30-015-39292

COG OPERATING LLC MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Almost Heroes 1 Federal #4H
SHL: 375' FSL & 375' FWL of Section 1
BHL: 330' FNL & 375' FWL of Section 1
T24S R29E
Eddy County, New Mexico

RECEIVED

AUG 8 2011

NMOCD ARTESIA

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by John West Surveying Company.
- b. Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2. Right of way using this proposed route is being requested if necessary.
- c. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

DIRECTIONS:

From State Hwy 128 and paved CR 798 (Rawhide) go south on Rawhide 4.0 miles where pavement ends and turn right on caliche lease road and go south 1.3 miles turn left and go east 0.8 miles bend right and go south 0.1 miles to the existing (COG) Tommy's Boy Federal #1 well at NE Pad corner follow trail southwest 3072' and location is on the right (NW) 365'.

PLANNED ACCESS ROAD:

2. COG will be using a proposed access road of 161' coming in from the east side of the pad.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. In the event the well is found productive, the Almost Heroes 1 Federal #4H tank battery would be utilized and the necessary production equipment will be installed at the well site. See Exhibit #4.
- B. All flowlines will adhere to API standards

- C. If electricity is needed, power will be obtained from Central Valley Electric. Central Valley Electric will apply for ROW for their power lines.
- D. If the well is productive, rehabilitation plans are as follows:
 - i. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

4. LOCATION AND TYPES OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in Exhibit #2. On occasion, water will be obtained form a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, the existing and proposed road shown in Exhibit "2" will be utilized.

5. CONSTRUCTION MATERIALS:

All Caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

6. METHODS OF HANDLING WASTE MATERIAL:

- a. All trash, junk and other waste material will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- b. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- c. A porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- d. Disposal of fluids to be transported by an approved disposal company.

6. ANCILLARY FACILITIES:

No campsite or other facilities will be constructed as a result of this well.

7. WELLSITE LAYOUT:

- a. Exhibit 1 shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicates proposed location of reserve and sump pits if utilized and living facilities.
- c. Mud pits in the active circulating system will be steel pits and a closed loop system will be utilized.

8. PLANS FOR SURFACE RECLAMATION:

- a. After finishing drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original state.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

9. SURFACE OWNERSHIP:

The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and the surface location will be restored as directed by the BLM.

10.OTHER INFORMATION:

- a. The area surrounding the well site is grassland. The vegetation is moderately sparse with native prairie grass and mesquite bushes. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography. Reserve pit will not be used on this location therefore no reclamation is needed.
- d. Topsoil will be stockpiled on the <u>WEST SIDE</u> of the location until it is needed for interim reclamation described in paragraph above.

12.OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

B. Through Drilling Operations

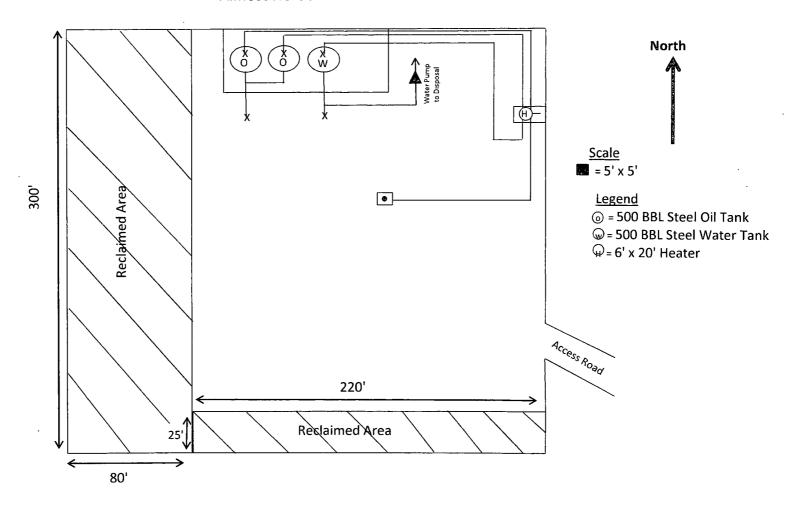
Rand French, Regulatory Supervisor COG Operating LLC Artesia, NM 88210 Phone (575)748-6940 Cell (432) 254-5556 Sheryl Baker, Drilling Supervisor COG Operating LLC Artesia, NM 88210 Phone (575)748-6940 Cell (432)934-7873

COO Operating LLC

2208 West Main Artesia, NM 88210

Production Facility Layout

Almost Heroes 1 Federal #4H



CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by COG Operating LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

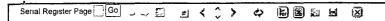
COG OPERATING LLC

Date

5-9-11

Rand French

Regulatory Supervisor





DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION

10 09 AM Run Time

Page 1 of ?

