

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 100586
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Cimarex Energy Co.		7. If Unit or CA Agreement, Name and No.
3a. Address 15 E 5th, Ste 1000 Tulsa, OK 74103		8. Lease Name and Well No. Wagon Wheel "24" Federal #1
3b. Phone No. (include area code) 918-585-1100		9. API Well No. 30-015-33549
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface Sec 24-22S-22E; 1163' FNL & 1482' FWL, Eddy County At proposed prod. zone Same		10. Field and Pool, or Exploratory Undes. Indian Basin: Mooreau, 56
14. Distance in miles and direction from nearest town or post office* Approx 34 miles Southwest of Carlsbad, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 24-22S-22E NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1163'	16. No. of acres in lease 1600	17. Spacing Unit dedicated to this well 320 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2660'	19. Proposed Depth 9950'	20. BLM/BIA Bond No. on file COB000011
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4366.2' GL	22. Approximate date work will start* 07/29/2004	23. Estimated duration 45 days

24. Attachments

CARLSBAD CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Steve J. Simonton	Date 07/19/2004
Title Drilling Superintendent		

Approved by (Signature) : /s/ Joe G. Lara	Name (Printed/Typed) : /s/ Joe G. Lara	Date : 3 AUG 2004
---	--	-------------------

ACTING FIELD MANAGER	Office CARLSBAD FIELD OFFICE
----------------------	---------------------------------

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any 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.

*(Instructions on page 2)

RECEIVED

AUG 05 2004

ARB-ARTESIA

Witness Surface Casing

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Cimarex Energy Co., Wagon Wheel '24' Federal #1 Section 24-T22S-R22E, Eddy County, New Mexico. (Federal Lease No. US NM 100586).

This plan is to accompany Application for "Permit to Drill" the subject well which is located approximately 25 miles West and 4 miles South of Carlsbad, New Mexico. The following is a discussion of pertinent information concerning the possible effect, which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. EXISTING ROADS:

- A. **Directions to well:** From the intersection of St. Hwy. #137 (Queens Hwy.) and Eddy Co. Rd. #405 (H Bar Y Ranch Rd.) go 2.4 miles West/Southwest on Co. Rd. #405 to a caliche road on the right (Cawley Rd), Follow Cawley Rd. North/Northwest for 3.3 miles to a good caliche road on the left. Turn left (SW) and follow caliche road west for .3 miles. Turn South and go .3 miles, turn West and go 1.2 miles, turn South and go .5 miles. Follow road survey 3150' to proposed location.
- B. **Pad Mitigation:** The topsoil will be stockpiled for surface restoration; will maintain a 3:1 slope ratio. The reserve pit will be lined. The pad will be drained above the cut on the north side of location draining east. Culverts will be placed along the new road construction as necessary to accommodate runoff. All surface equipment will be painted Fed Juniper Green. Upon completion of drilling the location and surrounding area will be cleared of debris and will be reseeded using the appropriate BLM Seed Mix. During the life of the well, there may be either a compressor or a pump-jack installed. No drilling or construction will take place during those restricted periods of time as determined by the BLM.

2. PLANNED ACCESS ROADS:

- A. **Length and Width:** 3131' of new access road is needed. The existing and new access road right-of-way will be approximately 20 feet wide, with the actual road surface being approximately 16 feet wide.
- B. **Construction:** The 3131' of new access road to the proposed Wagon Wheel '24' Federal #1 well site will be new road construction and will provide all weather access to this property. Native on-site material will be used for surfacing with gravel furnished from a private commercial source. The entire length of location road will be maintained in a prudent manner with a motor grader as an all weather road. Maintenance activity shall include but not be limited to rerocking, reshaping, compacting and crowning said location road as necessary. Any ruts, rills, and eroded areas will be filled and blocked drainages and culverts will be cleared. Attached is a plat of the proposed location road and detailed section maps showing the location of existing roads. *Cattle guards will be maintained, kept free of soil, in order to prevent livestock crossing from one allotment to another.*
- C. **Turnouts:** No turnouts are proposed

- D. **Culverts:** Culverts are proposed as necessary
- E. **Cuts and Fills:** An approximately 1.2' cut along the South side of the well site and an approximately 1.1' fill along the North side of the well site will be required. An approximately 1.4' cut along the West side of the well site and an approximately 1.7' fill along the East side of the well site will be required. (see attached plat).
- F. **Gates, Cattleguards:** ~~No Gates or Cattleguards are needed~~ see special strips.
- G. **Off Lease ROW:** None

3. LOCATION OF EXISTING WELLS —

- A. There are no existing wells in the section.

4. LOCATION OF EXSITING AND/OR PROPOSED FACILITIES:

A. Location of Tank Batteries, Production Facilities, Production Gathering and Service Lines:

- 1 In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion (including compression). The condensate tank will be enclosed by a dike and all BLM standards regarding compressors will be met.
- 2 The flow-line from this well will have to be constructed. It will be buried gas pipeline that will be approx. 2060.9' in length (See attached pipeline plat) and tie into an existing gas transmission pipeline. The pipe diameter, wall thickness and pipe wall strength will be determined upon the establishment of production and will be in accordance to BLM standards and regulations. The line will be owned and operated by Cimarex Energy Co. and qualifies for APD/ROW process.
- 3 Produced water, if any, will be stored on the well site in a closed or netted water tank and on regular intervals will be hauled to an approved disposal site.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water will be obtained from a non-federal private source.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. No additional construction materials will be required to build the proposed location. The topsoil will be stockpiled for restoration. The dirt from the reserve pit will be back-sloped and saved for use when the pit is rehabilitated.

7. METHODS FOR HANDLING WASTE DISPOSAL:

- A. A Conventional Drilling System will be used. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced with wire mesh on three sides away from the pad during drilling and the

fourth side fenced as soon as the rig moves out. The reserve pit will be backfilled and leveled as soon as practical.

- B. All garbage and trash will be placed in specially constructed wire mesh containers. Upon cleanup, the refuse in the containers will be hauled to an approved landfill site.

- 1 All produced water will be collected in tanks until transported to an approved disposal system.

8. ANCILLARY FACILITIES:

- A. None

9. WELL SITE LAYOUT:

- A. Attached sketch shows the relative location and dimensions of the well pad, and reserve pit. The well pad will be 300' X 200'. The reserve pit will be 150' X 150'. (see diagram).

10. PLANS FOR RESTORATION OF SURFACE:

- A. Pit will be filled and leveled as soon as practical. If well is productive, drilling pad will remain as well service pad. If dry hole, the pad will be ripped and re-seeded per regulations. See Pad Mitigation for details of the surface restoration and seeding details.

