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FEB - 5 2009



*Cimarex Energy Company of Colorado
Drilling Department
Dorsey Rogers
207 South Mesa
Carlsbad, New Mexico 8822*

A wholly-owned subsidiary of Cimarex Energy Co., a NYSE Listed Company, "XEC"

Final Closure Report

*Adrienne 6 Federal #1 Reserve Drilling Pit; API: 30-015-34319
Sec. 6 25S 26E – Eddy County, New Mexico*

Presented to:

New Mexico Oil Conservation Division

*1220 South St. Francis Drive
Santa Fe, New Mexico 87505*

Prepared by:

Phoenix Environmental, LLC.

*P.O. Box 1856
Hobbs, New Mexico 88240*



Accepted for record
NMOCD

FEB 16 2009

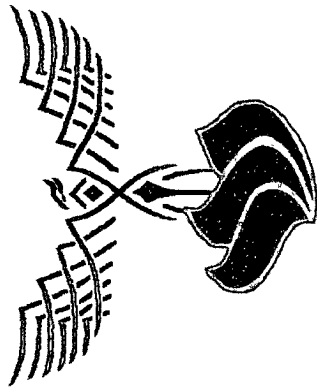
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IMPORTANT NOTICE:

Phoenix Environmental, LLC., with offices at 2113 French Drive, Hobbs, New Mexico 88241 (the Company), has prepared this project report for remediation of Adriane 6 Federal #1, to the best of its ability. No warranty, expressed or implied, is made or intended. The report was prepared for Cimarex Energy Company, with offices at 207 South Mesa, Carlsbad, New Mexico 88022, and (the Client). All information disclosed in this plan is for internal purposes only and is considered confidential. By accepting this document, the recipient agrees to keep confidential the information contained herein. The recipient further agrees not to copy, reproduce or distribute to any third party this project plan in whole or in part, without express written permission from the Company or Client.





SECTION I

French Dr., Hobbs, NM 88240
District II
301 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: Gruy Petroleum Management Co. Telephone: 972-443-6489 e-mail address: zfarris@magnumhunter.com

Address: P.O. Box 140907, Irving, Tx 75014-0907

Facility or well name: Adrienne 6 Federal No. 1 API #: 30-05-34319 U/L or Qtr/Qtr C Sec 6 T25S R 26E

County: Eddy Latitude 320956.69 N Longitude 1042007.74 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.

RECEIVED

JUN 13 2005

MOCD-ARTESIA

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

Date: 06-09-05

Printed Name/Title Zeno Farris Manager Operations Administration

Signature *Zeno Farris*

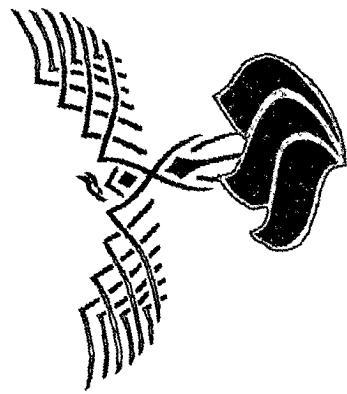
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with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

Approval: JUN 14 2005

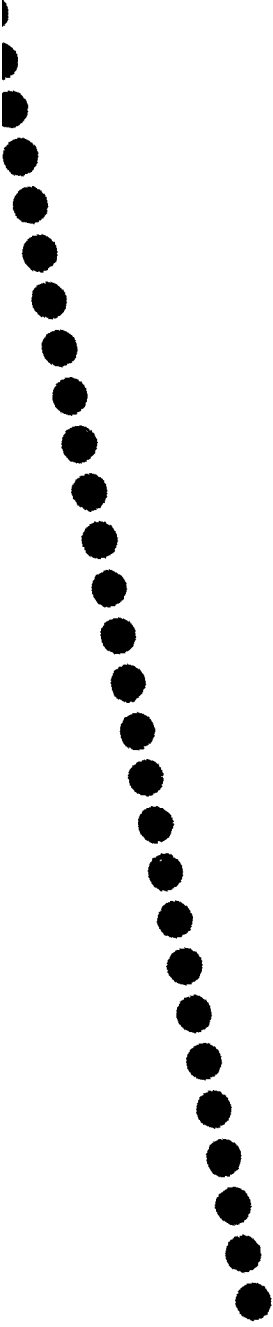
Date:

Printed Name/Title

Signature *[Signature]*



SECTION II





Project Overview

Phoenix Environmental, LLC. (Phoenix) was contracted for the closure of a reserve-drilling pit on the Adrienne 6, Federal #1, belonging to Cimarex Energy Co... The Adrienne 6 Federal #1 is located in Section 6 T25S R26E. The GPS Reading is 32°09'57.6"N & 104°20'07.0"W, with an elevation of 3503 feet above sea level. The land, in and around the site, is primarily used as domestic pasture for ranching and the production of oil and gas. The pit site is located on the west side of the location.

The potential contaminants of concern were mid- to high-level concentrations of drill cuttings that were left on the drying pad once drilling operations were completed.

The ground water depth data available from the State of New Mexico Engineers' office showed the vertical depth to the top of water to be about 120 feet below surface.

Pursuant to the NMOCD guidelines for clean up of unlined surface impoundments, the clean up level for this site will be at <100 ppm for TPH (Total Petroleum Hydrocarbons) and <50 ppm for BTEX (Benzene, Toluene, Ethylbenzene, and Xylene). The NMOCD has also asked for CL (Chlorides) be returned back as close to background levels as possible or <250 ppm.

Findings and Conclusion

It appeared that in excess of 1500 cubic yards of impacted soil were left on the drying pad area with the dimensions of 100x100.

The bottom of the excavation (approximately 3 feet) was tested for TPH, BTEX & Chlorides to make certain that the target limits had been met prior to backfilling and compaction for closure. The site cleaned up well with vertical depth of impact, listed above at 3 feet and not impacting groundwater. All of the final lab analyses were below the NMOCD guidelines for unlined surface impoundments (refer to attached laboratory reports for actual levels.)

The site was backfilled and compacted with clean backfill and contoured with a crown back to grade to prevent ponding on the area. The site was reseeded and should vegetate very well with upcoming rains.

Chronology of Operations

1. *December 15, 2006 – Phoenix mobilized on-site. The first order on the agenda was a tailgate safety meeting to review any potential safety concerns of the site and to cover the clean- up operations. (Please note that a daily safety meeting is the first order of the day before any work begins on site). New Mexico One Call was notified of the intent to finish the pit closure*
2. *December 18, 2006 – Crew began excavation of the deep bury entombment pit. Crew encountered hard rocks at 7'. Crew utilized Hammer to begin breaking up the hard rocks.*
3. *December 19 -21, 2006 – Crew continued to hammer out big rocks*
4. *December 26 -29, 2006 – Crew continued to excavate big rocks out of deep bury entombment pit.*
5. *January 2-6, 2007 - Crew continued to excavate deep bury entombment pit.*
6. *January 8-10, 2007 – Crew continued to excavate deep bury entombment pit.*
7. *January 11, 2007 – Crew finished excavating deep bury entombment pit. The bottom of the deep bury pit was cleaned and dressed to prevent damage to liner. The deep bury pit was lined with 12 mil HDPE bottom. The crew transferred drill cuttings from drying pad to the deep bury entombment pit.*
8. *January 12, 2007– Crew finished transferring drill cuttings from drying pad to deep bury pit. The bottoms of the drying pad was cleaned and final samples were taken and sent to a third party laboratory for analysis of TPH, BTEX, and Chlorides for final verification of the limits met. (Please refer to attached reports, pages 5 through 9 of this report).*
9. *January 15, 2007- Crew cleaned and dressed location and pit. The deep bury pit was capped with a 20 mil HDPE top.*
10. *January 16, 2007 – Crew push in material from location to backfill drying pad and deep bury entombment pit. Final contouring and compactions was implemented to return the site back to grade. Contouring was completed with a crown to prevent rainwater ponding.*



Final Closure Report

Page 4 of 12

Company: Cimarex Energy Company of Colorado

Location: Adrianne 6 Federal #1

Limitations

Phoenix Environmental LLC has prepared this report to the best of its ability. No other warranty expressed, implied or intended is made.