Run Date 05/05/2011

(MASS) Serial Register Page 01 12-22-1987;101STAT1330,30USC181 ET SE

Total Acres

Serial Number NMNM-- - 102912

Case Type 312021: O&G LSE COMP PD -1987*
Commodity 459: OIL & GAS L
Case Disposition AUTHORIZED

399,160

Senal Number: NMNM-- - 102912

Name & Address			Int Rei	% Intere
CHESAPEAKE EXPL LLC	PO BOX 18496	OKLAHOMA CITY OK 731540496	OPERATING RIGHTS	0 0000000
CHEVRON MIDCONTINENT LP	PO BOX 36366	HOUSTON TX 77236	OPERATING RIGHTS	0 0000000
COG OPERATING LLC	550 W TEXAS AVE STE 100	MIDLAND TX 797014287	OPERATING RIGHTS	0 0000000
CONCHO RESOURCES INC	550 W TEXAS AVE STE 1300	MIDLAND TX 797014210	OPERATING RIGHTS	0 0000000
ECHO PROD INC	PO BOX 1210	GRAHAM TX 76450	LESSEE	100 0000000
LATIGO PETROLEUM INC	15 W 6TH ST #1100	TULSA OK 74119	OPERATING RIGHTS	0 0000000
MARBOS ENERGY CORP	PO BOX 227	ARTESIA NM 882110227	OPERATING RIGHTS	0 0000000
OXY USA INC	5 GREENWAY PLZ #110	HOUSTON TX 770460521	OPERATING RIGHTS	0 0000000
TALUS INC	PO BOX 1210	GRAHAM TX 76450	OPERATING RIGHTS	0.0000000
THE ALLAR CO	PO BOX 1567	GRAHAM TX 76450	OPERATING RIGHTS	0 0000000
TWIN MONTANA INC	PO BOX 1210	GRAHAM TX 76450	OPERATING RIGHTS	0.0000000

Serial Number: NMNM-- - 102912

Mer Twp Rng Sec	STyp SNr Su	ff Subdivision	District/Field Office	County	Mgmt Agency	
23 0240S 0290E 001	ALIQ	SWNE, S2NW SW,	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT	1 0290E
23 0240S 0290E 001	LOTS	2,3,4	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT	1 0290E

Serial Number NMNM-- - 102912

	001111111111111111111111111111111111111						
Act Date	Code	Action	Action Remar	Pending Offic			
04/20/1999	387	CASE ESTABLISHED	9904086		1999	04	20
04/21/1999	191	SALE HELD			1999	04	21
04/21/1999	267	BID RECEIVED	\$36000 00,		1999	04	21
04/21/1999	392	MONIES RECEIVED	\$36000 00,		1999	04	21
05/14/1999	237	LEASE ISSUED			1999	05	14
05/14/1999	974	AUTOMATED RECORD VERIF	GSB		1999	05	14
06/01/1999	496	FUND CODE	05,145003		1999	06	01
06/01/1999	530	RLTY RATE - 12 1/2%			1999	06	01
06/01/1999	868	EFFECTIVE DATE			1999	06	01
06/02/1999	084	RENTAL RECEIVED BY MMS	\$600 00,11/MULTIPLE		1999	06	02
08/23/1999	963	CASE MICROFILMED			1999	08	23
08/24/1999	899	TRF OF ORR FILED			1999	80	24
11/12/1999	932	TRF OPER RGTS FILED	ECHO PROD/KUKUI INC		1999	11	12
12/28/1999	933	TRF OPER RGTS APPROVED	EFF 12/01/99,		1999	12	2.8
12/28/1999	974	AUTOMATED RECORD VERIF	JLV		1999	12	28
04/10/2000	084	RENTAL RECEIVED BY MMS	\$600 00,21/408		2000	04	10
04/17/2001	084	RENTAL RECEIVED BY MMS	\$600 00,21/418		2001	04	17
04/30/2003	817	MERGER RECOGNIZED	KUKUI INC/ANIMAS ENE		2003	04	30
06/27/2003	932	TRF OPER RGTS FILED	ANIMAS/SAGA,		2003	06	27
07/30/2003	933	TRF OPER RGTS APPROVED	EFF 07/01/03,		2003	07	30
07/30/2003	974	AUTOMATED RECORD VERIF	MV		2003	07	30
08/15/2003	932	TRF OPER RGTS FILED	ALLAR CO/CHESAPEAKE		2003	08	15
08/15/2003	932	TRF OPER RGTS FILED	TALUS INC/CHESAPEAKE		2003	0.8	15
08/15/2003	932	TRF OPER RGTS FILED	TWIN MONTANA/CHESAPE	Λ.	2003	0.8	15
09/23/2003	933	TRF OPER RGTS APPROVED	01EFF 09/01/03,		2003	09	23
09/23/2003	933	TRF OPER RGTS APPROVED	02EFF 09/01/03,		2003	09	23
09/23/2003	933	TRF OPER RGTS APPROVED	03EFF 09/01/03,		2003	09	23
09/23/2003	974	AUTOMATED RECORD VERIF	LR		2003	09	

