

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

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Samson Resources 200 N. Loraine, Suite 1010 Midland, Texas 79701		OGRID Number 20165
Property Code 34961 35862		API Number 30 - 005 - 27950
Property Name MESCALERO SPRINGS STATE Com		Well No. 002
Proposed Pool 1 WILDCAT MISSISSIPPIAN		Proposed Pool 2

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
O	23	11S	31E	O	660	SOUTH	1980	EAST	CHAVES

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
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Additional Well Information

Work Type Code NEW WELL	Well Type Code GAS	Cable/Rotary ROTARY	Lease Type Code STATE	Ground Level Elevation 4451'
Multiple N	Proposed Depth 12000'	Formation MISSISSIPPI LIMESTONE	Contractor	Spud Date
Depth to Groundwater 60'		Distance from nearest fresh water well 5280'		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> 12' mils thick Clay <input type="checkbox"/> Pit Volume: 20000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.5	13.375	48	400	400	0
12.25	9.625	36	3700	970	300
8.75	5.5	20	12000	Per Caliner	Cover Hydrocarbon Zones

22 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.

Samson proposes to drill and test the Mississippi Lime/Intermediate formations. Approximately 400' of surface casing will be set/cemented. If commercial, Intermediate/production casing will be run/cemented, will perforate/stimulate as needed for production.

MUD PROGRAM: 0-400' FW/Spud Mud
400' - 1450' Fresh Water
1450' - 3700' Brine
3700' - 7200' Fresh Water/Cut Brine
7200' - TD Fresh Water/Cut Brine/Polymer with 4-6% KCL

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

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 constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Don C. Deck

Title: Right of Way Agent

E-mail Address: deckrowagent@cox.net

Date: 07-21-06

Phone: 432 528 4401

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval Attached ☐

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

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30.005-27950	Pool Code -	Pool Name Wildcat Mississippian
Property Code 35862	Property Name MESCALERO SPRINGS UNIT	Well Number 2
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 4451'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	11-S	31-E		660	SOUTH	1980	EAST	CHAVES

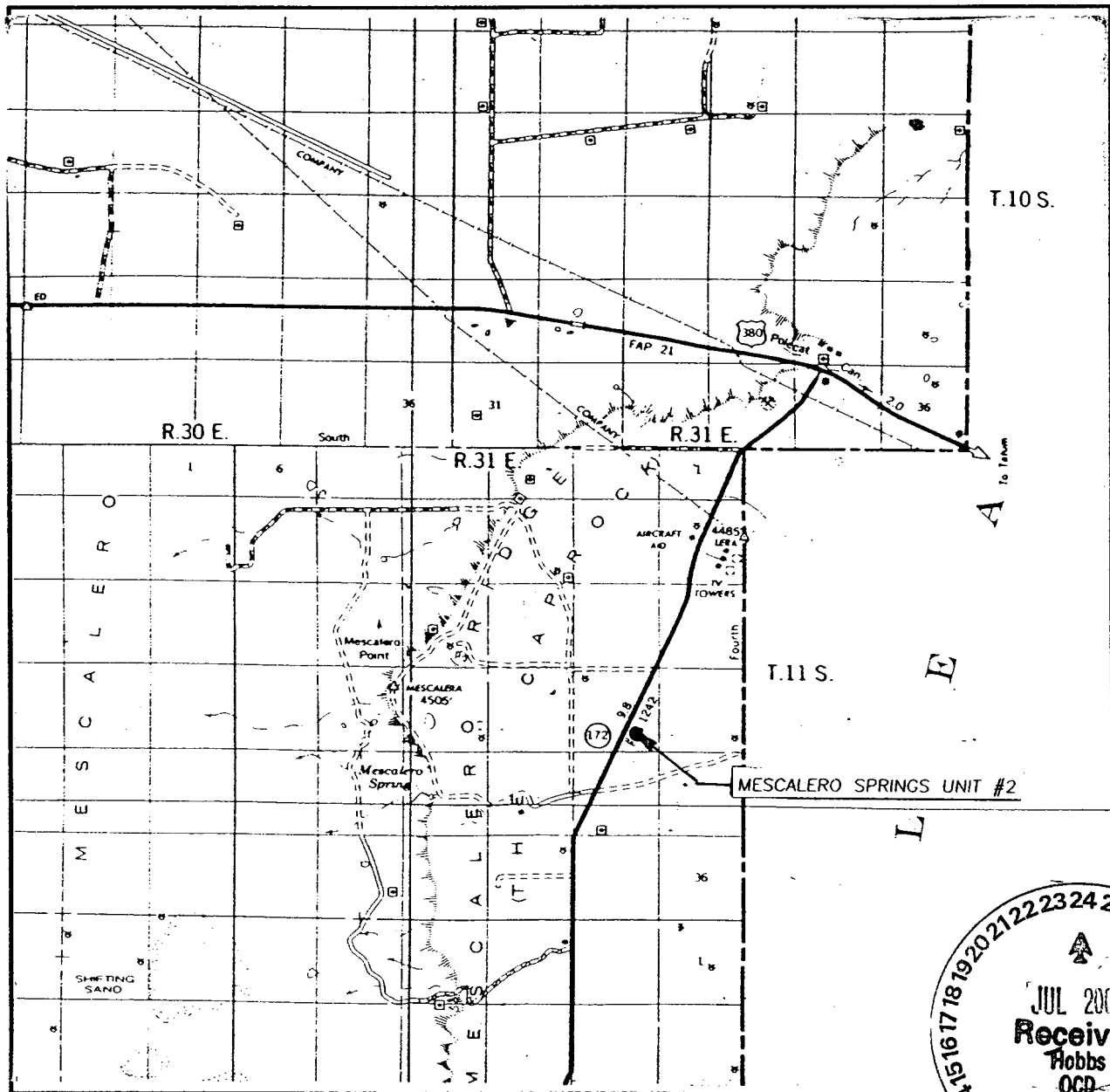
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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

