

Lara
H-04-16
N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

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 N/A
2. Name of Operator Cimarex Energy Co.		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 15 East 5th Street, Ste. 1000, Tulsa, OK 74103	3b. Phone No. (include area code) (918) 295-1710	8. Lease Name and Well No. Wagon Wheel '13' Federal #2
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1650' from <i>NORTH EA</i> South Line and 1980' from East Line At proposed prod. zone same		9. API Well No. 30-015-33483
14. Distance in miles and direction from nearest town or post office* 30 miles West and 4 miles South of Carlsbad, New Mexico		10. Field and Pool, or Exploratory Indian Basine Merrow, SW
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1980'	16. No. of Acres in lease 1600.00	11. Sec., T., R., M., or Blk. and Survey or Area Section 13-T22S-R22E NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1360'	19. Proposed Depth 9,800'	12. County or Parish Eddy County
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4360' GL	22. Approximate date work will start* July 14, 2004	13. State NM
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:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>[Signature]</i>	Name (Printed/Typed) Steve Simonton	Date 5-17-04
Title Cimarex Energy Co. Drilling Superintendent		
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. Lara	Date 4 JUN 2004
Title ACTING FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify the 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 reverse)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOC District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Cimarex Energy Co. Telephone: 918-295-1727 e-mail address: mfarrell@cimarex.com
Address: 15 B 5th St. 1000 Tulsa, OK 74103
Facility or well name: Wagon Wheel Federal "13" #2 API #: U/L or Qtr/Qtr NE Sec 13 T 22S R 22E
County: Eddy Latitude 32°23'37.19" N Longitude 104°39'15.51" W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Volume <u> </u> bbl		Below-grade tank Volume: <u> </u> bbl Type of fluid: <u> </u> Construction material: <u> </u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: <u> </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)	
	No	(0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	
Ranking Score (Total Points)		-0-	

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility . (3) Attach a general description of remedial action taken (including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: June 29, 2004

Printed Name/Title Michelle Farrell, Drillline Tech

Signature Michelle Farrell

Your certification and NMOC approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval JUN 30 2004

Date:

Printed Name/Title

Signature

State of New Mexico

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Box DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name WAGON WHEEL 13 FEDERAL	Well Number 2
OGRID No.	Operator Name CIMAREX ENERGY COMPANY	Elevation 4343'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	13	22-S	22-E		1650'	NORTH	1980'	EAST	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	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

RECEIVED
JUN 17 2004
OCD-ARTESIA

GEODETIC COORDINATES
NAD 27 NME

Y=507078.6 N
X=400926.7 E

LAT.=32°23'37.19" N
LONG.=104°39'15.51" W

320
acres

OPERATOR CERTIFICATION

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

[Signature]
Signature

Steve J. Simonton
Printed Name

Dir. Supt.
Title

5/24/04
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.

APRIL 29, 2004

Date Surveyed

Signature & Seal of Professional Surveyor

GARY E. EDSON
Professional Surveyor

5/6/04

04.11.047

Certificate No. GARY E. EDSON 12841

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name WAGON WHEEL 13 FEDERAL		Well Number 2
OGRID No.	Operator Name CIMAREX ENERGY COMPANY		Elevation 4343'

Surface Location

UL or lot No. G	Section 13	Township 22-S	Range 22-E	Lot Idn	Feet from the 1650'	North/South line NORTH	Feet from the 1980'	East/West line EAST	County EDDY
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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
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME Y=507078.6 N X=400926.7 E LAT.=32°23'37.19" N LONG.=104°39'15.51" W</p>	OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature Steve J. Simonton Printed Name Dir. Supt. Title 5/24/04 Date
	SURVEYOR CERTIFICATION <i>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.</i> APRIL 29, 2004 Date Surveyed Signature of Gary E. Edson Professional Surveyor GARY E. EDSON 5/6/04 04.11.047 Certificate No. GARY EDSON 12641

CIMAREX ENERGY CO.,**Wagon Wheel '13' Federal #2****Section 13-T22S-R22E,****Eddy County, New Mexico.****(Federal Lease No. NM 100586).**

This plan is to accompany Application for "Permit to Drill" the subject well which is located approximately 30 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 Highway 285 and Highway 137 go Southwest on Highway 137 approximately 6.5 miles to the intersection of the Marathon Gas Plant (Indian Basin) road Thence: West on the Marathon road approximately 9 miles to a point one mile West of the Marathon Gas Plant. Thence: South on Lease Road and go 0.9 miles to a Y in the road. Thence: Turn right (southwesterly) and go 1.3 miles to a Y in the road. Thence: Turn right (westerly) and go 1.2 miles to a Y in the road. Thence: Turn left (southerly) and go 1.7 miles to miles to a T-intersection. Thence: Turn right (southwest) and go 0.9 miles to a T-intersection. Thence: Turn left and meander southerly 1.1 to a caliche road on the right. Thence: Turn on caliche and meander westerly 0.8 miles to a caliche road on the right. Thence: Turn on caliche road and go northwesterly approximately 1.0 mile to the proposed location. Thence: Northeasterly approximately 300' to the 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 turned along a northwest/southeast axis to parallel the existing lease road and will be drained above the cut on the southwest side of location draining northeast. 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:** 250' 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 250' of new access road to the proposed Wagon Wheel '13' Federal #2 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.

