

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
Minerals and Natural Resources

copy 2
Form C-101
June 16, 2008

RECEIVED

JUN 25 2010

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

Submit to appropriate District Office

☐ AMENDED REPORT

HOBBSOCD

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

Operator Name and Address Marshall & Winston Inc P.O. Box 50880 Midland, TX 79710-0880		OGRID Number 014187
Property Code 38223	Property Name Crossroads State # 22	API Number 30-025 - 39813
Proposed Pool 1 Flying M Abo		Well No. 1 H
Proposed Pool 2		

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	9 South	33 East	N/A	400	North	660	East	Lea

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
P	22	9 South	33 East	N/A	400	South	660	East	Lea

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 4359'
Multiple N	Proposed Depth 8700 Ft	Formation Lower Abo	Contractor McVay Drilling	Spud Date As soon as a rig becomes available

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	48	400	450	To surface
12 1/4	9 5/8	36 & 40	3,050	1100	To surface
8 3/4	7.0	26.0	8,974	665	3,450'
6 1/4	4 1/2	11.0	13,250	700	8,170'

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.

We propose to drill a horizontal well to the Abo/Wolfcamp horizon. Set a 20" conductor at 40 ft., then spud hole with a 17 1/2 inch bit, drill to 400 ft with fresh water, set 13 3/8 inch casing and circulate to surface. NU a 3,000 bope, well head and test to 2,000 psi. Continue drilling with a 12 1/4 inch hole with brine to 4050', set 9 5/8 inch casing, circulate cement to surface, continue drilling with a 8 3/4" hole using cut brine to 8918', and set 7.0 inch casing, circulate TOC to 3450 ft. Evaluate Abo / Wolfcamp zones, if decision is to continue, then we will choose the best KO point which should be approximately 8700 ft and drill a 6 1/8 inch horizontal hole to a measured depth from surface to 13, 015 ft, to the desired BHL. An evaluation will be made before production facilities are confirmed. A sundry notice with the facility plans will be submitted.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Vernon D Dyer

Printed name:

Vernon D Dyer

Title:

Agent

E-mail Address:

Vdyeroil@cableone.com

Date:

6-24-2010

Phone:

(575) 420-0355

OIL CONSERVATION DIVISION

Approved by:

PETROLEUM ENGINEER

Title:

Approval Date:

JUN 29 2010

Expiration Date:

CONDITION OF APPROVAL FOR APD'S

"Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string"

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

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

JUN 25 2010

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 30-025-39813	Pool Code 24580	Pool Name Flying M Abd
Property Code 38223	Property Name CROSSROADS STATE 22	Well Number 1H
OGRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 4359'

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	9-S	33-E		400	NORTH	660	EAST	LEA