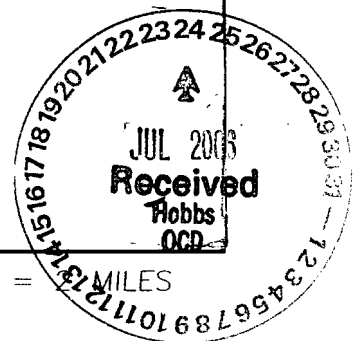
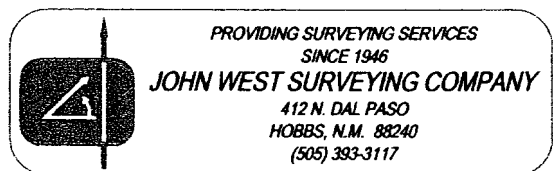
<p>GEODETIC COORDINATES NAD 27 NME Y=853221.6 N X=666048.2 E LAT.=33.344330° N LONG.=103.789606° W LAT.=33°57'86.94" N LONG.=103°47'22.58" W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: Don C. DECK Date: 7-24-06</p> <p>Printed Name: _____</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date Surveyed: _____ MR: _____</p> <p>Signature & Seal of Professional Surveyor: _____</p> <p>Certificate No. GARY EIDSON 12841</p>

VICINITY MAP

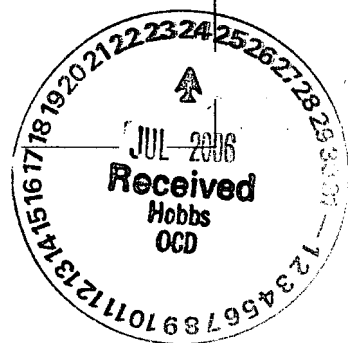
