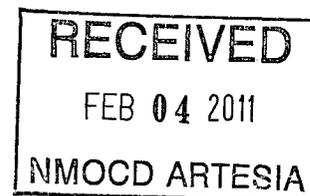


Hydrogen Sulfide Drilling Operations Plan  
**Burton 6 Federal No. 2**  
Cimarex Energy Co. of Colorado  
Unit C, Section 6  
T20S-R30E, Eddy County, NM

30-015-38486

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
  
- 2 H<sub>2</sub>S Detection and Alarm Systems:
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
  
- 3 Windsock and/or wind streamers:
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  
- 4 Condition Flags and Signs:
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H<sub>2</sub>S present in dangerous concentration). Only emergency personnel admitted to location.
  
- 5 Well control equipment:
  - A. See exhibit "E"
  
- 6 Communication:
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
  
- 7 Drillstem Testing:

No DSTs or cores are planned at this time.
  
- 8 Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
  
- 9 If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H<sub>2</sub>S scavengers if necessary.



H<sub>2</sub>S Contingency Plan  
**Burton 6 Federal No. 2**  
Cimarex Energy Co. of Colorado  
Unit C, Section 6  
T20S-R30E, Eddy County, NM

**Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must:

- ★ Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- ★ Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- ★ Use the "buddy system" to ensure no injuries occur during the response.
- ★ Take precautions to avoid personal injury during this operation.
- ★ Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- ★ Have received training in the:
  - ◆ Detection of H<sub>2</sub>S, and
  - ◆ Measures for protection against the gas,
  - ◆ Equipment used for protection and emergency response.

**Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

**Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air=1	2 ppm	N/A	1000 ppm

**Contacting Authorities**

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H<sub>2</sub>S Contingency Plan Emergency Contacts

**Burton 6 Federal No. 2**

Cimarex Energy Co. of Colorado

Unit C, Section 6

T20S-R30E, Eddy County, NM

**Company Office**

Cimarex Energy Co. of Colorado 800-969-4789

Co. Office and After-Hours Menu

**Key Personnel**

<b>Name</b>	<b>Title</b>	<b>Office</b>	<b>Mobile</b>
Doug Park	Drilling Manager	432-620-1934	972-333-1407
Dee Smith	Drilling Super	432-620-1933	972-882-1010
Jim Evans	Drilling Super	432-620-1929	972-465-0564
Roy Shirley	Field Super		432-634-2136

**Artesia**

Ambulance 911

State Police 575-746-2703

City Police 575-746-2703

Sheriff's Office 575-746-9888

**Fire Department 575-746-2701**

Local Emergency Planning Committee 575-746-2122

New Mexico Oil Conservation Division 575-748-1283

**Carlsbad**

Ambulance 911

State Police 575-885-3137

City Police 575-885-2111

Sheriff's Office 575-887-7551

**Fire Department 575-887-3798**

Local Emergency Planning Committee 575-887-6544

US Bureau of Land Management 575-887-6544

**Santa Fe**

New Mexico Emergency Response Commission (Santa Fe) 505-476-9600

New Mexico Emergency Response Commission (Santa Fe) 24 Hrs 505-827-9126

New Mexico State Emergency Operations Center 505-476-9635

**National**

National Emergency Response Center (Washington, D.C.) 800-424-8802

**Medical**

Flight for Life - 4000 24th St.; Lubbock, TX 806-743-9911

Aerocare - R3, Box 49F; Lubbock, TX 806-747-8923

Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM 505-842-4433

SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM 505-842-4949

**Other**

Boots & Coots IWC 800-256-9688 or 281-931-8884

Cudd Pressure Control 432-699-0139 or 432-563-3356

Halliburton 575-746-2757

B.J. Services 575-746-3569

# Cactus 115

Exhibit D – Rig Diagram  
Burton 6 Federal No. 2  
Cimarex Energy Co. of Colorado  
6-20S-30E  
SHL 475 FNL & 1500 FWL  
BHL 330 FSL & 1980 FWL  
Eddy County, NM

