

Form 3160-3  
(September 2001)Oil Cons. - Barry  
N.M. DIV-Dist. 2  
1301 W. Grand Avenue  
Alamosa, NM 88210UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

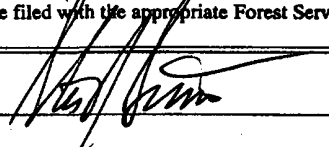
## APPLICATION FOR PERMIT TO DRILL OR REENTER JUN 16 2004

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 92739	
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. Undes. Indian Basin Morrow SW		7. If Unit or CA Agreement, Name and No. N/A	
3a. Address 15 East 5th Street, Ste. 1000, Tulsa, OK 74103		8. Lease Name and Well No. Wagon Wheel '12' Federal #1	
3b. Phone No. (include area code) (918) 295-1710		9. API Well No. N/A 30-015-33514	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1980' from South Line and 1980' from East Line At proposed prod. zone same		10. Field and Pool, or Exploratory Exploratory	
14. Distance in miles and direction from nearest town or post office* 30 miles West and 3 miles South of Carlsbad, New Mexico		11. Sec., T., R., M., or Blk. and Survey or Area Section 12-T22S-R22E NMPM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 860'	16. No. of Acres in lease 2240.48 acres	17. Spacing Unit dedicated to this well 640 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1886'	19. Proposed Depth 10,500'	20. BLM/BIA Bond No. on file COB000011	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4217' GL	22. Approximate date work will start* July 14, 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:

- |   |  |
|---|--|
| 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 	Name (Printed/Typed) Steve Simonton	Date 5-17-04
Title Cimarex Energy Co. Drilling Superintendent		
Approved by (Signature) /s/ Leslie A. Theiss	Name (Printed/Typed) /s/ Leslie A. Theiss	Date 14 JUN 2004
Title 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

Form C-144  
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD 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 E 5<sup>th</sup>, Ste 1000 Tulsa, OK 74103  
Facility or well name: Wagon Wheel Federal "12" #1 API #: \_\_\_\_\_ U/L or Qtr/Qtr NE/SE Sec 12 T 22S R 22E  
County: Eddy Latitude 32°24'13.11" N Longitude 104°39'15.46" W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume \_\_\_\_\_ bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

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Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

50 feet or more, but less than 100 feet

100 feet or more

(20 points)

(10 points)

( 0 points)

JUL 16 2004

ORE ARTESIA

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes

No

(20 points)

( 0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

200 feet or more, but less than 1000 feet

1000 feet or more

(20 points)

(10 points)

( 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 NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: July 15, 2004

Printed Name/Title Michelle Farrell, Drilling Tech

Signature

*Michelle Farrell*

Your certification and NMOCD 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

Date: JUL 16 2004

Printed Name/Title

Signature

*[Signature]*

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

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

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

Form C-102  
Revised February 10, 1994  
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 12 FEDERAL	Well Number 1
OGRID No.	Operator Name CIMAREX ENERGY COMPANY	Elevation 4217'

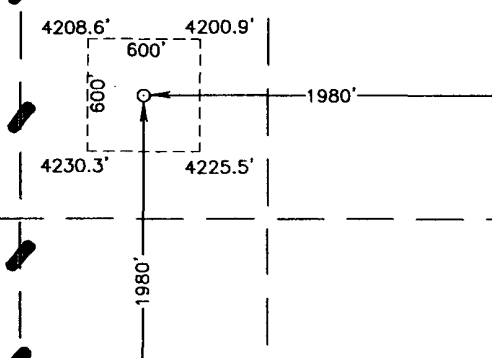
Surface Location

UL or lot No. J	Section 12	Township 22-S	Range 22-E	Lot Idn	Feet from the 1980'	North/South line SOUTH	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
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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=510708.1 N X=400941.8 E</p> <p>LAT.=32°24'13.11" N LONG.=104°39'15.46" W</p> 	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>[Signature]</i> Signature Steve Simonton Printed Name Drilling Supt Title 6-3-04 Date</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>APRIL 27, 2004</p> <p>Date Surveyed Signature &amp; Seal of Professional Surveyor Professional Surveyor 5/6/04 04.11.0468</p>
	<p>Certification No. GARY EIDSON 12641</p>

**CIMAREX ENERGY CO.,**  
**Wagon Wheel '12' Federal #1**  
**Section 12-T22S-R22E,**  
**Eddy County, New Mexico.**  
**(Federal Lease No. NM 92739).**

This plan is to accompany Application for "Permit to Drill" the subject well which is located approximately 30 miles West and 3 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 Maratnon 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 1.6 miles to the point of new lease road construction. Thence: northeasterly 3181' 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 drained above the cut on the south side of location draining north. 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:** 3181' 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 3181' of new access road to the proposed Wagon Wheel '12' 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.

- C. **Turnouts:** No turnouts are proposed
- D. **Culverts:** Culverts are proposed as necessary
- E. **Cuts and Fills:** An approximately 6.8’ cut along the South side of the well site and an approximately 6.8’ fill along the North side of the well site will be required. An approximately 0.3’ cut along the West side of the well site and an approximately 0.9’ fill along the East 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. 8082.2’ 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 5<sup>th</sup> 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

5/18/04  
DATE

**CIMAREX ENERGY CO.****WELL NAME:** Wagon Wheel '12' Federal #1**DRILLING PROGNOSIS**

1. Location of Proposed Well: 1980' FSL & 1980' FEL  
Section 12, T22S, R22E

2. Unprepared Ground Elevation: 4217'
3. The geological name of the surface formation is Queen
3. Type of drilling tools will be rotary
5. Proposed drilling depth is 10,500'
4. The estimated tops of important geologic markers are as follows:

<u>ZONES</u>	<u>TOPS (MD)</u>
Queen	Surface
San Andres	450
Yeso	2110
Bone Spring	3065
Wolfcamp	5896
Cisco	7363
Canyon	7853
Strawn	8046
Atoka	8446
Morrow	9059