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

Land Status Energy Sites Roads Mining Range Land

Sec 368 Energy Corridors | Energy Potential Areas | Stipulations | OG Density | Coal | Geothermal | Fast Track ROW | Wind | Solar | Cases | PLSS | Regulated Uses | Surface Management | Subsurface | Boundaries Land Status | Plats

Identify Source: Selected Sketch

🏶 Oil and Gas Leases Producing: 1 result 🗔

More Info Lease Name Stored Acreage Serial No. (Full) Geometry Reports Case Typ O&G LSE COMP PD -LR2000 CR Report More Info 399.160 NMNM 102912

P Oil and Gas Leases (Closed): 3 results

More Info Lease Name Stored Acreage Serial No. (Full) Geometry Reports Case T LR2000 CR Report More Info O&G LSE COMP P 399.160 NMNM 065400 LR2000 CR Report More Info **O&G LSE SIMO PUBL** 559.160 NMNM 019436 💢 🔟 LR2000 CR Report More Info O&G LSE COMP PD 399.160 NMNM 086903

The following tables returned no data and were not displayed: O&G Lease Sale Parcels Oil and Gas Agreements Oil and Gas Agreements (Closed) Oil and Gas Leases Non Producing Oil and Gas Hydrocarbon Leases Oil Shale Leases Oil Shale Leases (Closed)





DISCLAIMER: Information presented on this website is considered public information and may be distributed or copied. Use of appropriate byline/photo/image credit is requested. We strongly recommend that USDOI data be acquired directly from a USDOI server and not through other sources that may change the data in some way. While USDOI makes every effort to provide accurate and complete information, various data such as names, telephone numbers, etc. may change prior to updating. USDOI welcomes suggestions on how to improve our home page and correct errors. USDOI provides no warranty, expressed or implied, as to the accuracy, reliability or completeness of furnished data. Some of the documents on this server may contain live references (or pointers) to information created and maintained by other organizations. Please note that USDOI does not control and cannot guarantee the relevance, timeliness, or accuracy of these outside materials.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 1

Township: 24S

Range: 29E

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP

TWO TRACK ROATH

ALMOST HEROES "1" FEDERAL #4H



CONTOUR INTERVAL: REMUDA BASIN PIERCE CANYON NOT TO SCALE

COG OPERATING, LLC

ALMOST HEROES "1" FEDERAL #4H

LOCATED 375 FT. FROM THE SOUTH LINE

AND 375 FT. FROM THE WEST LINE OF

SECTION 1, TOWNSHIP 24 SOUTH,

RANGE 29 EAST, N.M.P.M.