This report has been prepared for Cimarex Energy Company of Colorado our client. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent from Phoenix Environmental LLC and/or the client.

Certification

The following Phoenix/Cimarex personnel have reviewed this report and verify that to the best of their knowledge the contents are true and correct.

Name: **Allen Hodge, REM # 7096**

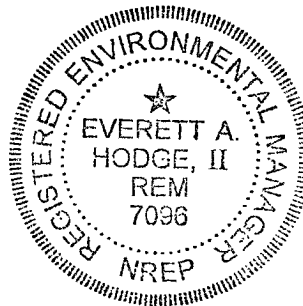
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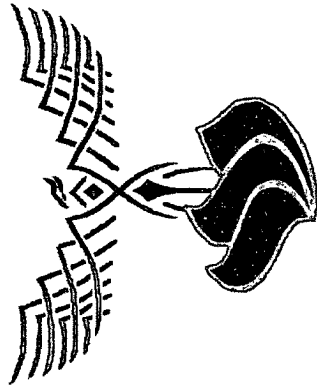
Title: VP Operations
Phoenix Environmental LLC

Name: **Dorsey Rogers**

Signature: 

Title: Drilling Superintendent
Cimarex Energy Company of Colorado





SECTION III



SUMMARY SOIL ANALYSIS REPORT

Client: Cimarex Energy Co.
Supervisor: Allen Hodge
Sample Matrix: Soil

Facility: Adriane 6 Fed. #1
Order No.: Dorsey Rogers
Samples Received: Intact on site

Initial Project Screening

Sample	Date	Depth	Chlorides	TPH	BTEX	Location	Test Method
#1							
#2							
#3							
#4							
#5							
#6							

Samples reported in parts per million (ppm) and depth is in feet (') and inches (")

Interim Project Screening

Sample	Date	Depth	Chlorides	PID TPH	PID BTEX	Location	Test Method
#1	1/12/07	3'	<50			Southeast Quarter	EPA 325.3
#2	1/12/07	3'	<50			Southwest Quarter	EPA 325.3
#3	1/12/07	3'	110			Northeast Quarter	EPA 325.3
#4	1/12/07	3'	130			Northwest Quarter	EPA 325.3
#5	1/12/07	3'	<50			Center	EPA 325.3
#6	1/12/07	0-6"	<50			Background	EPA 325.3
#7							
#8							
#9							
#10							
#11							
#12							
#13							
#14							
#15							
#16							

Samples reported in parts per million (ppm) and depth is in feet (') and inches (")

Final (Third Party Laboratory) Project Screening Verification

Sample	Date	Depth	Chlorides	TPH	BTEX	Location	Test Method
#1	1/16/07	3'	8.28			Southeast Quarter	See Report
#2	1/16/07	3'	<40.0			Southwest Quarter	See Report
#3	1/16/07	3'	94.2			Northeast Quarter	See Report
#4	1/16/07	3'	113			Northwest Quarter	See Report
#5	1/16/07	3'	26.7			Center	See Report
#6	1/16/07	0-6"	<50			Background	See Report
#7							

Samples reported in parts per million (ppm) and depth is in feet (') and inches (")



Phoenix Environmental, LLC.

P.O. Box 1856 – 2113 French Drive

Hobbs, New Mexico 88241

505.391.9685 – FAX: 505.391.9687

SOIL ANALYSIS REPORT

Date: 1/12/07

Client: Cimarex Energy Co.