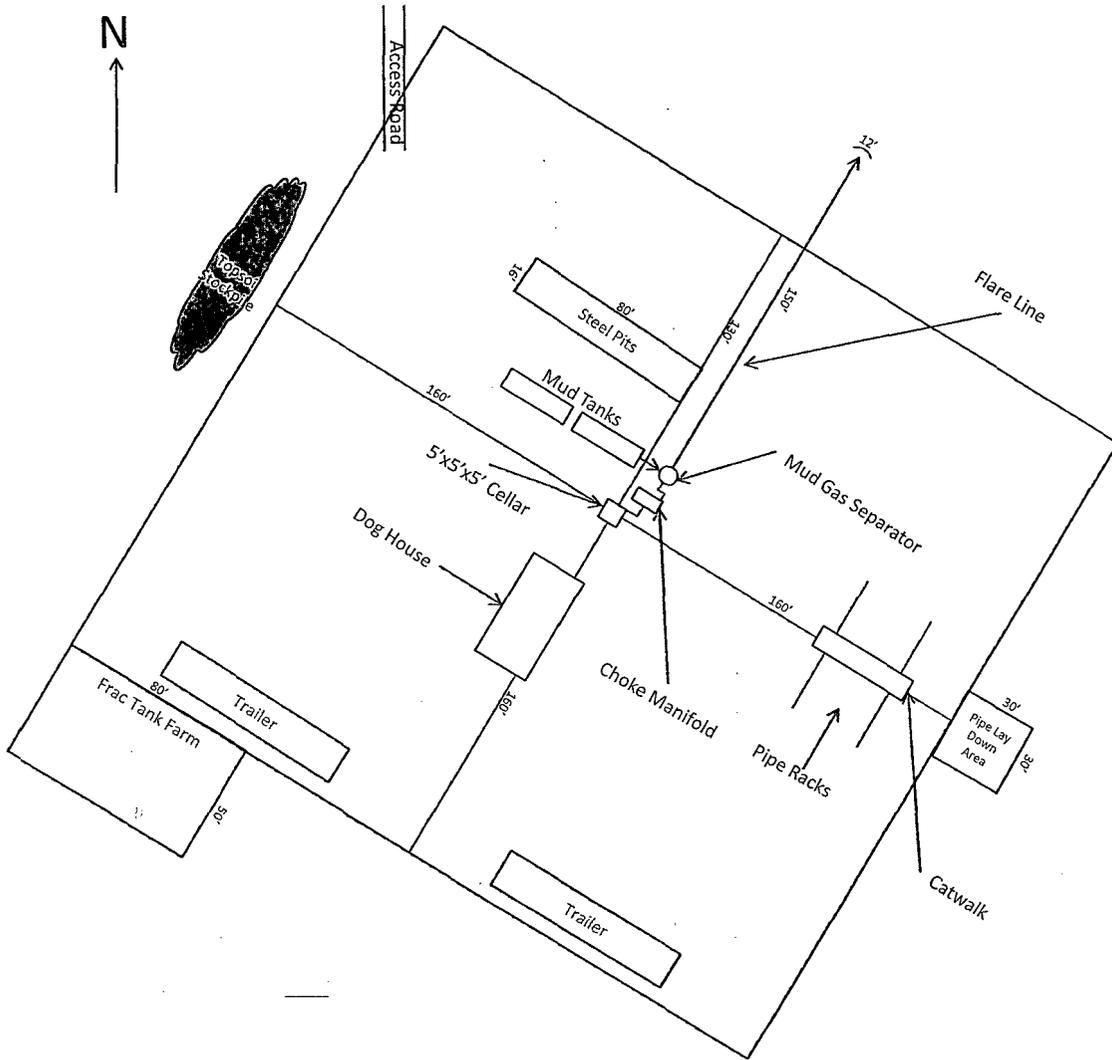
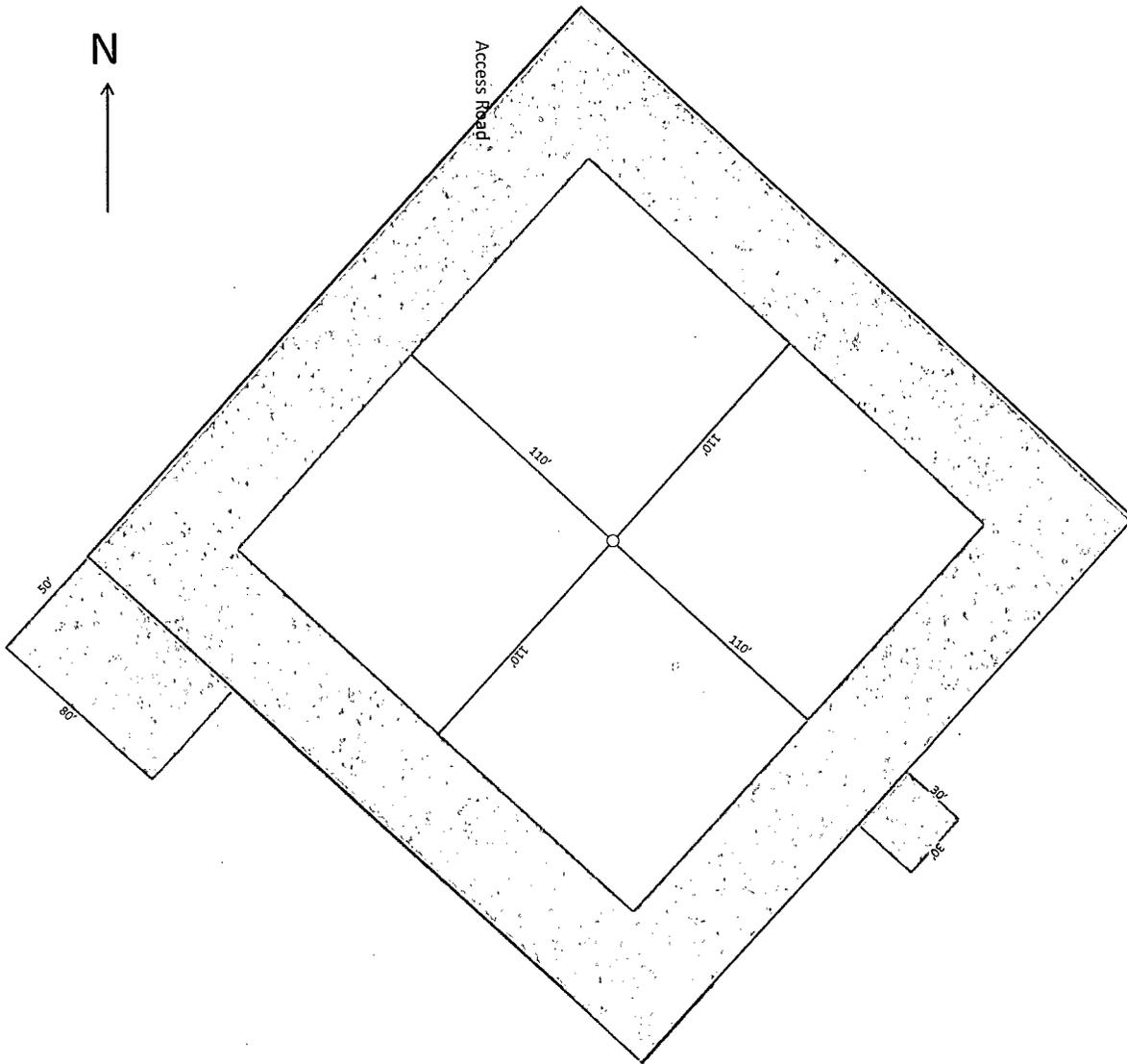
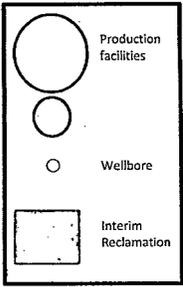