- C. **Turnouts:** No turnouts are proposed
- D. **Culverts:** Culverts are proposed as necessary
- E. **Cuts and Fills:** An approximately 1.7' cut along the Southwest side of the well site and an approximately 2.1' fill along the Northeast side of the well site will be required. An approximately 1.8' cut along the Northwest side of the well site and an approximately 0.5' fill along the Southeast side of the well site will be required. (see attached plat).
- F. **Gates, Cattleguards:** No Gates or Cattleguards are needed
- G. **Off Lease ROW:** None

3. LOCATION OF EXISTING WELLS —

- A. See Attachment II for location of wells within a 1 mile radius:

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. 3945.8' 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 300'. 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

5/18/07
DATE

CIMAREX ENERGY CO.**WELL NAME:** Wagon Wheel '13' Federal #2**DRILLING PROGNOSIS**

1. Location of Proposed Well: 1650' FNL & 1980' FEL Section 13, T22S-R22E, Eddy County, New Mexico
2. Unprepared Ground Elevation: 4360'
3. The geological name of the surface formation is Queen
4. Type of drilling tools will be rotary
5. Proposed drilling depth is 9800'

The estimated tops of important geologic markers are as follows:

<u>ZONES</u>	<u>TOPS (MD)</u>
Queen	Surface
San Andres	390
Glorieta	2060
Wolfcamp	5990
Cisco	7305
Strawn	8025
Atoka	8675
Morrow	8925

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	8925-9800'	Gas

8. **The proposed casing program is as follows:**

Surface: 13-3/8", 54.5 ppf, J55 8RD ST&C, 1130 psi, 2730 psi, 909,000 lbs, 962,000 lbs for new API Csg. set at 1050'

Intermediate: 9-5/8", 36 ppf, K55 8rd LT&C, 2020 psi, 3520 psi, 489,000 lbs, 564,000 lbs for new API csg set at 2300'

Production Casing: 5-1/2", 17 ppf, N80 8RD LT&C 6290 psi, 7740 psi, 348,000 lbs, 397,000 lbs for new API Csg. set at 10,400'

9. Cement Program:

<u>Surface Casing 13 3/8"</u>	650 sks Class C + 2% D079 + 1/8 lb/sk @ 11.5 ppg TT WITNESS = 3 ½ hrs
WITNESS	100 sks Class C + 2% S1 + 1/8 lb/sk D130 @ 14.8 ppg TT 1 ½ hrs
<u>Intermediate Casing 9-5/8"</u>	315 sks Class C + 2% D079 + 1/8 lb/sk @ 11.5 ppg TT = 3 ½ hrs
	100 sks Class C + 2% S1 + 1/8 lb/sk D130 @ 14.8 ppg TT 1 ½ hrs
<u>Production Casing 4 ½"</u>	1000 sks 50:50 (Poz:Class H) + 0.3% Halad + 5 lb/sk Salt + 0.24% CFR-3 + 0.1% HR-7 @ 14.2 ppg TT = 3 hrs

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 preventer shall be actuated on the drill pipe at least once each week.

11 Drilling Mud Prognosis:

DEPTH INTERVAL	WEIGHT (ppg)	VISCOSITY (Sec/Q _t)	FLUID LOSS (ml/30 min)	MUD TYPE
0-700	8.8-9.2	28-32	NC	Low Solids/Premix
700-10,400	9.0-9.2	34-40	NC-10	Loc Solids/Lite dispersed