Supervisor: Allen Hodge

Sample Matrix: Soil

Facility: Adrienne 6 Fed. #1

Test Method: EPA 325.3

Order No.: Dorsey Rogers

Sample Received: Intact on site

<u>Sample</u>	<u>Cl (ppm)</u>	<u>Depth (feet)</u>	<u>Location</u>
#1	<50	3'	Southeast Quarter
#2	<50	3'	Southwest Quarter
#3	110	3'	Northeast Quarter
#4	130	3'	Northwest Quarter
#5	<50	3'	Center
#6	<50	0-6"	Background

COMMENTS: Sample does not meet limits for NMOCD guidelines for unlined pit closure.

Report Date: January 16, 2007
Adriane 6 Fed #1

Work Order: 7011602

Page Number: 1 of 2
Eddy Co.,NM

Summary Report

Allen Hodge
Phoenix Environmental
P.O. Box 1856
Hobbs, NM, 88241

Report Date: January 16, 2007

Work Order: 7011602



Project Location: Eddy Co.,NM
Project Number: Adriane 6 Fed #1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
113994	1-SE 1/4 @ 3'	soil	2007-01-15	12:00	2007-01-15
113995	2- SW 1/4 @ 3'	soil	2007-01-15	12:15	2007-01-15
113996	3-NE 1/4 @ 3'	soil	2007-01-15	12:40	2007-01-15
113997	4- NW 1/4 @ 3'	soil	2007-01-15	13:10	2007-01-15
113998	5-Center 1/4 @ 3'	soil	2007-01-15	13:30	2007-01-15
113999	6-Background @ 0-6 Inch	soil	2007-01-15	13:55	2007-01-15

Sample: 113994 - 1-SE 1/4 @ 3'

Param	Flag	Result	Units	RL
Chloride		8.28	mg/Kg	2.00

Sample: 113995 - 2- SW 1/4 @ 3'

Param	Flag	Result	Units	RL
Chloride		<40.0	mg/Kg	2.00

Sample: 113996 - 3-NE 1/4 @ 3'

Param	Flag	Result	Units	RL
Chloride		94.2	mg/Kg	2.00

Sample: 113997 - 4- NW 1/4 @ 3'

Param	Flag	Result	Units	RL
Chloride		113	mg/Kg	2.00

Report Date: January 16, 2007
Adriane 6 Fed #1

Work Order: 7011602

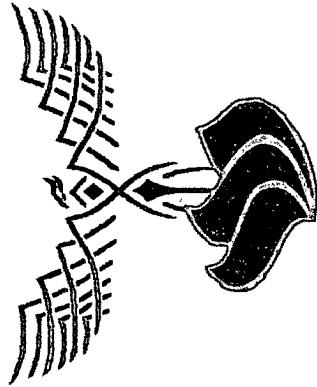
Page Number: 2 of 2
Eddy Co., NM

Sample: 113998 - 5-Center 1/4 @ 3'

Param	Flag	Result	Units	RL
Chloride		26.7	mg/Kg	2.00

Sample: 113999 - 6-Background @ 0-6 Inch

Param	Flag	Result	Units	RL
Chloride		9.46	mg/Kg	2.00



SECTION IV

Cimarex Energy

Adrienne 6 Fed #1

UL-C SEC-6 - T25S - R26E

API # 30 - 015 - 34319

N32° - 09' - 57.6" - W104° - 20' - 07.0"