11. OTHER INFORMATION:

- A. **Terrain/Topography** – Gently sloping areas with ridges or mesa tops and Limestone out crops in places.
- B. **Soil:** *Ector stony loam, 0 to 9 percent slope-* grayish brown stony loam to light colored limestone bedrock
- C. **Flora and Fauna:** scrubland community consisting mainly of black grama, blue grama, beargrass, tobosa, sotol, agave, ocotillo, snakeweed, tarbush, and yucca.
- D. **Ponds and Streams:** None. Playas in the area will be avoided.
- E. **Residence and Other Structures:** There are no occupied residences or buildings within one quarter of a mile of the proposed well location
- F. **Land Use:** grazing, wildlife, mineral development.
- G. **Water Wells:** No water wells are located in Section.
- H. **Arroyos, Canyons, etc.:** none.
- I. **Well Sign;** Sign identifying and locating the well will be maintained at drill site with the spudding of the well.
- J. **Archaeological Resources:** Archaeological Survey is forth coming.
- K. **Surface Ownership:** Bureau of Land Management

12. Operator's Representatives: Field personnel who can be contacted concerning compliance of the Surface Use Plan are as follows:

Steve Simonton, Drilling Superintendent
Cimarex Energy Co.
15 East 5th Street, Suite 1000
Tulsa, OK 74103
918-295-1710

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site 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 Cimarex Energy Co., and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



BY: Steve Simonton, Drilling Superintendent



DATE

CIMAREX ENERGY CO.

WELL NAME: Wagon Wheel '24' Federal #1

DRILLING PROGNOSIS

1. Location of Proposed Well: 1163' FNL & 1482' FWL Section 24, T22S-R22E, Eddy County, New Mexico
2. Unprepared Ground Elevation: 4366'
3. The geological name of the surface formation is Queen
4. Type of drilling tools will be rotary
5. Proposed drilling depth is 9950'

The estimated tops of important geologic markers are as follows:

<u>ZONES</u>	<u>TOPS (MD)</u>
Queen	Surface
San Andres	588
Glorieta	2184
Yeso	2235
Bone Spring	3206
Bone Spring 3 rd SS	6007
Wolfcamp	6099
Cisco	7508
Canyon	7990
Strawn	8191
Atoka	8585
Morrow LS	9202
Middle Morrow	9390
Lower Morrow	9562
Barnett Marker #1	9803

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>ZONES</u>	<u>DEPTH</u>	<u>FLUID</u>
San Andres	0-1000'	Water
Morrow	9202 - 9803'	Gas

8. The proposed casing program is as follows:

Surface: 13-3/8", 48 ppf, H40, STC set at ^{1050'}1000';
 Burst - 1730 psi, Collapse - 770 psi, Joint Strength - 322,000#, Body Strength - 541,000#

WITNESS

Intermediate: 9-5/8", 36 ppf, J55, STC set at 2300';
 Burst - 2020 psi, Collapse - 3520 psi, Joint Strength - 394,000#, Body Strength - 564,000#

Production: 5-1/2", 17 ppf, N80, LTC set at 9800';
 Burst - 7740 psi, Collapse - 6280 psi, Joint Strength - 348,000#, Body Strength - 397,000#

9. Cement Program:

Surface 13-3/8"

WITNESS

Lead: 600 sx 35:65 Poz C + 2% CaCl₂ + 6% Bentonite + 1/4 #/sk cellophane flake mixed @ 12.6 ppg, 10.8 gps water, 1.97 ft³/sk. 100% excess over gauge
Tail: 205 sx Class C + 2% CaCl₂ + 1/4 #/sk cellophane flake mixed @ 14.8 ppg, 6.29 gps water, 1.34 ft³/sk 100% excess over gauge

Intermediate 9- 5/8"

Lead: 405 sx 35:65 Poz C + 5% salt + 6% Bentonite + 1/4 #/sk cellophane flake + 0.2% antifoam mixed @ 12.6 ppg, 11.2 gps water, 2.04 ft³/sk. 100% excess over gauge
Tail: 190 sx Class C + 1% CaCl₂ + 1/4 #/sk cellophane flake mixed @ 14.8 ppg, 6.29 gps water, 1.34 ft³/sk 50% excess over gauge

Production 5-1/2"

785 sks 50:50 Poz H + 5% salt + 2% Bentonite + 0.3% Fluid Loss + 0.2% dispersant + 0.2% antifoam + 0.2% retarder mixed @ 14.4 ppg, 6.0 gps, 1.31 ft³/sk. 30% excess over gauge .

Stage Collar Program:
 Not anticipated at this time.

10. Pressure Control Equipment:

A schematic diagram of the final BOP stack showing sizes and pressure ratings is attached. A schematic diagram of the manifold showing sizes and pressure ratings is attached. The BOP will be set on casing head after drilling and setting surface casing. Pressure tests will be done as needed & after nipping up on the surface casing. Ram-Type preventors shall be actuated to test proper functioning at least once a day. The annular-type blowout preventor shall be actuated on the drill pipe at least once each week.

11 Drilling Mud Prognosis:

DEPTH INTERVAL	WEIGHT (ppg)	VISCOSITY (Sec/Qt)	FLUID LOSS (ml/30 min)	MUD TYPE
0-1000	8.4 – 9.0	27 - 40	NC	Fresh water, native
1000 - 2300	8.4 – 8.6	28 - 32	NC	Fresh water, gel sweeps
2300 – 9950	8.4 – 9.5	28 – 45	NC-10	Low Solids / Lightly dispersed

12. The testing, logging, and coring programs are as follows:
 Neutron – Density: Surface to TD
 Laterlog: Base of Intermediate to TD
 Sonic: Base of Intermediate to TD
 Formation Tester: 10 to 20 settings in Morrow.
 Possible DST in Wolfcamp
 Possible DST in Morrow
13. Abnormal temperatures are not anticipated to be encountered nor any other potential hazards such as Hydrogen Sulfide Gas. Low risk H₂S equipment will be used.
- Estimated Bottom hole pressures: Morrow - +/- **4800** psi
14. The anticipated starting date is sometime around July 29, 2004, with duration of drilling/completion operations for approximately 45 days thereafter.

United State Department of the Interior
Bureau of Land Management
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name: Cimarex Energy Co.
Street or Box: 15 E 5th, Ste 1000
City, State: Tulsa, OK
Zip Code: 74103

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No: NM 100586

Legal Description of Land: Sec 24-22S-22E
Eddy County, NM

Formation(s) (if applicable):

Bond Coverage: Cimarex Energy Co. is individually bonded with the BLM

BLM Bond File No.: C0B000011

Authorized Signature:



Title:

Drilling Superintendent

Date:

July 16, 2004

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name WAGON WHEEL 24 FEDERAL	Well Number 1
OGRID No.	Operator Name CIMAREX ENERGY COMPANY	Elevation 4366'

