

NMOC D - 1

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

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JUL 19 2010

HOBBSOCD

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101

June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE**

¹ Operator Name and Address Marshall & Winston P.O.Box 50880 Midland, TX 79710-0880		² OGRID Number 014187
³ Property Code 38223	⁵ Property Name Crossroads 22 State 341	³ API Number 30 - 025-39840
⁹ Proposed Pool 1 Flying M Abo Wolfcamp		⁶ Well No. 3 H
¹⁰ Proposed Pool 2 Wildcat Wolfcamp		

⁷ Surface Location

UL or lot no C	Section 22	Township 9 South	Range 33 East	Lot Idn N/A	Feet from the 400	North/South line North	Feet from the 1980	East/West line West	County Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no N	Section 22	Township 9 South	Range 33 East	Lot Idn N/A	Feet from the 467	North/South line South	Feet from the 1980	East/West line West	County Lea

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4359'
¹⁶ Multiple N	¹⁷ Proposed Depth 8700 Ft	¹⁸ Formation Lower Abo	¹⁹ Contractor McVay Drilling	²⁰ Spud Date As soon as a rig becomes available

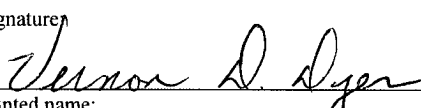
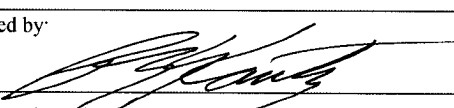
²¹ Proposed Casing and Cement Program

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'

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.

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**

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief		OIL CONSERVATION DIVISION	
Signature: 		Approved by: 	
Printed name: Vernon D. Dyer		Title: PETROLEUM ENGINEER	
Title: Agent		Approval Date: JUL 26 2010	Expiration Date:
E-mail Address: Vdyeroil@cableone.com			
Date: July 17, 2010	Phone: (575) 420-0355	Conditions of Approval Attached ☐	

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State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88201

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39840	Pool Code 24580	Pool Name Flying Elk Abo
Property Code 38223	Property Name CROSSROADS STATE 22	Well Number 3H
OGRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 4371'

