler@century	tel.net									
Date: June 23, 2005 Phone: 505-989-1977					Conditions of Approval Attached							

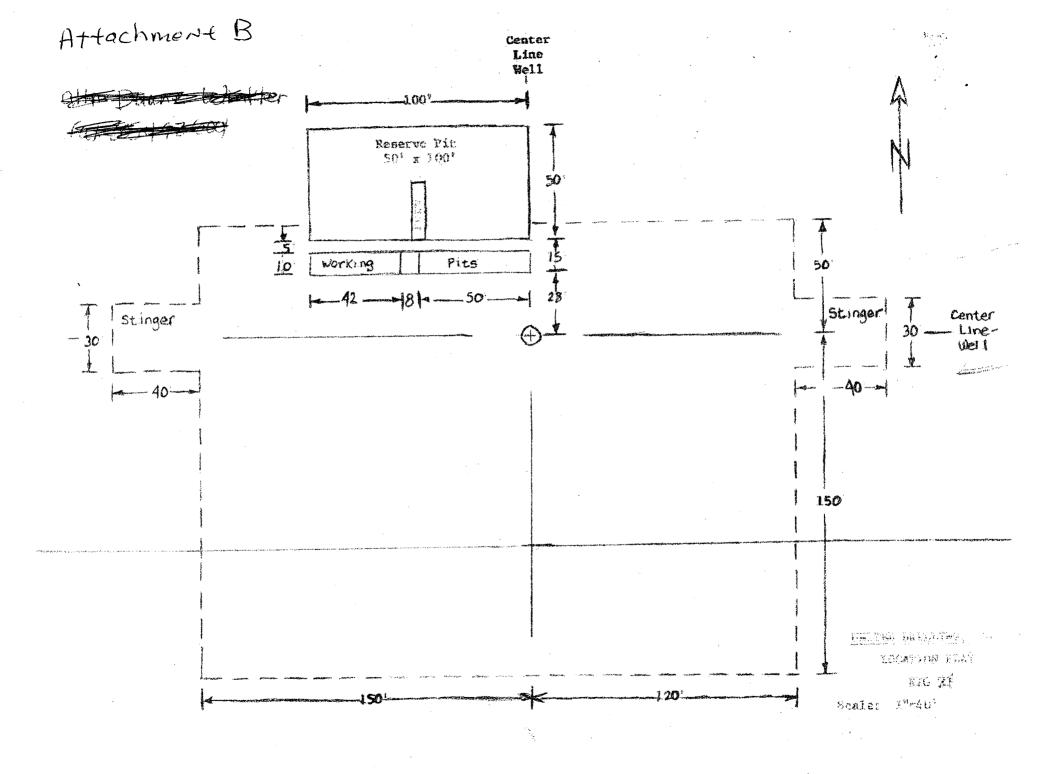
Attachment A

只是多数是EDF的,不是不够的重要的是更更多的。



ANNULAR BOP STACK

PRESSURE 2000#







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

Mal Mar Unit #122 1321 FNL, 1325 FWL Lea County, New Mexico United States of America S:18 T:17S R:33E

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 #122

12-1/4" Hole 0 - 1300 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 = 419 sks

Sacks of Cement = 419 sl

Cement: (309.00 ft fill)

 $309.00 \text{ ft} * 0.4127 \text{ ft}^3/\text{ft} * 100 \%$ = 255.06 ft³ Tail Cement = 255.06 ft³ = 45.43 bbl

Shoe Joint Volume: (40.00 ft fill)

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

= 2.55 bbl

Tail plus shoe joint = 269.37 ft^3

= 47.98 bbl

Total Tail = 200 sks

Surface 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

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

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: 419.47 sks
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

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
Calculated Fill: 309 ft

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

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

72:0:0 3000 psi Free Water: 0.0 %

Casing/Sales Equipment

Surface Casing

Mtrl Nbr	Description	<u>Oty</u>	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
2	FLOAT EQUIPMENT DELIVERY CHARGE	80	MI	4.20	45
	NUMBER OF UNITS	1			_
86954	FUEL SURCHG-CARS/PICKUPS	80	MI		736
	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	01,13	
100004484	CENTRALIZER ASSY - API - 8-5/8 CSG X	10	EA		The same
100004628	CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA	445	4
100005045	HALLIBURTON WELD-A KIT	1	EA	4	
	Total			USD	
	Less 52% Discount			USD	
	Discounted Total			USD	ALLE S

Job Information

Production Casing

Mal Mar Unit #122

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 Casing Grade J-55

DV / ECP Tool 3200 ft (MD)