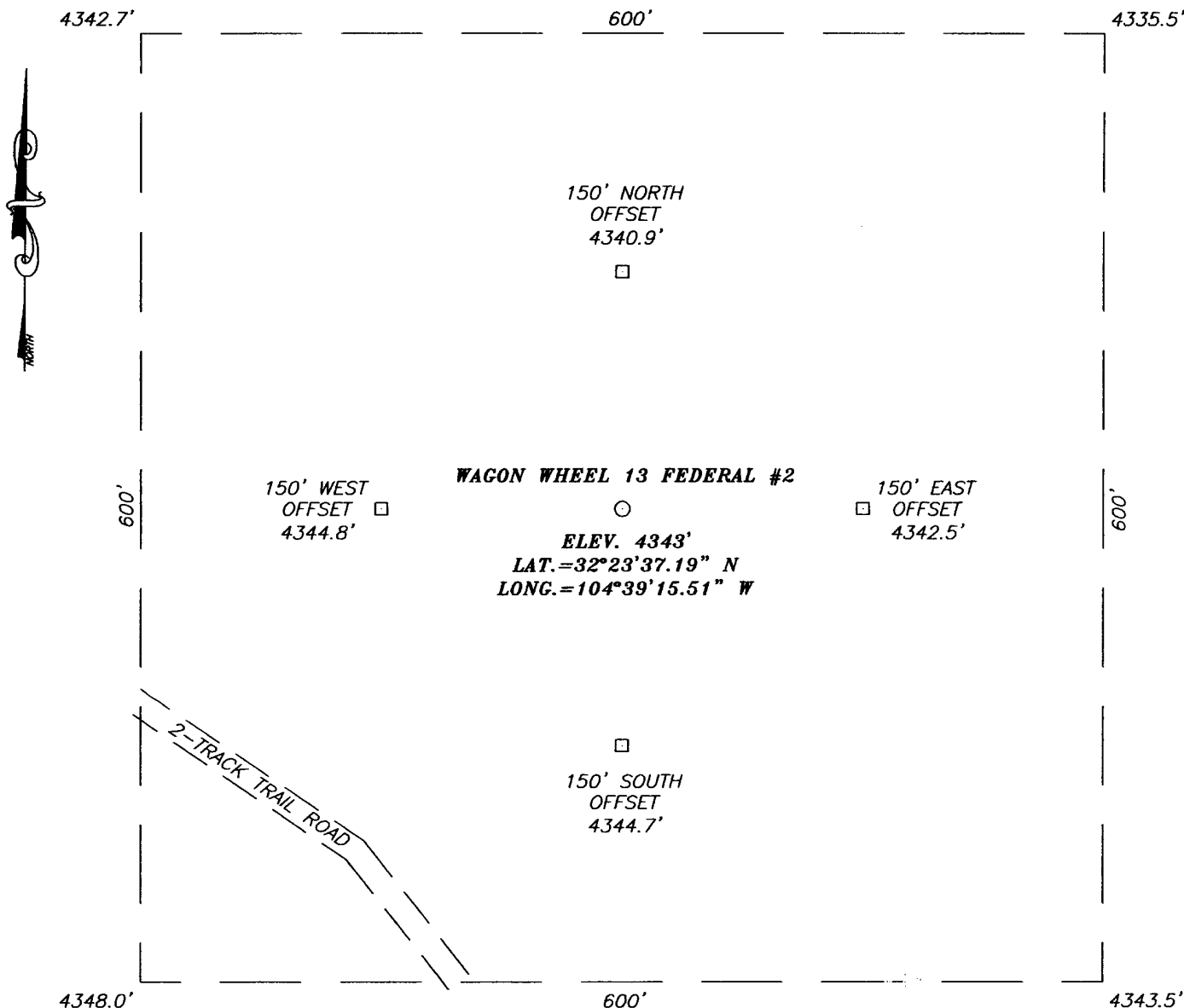
12. The testing, logging, and coring programs are as follows:

- 1 DST is planned. Logging will consist of DLL/GR, CNL/FDC/GR surface casing to TD.

13. Anticipated abnormal temperatures are not anticipated to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H₂S equipment will be used.

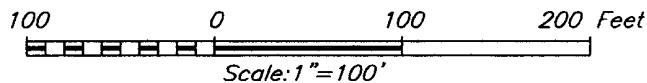
14. The anticipated starting date is sometime around July 14, 2004 with duration of drilling/completion operations for approximately 45 days thereafter.

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



DIRECTIONS TO LOCATION

FROM THE MARATHON OIL COMPANY-INDIAN BASIN GAS PLANT GO WEST ON CO. RD. #401 (MARATHON RD.) 1.0 MILES & TURN LEFT. FOLLOW MEANDERING CAWLEY ROAD SOUTHEASTERLY APPROX. 4.5 MILES. TURN RIGHT AND FOLLOW ROAD NORTHWEST 0.9 MILES. PROPOSED LOCATION IS APPROX. 300' EAST.