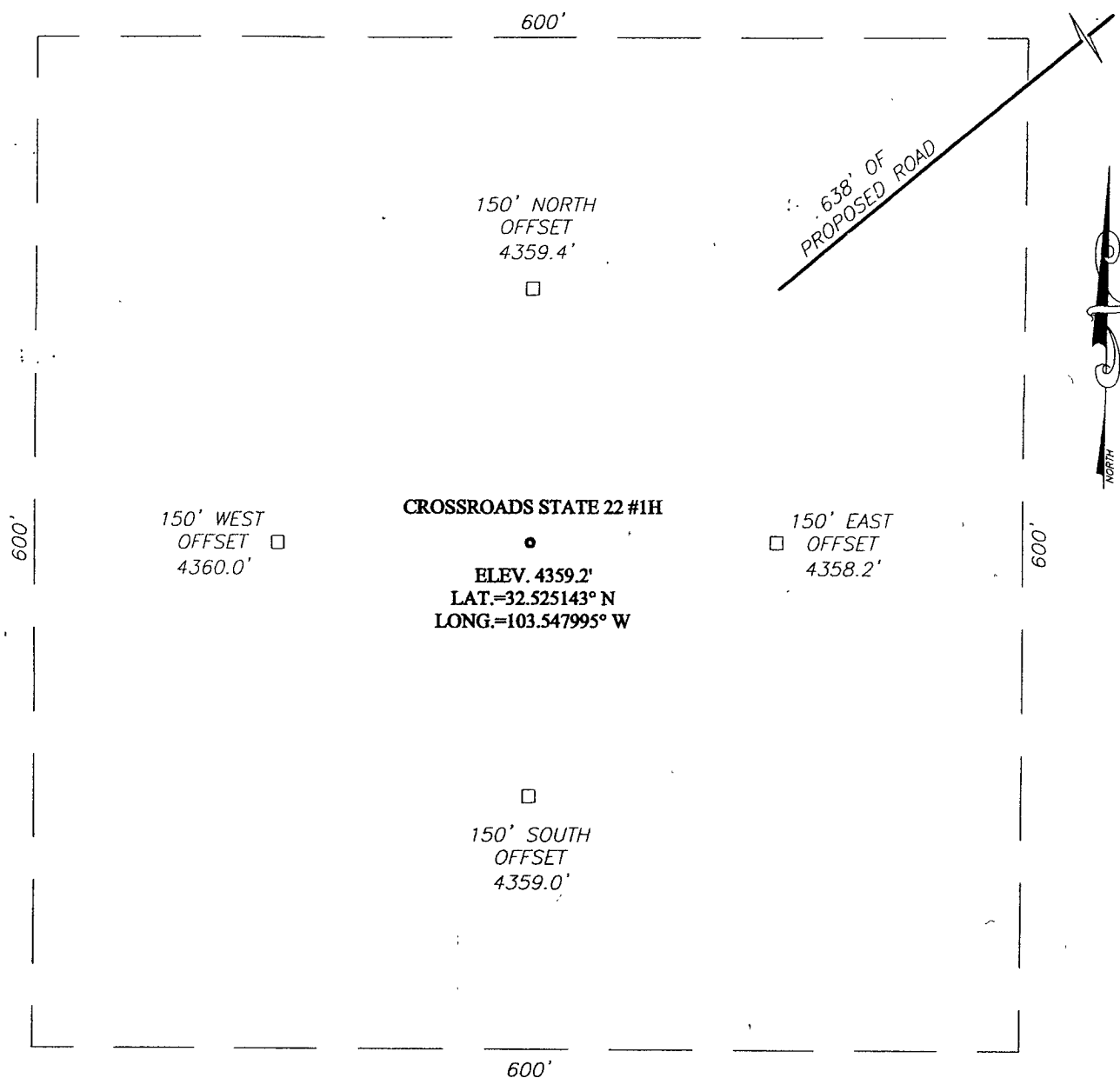
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	9-S	33-E		400	SOUTH	660	EAST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.	Per V/D					

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

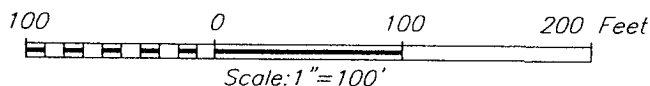
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=919481.7 N X=739338.2 E LAT.=32.525143° N LONG.=103.547995° W BOTTOM HOLE LOCATION Y=915002.5 N X=739302.6 E	GRID AZ. - 180°27'18" HORZ. DIST. - 4480.3' S.L. 400' 660' B.H. 400' 660'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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. <i>Vernon Dyer</i> Signature Date 6-24-2010 VERNON D. DYER Printed Name 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: JUNE 2, 2010 SIGNATURE & SEAL OF PROFESSIONAL SURVEYOR: <i>Ronald J. Eidson</i> Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
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SECTION 22, TOWNSHIP 9 SOUTH, RANGE 33 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY. #206 AND CO. RD T-170 (CARROL RD), GO WEST ON CARROL RD. APPROX. 11.5 MILES TO THE FLYING M ROAD AND PROPOSED ROAD. FOLLOW ROAD SURVEY APPROX. 800 FEET SOUTHWEST OF CARROLL ROAD TO THIS LOCATION.