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>
Queen.	0-450	Water
San Andres	450-2110	Water
Yeso	2110-3065	Water
Bone Spring	3065-5896	Water
Wolfcamp	5896-7363	Water/Gas
Cisco/Canyon/Strawn	7363-8446	Water
Atoka	8446-9059	Water
Morrow	9059-TD	Water/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 10,500'

9. Cement Program:

**Surface Casing 13 3/8":** 650 sks Class C + 2% D079 + 1/8 lb/sk @ 11.5 ppg TT WITNESS  
= 3 1/2 hrs  
WITNESS 100 sks Class C + 2% S1 + 1/8 lb/sk D130 @ 14.8 ppg  
TT 1 1/2 hrs

**Intermediate Casing 9-5/8":** 315 sks Class C + 2% D079 + 1/8 lb/sk @ 11.5 ppg TT  
= 3 1/2 hrs  
100 sks Class C + 2% S1 + 1/8 lb/sk D130 @ 14.8 ppg  
TT 1 1/2 hrs

**Production Casing 4 1/2"** 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/Qt)	FLUID LOSS (ml/30 min)	MUD TYPE
0-700	8.8-9.2	28-32	NC	Low Solids/Premix
700-6250	9.0-9.2	34-40	NC-10	Loc Solids/Lite dispersed

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

One DST is planned for the Wolfcamp or Morrow. Logging will consist of DLL/GR,

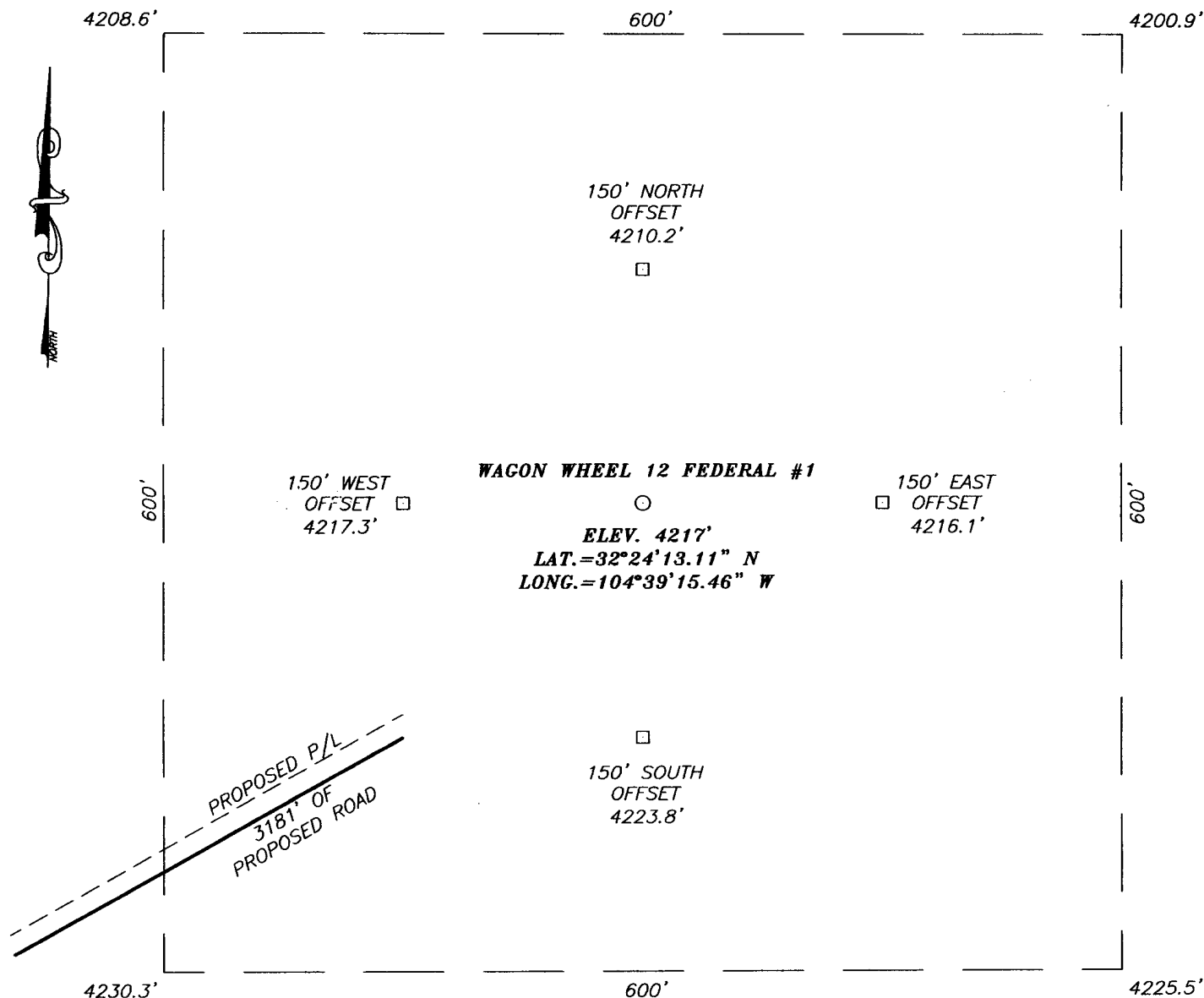
CNL/LDT/GR, SONIC/GR from intermediate casing to TD.

13. Anticipated abnormal temperatures are not anticipated to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H<sub>2</sub>S equipment will be used. The Kirtland Shale may be over pressured and the Dakota Ss may be under pressured.

Estimated Bottomhole pressures: Morrow +/- 3600 psi

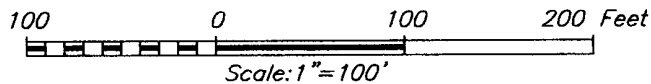
14. The anticipated starting date is sometime around July 14 2003 with duration of drilling/completion operations for approximately 45 days thereafter.

**SECTION 12, 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 AND FOLLOW MEANDERING CAWLEY ROAD SOUTHEASTERLY APPROX. 4.5 MILES. TURN RIGHT AND FOLLOW CALICHE ROAD APPROX. 0.8 MILES. TURN RIGHT AND FOLLOW ROAD NORTHWEST 2.0 MILES. TURN RIGHT AND GO NORTHEAST 0.6 MILES TO PROPOSED WELL LOCATION.