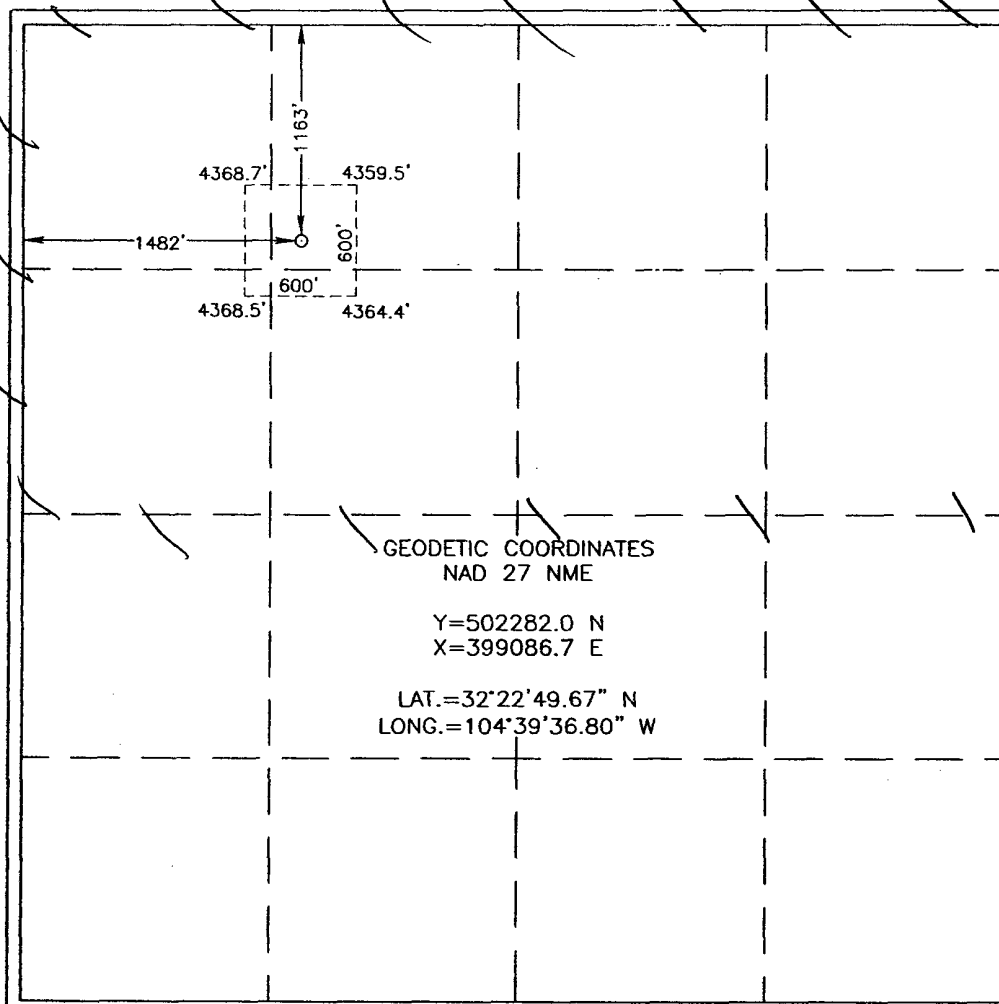
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	24	22-S	22-E		1163'	NORTH	1482'	WEST	EDDY

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
Dedicated Acres 320	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

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Signature

Steve J. Simonson

Printed Name

Dir. Eng.

Title

7/19/04

Date

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.

JUNE 29, 2004

Date Surveyed

JR

Signature & Seal of
Professional Surveyor

GARY EIDSON
NEW MEXICO
04.11.0702

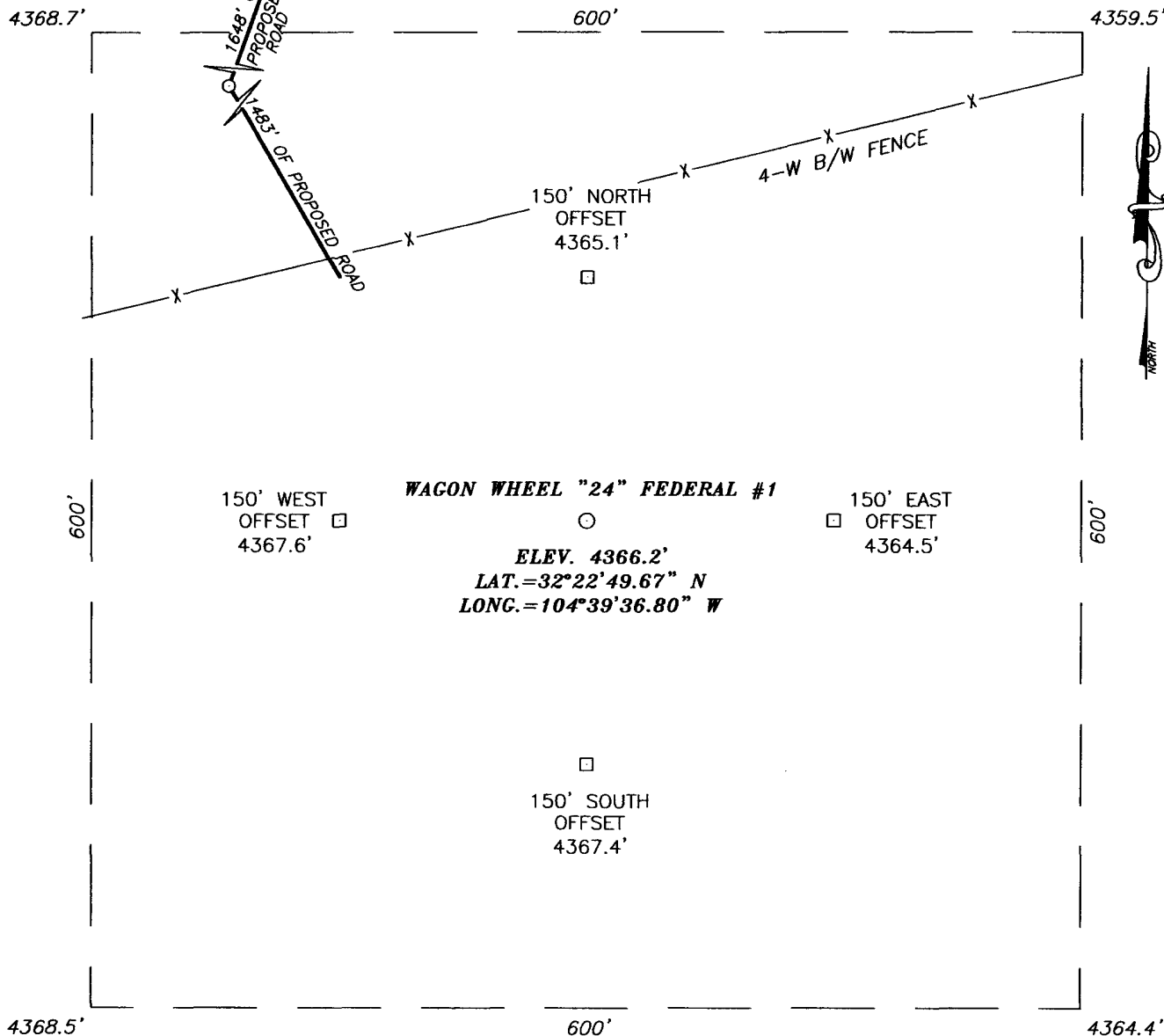
Certificate No. GARY EIDSON

12641

SECTION 24, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO

NEW MEXICO

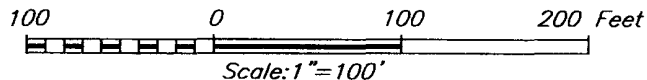


DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #137 (QUEENS HWY.) AND EDDY CO. RD. #405 (H BAR Y RANCH RD.) GO 2.4 MILES WEST/SOUTHWEST ON CO. RD. #405 TO A CALICHE ROAD ON THE RIGHT (CAWLEY RD.), FOLLOW CAWLEY RD. NORTH/NORTHWEST FOR 3.3 MILES TO A GOOD CALICHE ROAD ON THE LEFT. TURN LEFT (SW) AND FOLLOW CALICHE ROAD WEST FOR 0.3 MILES. TURN SOUTH AND GO 0.3 MILES, TURN WEST AND GO 1.2 MILES, TURN SOUTH AND GO 0.5 MILES. FOLLOW ROAD SURVEY 3150' TO PROPOSED LOCATION.