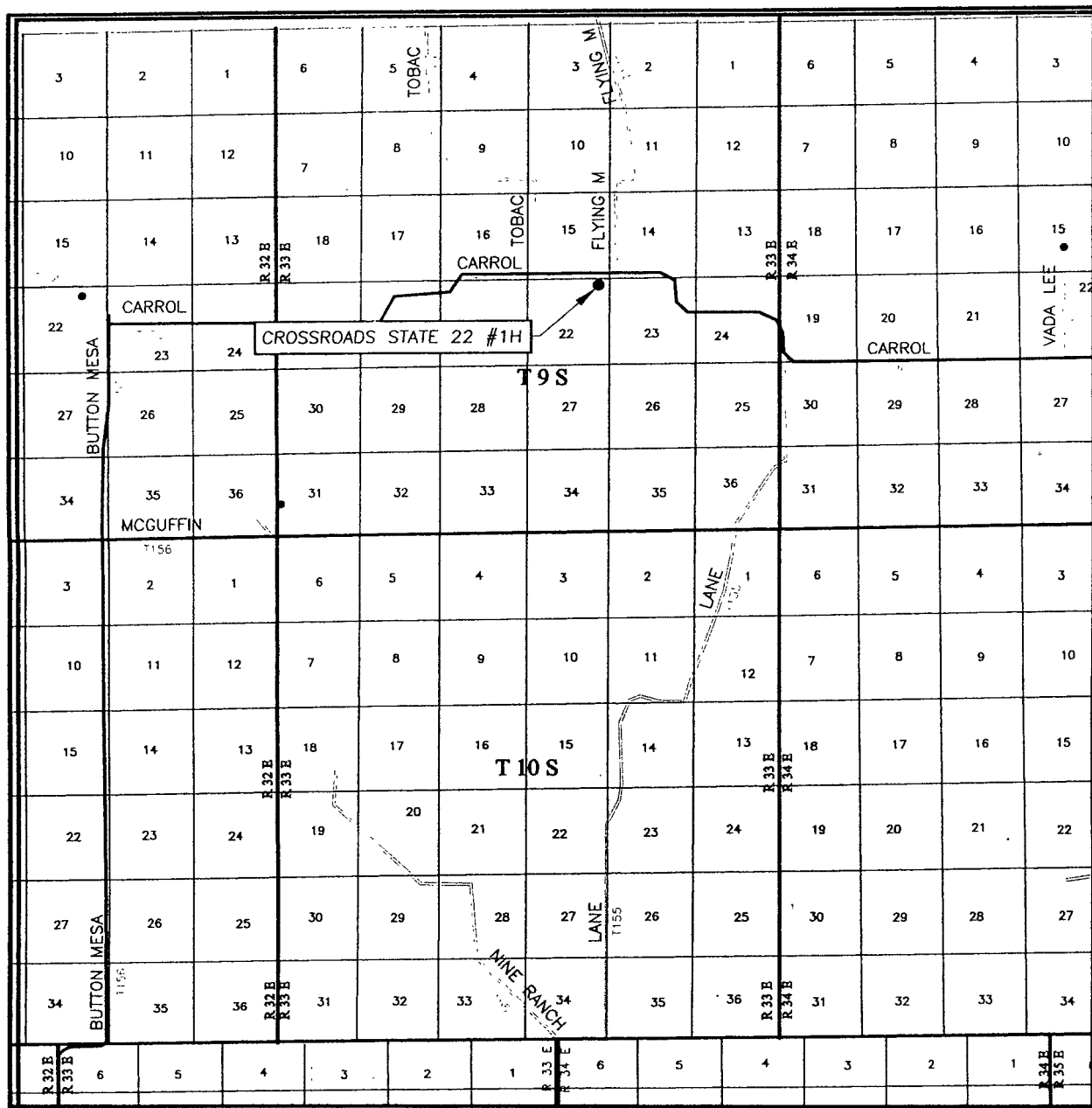
MARSHALL & WINSTON, INC.

CROSSROADS STATE 22 #1H WELL
 LOCATED 400 FEET FROM THE NORTH LINE
 AND 660 FEET FROM THE EAST LINE OF SECTION 22,
 TOWNSHIP 9 SOUTH, RANGE 33 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 6/2/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.0802	Dr By: LA
Date: 6/9/10	10110802
	Scale: 1"=100'

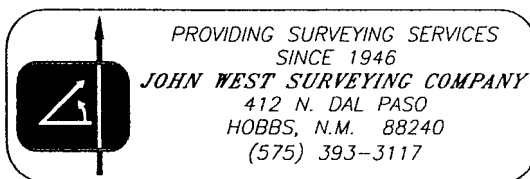
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117