Production Casing

Calculations

Stage 1 Cement: (1800.00 ft fill)	
1800.00 ft * 0.1733 ft ³ /ft * 50 %	$= 467.79 \text{ ft}^3$
First Stage Tail Cement	$= 467.79 \text{ ft}^3$
That Stage Tan Cement	= 83.32 bbl
	- 63.32 001
Shoe Joint Volume: (40.00 ft fill)	
$40.00 \text{ ft} * 0.1336 \text{ ft}^3/\text{ft}$	$= 5.35 \text{ ft}^3$
	= 0.95 bbl
Tail plus shoe joint	$= 473.13 \text{ ft}^3$
1 3	= 84.27 bbl
Total Tail	= 343 sks
Stage 2	
Cement: (2300.00 ft fill)	
1300.00 ft * 0.1926 ft ³ /ft * 10 %	$= 275.41 \text{ ft}^3$
$1000.00 \text{ ft} * 0.1733 \text{ ft}^3/\text{ft} * 50 \%$	
Total Second Stage Lead Cemer	
Total social stage social come	= 95.34 bbl
Sacks of Cement	= 257 sks
sacis of comein	25 / SR5
Cement: (900.00 ft fill)	
900.00 ft * 0.1733 ft ³ /ft * 50 %	$= 233.89 \text{ ft}^3$
Second Stage Tail Cement	$= 233.89 \text{ ft}^3$

Shoe Joint Volume: (0.00 ft fill) 0.00 ft * 0.1336 ft³/ft $= 0.00 \, \text{ft}^3$ = 0.00 bblTail plus shoe joint $= 233.89 \text{ ft}^3$ = 41.66 bbl**Total Tail** = 170 sks

= 41.66 bbl

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

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

Ibm/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 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: 6.47 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) Calculated Fill: 900 ft
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	<u>Description</u>	<u>Qty</u>	<u>U/M</u>	<u>Unit Price</u>	Gross Amt
76400	MILEAGE, CMT MTLS DEL/RET NUMBER OF TONS	40 38.16	MI	75.	-
3965	SVC CHRG, CMT & ADDITIVES NUMBER OF EACH	864 1	CF	4	*
	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		2112
	NUMBER OF UNITS	1		-	
86954	FUEL SURCHARGE- F. E. DELIVERY	80	MI	4	71
	NUMBER OF UNITS	1			
101242320	SHOE,FLT,TROPHY SEAL,5-1/2 8RD	1	EA		416
101235368	CLR,FLT,TROPHY SEAL,5-1/2 8RD	1	EA	7115	
100013917	CMTR,TY P ES,5-1/2 LG 8RD,17-23 LBS	1	EA	43	
100004672	PLUG SET - FREE FALL - 5-1/2 8RD &	1	EA		4
100004476	CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED	15	EA	1113	45
100004624	CLAMP - LIMIT - 5-1/2 - HINGED -	1	EA	415	1 15
100005045	KIT,HALL WELD-A	1	EA	-11	
	Total				41.5
	Less 52% Discount			7	5
	Discounted Total				



Post Office Box 263 Artesia, New Mexico 88211 505-365-6093 (cell) 505-748-7396 (fex Email: buildogmud@yshoo.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: Maliamar Area Wells Les 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

and looks forward to continuing to sarvice your drilling fluid needs.

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

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

Respectfully.

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., BOBBS, NM 86240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT IV

Santa Fe, New Mexico 87505

AMENDED REPORT

1220 S. ST. FRANCIS DR., SANTA FE, N	M 87505		C KIRDINDED REPORT		
API Number	Pool Code				
30-025-37	390 43324	maliamar Gl	3/SA		
Property Code		Property Name	Well Number		
30415	MA	MALMAR UNIT			
OGRID No.		Operator Name	Elevation		
151228	MAR OIL 8	k GAS CORPORATION	4187		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	18	17-S	33-E		1310	NORTH	1330	WEST	LEA