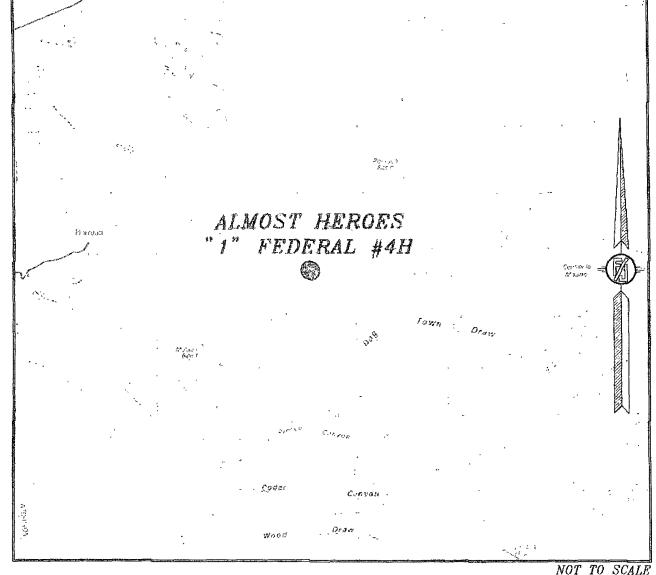
EDDY COUNTY, STATE OF NEW MEXICO

MAY 5, 2011

SURVEY NO. 457

MADRON SURVEYING, INC. 1815 SOUTH CARLSBAD, NEW MEXICO



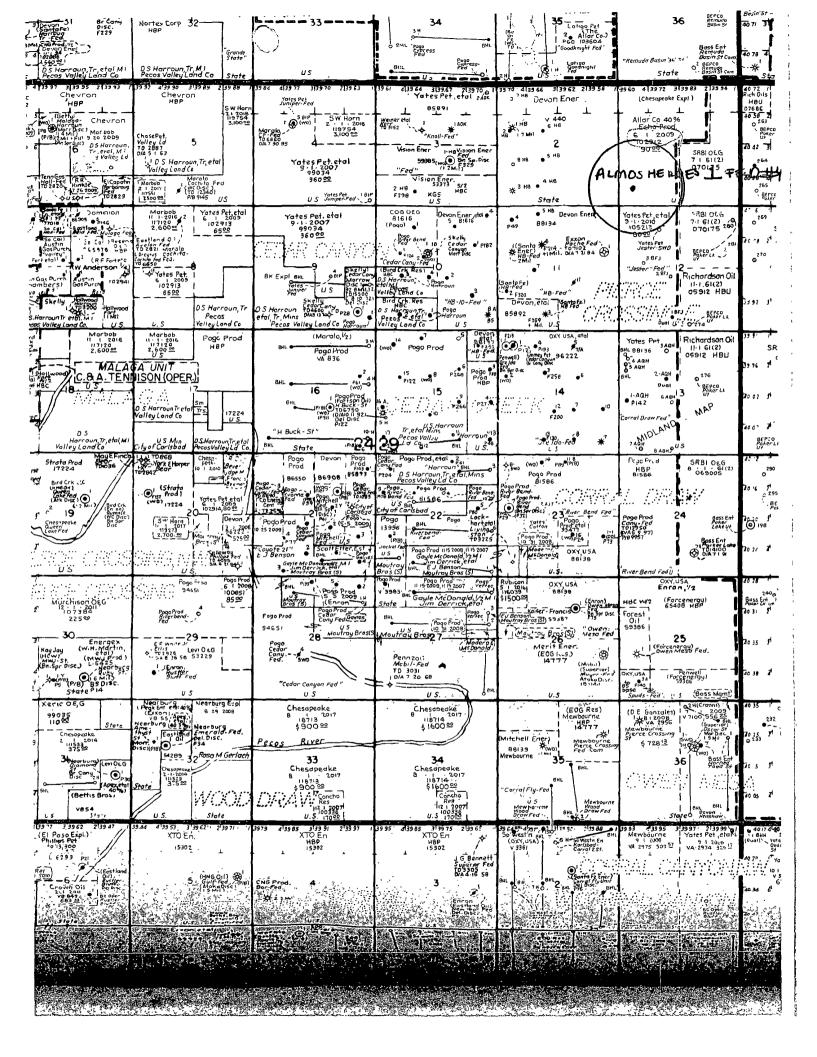


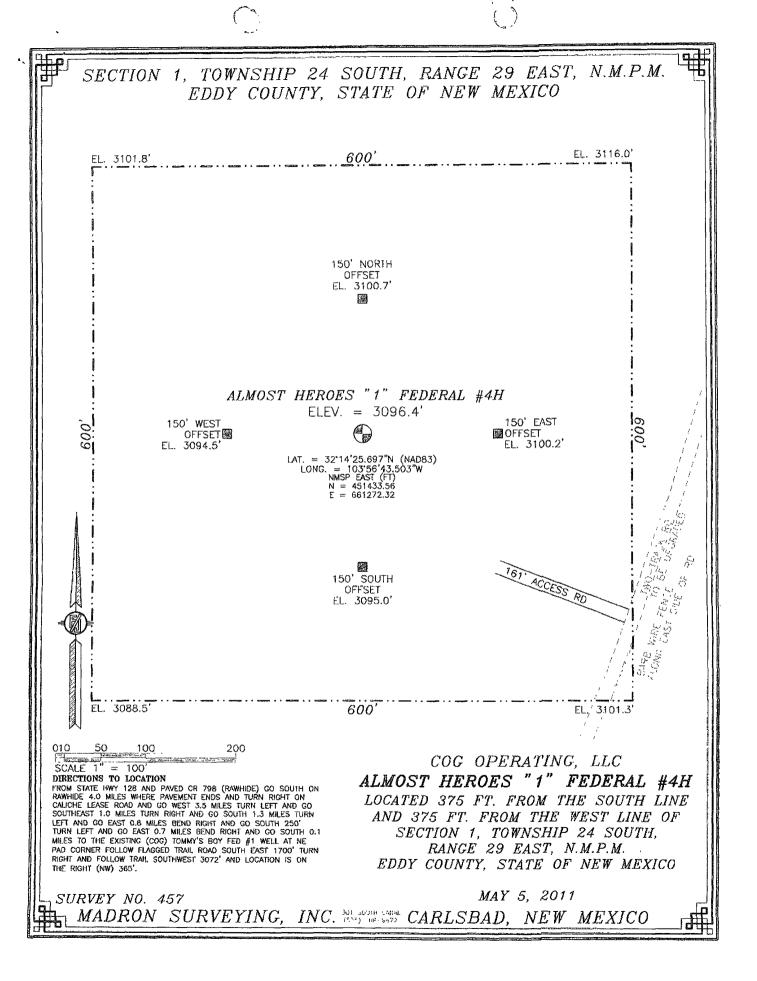
COG OPERATING, LLC ALMOST HEROES "1" FEDERAL #4H LOCATED 375 FT. FROM THE SOUTH LINE AND 375 FT. FROM THE WEST LINE OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

MAY 5, 2011

SURVEY NO. 457

MADRON SURVEYING, INC. 10 CARLSBAD, NEW MEXICO





SECTION 1, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH USDA - AUG, 2009

COG OPERATING, LLC