Surface Location

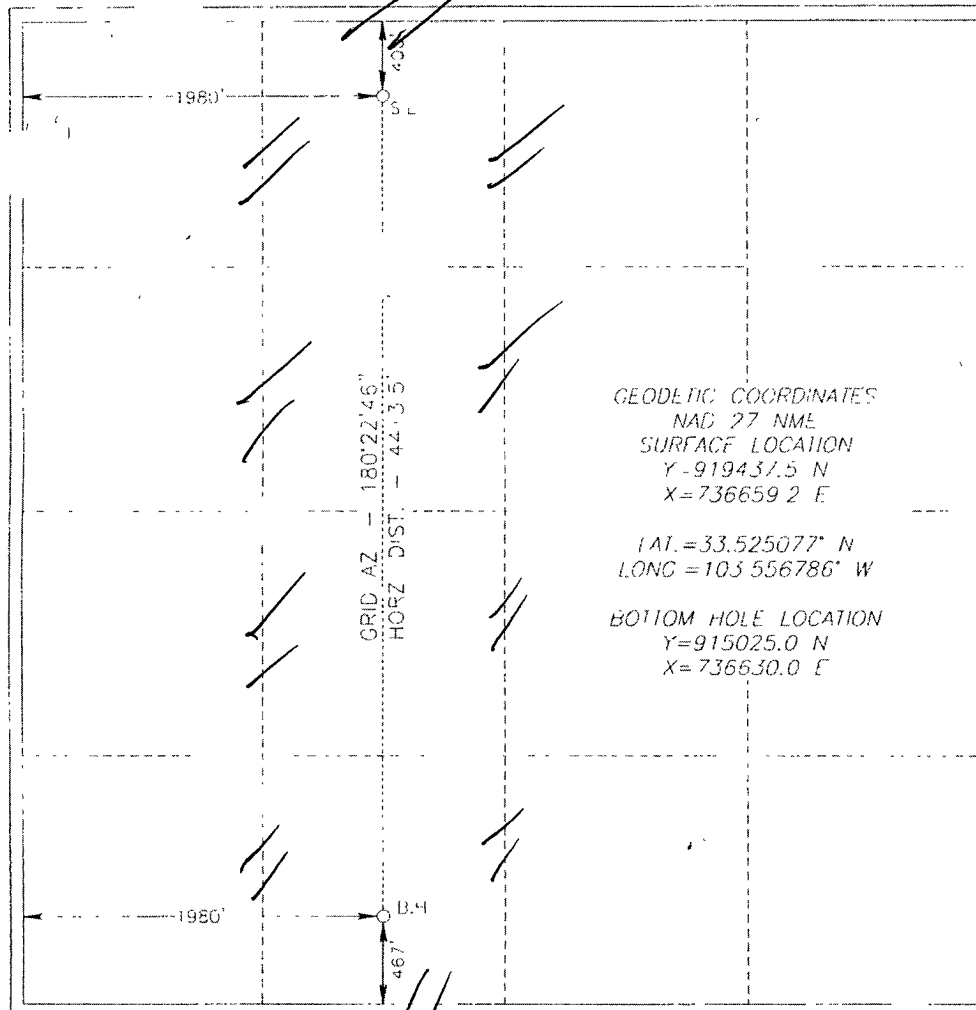
UL or lot No. C	Section 22	Township 9-S	Range 33-E	Lot Idn	Feet from the 400	North/South line NORTH	Feet from the 1980	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. N	Section 22	Township 9-S	Range 33-E	Lot Idn	Feet from the 467	North/South line SOUTH	Feet from the 1980	East/West line WEST	County LEA
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Dedicated Acres 30	Joint or Infill	Consolidation Code	Order No.
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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



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.

Thomas D. Dyer 7-17-2010
Signature Date
Thomas 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
Signature & Seal of
Professional Surveyor

Ronald J. Eidson 7/16/2010
Professional Surveyor

Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239

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State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N FRENCH DR., HOBBS, NM 88240

JUL 19 2010

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 87003

HOBBS

OIL CONSERVATION DIVISION

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

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39840	Pool Code 96036	Pool Name Wildcat Wolfcamp
Property Code 38223	Property Name CROSSROADS STATE	Well Number 3H
OGRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 4371'