Bottom Hole Location If Different From Surface

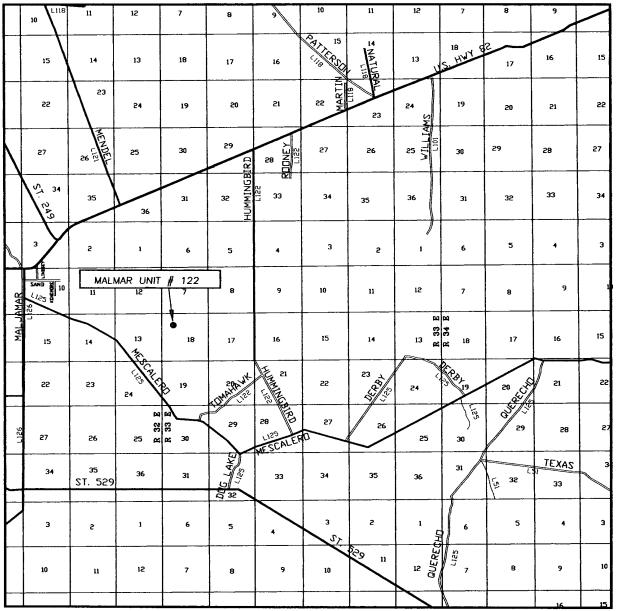
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	onsolidation (Code Ore	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	OR A NON-STANDARD UNIT HAS BEEN	N APPROVED BY THE DIVISION
LOT 1 41.72 AC		OPERATOR CERTIFICATION
1310,	-103	I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		Signature
1330'		Duane C Winkler Printed Name UP Operations Title 7/22/05
LOT 2 41.82 AC		Date SURVEYOR CERTIFICATION
LOT 3	GEODETIC COORDINATES NAD 27 NME	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
	Y=669177.4 N X=692539.4 E LAT.=32*50'17.10" N	correct to the best of my belief. JUNE 9, 2005
41.90 AC LOT 4	LONG.=103'42'23.27" W	Date Surveyed Rikin 06/29/015 JR Signature & Geat to Olin, Professional General Control
		Bar 65.11 0898 8
42.00 AC		Certificate No. GARY BIDSON 12841

<u></u>	JNTY, 	600'	/VI	EW MEXICO
		139' NORTH OFFSET 4185.8' □		
		MALMAR UNIT #122		
,009	155' WEST OFFSET □ 4173.8'	ELEV. 4187.1' LAT.=32°50'17.10" N LONG.=103°42'23.27" W	145' EAST □ OFFSET 4210.8'	,009
		□ 161' SOUTH OFFSET 4180.0'		
		600'		
DIRECTIONS TO	LOCATION			
CO. RD. L-122 RD. L-125 FOR CALICHE ROAD AND GO APPRO AND GO APPRO	RD. L-125 (MESCALERO I T (TOMAHAWK RD), GO NW R APPROX. 1.6 MILES TO ON THE RIGHT. TURN RIG DX. 1.3 MILES. TURN LEFT DX. 0.4 MILES. TURN RIGH	V ÓN CO. A 100 HT (NE) ELELE (NW) (T_(NE)	Scale:1"=100'	200 Feet
AND GO APPRO	IX. 0.1 MILES TO A TRAIL N LEFT (NW) AND GO APF CATION IS APPROX. 400'	PROX. 0.3	OIL & GAS CORF	
	PROVIDING SURVEYING SERVICE	AND 1330	ED 1310 FEET FROM THE NOI FEET FROM THE WEST LINE O IP 17 SOUTH, RANGE 33 EAST LEA COUNTY NEW MEYOD	F SECTION 18, T, N.M.P.M.,
MILES. THIS LO		AND 1330 TOWNSH	FEET FROM THE WEST LINE OF	F SECTION 18, T, N.M.P.M.,

VICINITY MAP



SCALE: 1" = 2 MILES

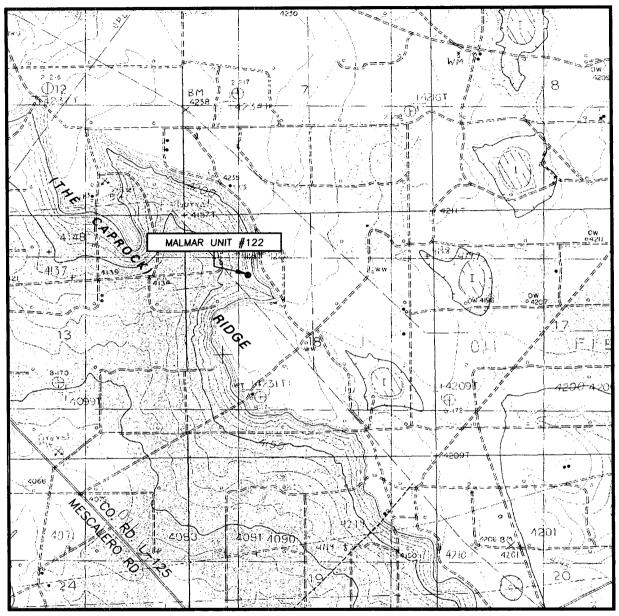
SEC. <u>18</u> TV	NP. <u>17-S</u> RGE. <u>33-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION	1310' FNL & 1330' FWL
ELEVATION	4187
OPERATOR	MAR OIL & GAS CORPORATION
LEASE	MALMAR UNIT



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(508) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 18 IWP.	<u> 17-5 RGE. 33-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION 13	10' FNL & 1330' FWL
	4187
	MAR OIL & GAS
LEASE M	
U.S.G.S. TOPOGE DOG LAKE, N.M.	