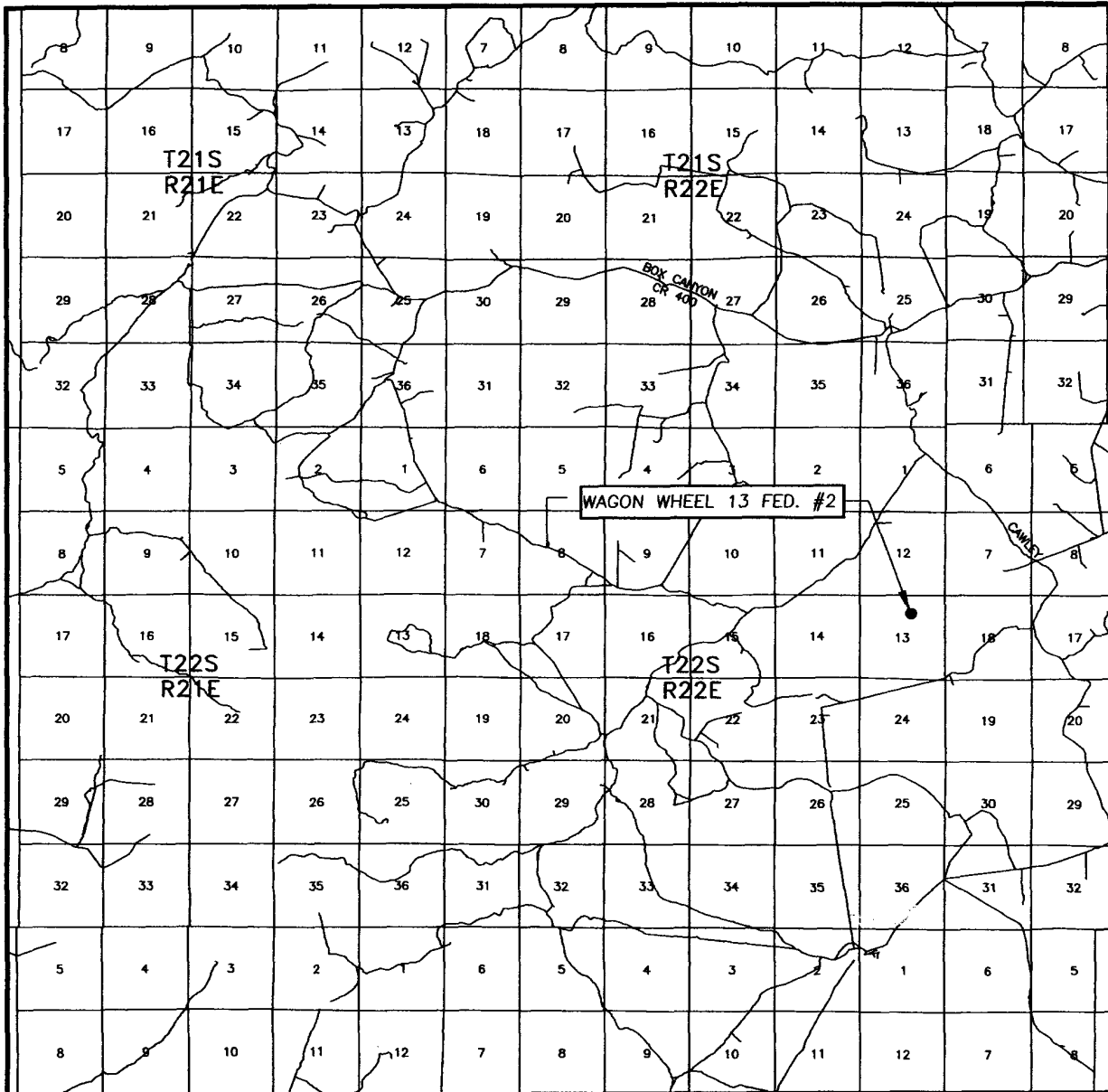
**PROVIDING SURVEYING SERVICES
 SINCE 1946
 JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117**

CIMAREX ENERGY COMPANY

**WAGON WHEEL 13 FEDERAL #2 WELL
 LOCATED 1650 FEET FROM THE NORTH LINE
 AND 1980 FEET FROM THE EAST LINE OF SECTION 13,
 TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.**

Survey Date: 4/29/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0471	Dr By: LA
Date: 05/03/04	Disk: CD#3
04110471	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 13 TWP. 22-S RGE. 22-E

SURVEY N.M.P.M.