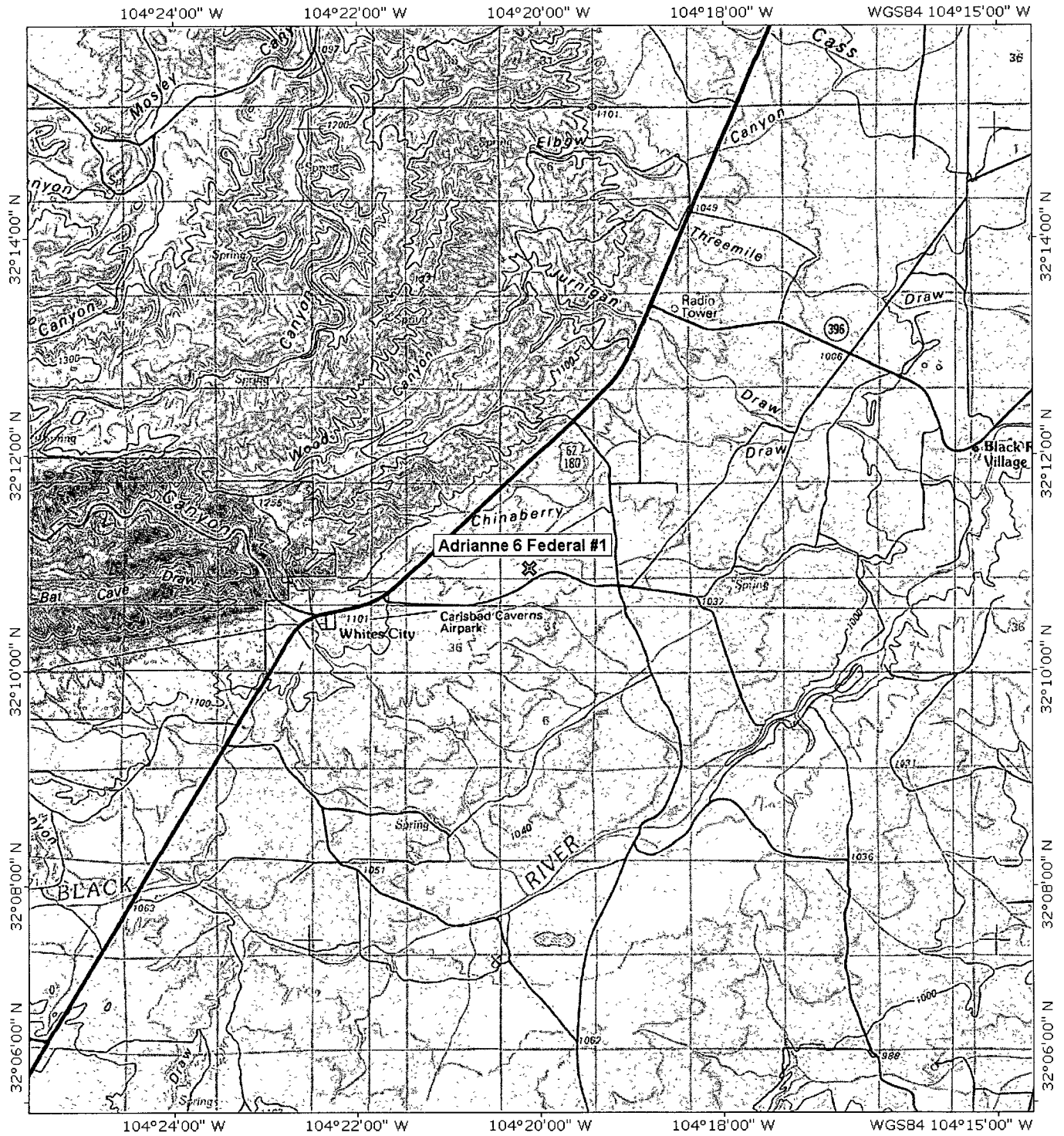
Deep Bury Pit

Drying Pad

Location



TOPO! map printed on 01/22/09 from "Untitled.tpo"