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

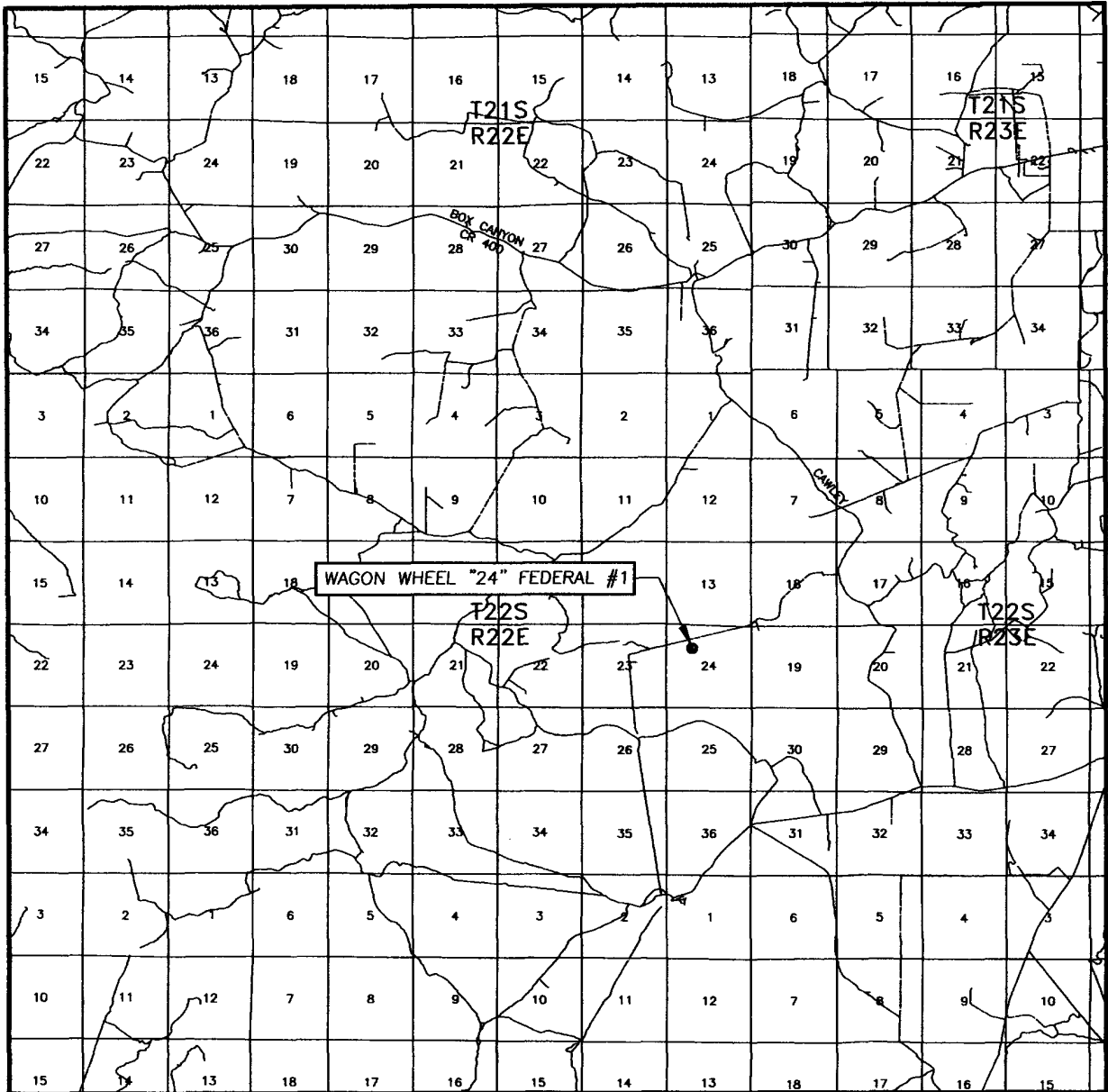


CIMAREX ENERGY COMPANY

WAGON WHEEL "24" FEDERAL #1 WELL
LOCATED 1163 FEET FROM THE NORTH LINE
AND 1482 FEET FROM THE WEST LINE OF SECTION 24,
TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

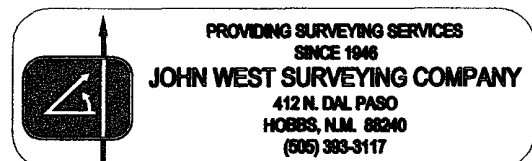
Survey Date: 06/29/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0702	Dr By: J. RIVERO Rev 1:N/A
Date: 07/02/04	Disk: CD#10 04110702 Scale: 1"=100'