Exhibit D-1  
Production Facilities Layout Diagram  
Burton 6 Federal No. 2  
Cimarex Energy Co. of Colorado  
6-205-30E  
SHL 475 FNL & 1500 FWL  
BHL 330 FSL & 1980 FWL  
Eddy County, NM



Surface Use Plan  
Burton 6 Federal No. 2  
Cimarex Energy Co. of Colorado  
6-20S-30E  
Eddy County, NM

1. Existing Roads: Area maps, Exhibit "A" shows the proposed well site as staked. Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, and Exhibit "C-1" is a well site layout map, showing existing roads and proposed reconstructed and new road to location. Existing roads will be maintained in a condition equal to or better than existing conditions.
  - A. The maximum width of the driving surface will be 14.' The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The driving surface will be made of 6" rolled and compacted caliche. The lead-off ditches will be 1' deep with 1% minimum to 3% maximum slopes to drain water. Ditches will be place according to BLM formulaa for lead-off ditch intervals. A minimum 18" tin-horn will be placed under the reconstructed road at the small draw as shown on Exhibit C-1.
  - B. Driving Directions: From the junction of Hwy 360 and Curry Comb, go West on Curry Comb for 3.8 miles to lease road. On lease road, go South 0.6 miles turning West for 0.1 miles, turning South again for 0.8 miles, thence East 0.8 miles, thence South 0.3 miles, thence East 0.1 miles to proposed lease road.
2. Planned Reconstructed or New Access Roads: 879.9' of reconstructed on-lease access road and 276.4' of new on lease road as shown on Exhibit "C-2" is proposed from our Burton 6 Federal No. 1 well in NW/4NW/4 to our proposed well site.
3. Planned Electric Lines: A 3 phase, 3 wire, 300' span power line with 4 40' poles built to BLM Raptor specs. Line will follow access road from the Burton 6 Fed #1 to the #2 well pad.
4. Location of Existing Wells in a One-Mile Radius - Exhibit A
  - A. Water wells - None known
  - B. Disposal wells - None known
  - C. Drilling wells - None known
  - D. Producing wells - As shown on Exhibits "A" and "A-1"
  - E. Abandoned wells - As shown on Exhibits "A" and "A-1"
5. Location of Proposed Production Facilities:

If on completion this well is a producer, 4" SDR-7 poly pipe will be laid along proposed new and reconstructed lease road from the # 2 well to the # 1 tank battery to carry oil, gas, and water to the # 1 tank battery. See production facilities layout diagram. Any changes to the facilities or off-site facilities will be accompanied by a Sundry Notice.
6. Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads.
7. Source of Construction Material:

If possible, native caliche will be obtained from the excavation of drill site. Topsoil will be pushed back from the drill site and existing caliche will be ripped and compacted. Then topsoil will be stockpiled on location as depicted on Exhibit "D" (rig layout). If additional material is needed, it will be purchased from a BLM-approved pit as near as possible to the well

Surface Use Plan  
Burton 6 Federal No. 2  
Cimarex Energy Co. of Colorado  
6-20S-30E  
Eddy County, NM

8. Methods of Handling Waste Material:

- A. Drill cuttings will be separated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically and hauled to a waste disposal facility. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

9. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

10. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- C. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- D. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- E. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

11. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recontoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements. Please see Production Facilities Layout Diagram, exhibit D-1.

12. Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An arch report has been ordered and will be delivered to the Carlsbad BLM office when complete.
- D. There are no known dwellings within 1½ miles of this location.

Operator Certification Statement  
**Burton 6 Federal No. 2**  
Cimarex Energy Co. of Colorado  
Unit D, Section 6  
T20S-R30E, Eddy County, NM