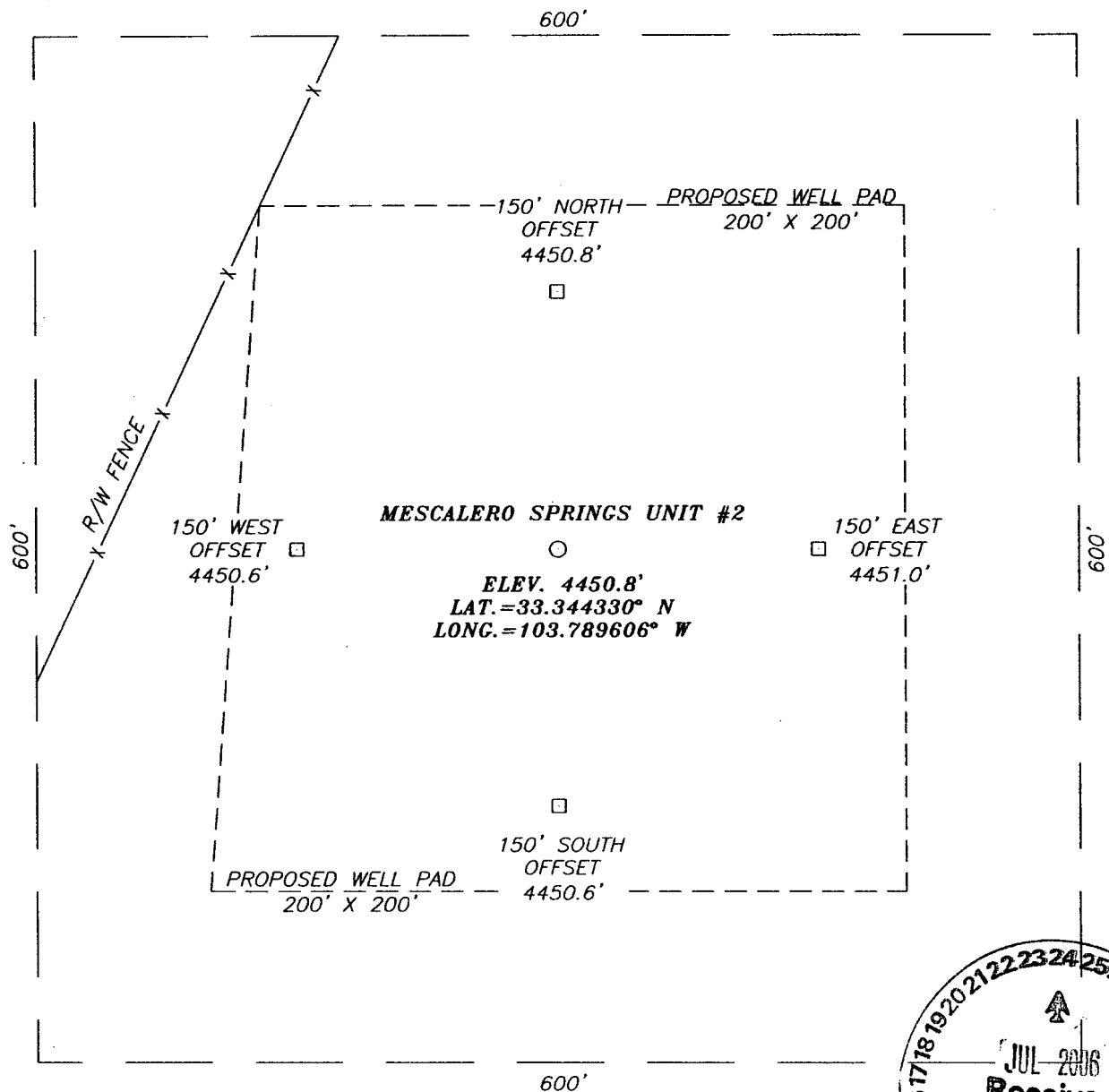


SCALE: 1" = 1 MILE

SEC. 23 TWP. 11-S RGE. 31-E
 SURVEY N.M.P.M.
 COUNTY CHAVES STATE NEW MEXICO
 DESCRIPTION 660' FSL & 1980' FEL
 ELEVATION 4451'
 OPERATOR SAMSON RESOURCES
 LEASE MESCALERO SPRINGS UNIT

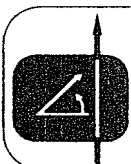
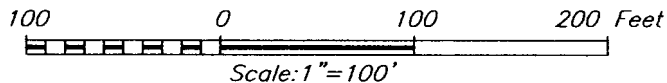


SECTION 23, TOWNSHIP 11 SOUTH, RANGE 31 EAST, N.M.P.M.,
 CHAVES COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #380 AND ST. HWY. #172, GO SOUTH-SOUTHWEST ON ST. HWY. #172 APPROX. 5.2 MILES. THIS LOCATION IS APPROX. 240 FEET EAST.