VICINITY MAP

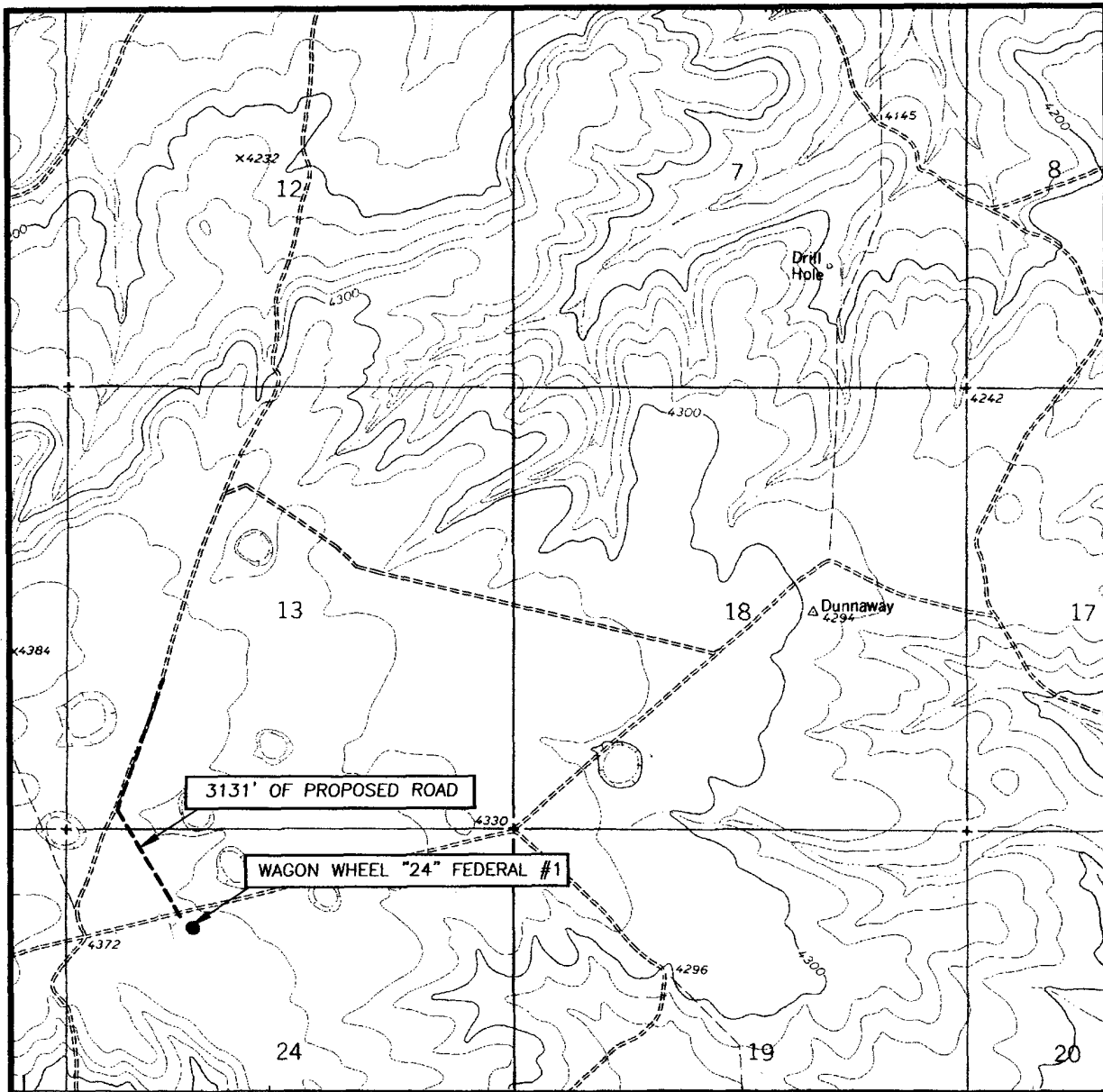


SCALE: 1" = 2 MILES

SEC. 24 TWP. 22-S RGE. 22-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 1163' FNL & 1482' FWL
 ELEVATION 4366'
 OPERATOR CIMAREX ENERGY COMPANY
 LEASE WAGON WHEEL "24" FEDERAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
CAWLEY DRAW, N.M. - 20'

SEC. 24 TWP. 22-S RGE. 22-E

SURVEY _____ N.M.P.M.

COUNTY _____ EDDY


DESCRIPTION 1163' FNL & 1482' FWL

ELEVATION _____ 4366'

OPERATOR _____ CIMAREX
ENERGY COMPANY

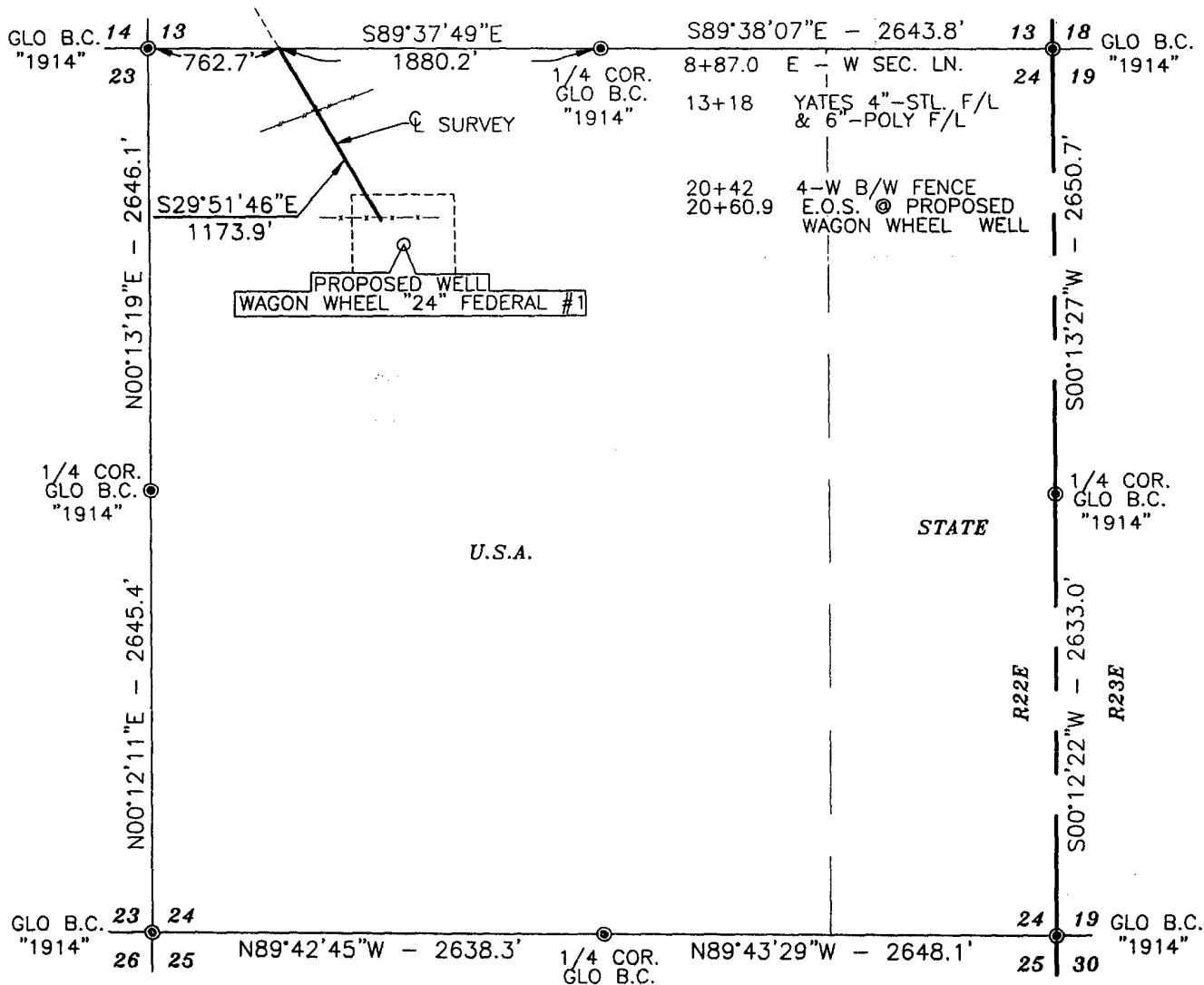
LEASE WAGON WHEEL FEDERAL "24"

U.S.G.S. TOPOGRAPHIC MAP
CAWLEY DRAW, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 383-3117

SECTION 24, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

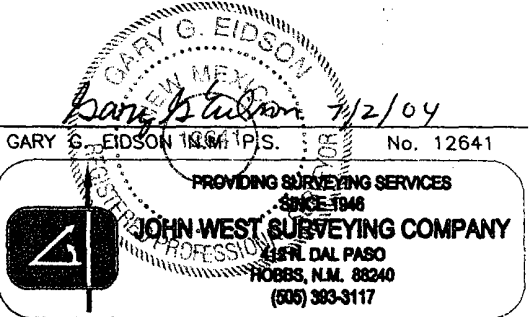
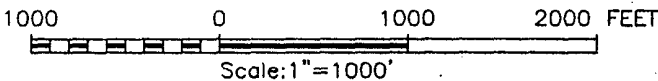


DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 1173.9 FEET OR 0.222 MILES IN LENGTH CROSSING USA LAND IN SECTION 24, TOWNSHIP 22 SOUTH, RANGE 22 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE CENTERLINE.

