

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOC
Artesia

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM-131581

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.
White Rock Federal 1H

2. Name of Operator

Mack Energy Corporation

9. API Well No.
30-005-64300

3a. Address

P.O. Box 960 Artesia, NM 88210-0960

3b. Phone No. (include area code)

(575) 748-1288

10. Field and Pool or Exploratory Area

Round Tank; San Andres

4. Location of Well (Footage, Sec., T,R,M, or Survey Description)

140 FNL & 555 FWL, Sec. 28 T15S R29E

11. Country or Parish, State

Chaves, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Temp Frac Lines</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Mack Energy proposes to lay (2) 10" lay flat surface lines from our Round Tank Pit to our White Rock Federal 1H location. Total Distance of these lines will be 15,608.3' in length. Lines will carry 105,000 bbls of produced water from our frac pit to location for the purpose of fracing the White Rock Federal 1H. Anticipated frac dates are 12/11-12/15/2017. We ask for a 30 day window to allow for schedule conflicts. These lines will be laid on the surface along side of the existing road, within 2' of the roads edge.

AK 12-7-17
Accepted for record - NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 07 2017

RECEIVED

** see attached stipulations*

14. I hereby certify that the foregoing is true and correct. Name (Printed Typed)

Jerry W. Sherrell

Title Production Clerk

Signature

Jerry W. Sherrell

Date 10/25/17

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

RS Ruben J. Sanchez

Assistant Field Manager,
Lands And Minerals

NOV 30 2017

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for my person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Exhibit A Stipulations

Company Reference: Mack Energy Corporation

SURFACE INSTALLED PIPELINE STIPULATIONS FOR THE ROSWELL FIELD OFFICE, BLM

The Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this authorization.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the pipeline route or on facilities authorized. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way Holder's activity on the pipeline). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of the Holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the Holder. Such action by the Authorized Officer shall not relieve the Holder of any liability or responsibility.
5. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on the Holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The Holder shall suspend all operations in the immediate area of

such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

6. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

7. The holder shall be held responsible if noxious weeds become established within the area. Evaluation of growth of the noxious weeds shall be made upon discovery. Weed control will be required on the disturbed lands resulting from this actions, which include the roads, pads and associated pipelines and on adjacent lands affected by the establishment of weeds due to this action.

The holder shall insure that the equipment and or vehicles that will be used to construct, maintain and administer the access roads, well pad, and resulting well are not polluted with invasive and noxious weed seeds. Transporting of invasive and noxious weed seeds could occur if the equipment and vehicles were previously used in noxious weed infested areas. In order to prevent the spread of noxious weeds, the Authorized Officer shall require that the equipment and vehicles be cleaned with either high pressure water or air prior to construction, maintenance and administration of the access roads, well pad, and resulting well.

The holder is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods, which include following EPA and BLM requirements and policy.

8. The holder shall be responsible for maintaining the site in a sanitary condition at all times; waste materials shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

9. The holder shall conduct all activities associated with the construction, operation and termination of the pipeline within the authorized limits.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair impacted improvements to at least their former state. The Holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence will be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates

"Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is Juniper Green, Standard Environmental Color Chart CC-001 June 2008.

12. The holder shall post signs designating the BLM serial number assigned to this authorization at the following locations: the points of origin and completion, or entry to and exit from public lands, of the pipeline and at all major road crossings. These signs will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the term of the right-of-way. (See Note*, page 21.)

13. The Holder shall not use the pipeline as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder shall take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

14. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2886.13. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from fire or soil movement (including landslides and slumps as well as wind and water caused movement of particles) caused or substantially aggravated by any of the following within the right-of-way or permit area:

- A. Activities of the holder, including but not limited to, construction, operation, maintenance, and termination of the facility.
- B. Activities of other parties including but not limited to:
 - (1). Land clearing.
 - (2). Earth-disturbing and earth-moving work.
 - (3). Blasting.
 - (4). Vandalism and sabotage.
- C. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction of in which the damage of injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from the negligent acts of the United States.

15. **No blading or clearing** of any vegetation will be allowed unless approved in writing by the Authorized Officer.

16. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

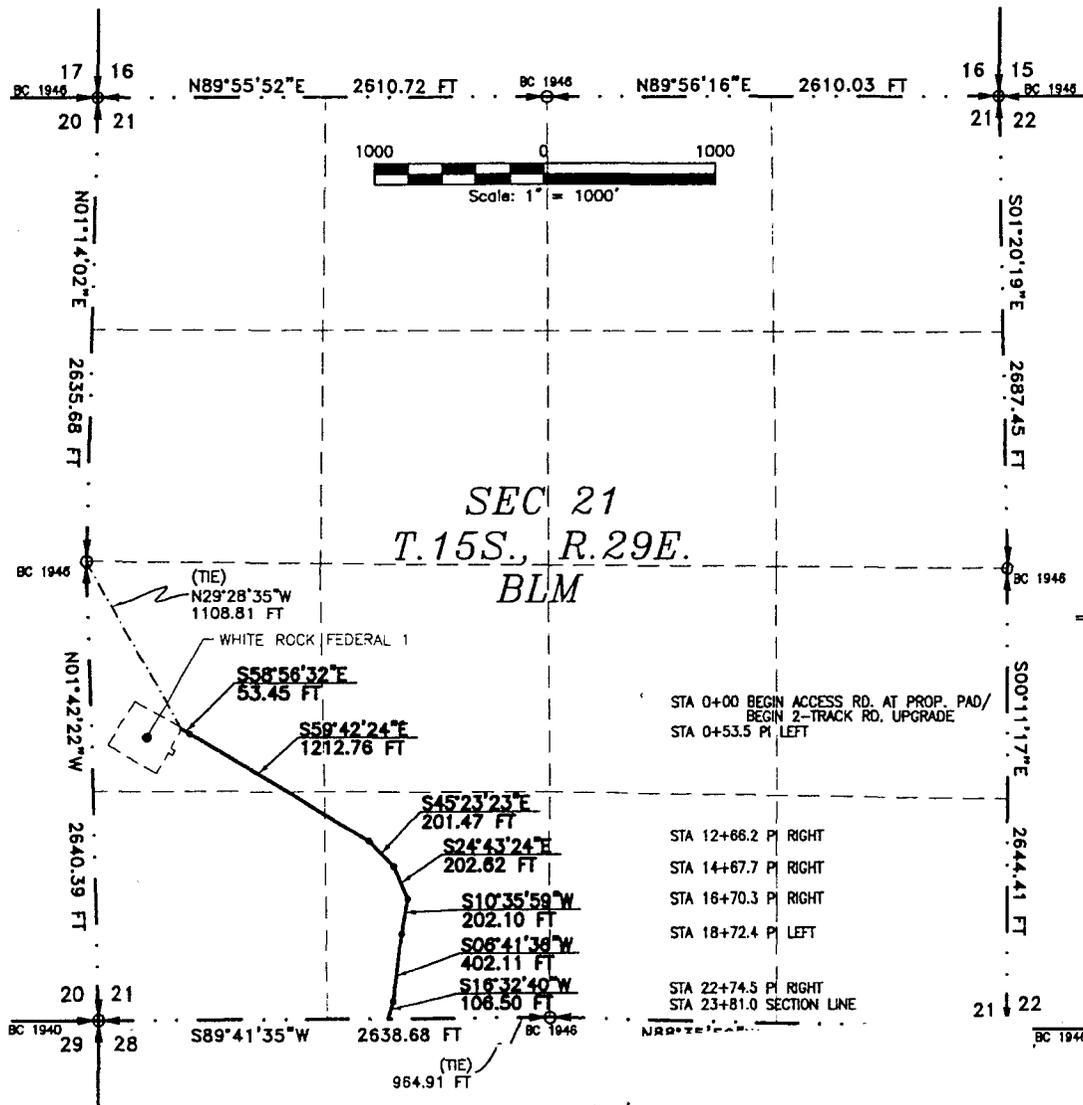
17. The pipeline shall be buried a minimum of 48 inches under all roads, including "two-tracks" and trails. Burial will continue for 20 feet on each side of each crossing. The condition of the road, upon

completion of the construction, shall be returned to at least its former state, with no bumps, dips, or soft spots remaining in the road surface.