Operator's Representative

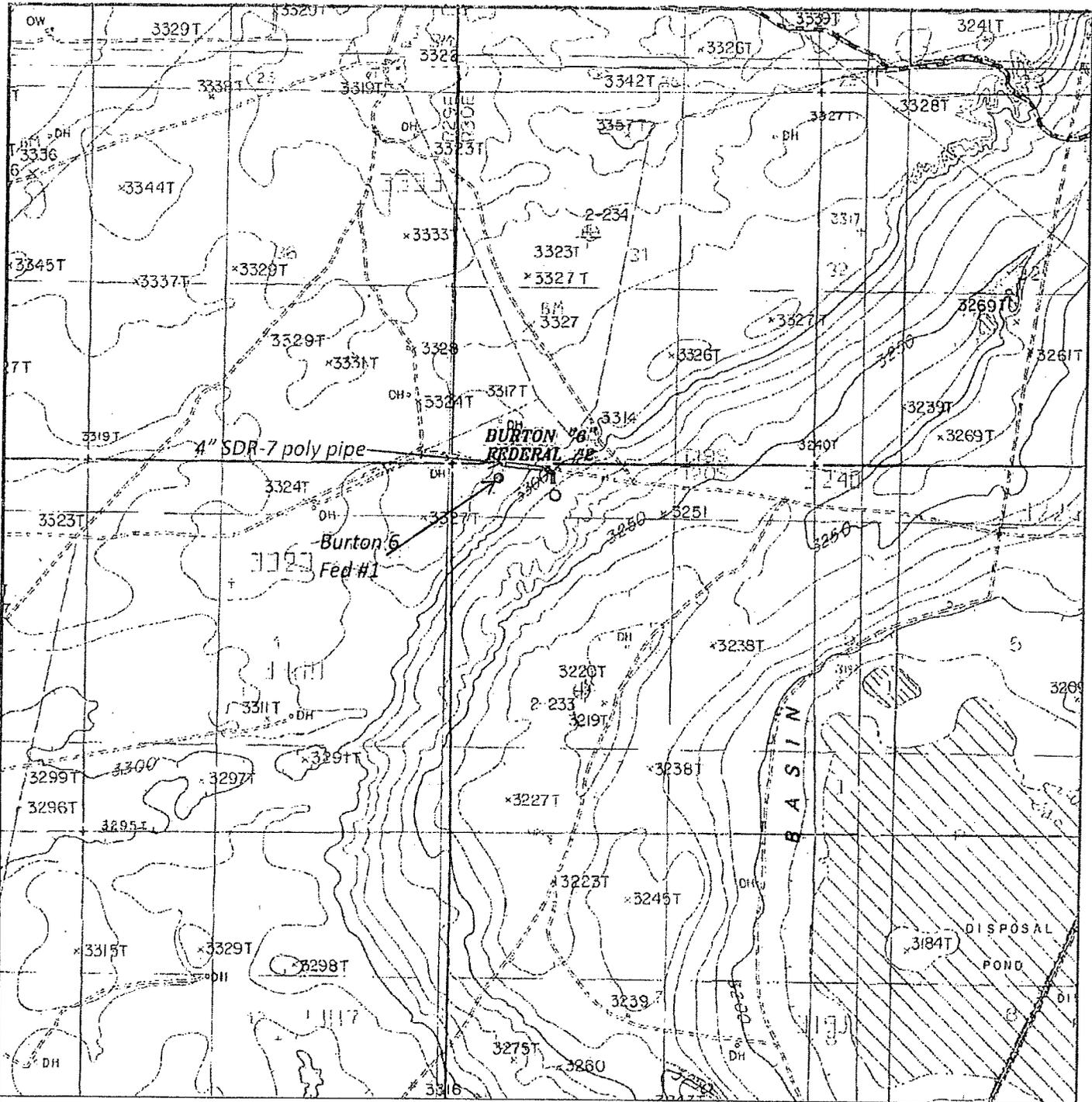
Cimarex Energy Co. of Colorado  
600 N. Marienfeld St., Ste. 600  
Midland, TX 79701  
Office Phone: (432) 571-7800  
Zeno Farris

**CERTIFICATION:** I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 23rd day of September, 2010

NAME: Zeno Farris  
Zeno Farris

TITLE: Manager Operations Administration



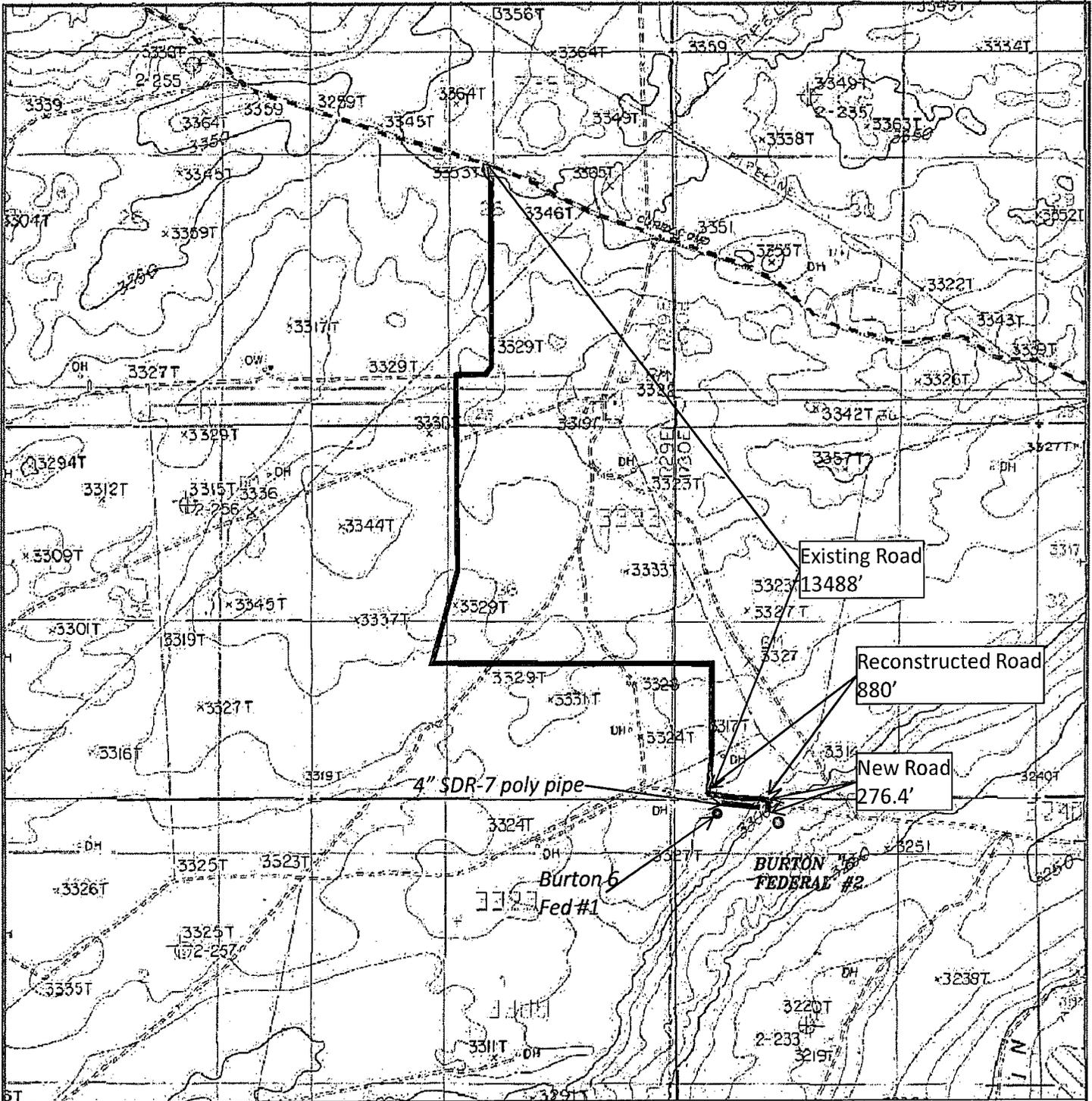
**BURTON "6" FEDERAL #2**  
 Located 475' FNL and 1500' FWL  
 Section 6, Township 20 South, Range 30 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin surveys**  
 focused on excellence in the oilfield