VICINITY MAP

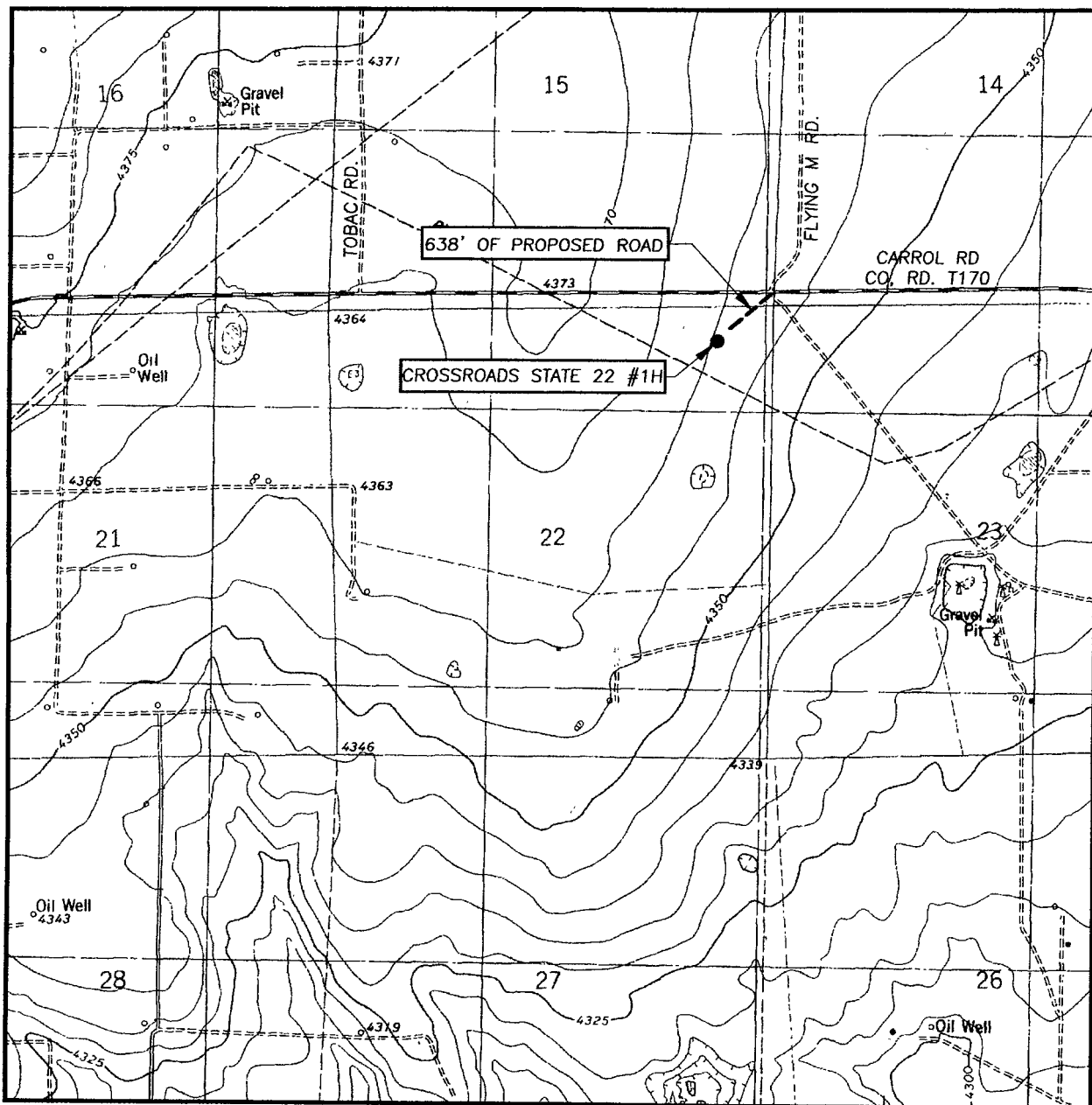


SCALE: 1" = 2 MILES

SEC. 22 TWP. 9-S RGE. 33-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 400' FNL & 660' FEL
 ELEVATION 4359'
 OPERATOR MARSHALL & WINSTON, INC
 LEASE CROSSROADS STATE 22



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
FLYING M RANCH, N.M. - 5'

SEC. 22 TWP. 9-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

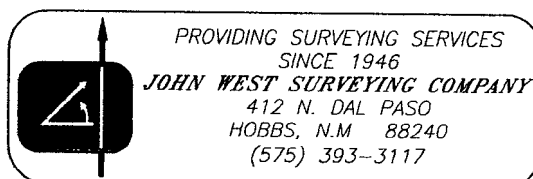
DESCRIPTION 400' FNL & 660' FEL

ELEVATION 4359'

OPERATOR MARSHALL &
WINSTON, INC.

LEASE CROSSROADS STATE 22

U.S.G.S. TOPOGRAPHIC MAP
FLYING M RANCH, N.M.



MIDLAND & MAP
State of