Surface Location

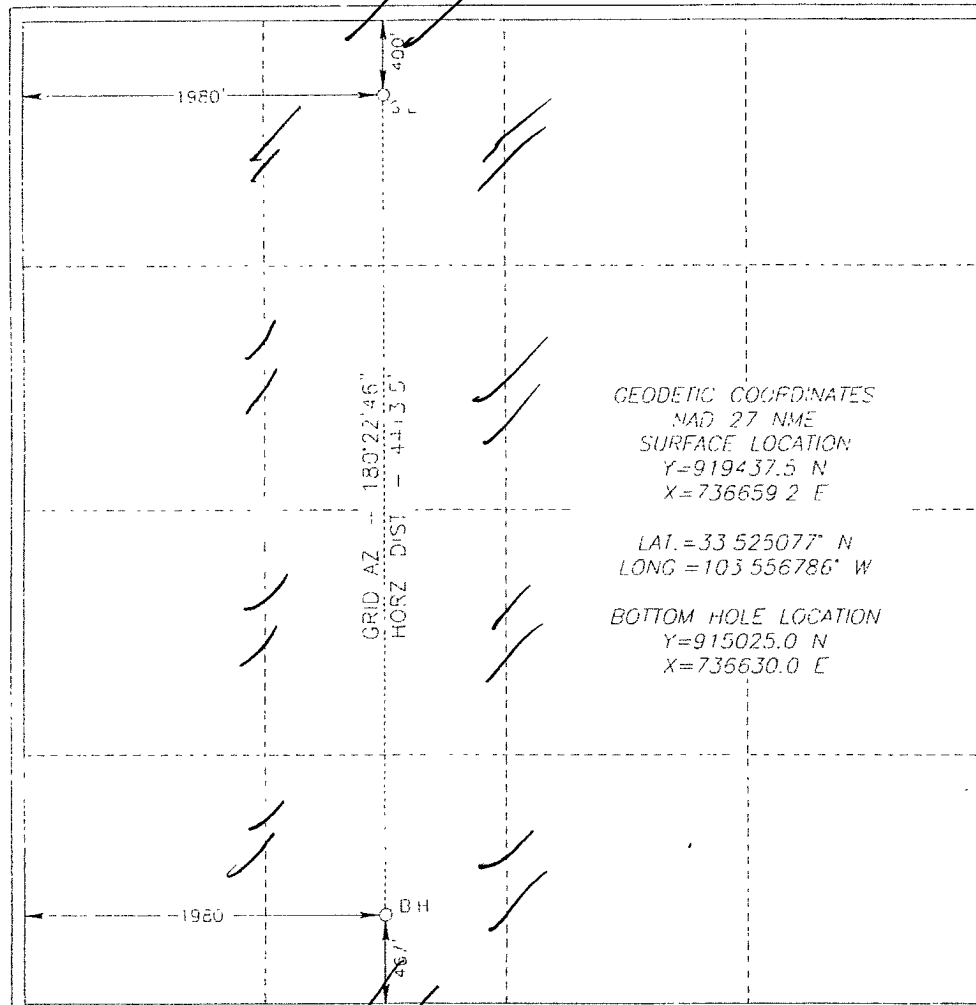
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	9-S	33-E		400	NORTH	1980	WEST	LEA

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
N	22	9-S	33-E		467	SOUTH	1980	WEST	LEA

Dedicated Acres	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