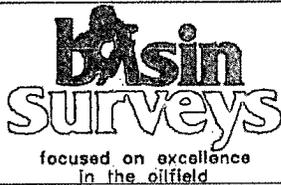
P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basin-surveys.com

W.O. Number: JMS 23084
Survey Date: 07-15-2010
Scale: 1" = 2000'
Date: 08-06-2010

**CIMAREX ENERGY CO. OF COLORADO**



**BURTON "6" FEDERAL #2**  
 Section 6, Township 20 South, Range 30 East,  
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

W.O. Number: JMS 22730

Survey Date: 05-05-2010

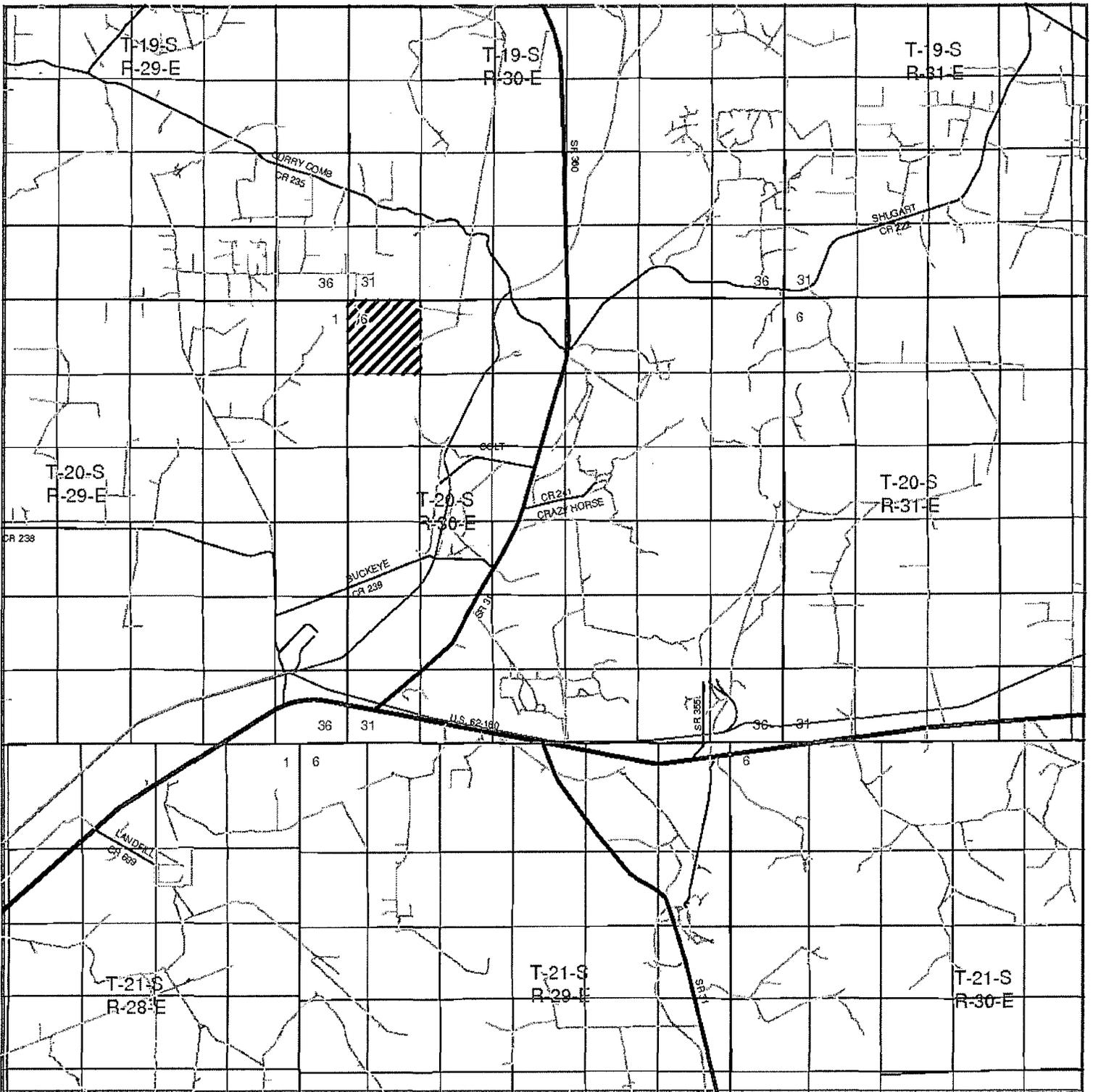
Scale: 1" = 2000'