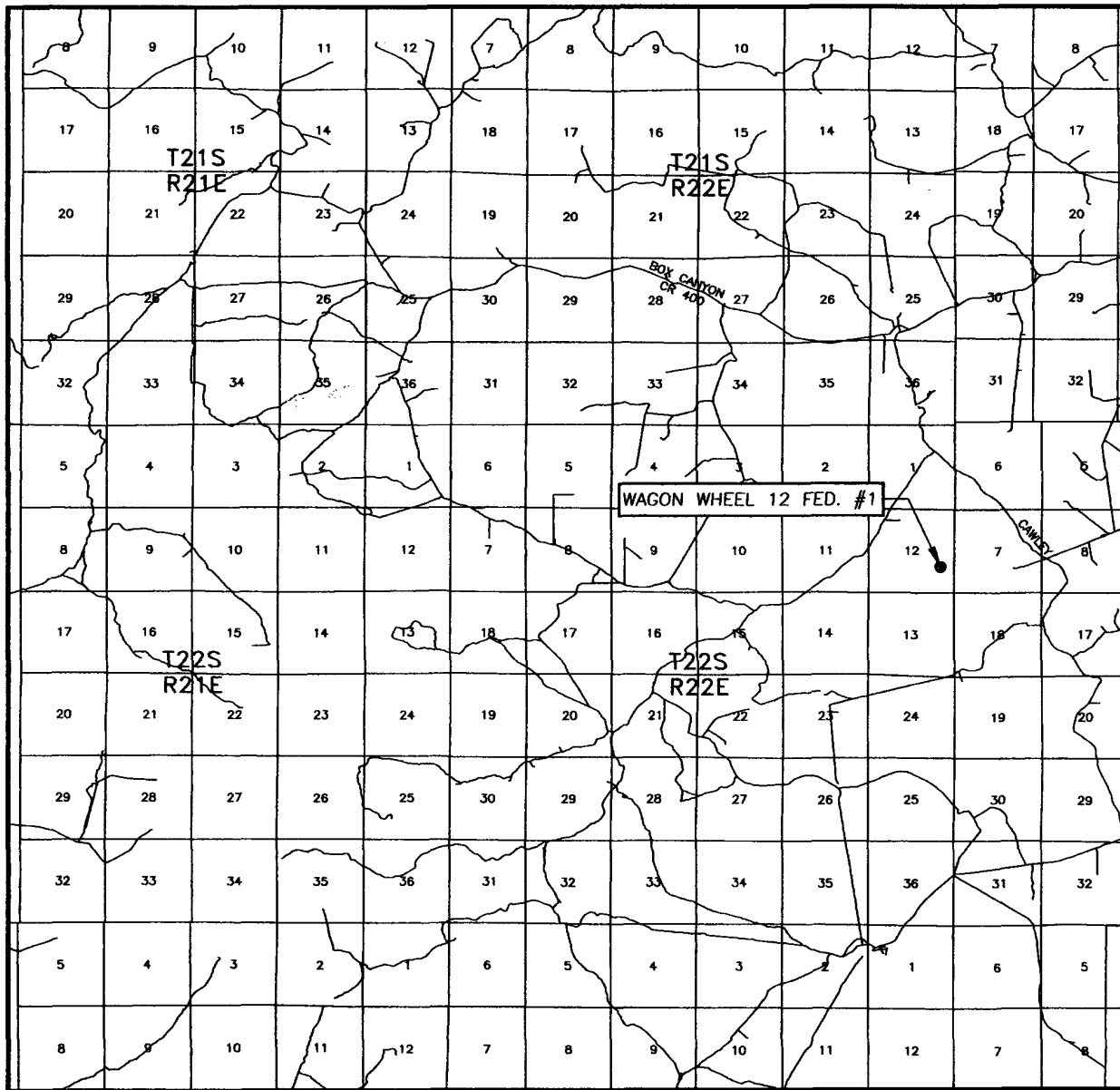
PROVIDING SURVEYING SERVICES  
 SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO  
 HOBBS, N.M. 88240  
 (505) 393-3117

**CIMAREX ENERGY COMPANY**

WAGON WHEEL 12 FEDERAL #1 WELL  
 LOCATED 1980 FEET FROM THE SOUTH LINE  
 AND 1980 FEET FROM THE EAST LINE OF SECTION 12,  
 TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO.

Survey Date: 4/27/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0468	Dr By: LA
Date: 05/03/04	Disk: CD#3
04110468	Scale: 1"=100'

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 12 TWP. 22-S RGE. 22-E

SURVEY N.M.P.M.

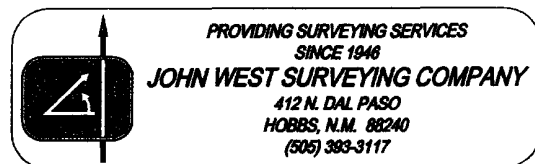
COUNTY EDDY

DESCRIPTION 1980' FSL & 1980' FEL

ELEVATION 4217'