NOTE: BEARINGS SHOWN HEREON ARE
MERCATOR GRID AND CONFORM TO THE
NEW MEXICO COORDINATE SYSTEM "NEW
MEXICO EAST ZONE" NORTH AMERICAN
DATUM 1983. DISTANCES ARE SURFACE
VALUES.

I HEREBY CERTIFY THAT I DIRECTED 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 SURVEYING IN NEW MEXICO.

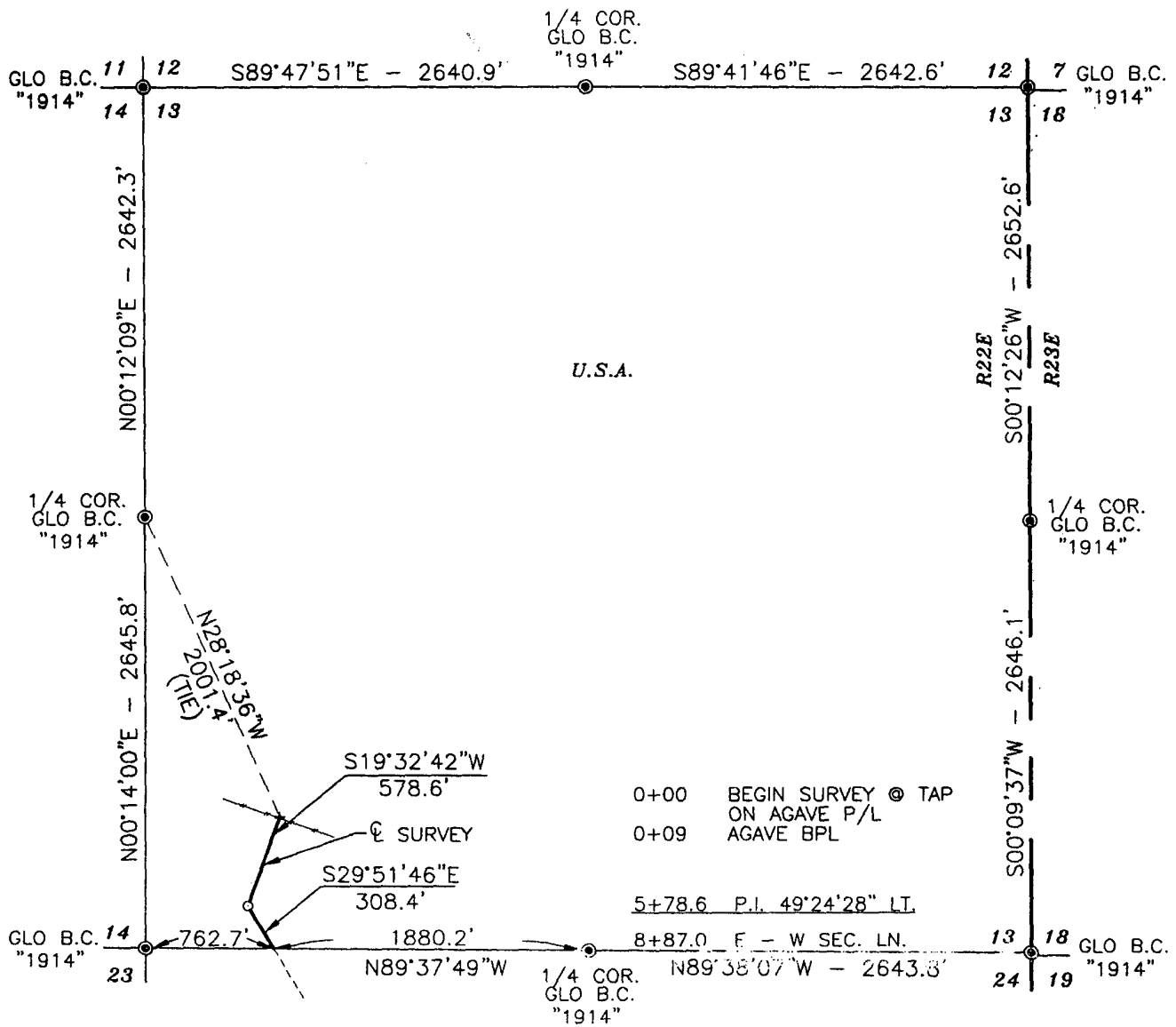


CIMAREX ENERGY COMPANY

SURVEY A PIPELINE IN
SECTION 24, TOWNSHIP 22 SOUTH, RANGE 22 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 06/30/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0831	Drawn By: J. RIVERO
Date: 07/02/04	DISK:CD#10 04110831

SECTION 13, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

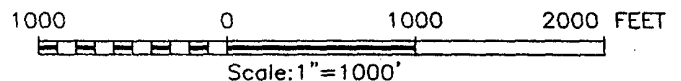


DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 887.0 FEET OR 0.168 MILES IN LENGTH CROSSING USA LAND IN SECTION 13, TOWNSHIP 22 SOUTH, RANGE 22 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE CENTERLINE.

NOTE: BEARINGS SHOWN HEREON ARE
MERCATOR GRID AND CONFORM TO THE
NEW MEXICO COORDINATE SYSTEM "NEW
MEXICO EAST ZONE" NORTH AMERICAN
DATUM 1983. DISTANCES ARE SURFACE
VALUES.

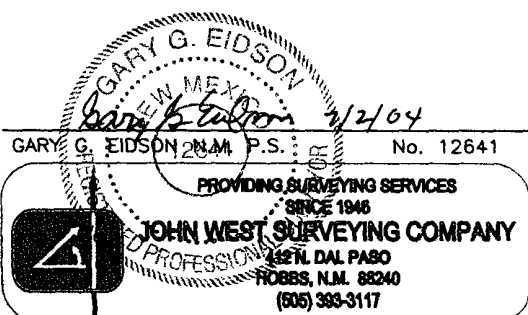
I HEREBY CERTIFY THAT I DIRECTED AND AM
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE
AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET
THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



CIMAREX ENERGY COMPANY

SURVEY A PIPELINE CROSSING
SECTION 13, TOWNSHIP 22 SOUTH, RANGE 22 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 06/30/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0831	Drawn By: J. RIVERO
Date: 07/02/04 DISK: 00#10	04110831