* Note from Stipulation No. 12: Although any legible means of marking your right-of-way is acceptable, even decal appliques, most quickly wear away and become illegible, requiring frequent maintenance to remain in compliance with the stipulation. An excellent, very long-lasting, low maintenance sign is a metal plate $\frac{1}{4}$ " or more in thickness, 2" to 3" high, and about 1 foot long, with the BLM serial number cut into or welded onto the metal. When this type of sign is painted as per Standard Stipulation No. 11 and supported at least 18" above the ground, it can remain legible and in good condition for many years without further upkeep.

ACCESS ROAD PLAT
 ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

MACK ENERGY CORPORATION
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 AUGUST 4, 2014



SEC 21
 T. 15S., R. 29E.
 BLM

STA 0+00 BEGIN ACCESS RD. AT PROP. PAD/
 BEGIN 2-TRACK RD. UPGRADE
 STA 0+53.5 PI LEFT

STA 12+66.2 PI RIGHT
 STA 14+67.7 PI RIGHT
 STA 16+70.3 PI RIGHT
 STA 18+72.4 PI LEFT

STA 22+74.5 PI RIGHT
 STA 23+81.0 SECTION LINE

SEE NEXT SHEET

2381.01
 877.00

 3258.81

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SU.
 HERE THAT BELIE SURV
 NEW

JR NO. 12797,
 THIS SURVEY,
 EDGE AND
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AD,

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) 88220

0. 3301
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SHEET: 1-6

MADRON SURVEYING, INC.



J. P. Madron
 301
 (575)

ACCESS ROAD PLAT

ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

**MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AUGUST 4, 2014**

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N29°28'35"W, A DISTANCE OF 1108.81 FEET;

THENCE S58°56'32"E A DISTANCE OF 53.45 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S59°42'24"E A DISTANCE OF 1212.76 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S45°23'23"E A DISTANCE OF 201.47 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S24°43'24"E A DISTANCE OF 202.62 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S10°35'59"W A DISTANCE OF 202.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S06°41'36"W A DISTANCE OF 402.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S16°32'40"W A DISTANCE OF 106.50 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N89°41'35"E, A DISTANCE OF 964.91 FEET;

SAID STRIP OF LAND BEING 2381.01 FEET OR 144.31 RODS IN LENGTH, CONTAINING 1.094 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4 704.83 L.F. 42.72 RODS 0.324 ACRES
SW/4 SW/4 256.40 L.F. 15.54 RODS 0.118 ACRES
SE/4 SW/4 1419.78 L.F. 86.05 RODS 0.652 ACRES

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 18 DAY OF AUGUST 2014

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

Filmon F. Jaramillo
FILMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

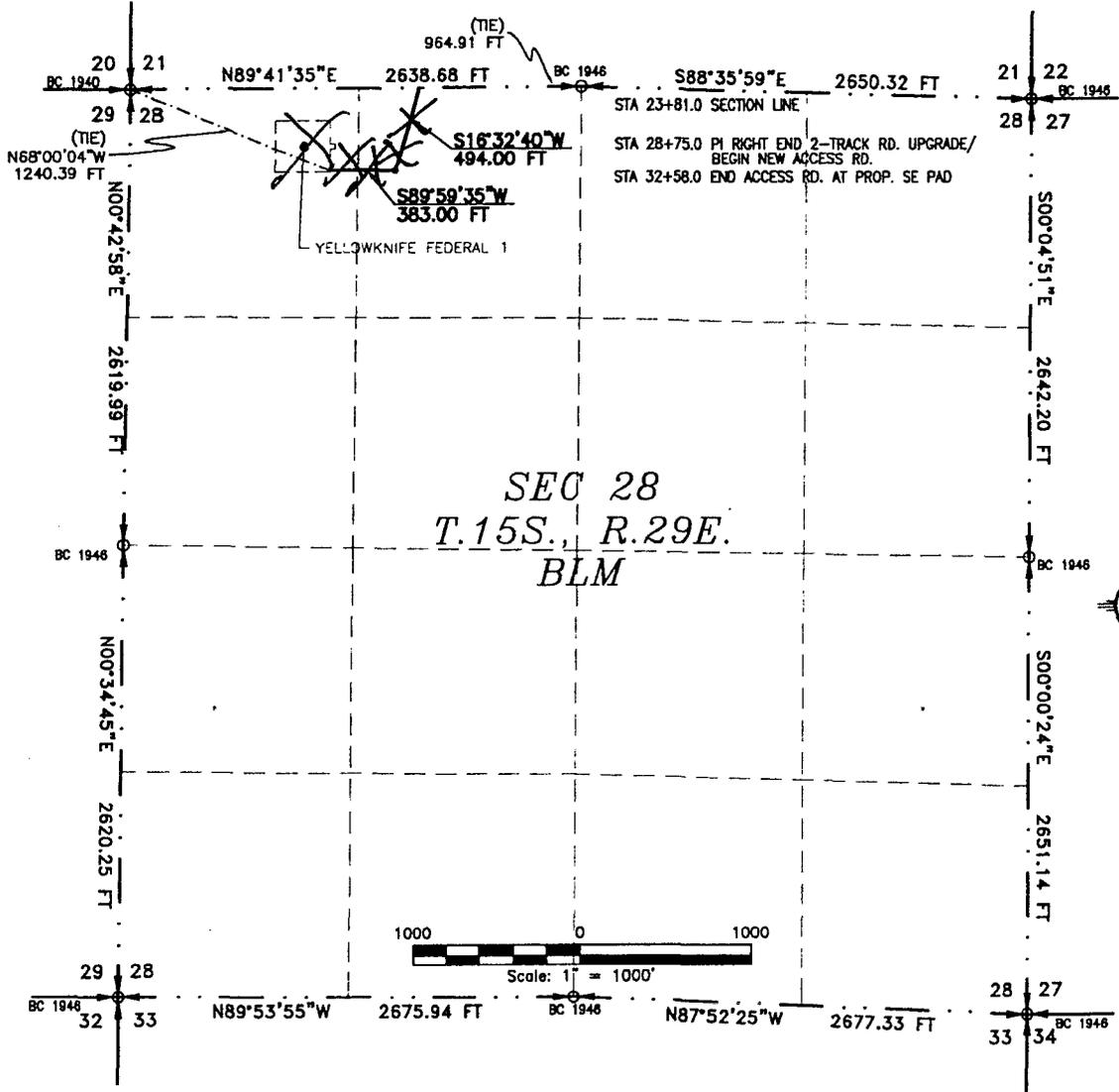
SHEET: 2-6

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO SURVEY NO. 3301

301 SOUTH CANAL
(575) 234-3341

ACCESS ROAD PLAT
 ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

MACK ENERGY CORPORATION
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 AUGUST 4, 2014