OPERATOR CIMAREX ENERGY COMPANY

LEASE WAGON WHEEL 12 FEDERAL

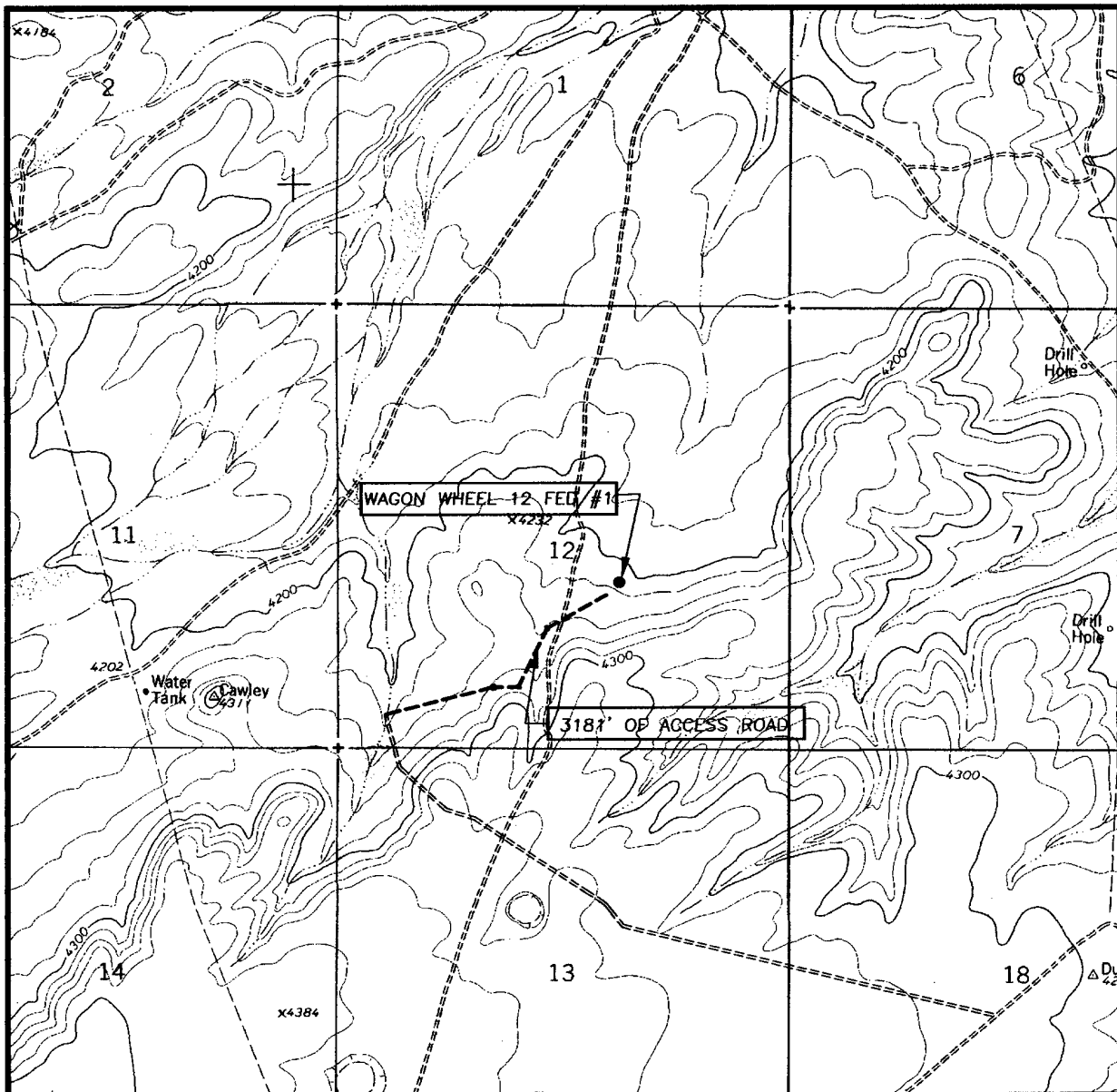


PROVIDING SURVEYING SERVICES  
SINCE 1946

**JOHN WEST SURVEYING COMPANY**

412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 383-3117

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 12 TWP. 22-S RGE. 22-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1980' FSL & 1980' FEL

ELEVATION 4217'