Date: 05-06-2010

**CIMAREX  
 ENERGY CO.  
 OF COLORADO**

Exhibit C





**BURTON "6" FEDERAL #2**  
 Located 375' FNL and 1500' FWL  
 Section 6, Township 20 South, Range 30 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

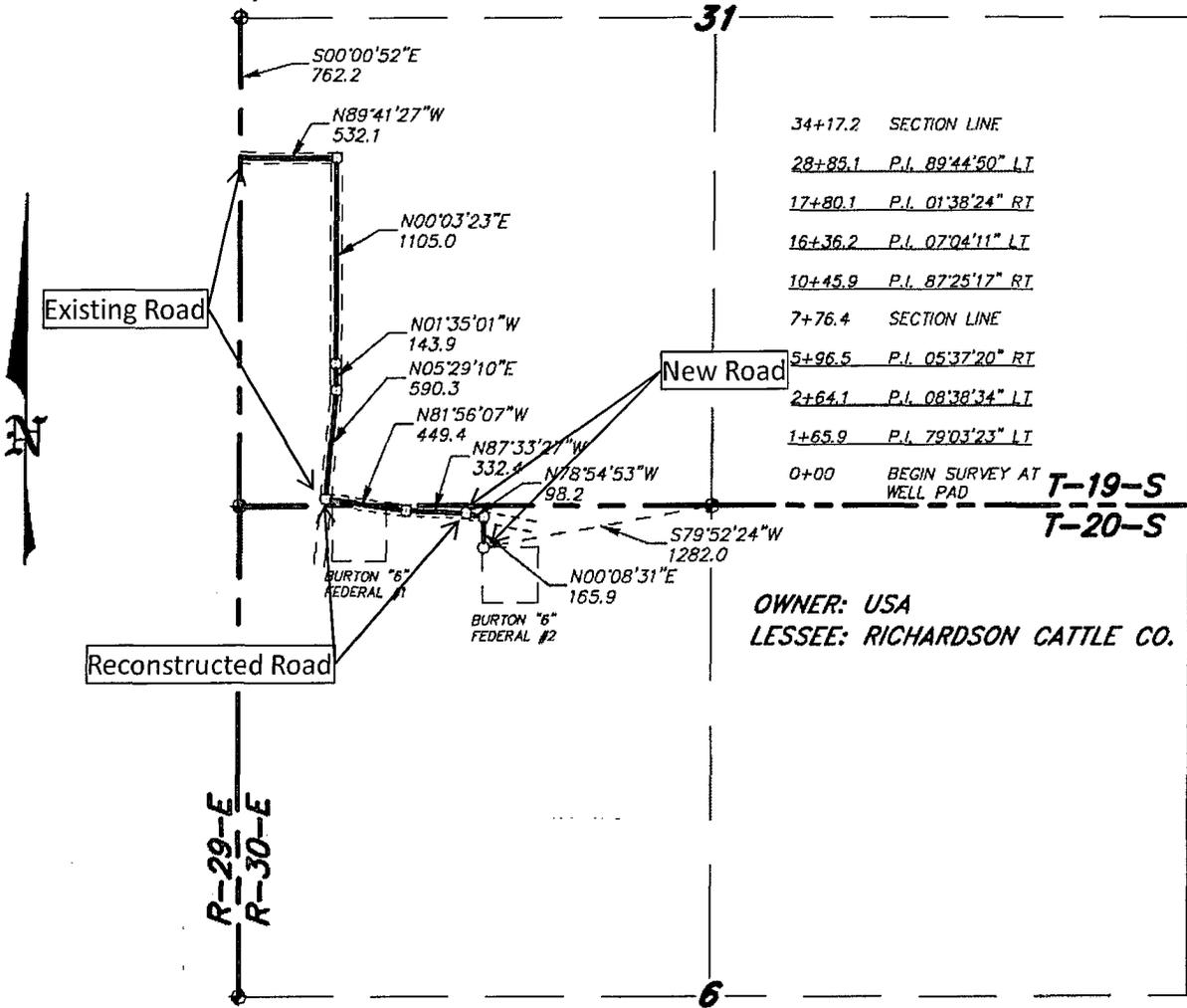
P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basin-surveys.com

W.O. Number: JMS 22731
Survey Date: 05-05-2010
Scale: 1" = 2 Miles
Date: 05-06-2010

**CIMAREX**  
**ENERGY CO.**  
**OF COLORADO**

Exhibit B

**SECTION 6, TOWNSHIP 20 SOUTH, RANGE 30 EAST, N.M.P.M.,  
SECTION 31, TOWNSHIP 19 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.**