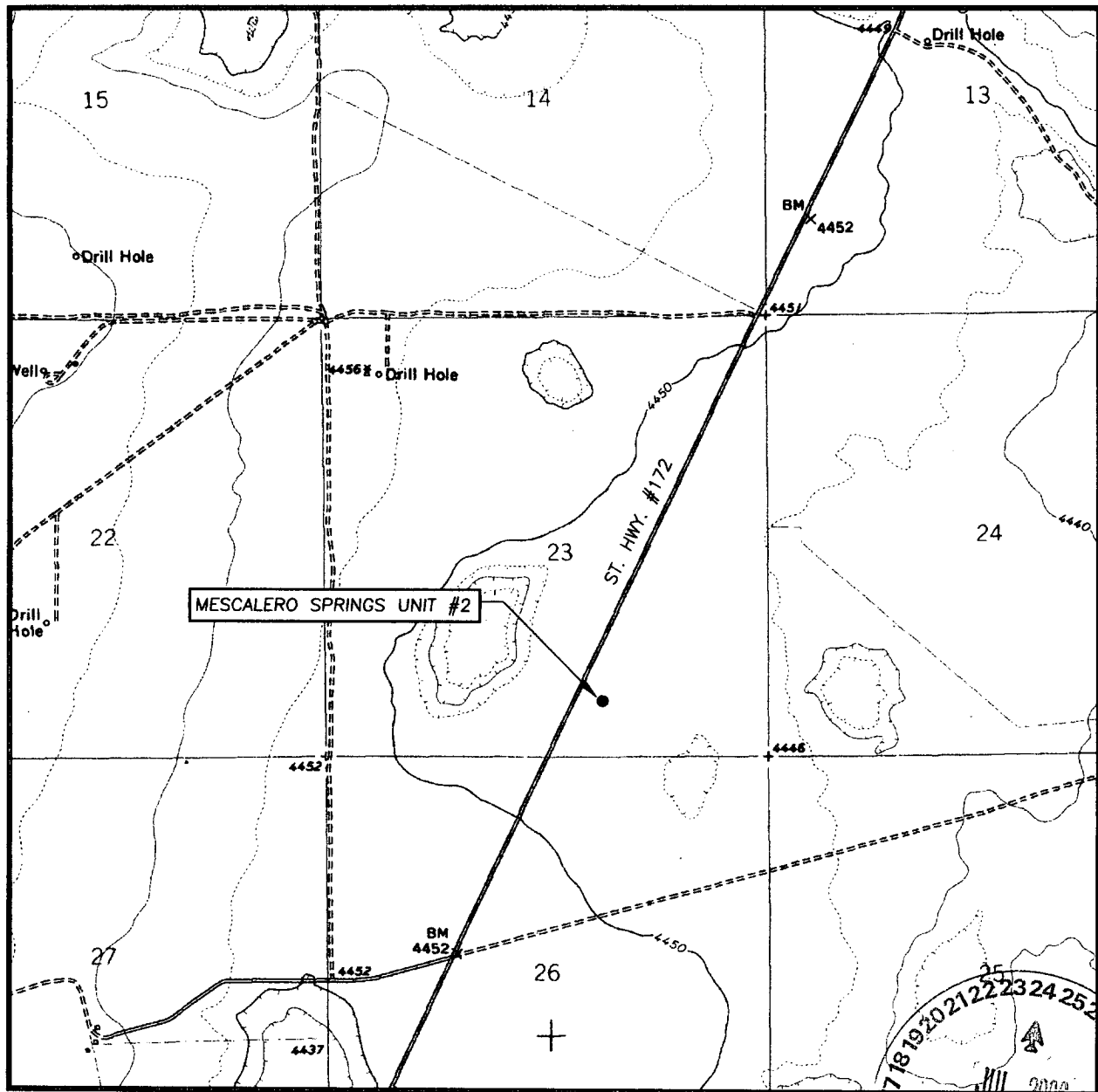
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

SAMSON RESOURCES

MESCALERO SPRINGS UNIT #2
 LOCATED 660 FEET FROM THE SOUTH LINE
 AND 1980 FEET FROM THE EAST LINE OF SECTION 23,
 TOWNSHIP 11 SOUTH, RANGE 31 EAST, N.M.P.M.,
 CHAVES COUNTY, NEW MEXICO.

Survey Date: 06/28/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1099	Dr By: M.R.
Date: 07/06/06	Disk: CD#6
06111099	Scale: 1"=100'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 2000'
MESCALERO POINT, N.M.

SEC. 23 TWP. 11-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

DESCRIPTION 660' FSL & 1980' FEL

ELEVATION 4451'

OPERATOR SAMSON RESOURCES

LEASE MESCALERO SPRINGS UNIT

U.S.G.S. TOPOGRAPHIC MAP

MESCALERO POINT, N.M.