OPERATOR CIMAREX ENERGY COMPANY

LEASE WAGON WHEEL 12 FEDERAL

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

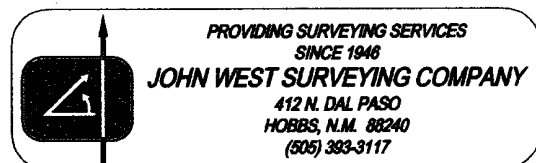
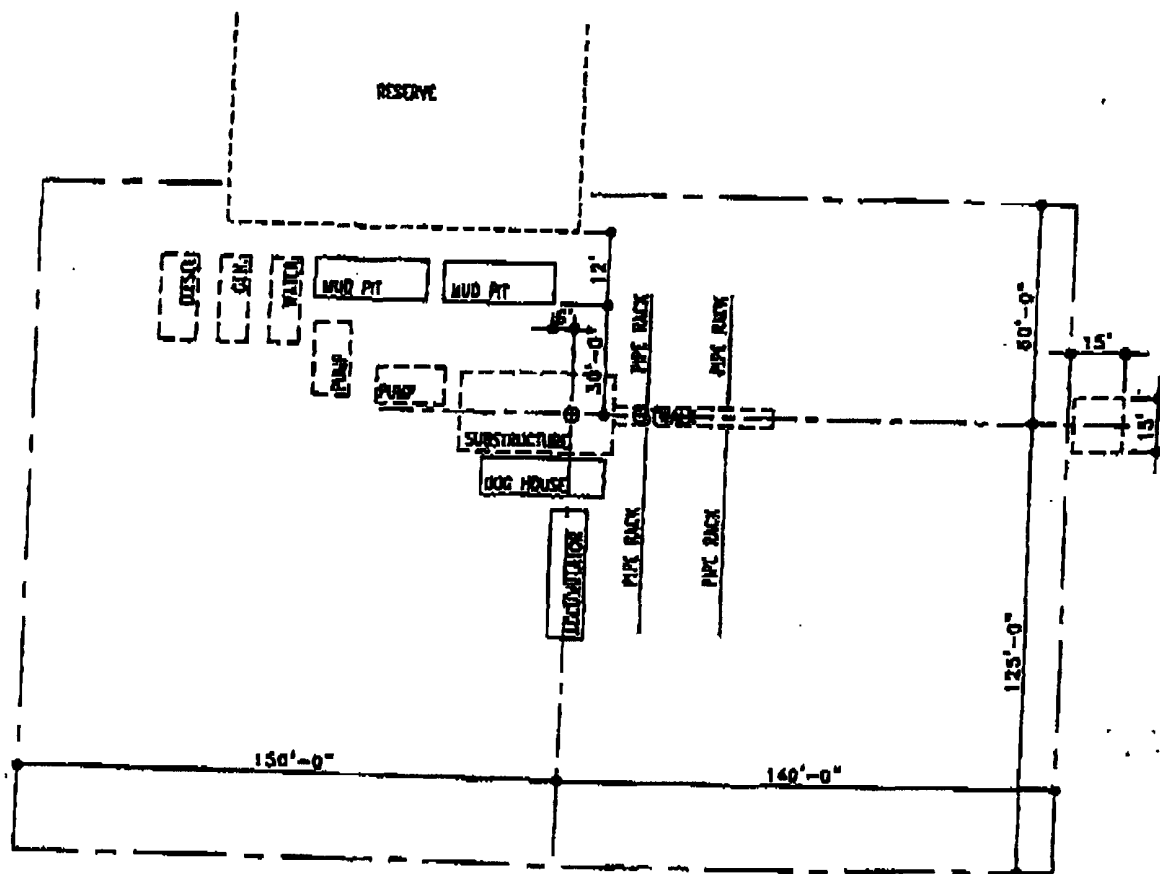
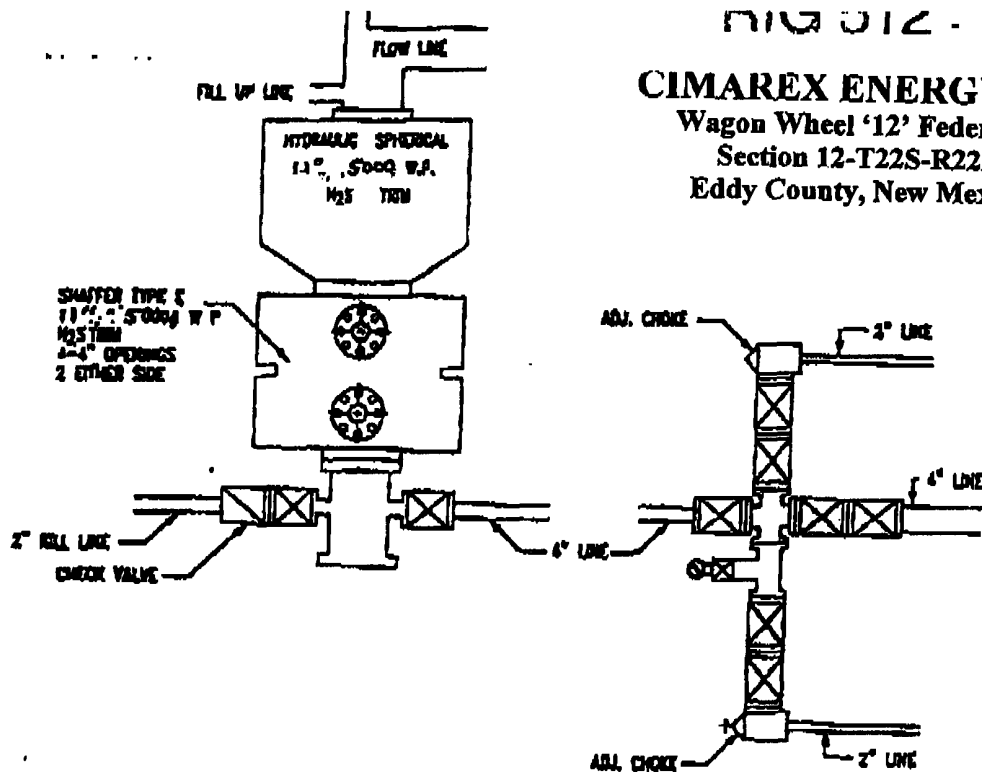
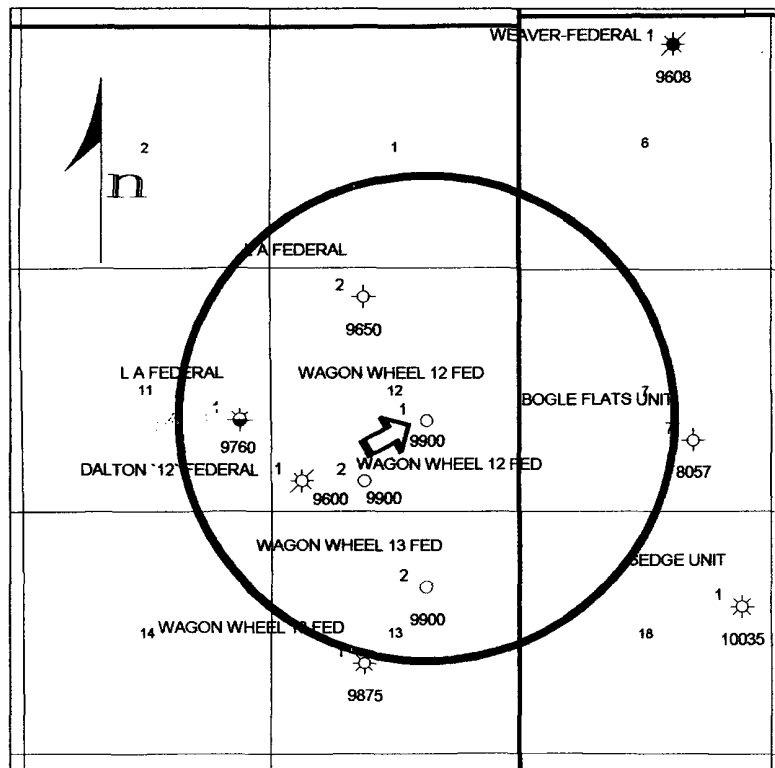