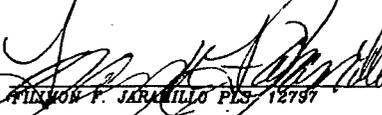


SEE NEXT SHEET (4-6) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 16 DAY OF AUGUST 2014


 FILIMON F. JARAMILLO PLS. 12797
 MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 3-6

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 3301

ACCESS ROAD PLAT
ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AUGUST 4, 2014

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N89°41'35"E, A DISTANCE OF 964.91 FEET;
THENCE S16°32'40"W A DISTANCE OF 494.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°59'35"W A DISTANCE OF 383.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N68°00'04"W, A DISTANCE OF 1240.39 FEET;

SAID STRIP OF LAND BEING 877.00 FEET OR 53.15 RODS IN LENGTH, CONTAINING 0.403 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 711.66 L.F. 43.13 RODS 0.327 ACRES
NW/4 NW/4 165.34 L.F. 10.02 RODS 0.076 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 18 DAY OF AUGUST 2014


FILIMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

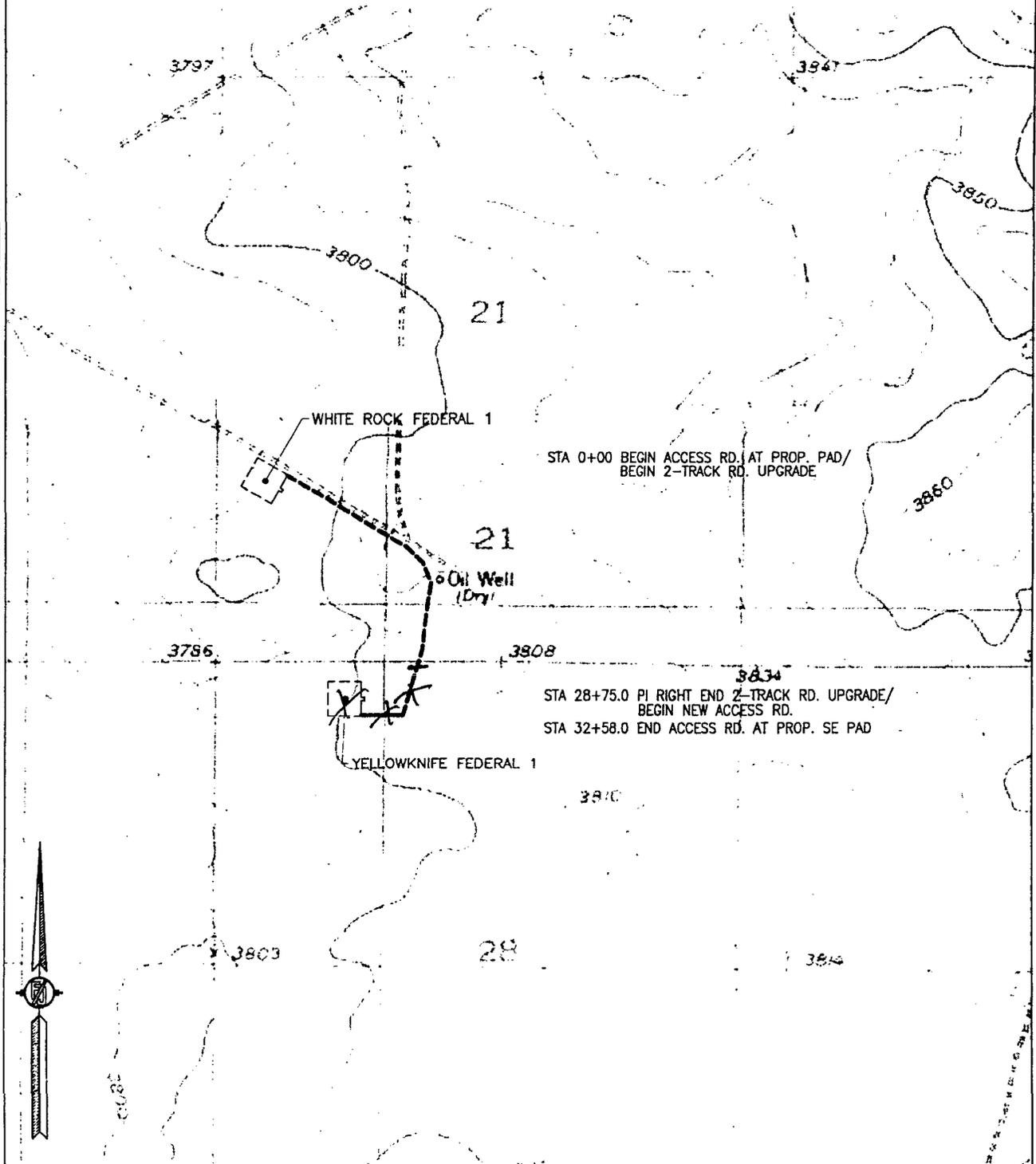
SHEET: 4-6

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEY NO. 3301

ACCESS ROAD PLAT
ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 21, 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AUGUST 4, 2014