34+17.2 SECTION LINE  
 28+85.1 P.I. 89°44'50" LT  
 17+80.1 P.I. 01°38'24" RT  
 16+36.2 P.I. 07°04'11" LT  
 10+45.9 P.I. 87°25'17" RT  
 7+76.4 SECTION LINE  
 5+96.5 P.I. 05°37'20" RT  
 2+64.1 P.I. 08°38'34" LT  
 1+65.9 P.I. 79°03'23" LT  
 0+00 BEGIN SURVEY AT WELL PAD

**OWNER: USA  
 LESSEE: RICHARDSON CATTLE CO.**

**LEGAL DESCRIPTION**

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 6, TOWNSHIP 20 SOUTH, RANGE 30 EAST, AND SECTION 31, TOWNSHIP 19 SOUTH, RANGE 30 EAST N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 6 = 776.4 FEET = 47.05 RODS = 0.15 MILES = 0.53 ACRES  
 SECTION 31 = 2640.8 FEET = 160.05 RODS = 0.50 MILES = 1.82 ACRES  
 TOTAL = 3417.2 FEET = 207.10 RODS = 0.65 MILES = 2.35 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

**GARY L. JONES**  
 TEXAS L.S.  
 No. 7977  
 No. 5074



**CIMAREX ENERGY COMPANY OF COLORADO**

REF: PROPOSED LEASE ROAD TO THE BURTON 6 FEDERAL WELLS

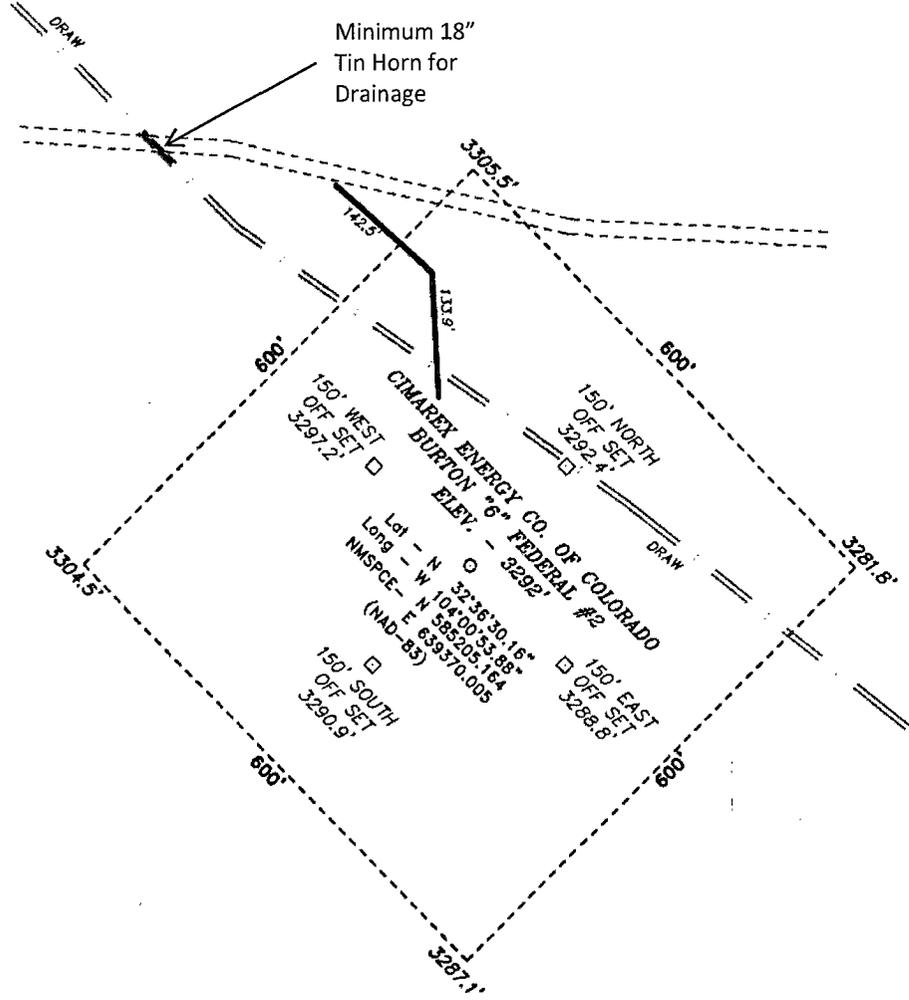
A LEASE ROAD CROSSING USA LAND IN

SECTION 6, TOWNSHIP 20 SOUTH, RANGE 30 EAST,  
 SECTION 31, TOWNSHIP 19 SOUTH, RANGE 30 EAST,  
 N.M.P.M., EDDY COUNTY, NEW MEXICO.

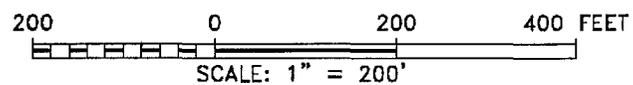
**BASIN SURVEYS** P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 22731 Drawn By: J. M. SMALL  
 Date: 07-13-2010 Disk: JMS 22731 Survey Date: 05-05-2010 Sheet 1 of 3 Sheets

SECTION 6, TOWNSHIP 20 SOUTH, RANGE 30 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO.