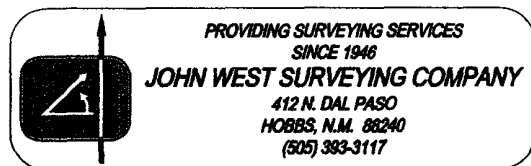
COUNTY EDDY

DESCRIPTION 1650' FNL & 1980' FEL

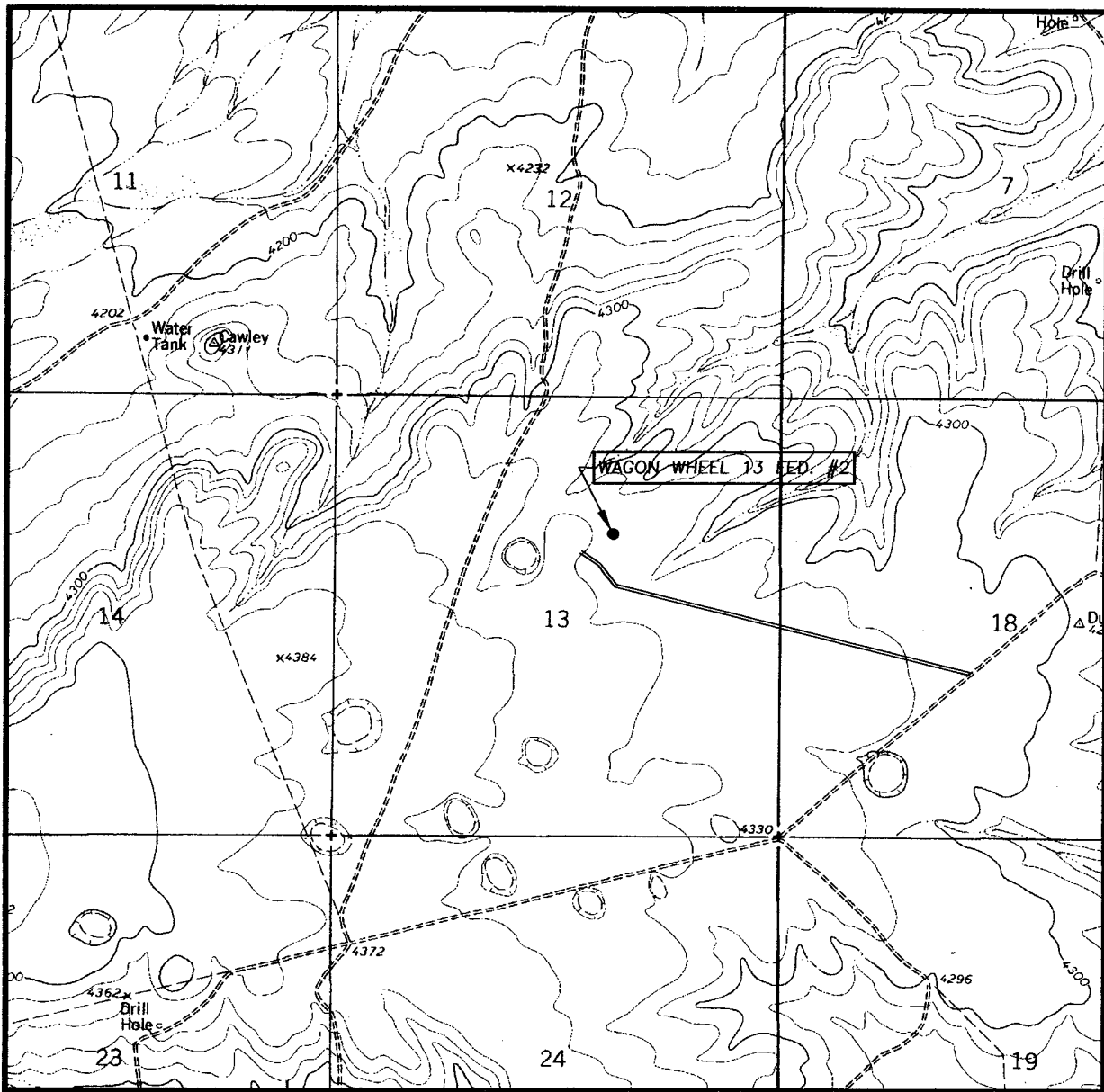
ELEVATION 4343'

OPERATOR CIMAREX ENERGY COMPANY

LEASE WAGON WHEEL 13 FEDERAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 13 TWP. 22-S RGE. 22-E

SURVEY N.M.P.M.