SHEET: 5-6

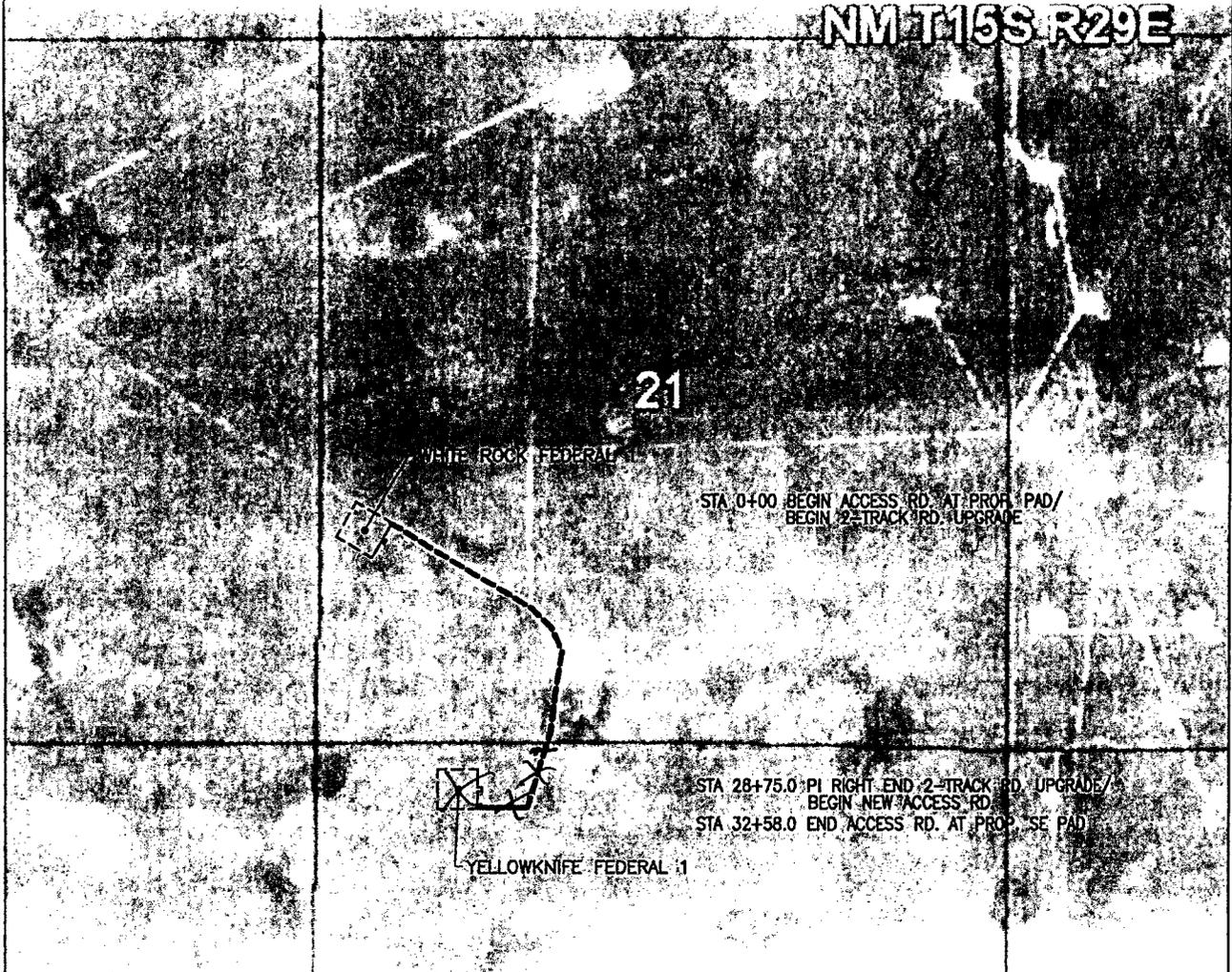
SURVEY NO. 3301

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

ACCESS ROAD PLAT
ACCESS ROAD FROM THE WHITE ROCK FEDERAL 1 TO THE YELLOWKNIFE FEDERAL 1

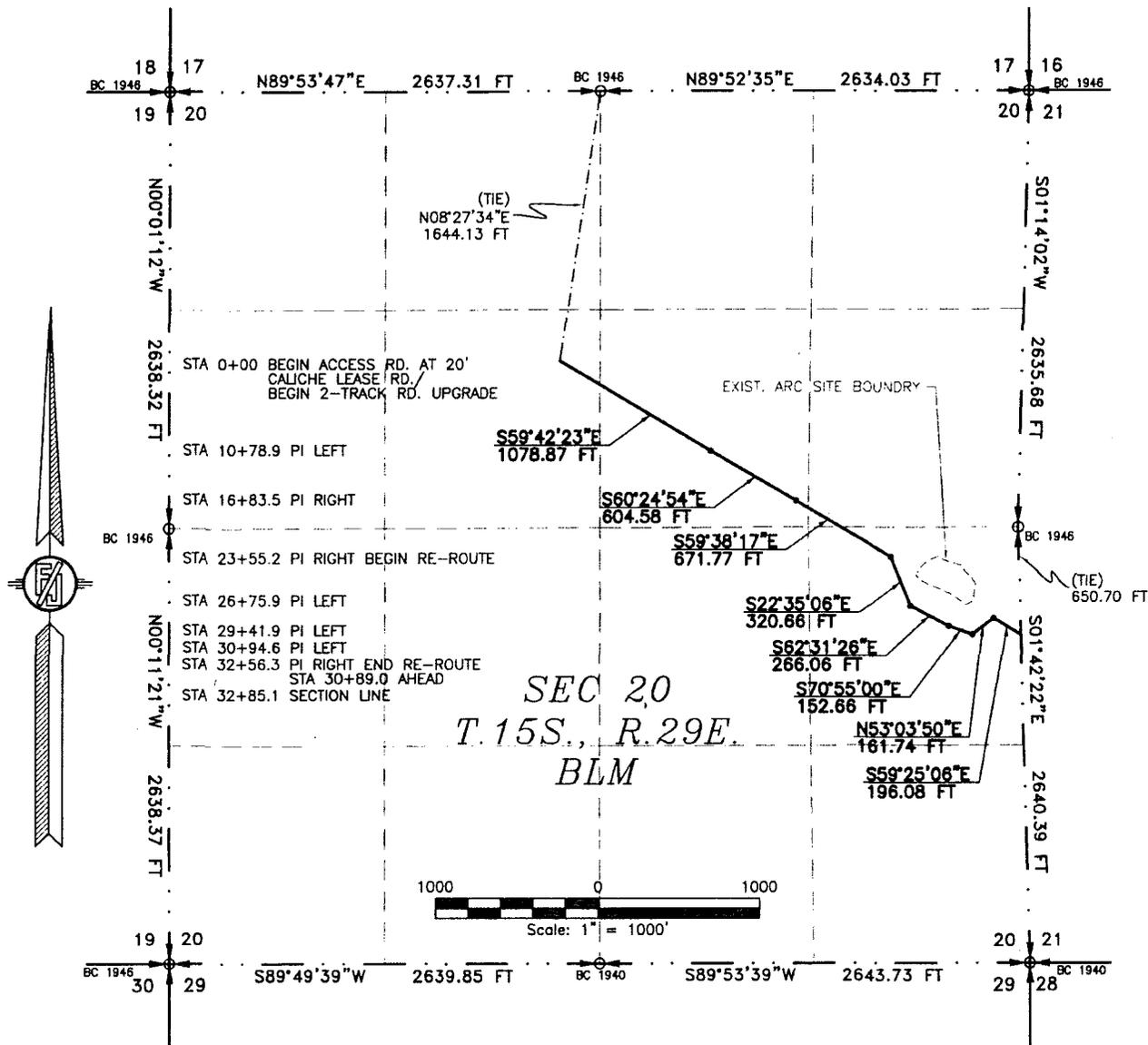
MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 21, 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AUGUST 4, 2014

NM T15S R29E



ACCESS ROAD PLAT
RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 18, 2014



SEE NEXT SHEET (2-6) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 18 DAY OF JANUARY, 2015


 FILMON F. JARAMILLO, SURVEYOR
 MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 1-6

MADRON SURVEYING, INC.