Minimum 18"  
 Tin Horn for  
 Drainage



Directions to Location:

FROM THE JUNCTION OF HWY 360 AND CURRY  
 COMB, GO WEST ON CURRY COMB FOR 3.8 MILES  
 TO LEASE ROAD, ON LEASE ROAD GO SOUTH 0.6  
 MILES TURNING WEST FOR 0.1 MILES, TURNING  
 SOUTH AGAIN FOR 0.8 MILES, THENCE EAST 0.8  
 MILES, THENCE SOUTH 0.3 MILES, THENCE EAST 0.1  
 MILES TO PROPOSED LEASE ROAD.

**CIMAREX ENERGY CO. OF COLORADO**

REF: BURTON "6" FEDERAL #2 / WELL PAD TOPO

THE BURTON "6" FEDERAL #2 LOCATED 475'  
 FROM THE NORTH LINE AND 1500' FROM THE <sup>WEST</sup> ~~EAST~~ LINE OF

SECTION 6, TOWNSHIP 20 SOUTH, RANGE 30 EAST,

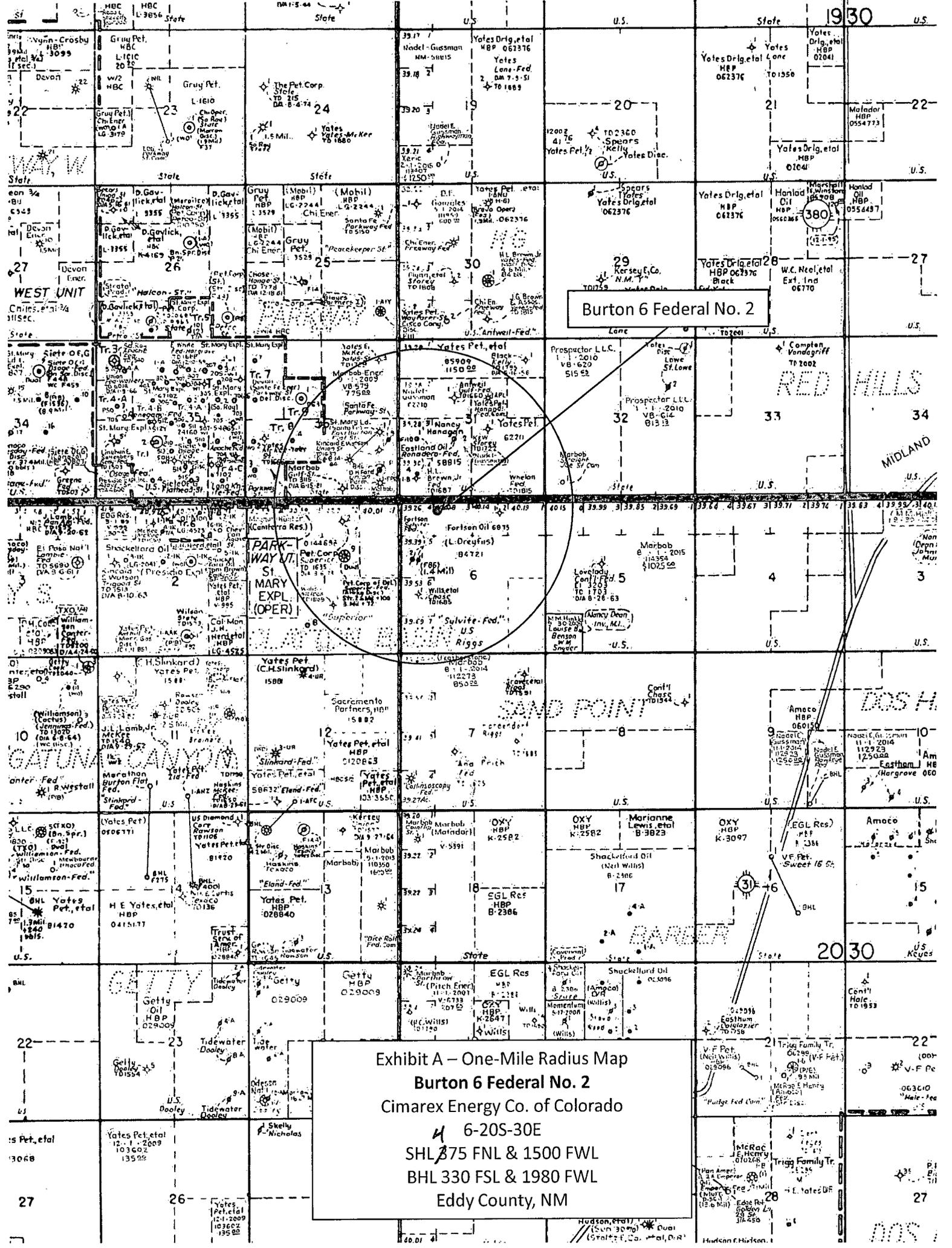
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**BASIN SURVEYS** P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 23084 Drawn By: J. SMALL

Date: 08-06-2010 Disk: JMS 23084

Survey Date: 07-15-2010 Sheet 1 of 1 Sheets



Burton 6 Federal No. 2

Exhibit A - One-Mile Radius Map  
 Burton 6 Federal No. 2  
 Cimarex Energy Co. of Colorado  
 6-20S-30E  
 SHL 375 FNL & 1500 FWL  
 BHL 330 FSL & 1980 FWL  
 Eddy County, NM

Trigg Family Tr.  
 (V.F. Fed.)  
 063610  
 Hale - Fed  
 063610  
 MCRAC  
 E. Henry  
 070268  
 Trigg Family Tr.  
 063610  
 V.F. Fed.  
 063610  
 Hale - Fed  
 063610

DOSH