COUNTY EDDY

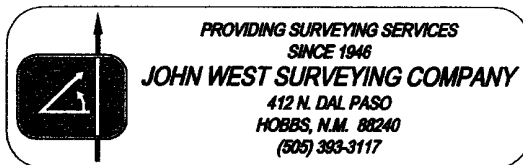
DESCRIPTION 1650' FNL & 1980' FEL

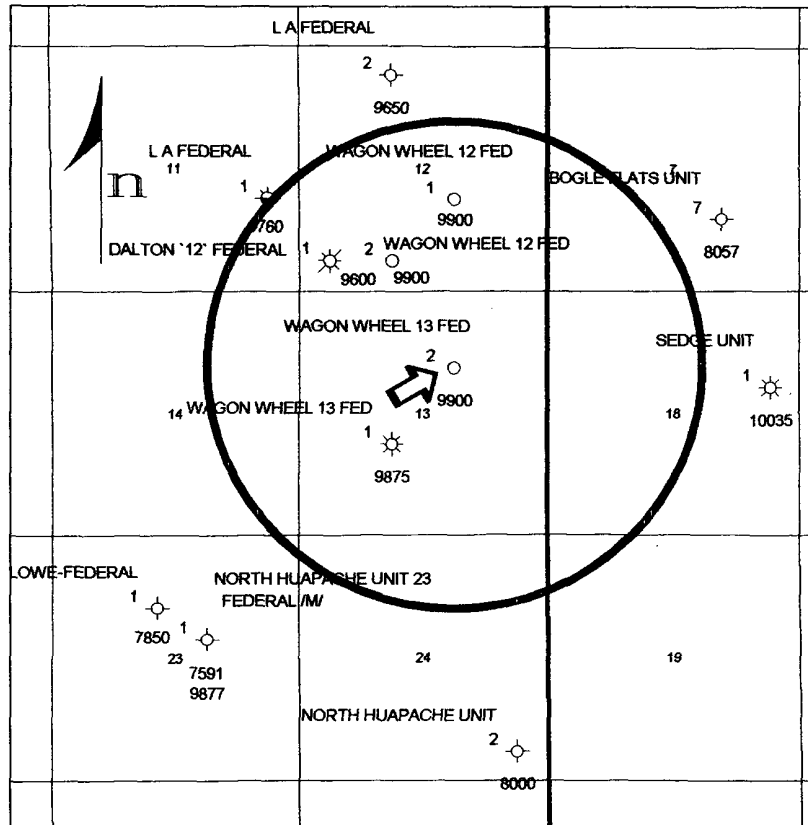
ELEVATION 4343'