301 SOUTH CANAL
CARLSBAD, NEW MEXICO
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 2958B

ACCESS ROAD PLAT
RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 18, 2014

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 NW/4 OF SAID SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N08°27'34"E, A DISTANCE OF 1644.13 FEET;

THENCE S59°42'23"E A DISTANCE OF 1078.87 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S60°24'54"E A DISTANCE OF 604.58 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S59°38'17"E A DISTANCE OF 671.77 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S22°35'06"E A DISTANCE OF 320.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S62°31'26"E A DISTANCE OF 266.06 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S70°55'00"E A DISTANCE OF 152.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N53°03'50"E A DISTANCE OF 161.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S59°25'06"E A DISTANCE OF 196.08 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 20, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N01°42'22"W, A DISTANCE OF 650.70 FEET;

SAID STRIP OF LAND BEING 3452.42 FEET OR 209.23 RODS IN LENGTH, CONTAINING 1.585 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NW/4	284.84 L.F.	17.26 RODS	0.131 ACRES
SW/4 NE/4	1488.27 L.F.	90.20 RODS	0.683 ACRES
SE/4 NE/4	233.38 L.F.	14.14 RODS	0.107 ACRES
NE/4 SE/4	1445.93 L.F.	87.63 RODS	0.664 ACRES

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 5TH DAY OF JANUARY 2015

Filimon F. Jaramillo
FILIMON F. JARAMILLO, P.S. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

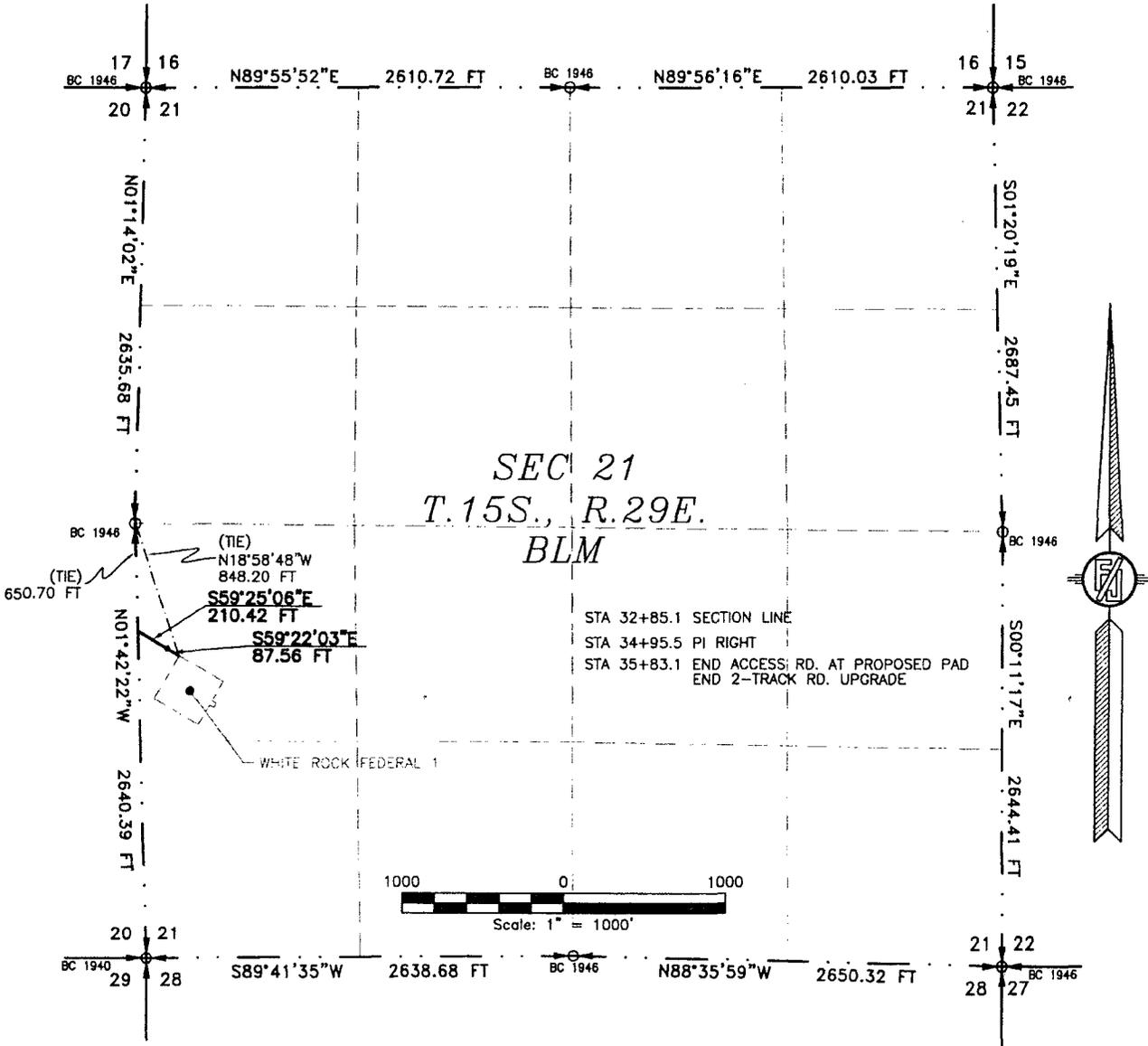
SHEET: 2-6

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341 **CARLSBAD, NEW MEXICO**

SURVEY NO. 2958B

ACCESS ROAD PLAT
 RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 18, 2014



SEE NEXT SHEET (4-6) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 5 DAY OF JANUARY 2015

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88229
 Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 3-6

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 **CARLSBAD, NEW MEXICO**

SURVEY NO. 2958B

ACCESS ROAD PLAT
RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 18, 2014

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N01°42'22"W, A DISTANCE OF 650.70 FEET;

THENCE S59°25'06"E A DISTANCE OF 210.42 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S59°22'03"E A DISTANCE OF 87.56 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N18°58'48"W, A DISTANCE OF 848.20 FEET;

SAID STRIP OF LAND BEING 297.98 FEET OR 18.06 RODS IN LENGTH, CONTAINING 0.137 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4 297.98 L.F. 18.06 RODS 0.137 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 19 DAY OF JANUARY 2015

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SHEET: 4-6

MADRON SURVEYING, INC.