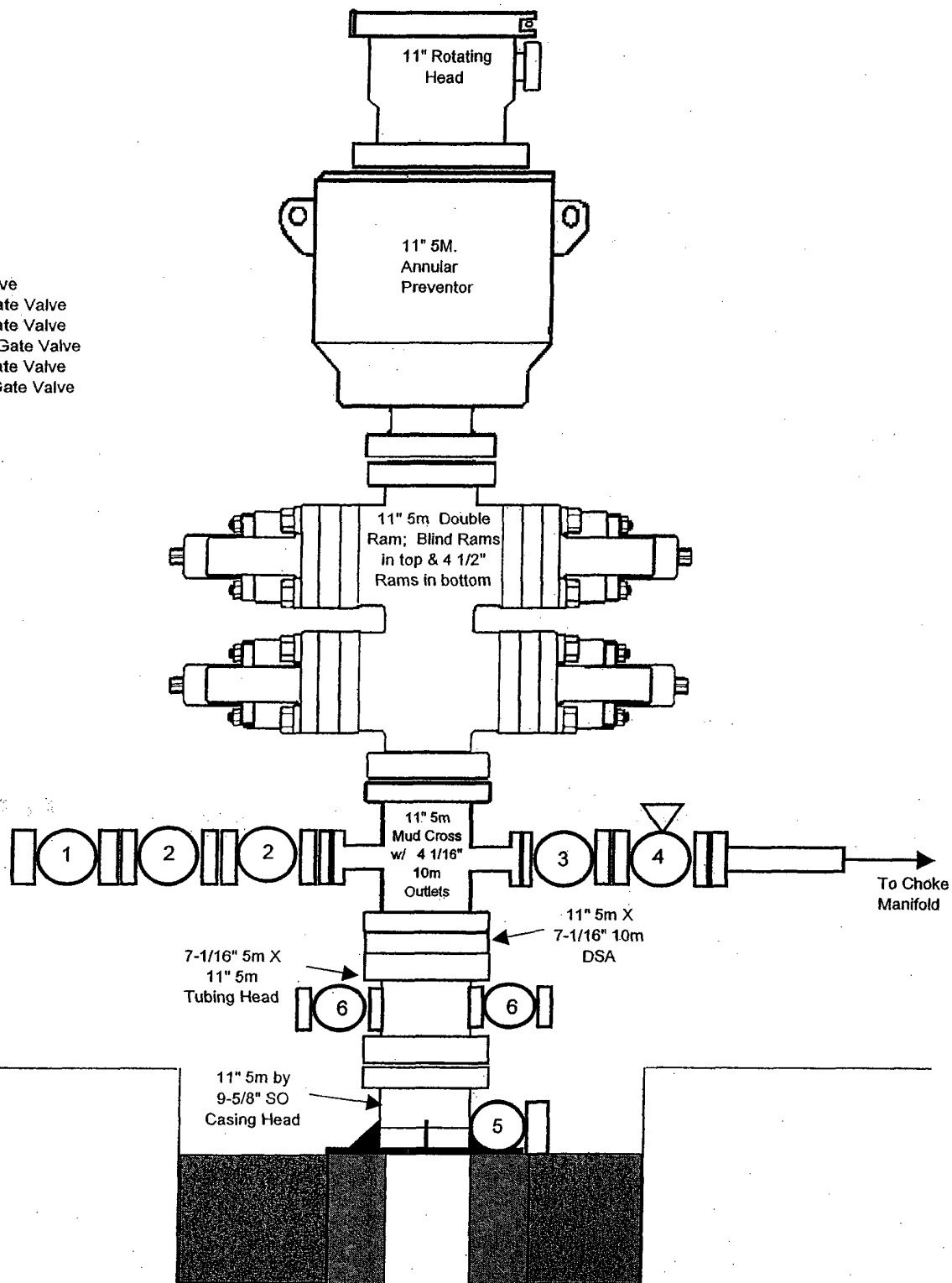
CIMAREX ENERGY CO.