OPERATOR CIMAREX ENERGY COMPANY

LEASE WAGON WHEEL 13 FEDERAL

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

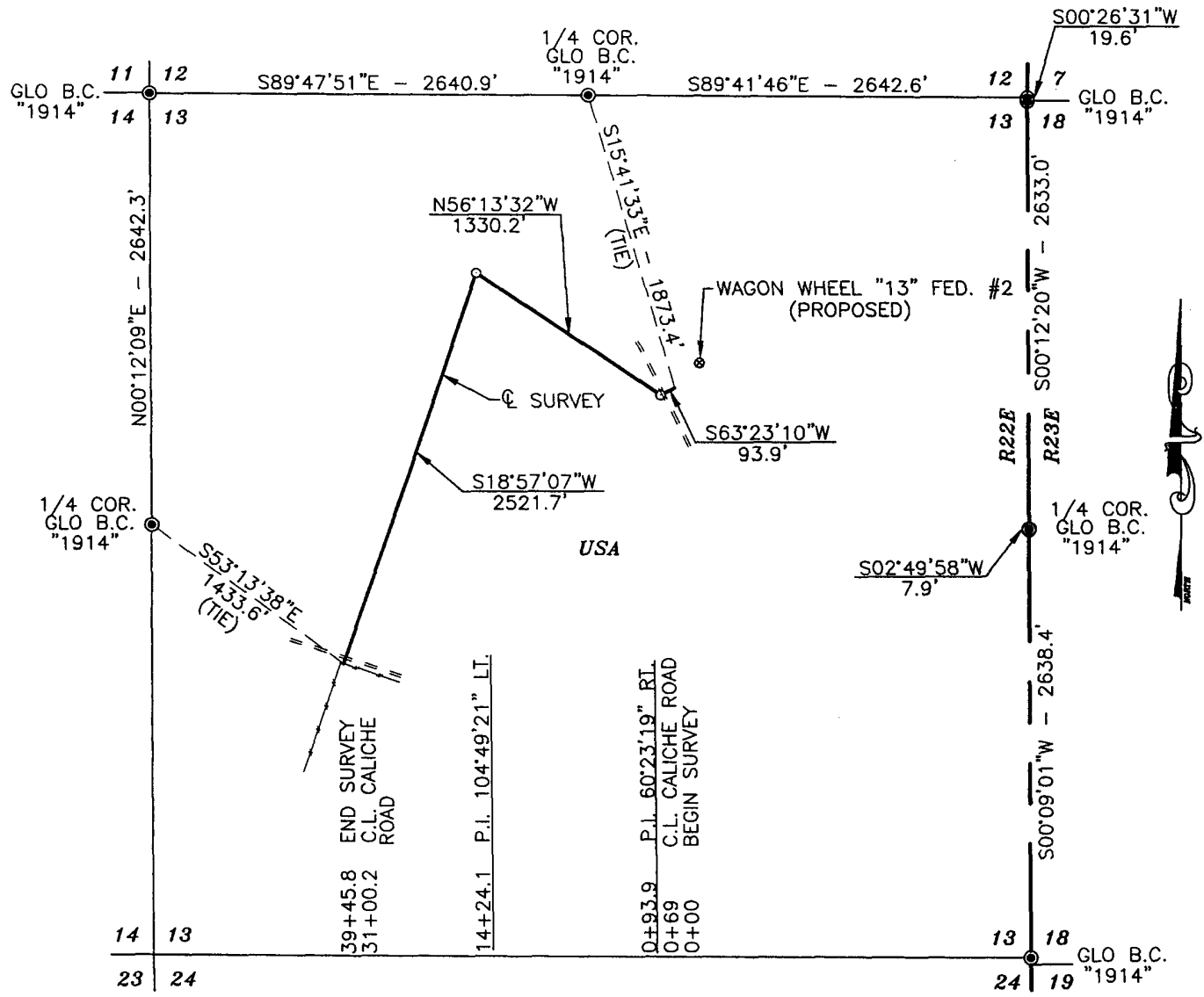




1 inch = 4000 feet

<i>Cimarex Energy Co.</i>		
Location Plat Proposed Wagon Wheel "13" Federal #2 1650' FNL 1980' FEL Sec. 13-T22S-R22E Eddy Co, NM		
Author: Dave Rittersbacher		Date: 12 May, 2004
	Scale: 1"=4000'	

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

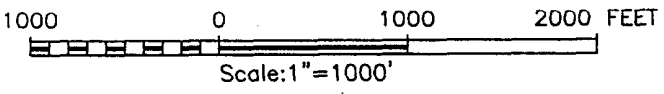


DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 3945.8 FEET OR 0.747 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.



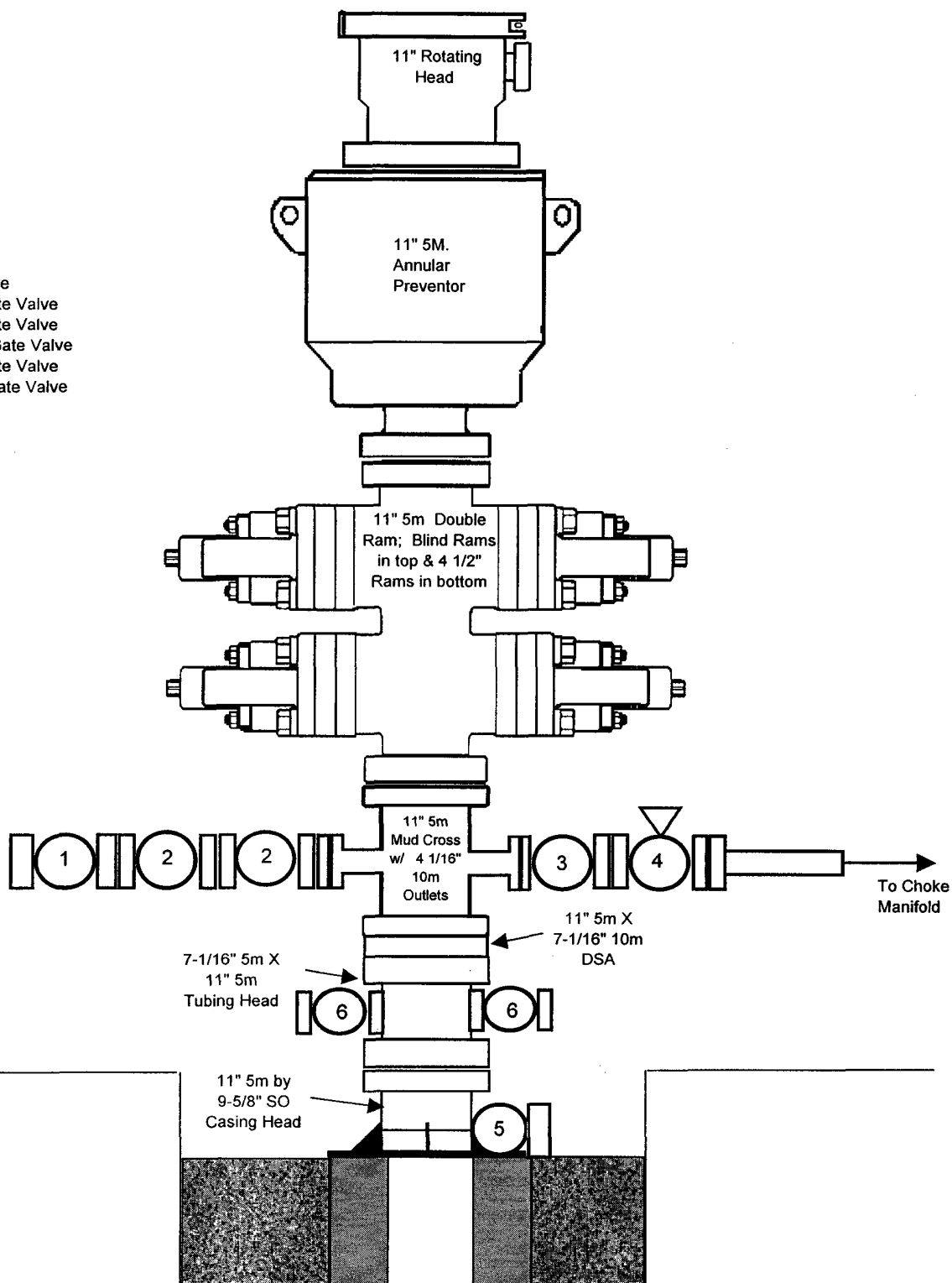
GARY G. EIDSON
NEW MEXICO
GARY G. EIDSON 12641 P.S. No. 12641
PROMOTING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
1211 N. DAL PASO
ROBBS, N.M. 88240
(505) 393-3117