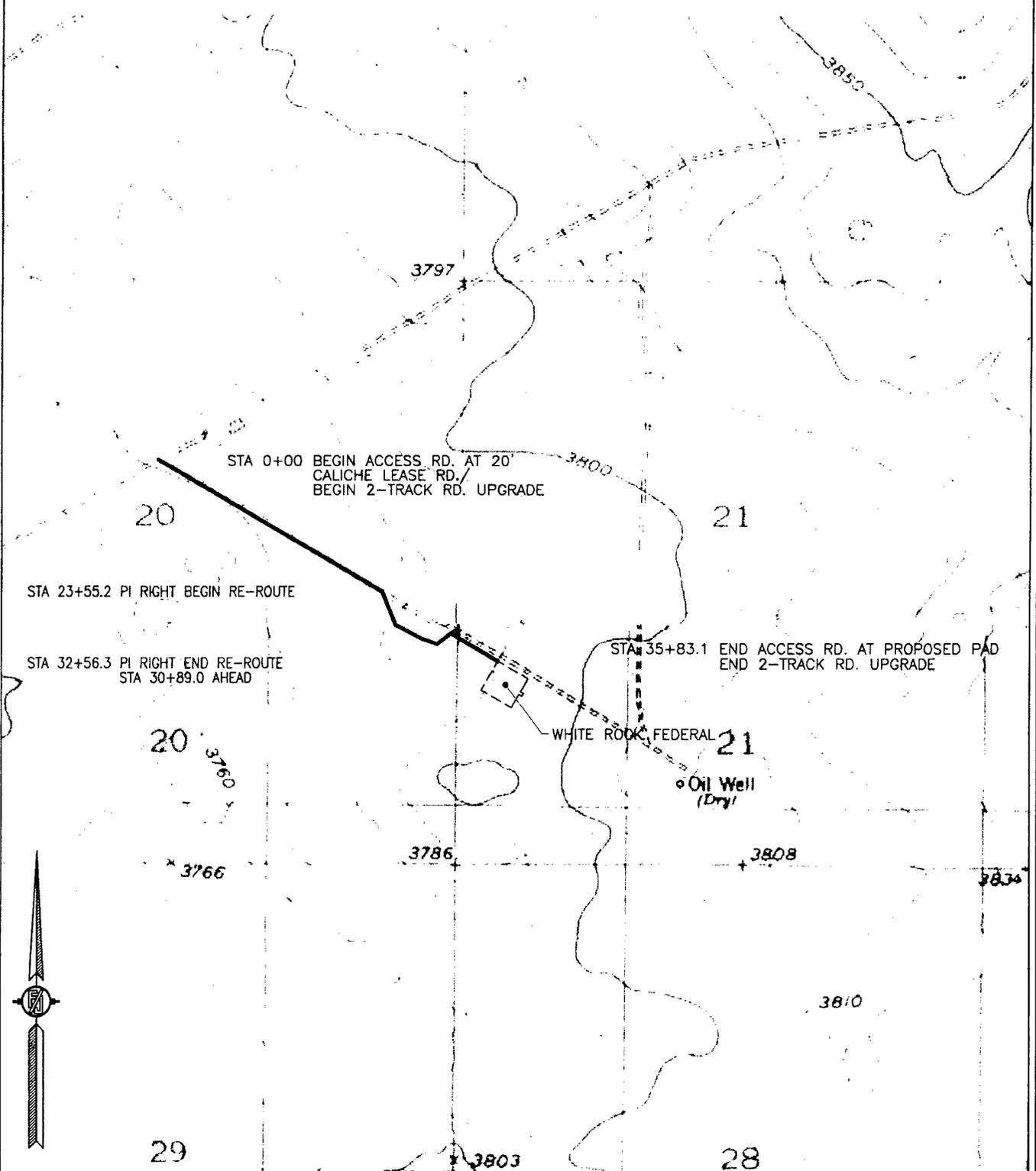
301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 2958B

ACCESS ROAD PLAT
RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 20, 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 18, 2014



ACCESS ROAD PLAT
RE-ROUTE ACCESS ROAD TO THE WHITE ROCK FEDERAL 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 20, 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 18, 2014

17

18

NM T15

STA 0+00 BEGIN ACCESS RD. AT 20'
CALICHE LEASE RD.
BEGIN 2-TRACK RD. UPGRADE

20
STA 23+55.2 PI RIGHT BEGIN RE-ROUTE

21

STA 32+56.3 PI RIGHT END RE-ROUTE
STA 30+89.0 AHEAD

STA 35+83.1 END ACCESS RD. AT PROPOSED PAD
END 2-TRACK RD. UPGRADE

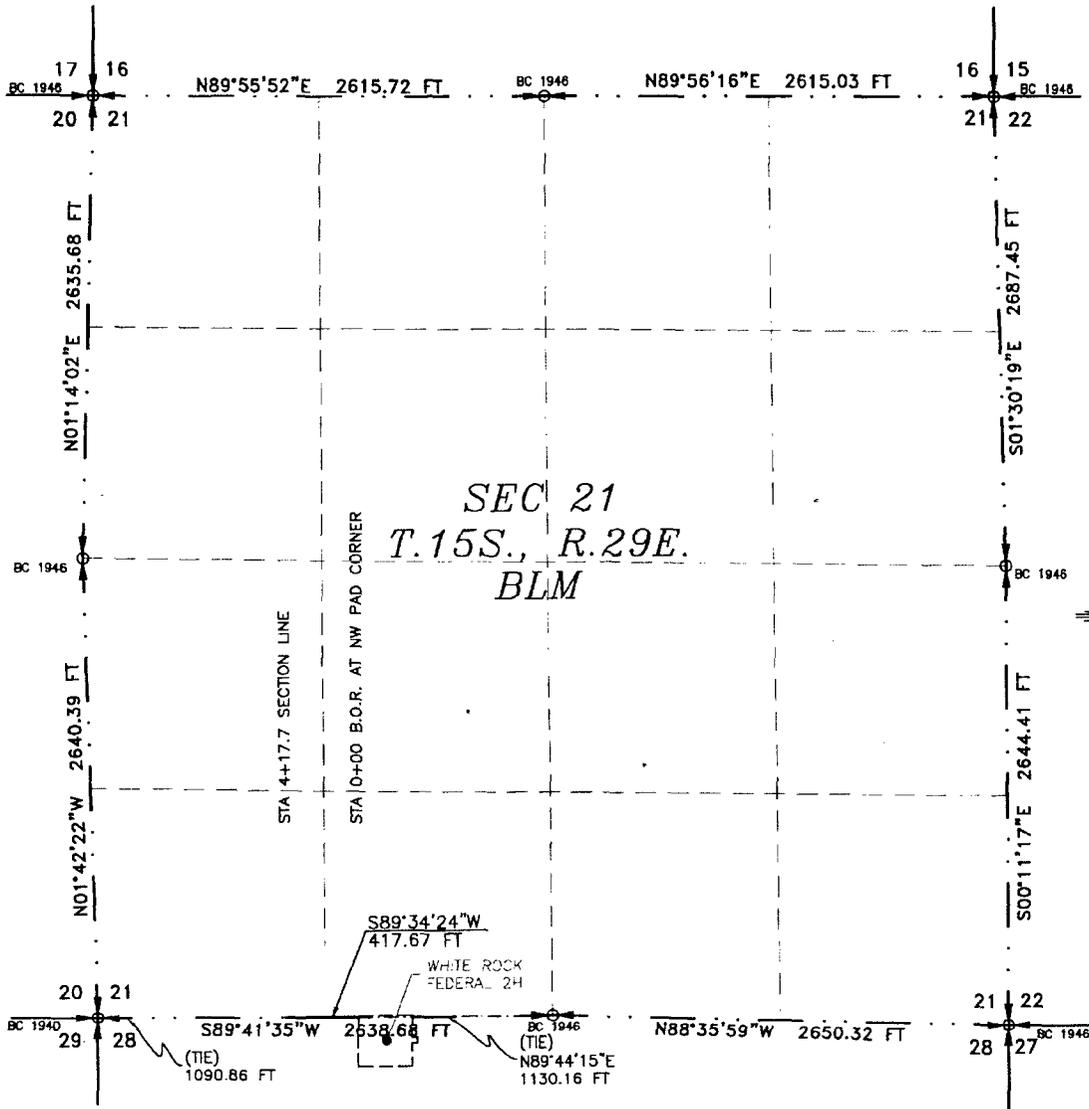


WHITE ROCK FEDERAL 1

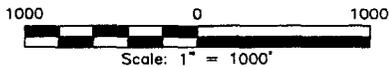


ACCESS ROAD PLAT
 ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

MACK ENERGY CORPORATION
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 MAY 17, 2017



SEE NEXT SHEET (2-6) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 25 DAY OF MAY 2017