ALMOST HEROES "1" FEDERAL #4H

LOCATED 375 FT. FROM THE SOUTH LINE
AND 375 FT. FROM THE WEST LINE OF

SECTION 1, TOWNSHIP 24 SOUTH,

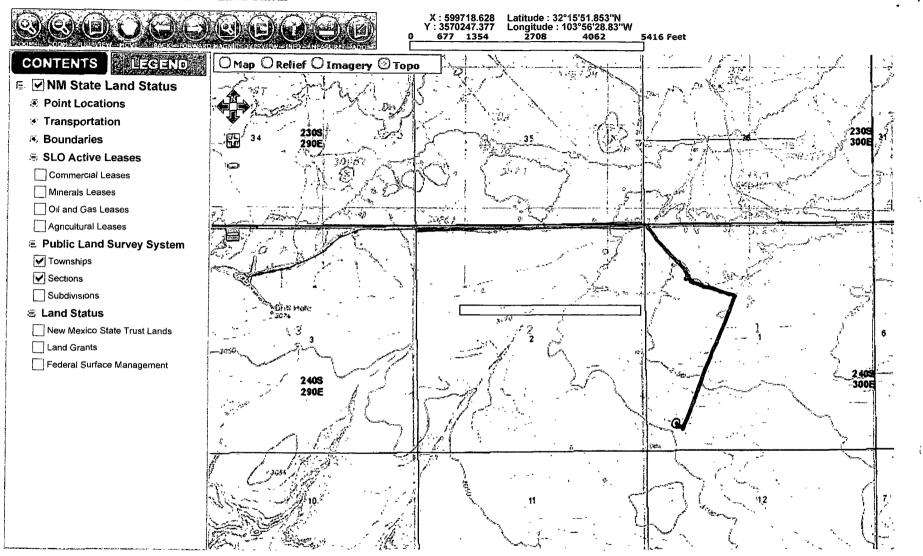
RANGE 29 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 457

MAY 5, 2011

MADRON SURVEYING, INC. 15, SOLITE C WALL CARLSBAD, NEW MEXICO



Site Credits | Disclaimer | Contact Us | Employee Lookup | Affiliated Websites

002	001		
a 4FlaAlmostil-	leroes (a Fiederal)		
	Access Road		
	UESIIERISWU #004 A が は は は は は は は は は は は は は	UESTERSWD #004	
014.	.012		
	NJESTER BFJ FEBERAL#003		
	SEQUENDE STEEDERAL #U03.		