CIMAREX ENERGY COMPANY			
SURVEY A PIPELINE IN SECTION 13, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO			
Survey Date: 4/28/04	Sheet 1 of 1 Sheets		
W.O. Number: 04.11.0471	Drawn By: L.A.		
Date: 5/04/04	DISK:CD#3	04110471	

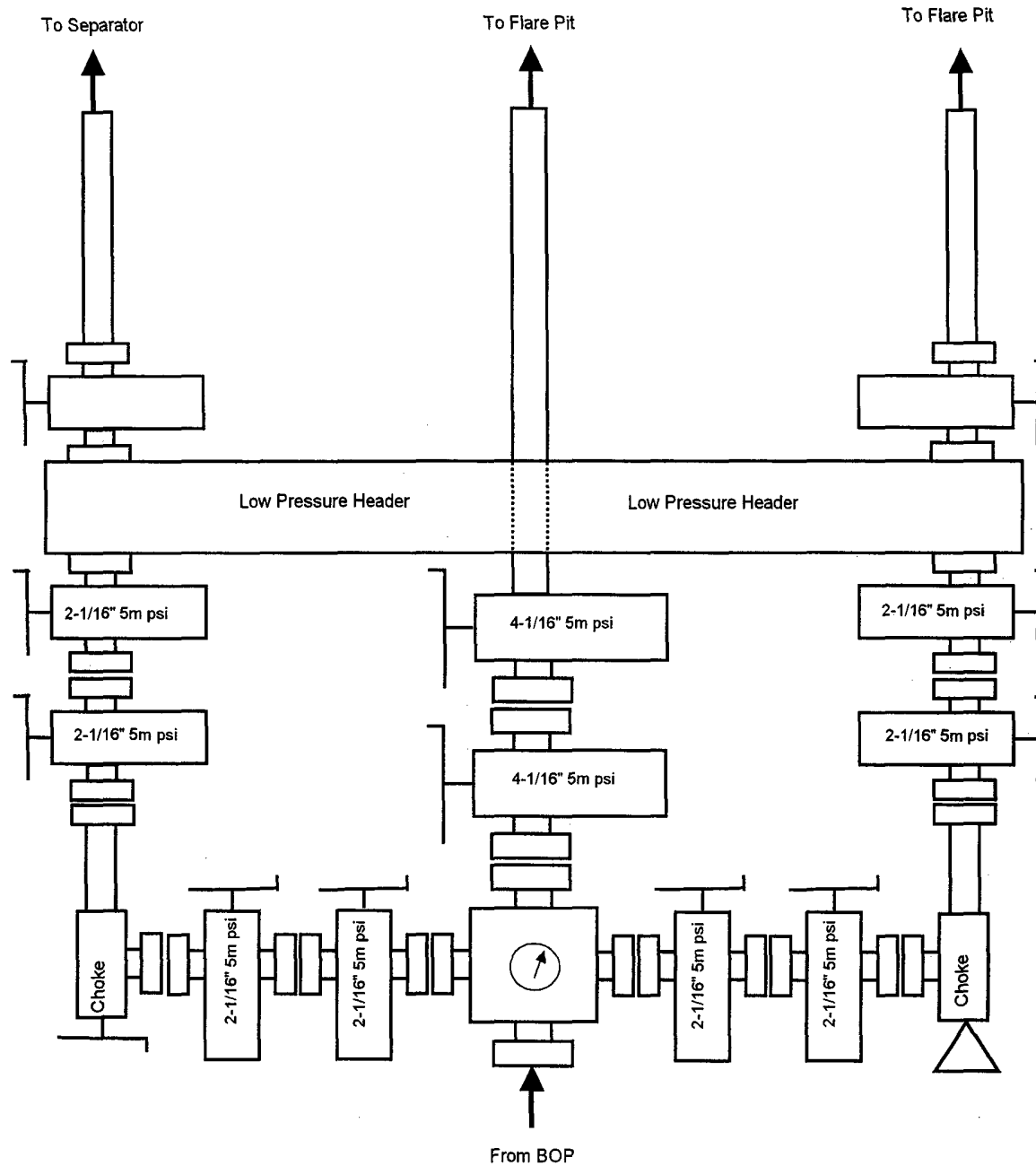
CIMAREX ENERGY CO.
Wagon Wheel "13" Federal # 2
Proposed Blowout Preventor Stack

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 13 Federal #2
Choke Manifold



RIG 512.