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SHEET: 1-6

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 5272

ACCESS ROAD PLAT
ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MAY 17, 2017

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N89°44'15"E, A DISTANCE OF 1130.16 FEET;

THENCE S89°34'24"W A DISTANCE OF 417.67 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S89°41'35"W, A DISTANCE OF 1090.86 FEET;

SAID STRIP OF LAND BEING 417.67 FEET OR 25.32 RODS IN LENGTH, CONTAINING 0.192 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4	189.18 L.F.	11.47 RODS	0.087 ACRES
SW/4 SW/4	228.49 L.F.	13.85 RODS	0.105 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 25 DAY OF MAY 2017

FILIMON F. JARAMILLO PLS 12797

MADRON SURVEYING, INC
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 89220
Phone (575) 234-3341

SURVEY NO. 5272

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

GENERAL NOTES

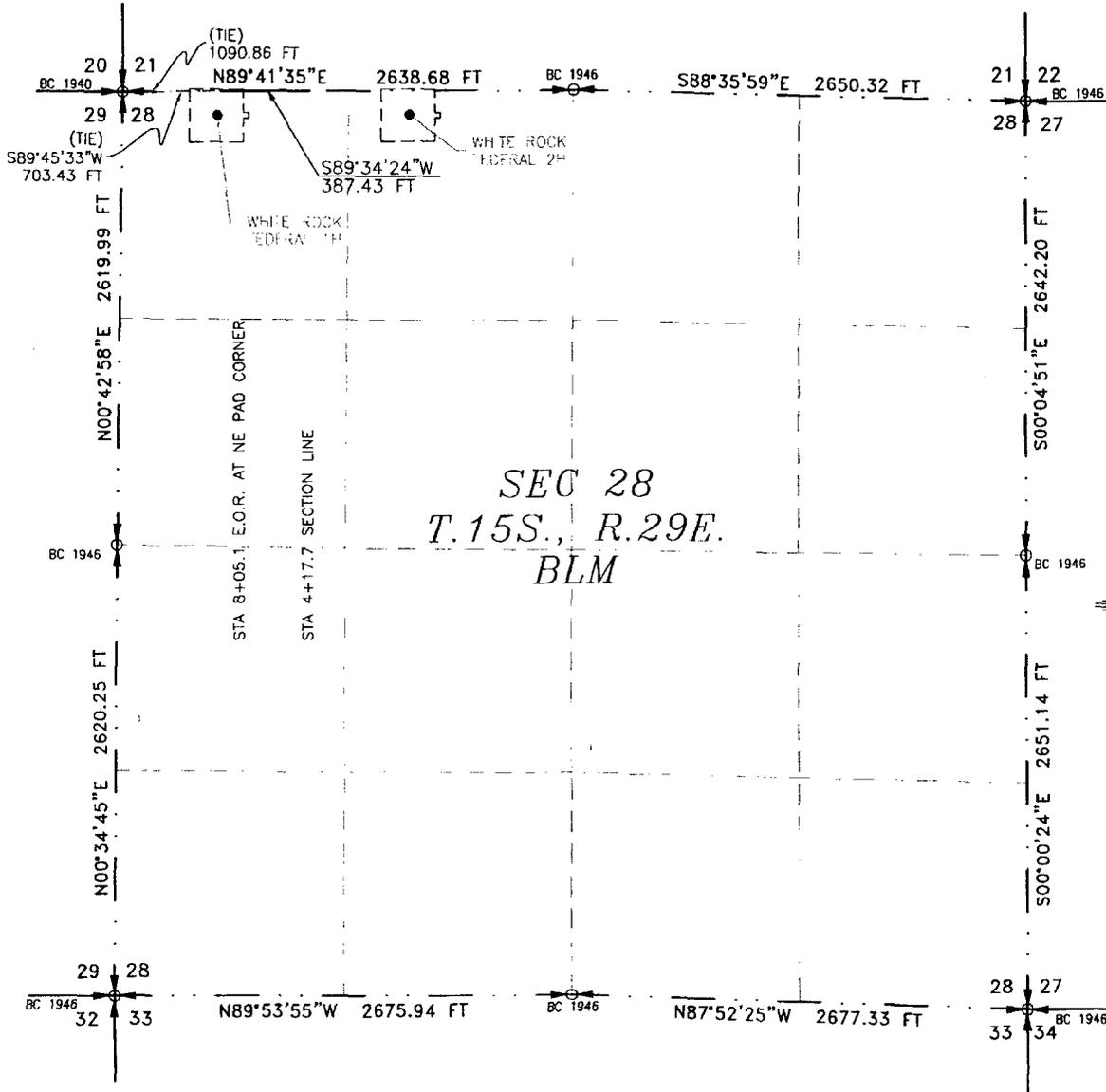
1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-6

ACCESS ROAD PLAT
 ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

MACK ENERGY CORPORATION
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 MAY 17, 2017



SEC 28
 T.15S., R.29E.
 BLM



SEE NEXT SHEET (4-6) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 25 DAY OF MAY 2017

Filimon F. Jaramillo
 FILIMON F. JARAMILLO, PLS. #2787

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SURVEY NO. 5272

SHEET: 3-6

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT

ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

**MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MAY 17, 2017**

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S89°41'35"W, A DISTANCE OF 1090.86 FEET;
THENCE S89°34'24"W A DISTANCE OF 387.43 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S89°45'33"W, A DISTANCE OF 703.43 FEET;

SAID STRIP OF LAND BEING 387.43 FEET OR 23.48 RODS IN LENGTH, CONTAINING 0.178 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 387.43 L.F. 23.48 RODS 0.178 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 25 DAY OF MAY 2017

[Handwritten Signature]
FILIMON F. JARAMILLO (PLS. 12797)