FIG 012 -

**CIMAREX ENERGY CO.,**  
 Wagon Wheel '12' Federal #1  
 Section 12-T22S-R22E,  
 Eddy County, New Mexico.

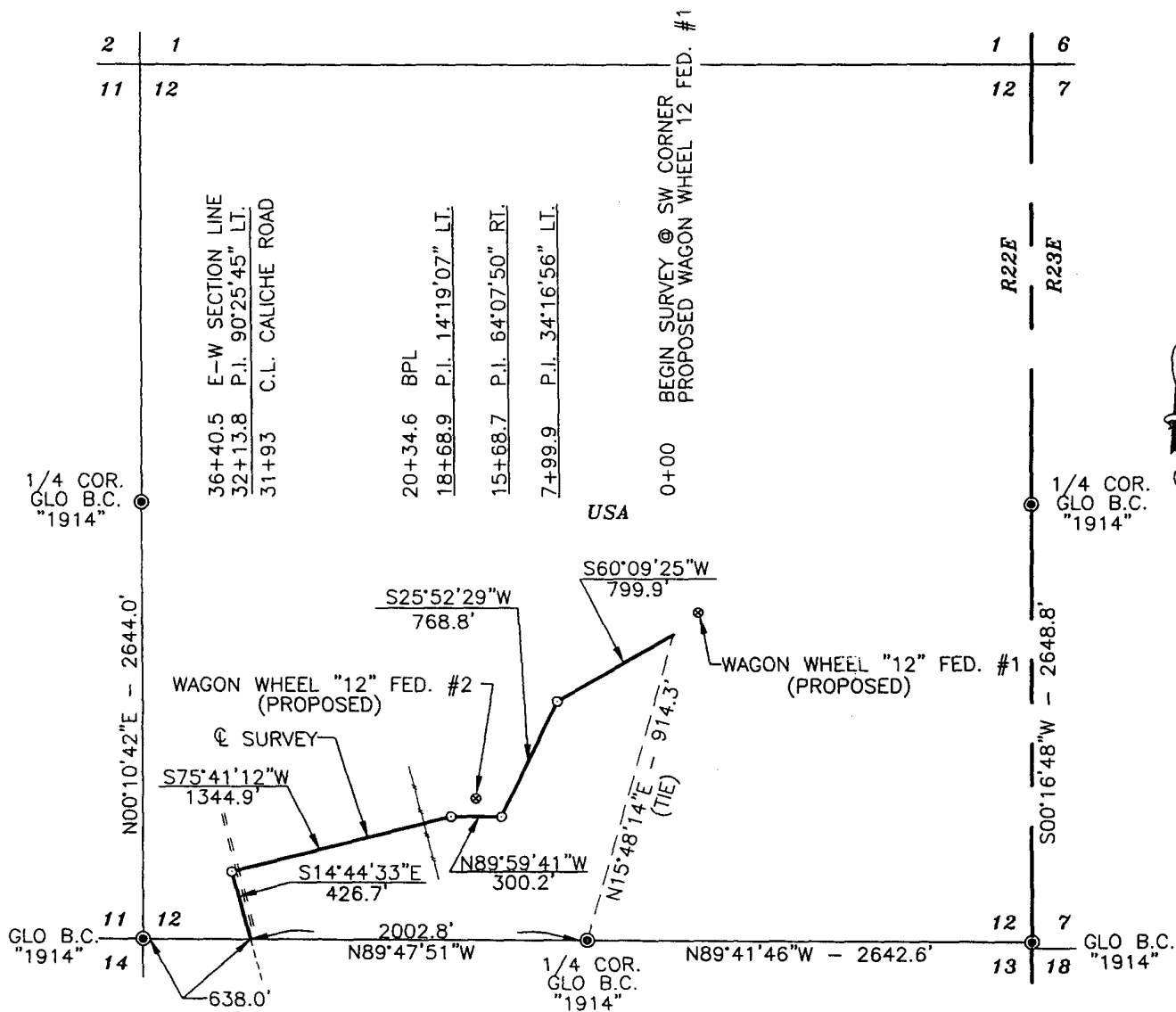




1 inch = 4000 feet

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

SECTION 12, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

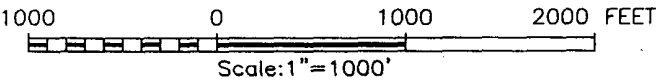


DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 3640.5 FEET OR 0.689 MILES IN LENGTH CROSSING USA LAND IN SECTION 12, 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.