OPERATOR CERTIFICATION

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Vernon D. Dyer 7-17-2010
Signature Date
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.

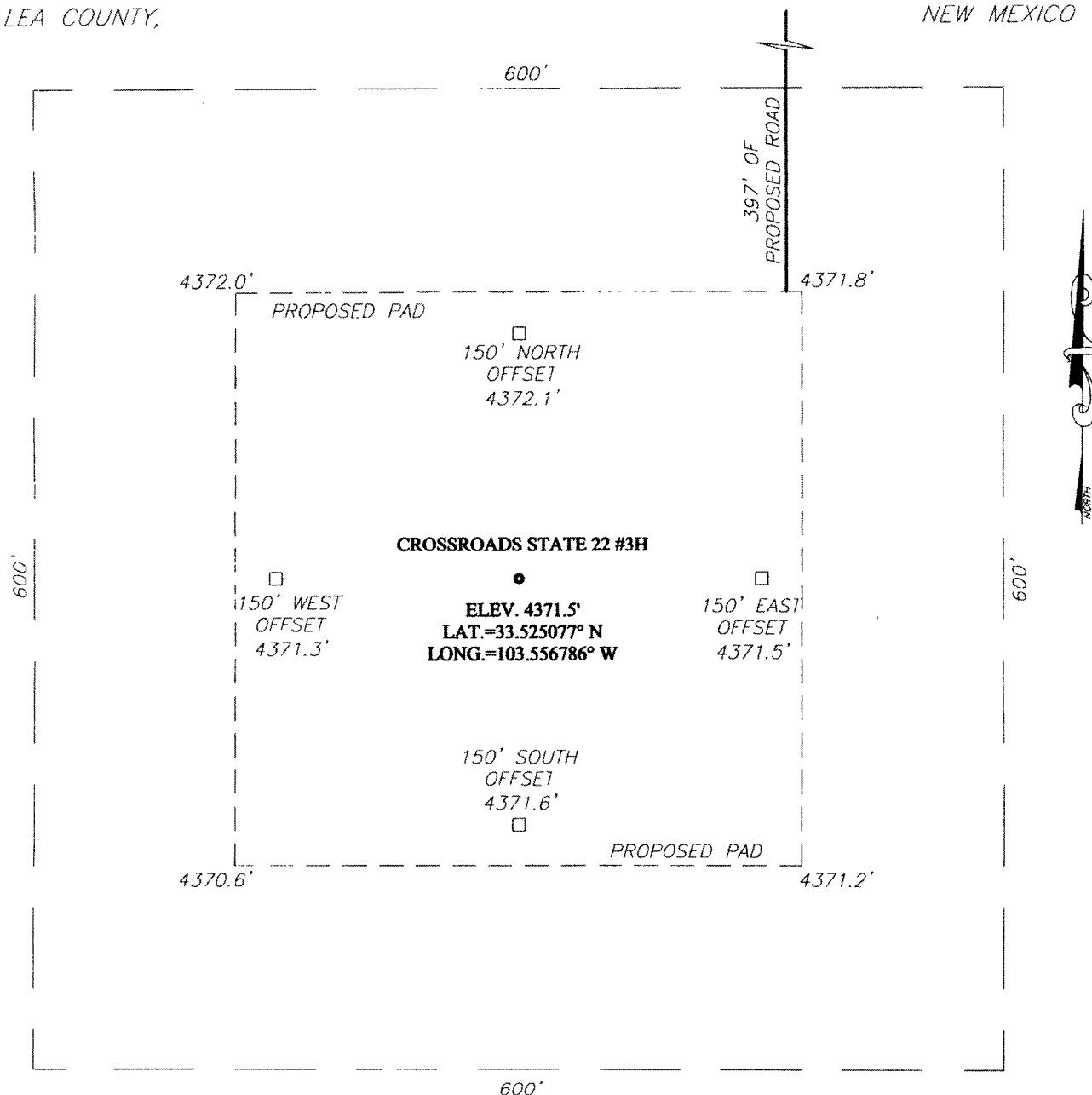
Ronald J. Eidson 07/16/2010
Date Surveyed
Signature & Seal of Professional Surveyor
Ronald J. Eidson

Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239

SECTION 22, TOWNSHIP 9 SOUTH, RANGE 33 EAST, N.M.P.M.,

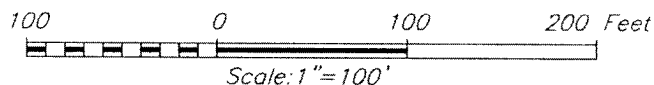
LEA COUNTY,

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. 12.2 MILES TO A PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY SOUTH 397 FEET TO THIS LOCATION



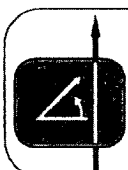
MARSHALL & WINSTON, INC.

CROSSROADS STATE 22 #3H WELL
LOCATED 400 FEET FROM THE NORTH LINE
AND 1980 FEET FROM THE WEST LINE OF SECTION 22,
TOWNSHIP 9 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 7/14/10 Sheet 1 of 1 Sheets

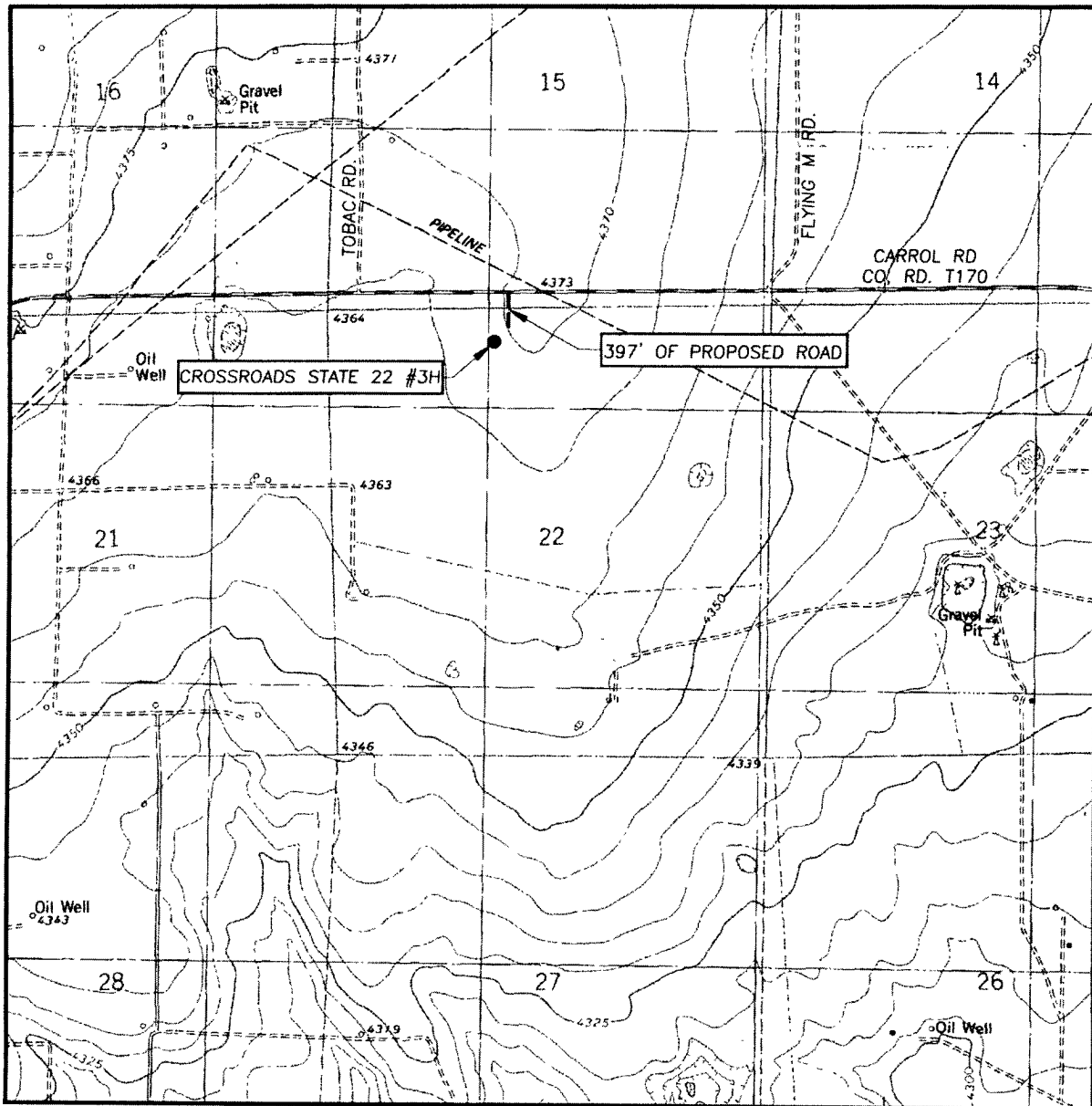
W.O. Number. 10 11.1054 Dr By: LA Rev 1:

Date: 7/16/10 10111054 Scale: 1"=100'



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

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

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

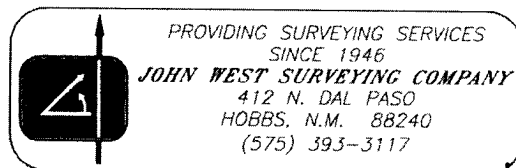
DESCRIPTION 400' FNL & 1980' FWL

ELEVATION 4371'