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

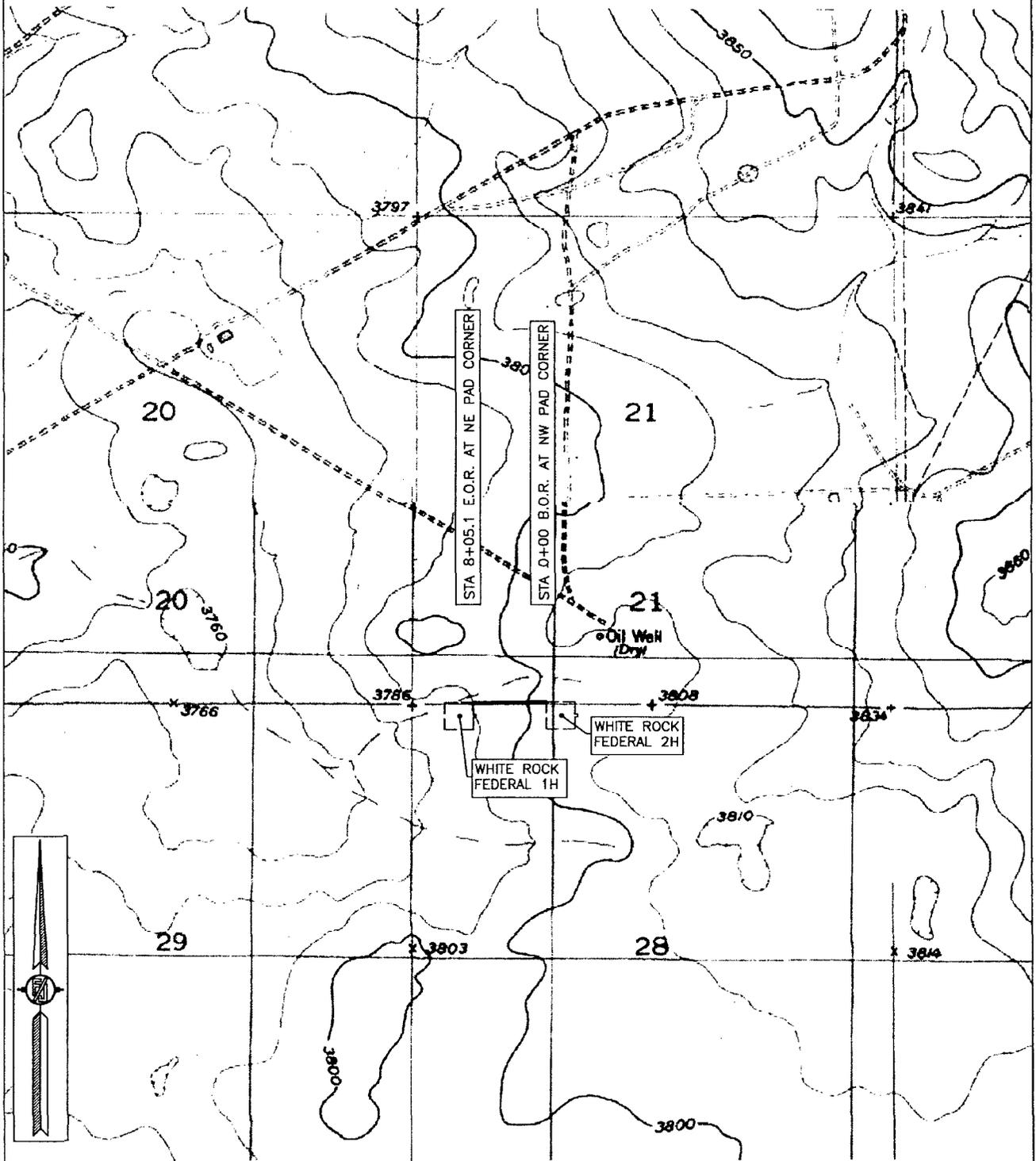
2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-6

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341 SURVEY NO. 5272

ACCESS ROAD PLAT
ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 21, 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MAY 17, 2017



SHEET: 5-6

SURVEY NO. 5272

MADRON SURVEYING, INC. 30° SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FROM THE WHITE ROCK FEDERAL 2H TO THE WHITE ROCK FEDERAL 1H

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 21, 28, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MAY 17, 2017

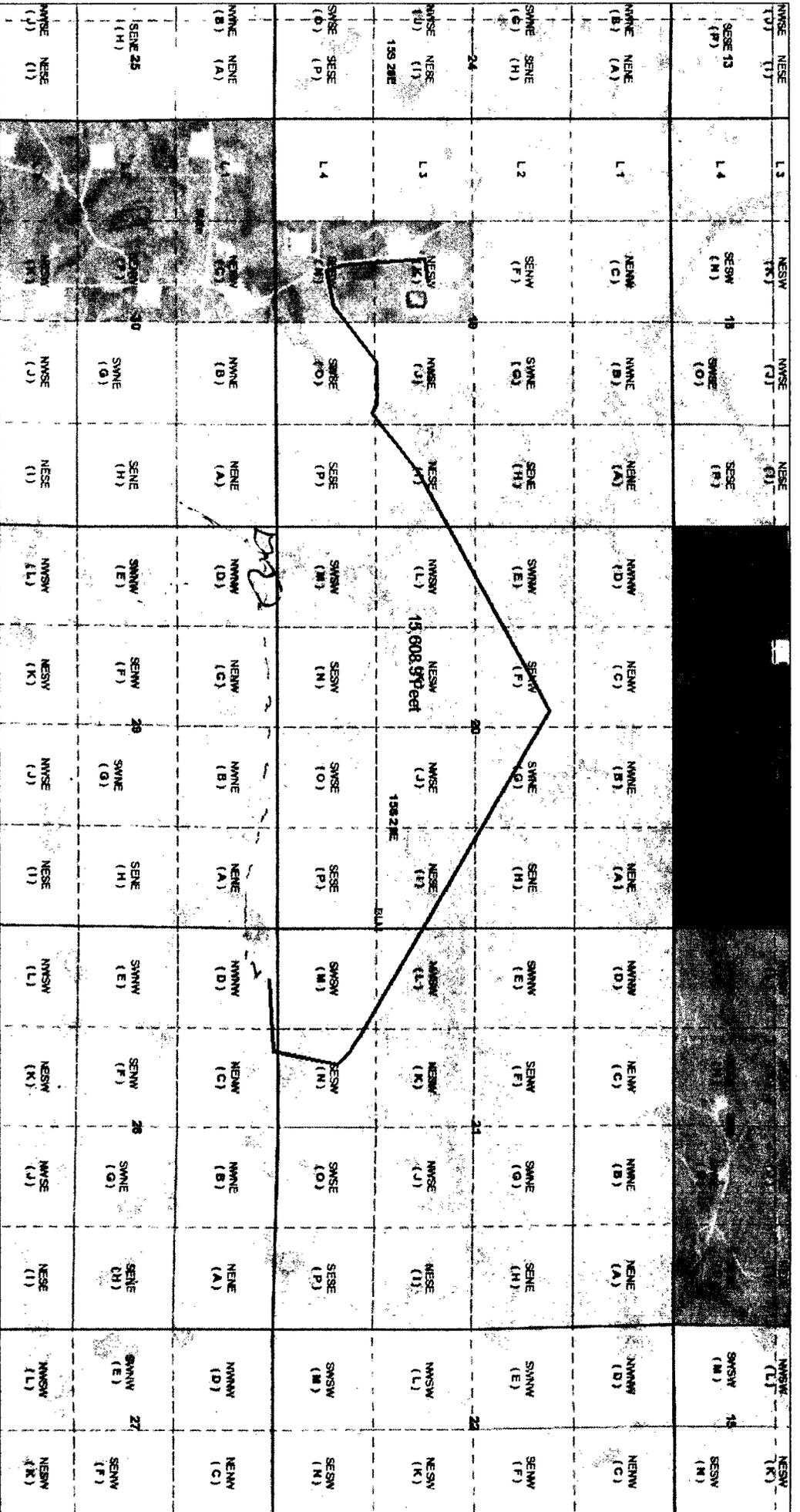


SHEET: 6-6

SURVEY NO. 5272

MADRON SURVEYING, INC. 30' SOUTH CANAL (S75) 234-3341 CARLSBAD, NEW MEXICO

ArcGIS Web Map



October 24, 2017

- Lines**
- Override 1
- Land Ownership**
- BLM
 - FWS
 - USDA
 - SP
 - OCDD District Offices
 - BOR
 - NPS
 - VCNP
 - PLSS Townships
 - DOD
 - P
 - PLSS Second Division
 - DOE
 - S
 - PLSS First Division
 - FS
 - SGF



1:18,056

U.S. BLM
OCDD
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and the GIS user community