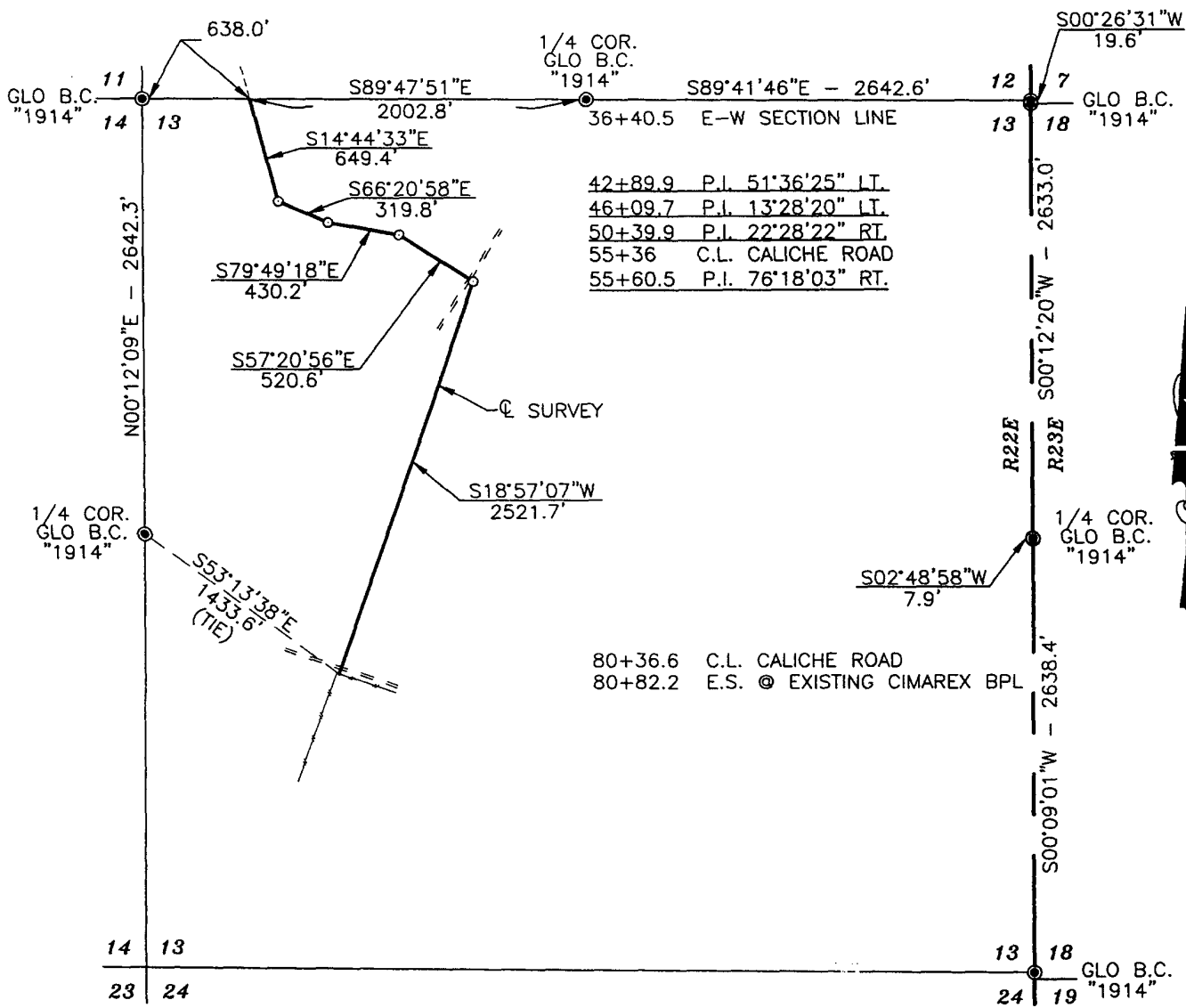


GARY G. EIDSON, N.M. P.S. No. 12641  
PROVIDING SURVEYING SERVICES  
SINCE 1948  
JOHN WEST SURVEYING COMPANY  
142 N. DAL PASO  
ROBBS, N.M. 88240  
(505) 393-3117

CIMAREX ENERGY COMPANY			
SURVEY A PIPELINE CROSSING SECTION 12, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO			
Survey Date: 4/30/04		Sheet 1 of 1 Sheets	
W.O. Number: 04.11.0468		Drawn By: L.A.	
Date: 5/04/04	DISK:CD#3	04110468	



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

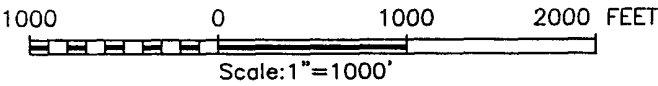


DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 4441.7 FEET OR 0.841 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.



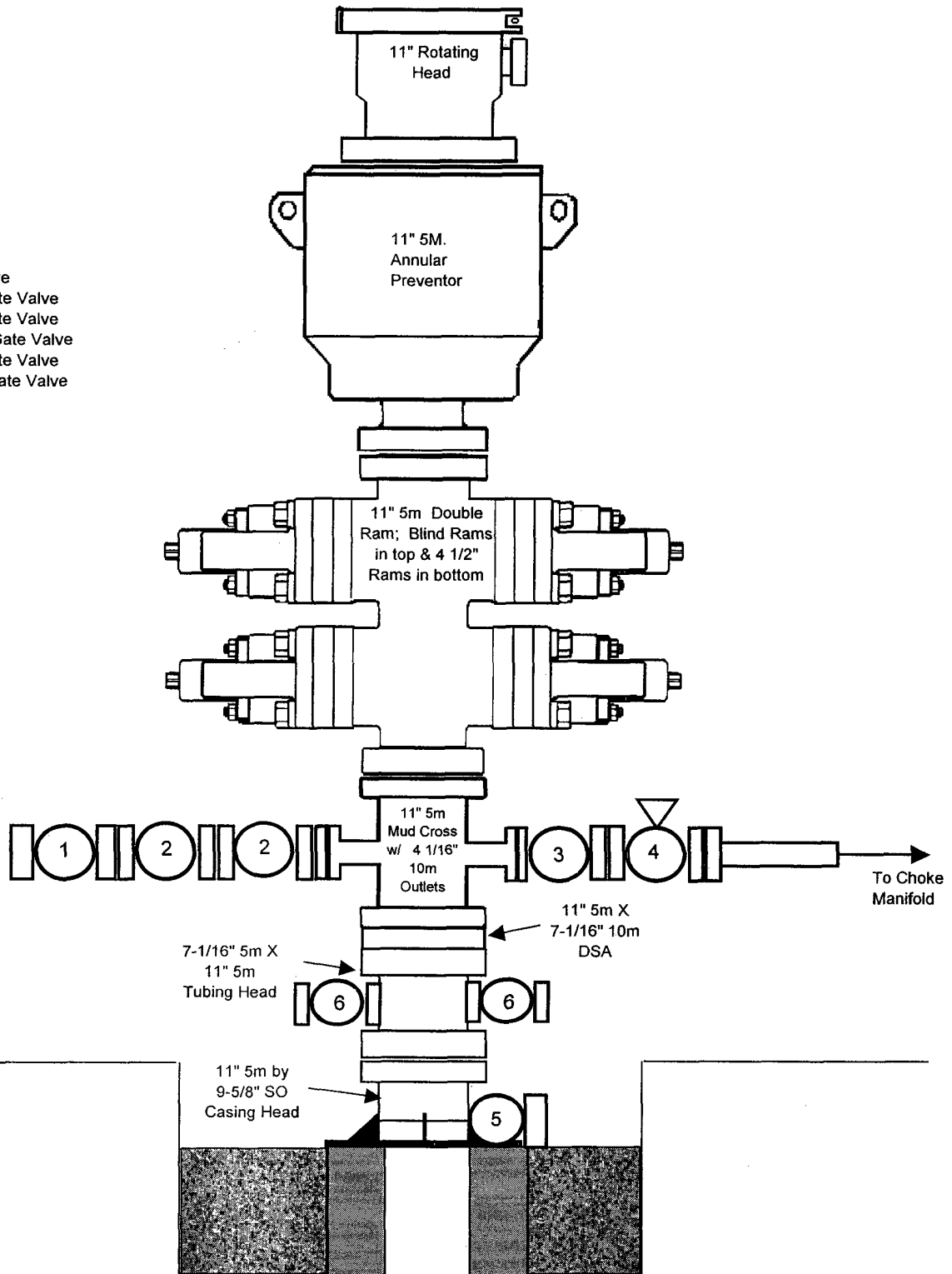
GARY G. EIDSON  
NEW MEXICO  
GARY EIDSON 12641 P.S. No. 12641  
PROVIDING SURVEYING SERVICES  
SINCE 1946  
JOHN WEST SURVEYING COMPANY  
1221 N. DAL PASO  
HOBBBS, N.M. 88240  
(505) 393-3117