Wagon Wheel "24" Federal #1

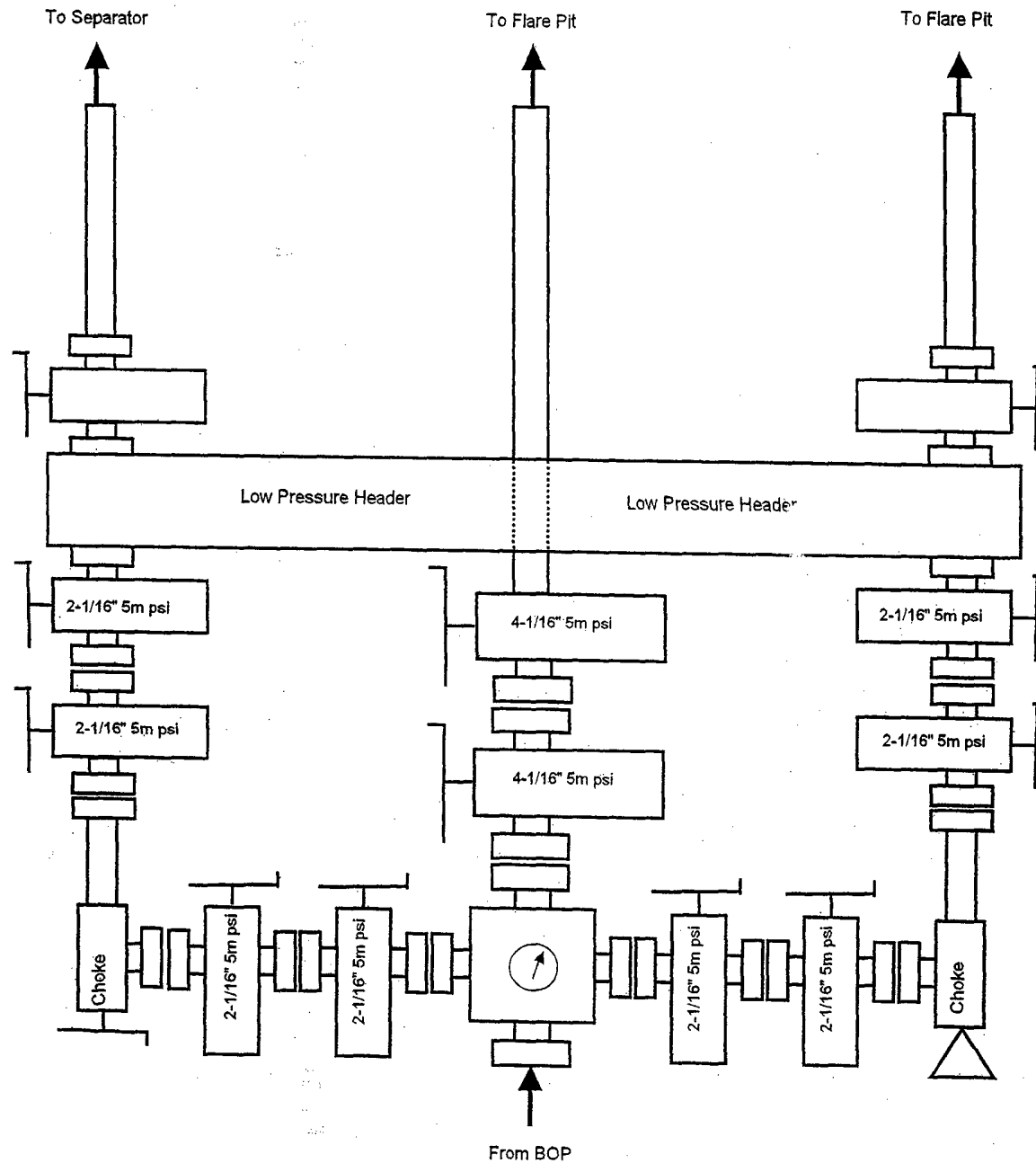
Proposed Blowout Preventor Stack

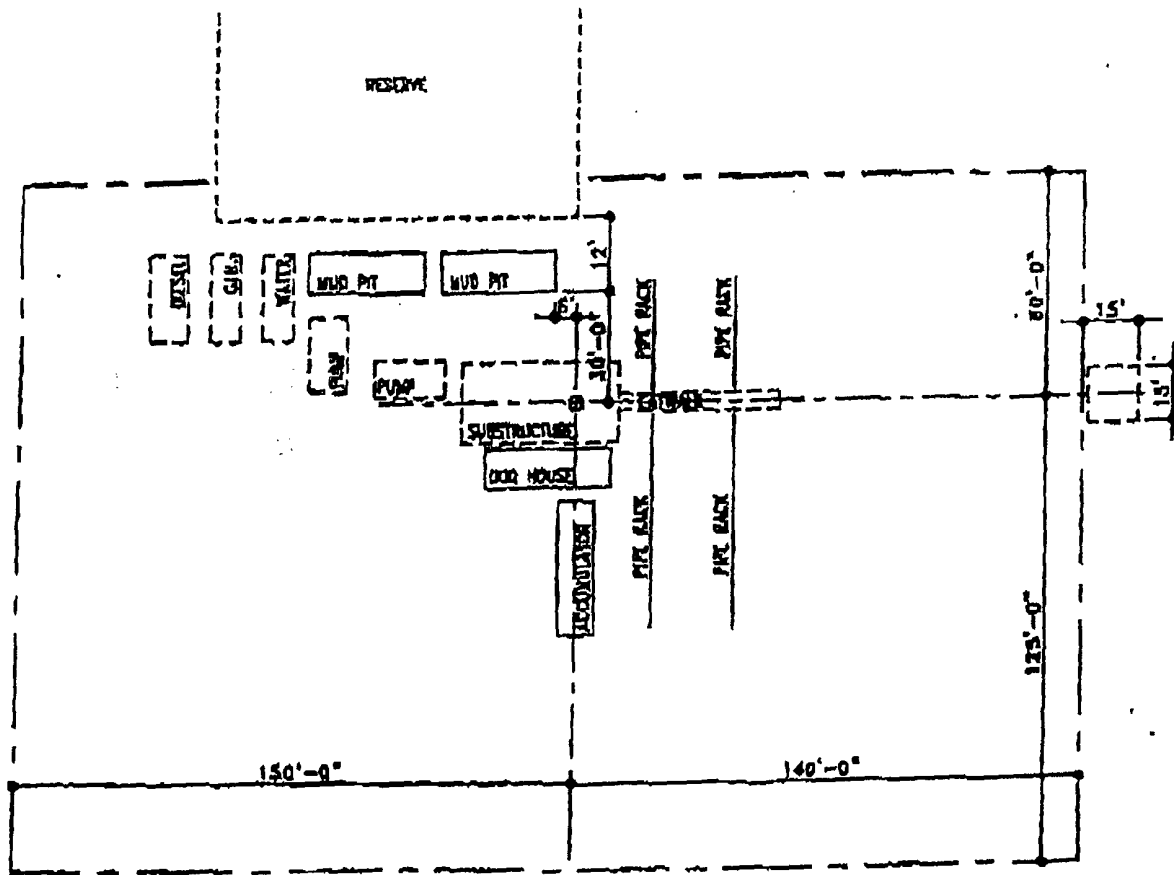
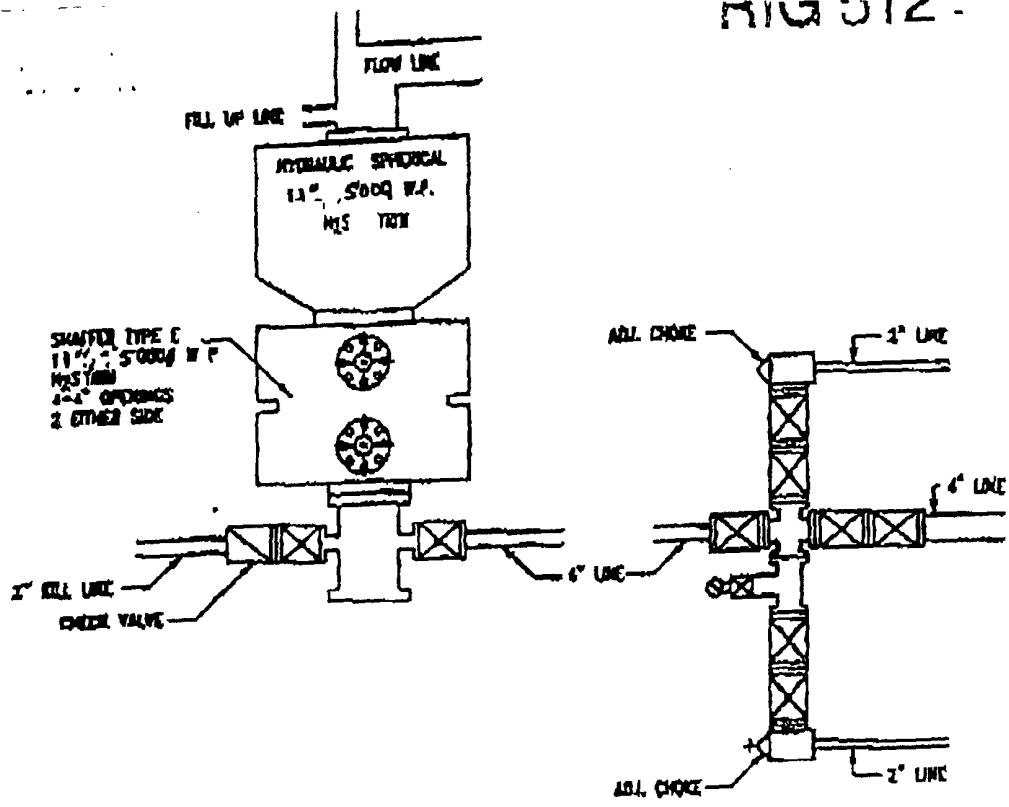
Valve Nomenclature

- 1.) 2 1/16" 5m Check Valve
- 2.) 2 1/16" 5m Manual Gate Valve
- 3.) 4 1/16" 5m Manual Gate Valve
- 4.) 4 1/16" 5m Hydraulic Gate Valve
- 5.) 2 1/16" 5m Manual Gate Valve
- 6.) 1 13/16" 5m Manual Gate Valve



Cimarex Energy Co. - Wagon Wheel "24" Federal #1
Choke Manifold





22

22S/22E

1E

CIMAREX
WASH. STATE, WA FOREST