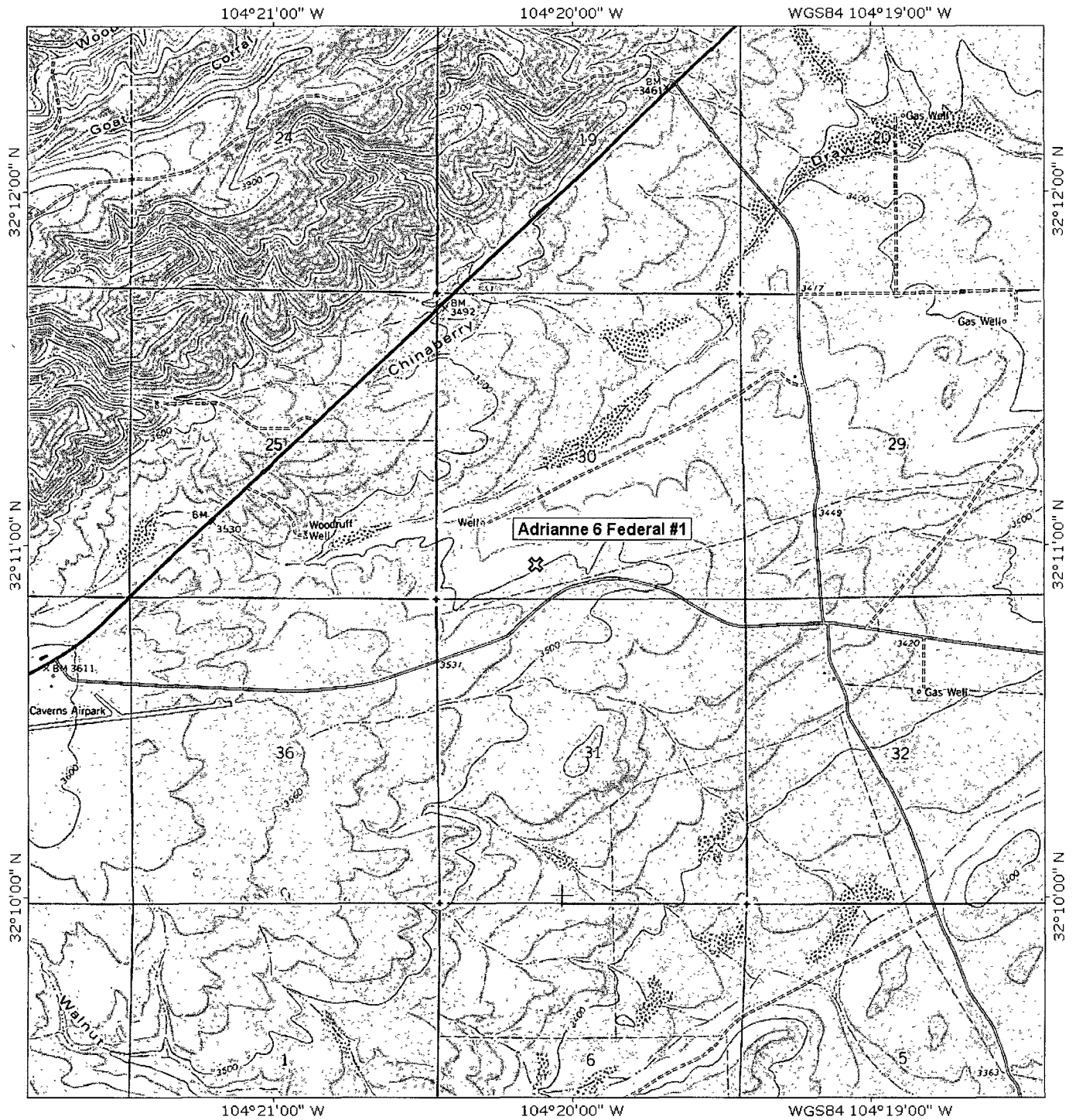


TN* MN
8 1/2°

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TOPO! map printed on 01/22/09 from "Untitled.tpo"



TN MN
8 1/2°

0 5 1 MILE
0 1000 FEET 0 500 1000 METERS
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