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: 04.11.0468		Drawn By: L.A.	
Date: 5/04/04	DISK:CD#3	04110468	

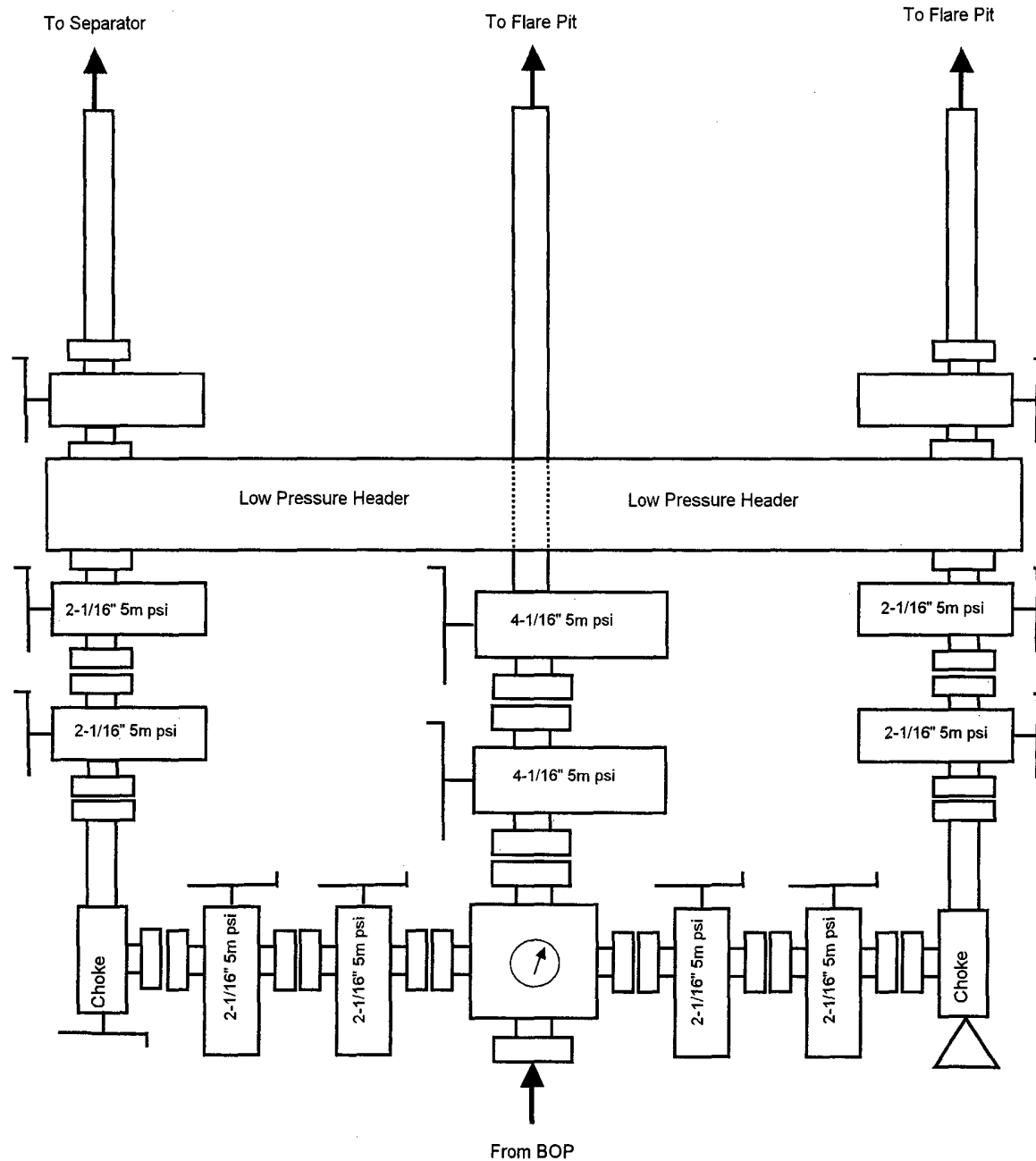
**CIMAREX ENERGY CO.**  
**Wagon Wheel "12" Federal # 1**  
**Proposed Blowout Preventor Stack**

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 12 Federal #1**  
**Choke Manifold**



**REAGAN RESOURCES, INC.**  
PROFESSIONAL LAND SERVICES

2525 N.W. Expressway, Suite 316  
P.O. Box 57053  
Oklahoma City, OK 73112  
Phone (405) 848-2707  
Fax (405) 848-2712

May 14, 2004

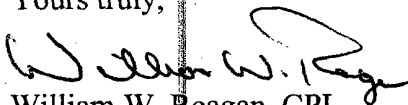
Bureau of Land Management  
Roswell Field Office  
2909 W. 2<sup>nd</sup> St.  
Roswell, NM 88201  
Attention: Linda Oswig  
Phone: (505) 627-0237

RE: Application for Permit to Drill  
Wagon Wheel '12' Federal #1  
Section 12-T22S-R22E, Eddy County, New Mexico

Dear Ms Oswig,

Please find enclosed one original and five copies of the above referenced APD for your review and approval. Please contact me concerning any inquiries, questions, scheduling of meetings and deficiency statements at the address shown above. Thank you for your assistance in this matter.

Yours truly,

  
William W. Reagan, CPL  
For Cimarex Energy Co.

WWR/enclosures

UNITED STATES 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 92739

Legal Description of Land: Sec 12-T22S-R22E NMPM  
Eddy County, New Mexico

Formation(s) (if applicable):

Bond Coverage (State if individually bonded or another's bond):

Cimarex Energy Co. is individually bonded with the BLM

BLM Bond File No.: COB000011

Authorized Signature:



Title: Drilling Superintendent

Date: June 3, 2004

9187498059 F.02