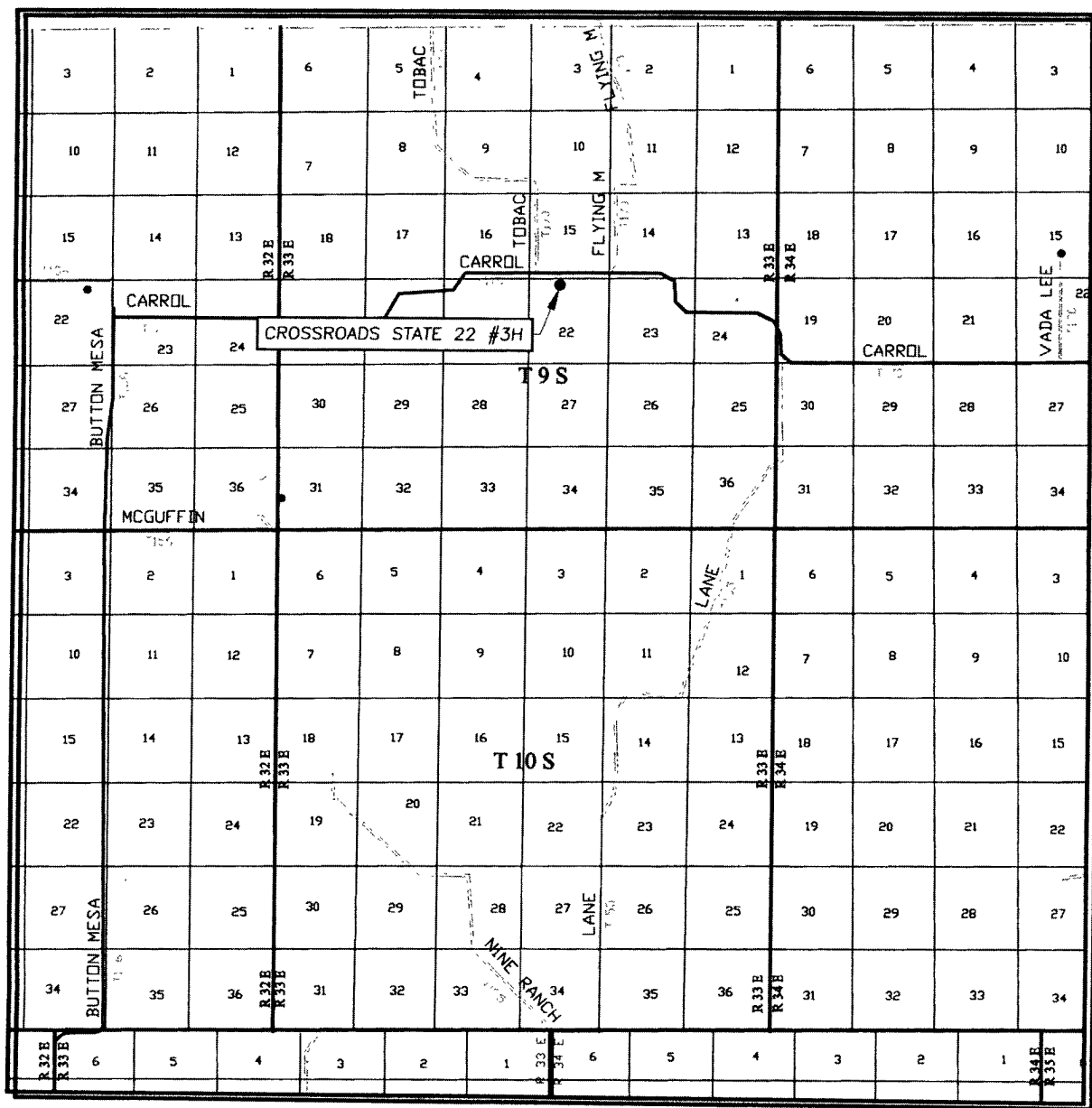
OPERATOR MARSHALL & WINSTON, INC.

LEASE CROSSROADS STATE 22

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



VICINITY MAP



SCALE: 1" = 2 MILES

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

SURVEY N.M.P.M.

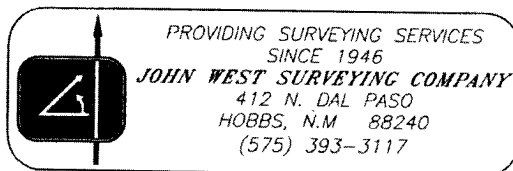
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 400' FNL & 1980' FWL

ELEVATION 4371'

OPERATOR MARSHALL & WINSTON, INC.

LEASE CROSSROADS STATE 22



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