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FEB 14 2005

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

Form 3160-3
(April 2004)

OGD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.
NM 92739

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
LA Federal #2 (re-entry)

9. API Well No.
30-015-22883

1a. Type of work: ☐ DRILL ☒ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
Cimarex Energy Co.

3a. Address **15 E 5th, Ste 1000
Tulsa, OK 74103**

3b. Phone No. (include area code)
918-585-1100

10. Field and Pool, or Exploratory
Morrow

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface **Sec 12-22S-22E; 661' FNL & 1980' FWL, Eddy County**
At proposed prod. zone **Same**

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 12-T22S-R22E

14. Distance in miles and direction from nearest town or post office*
31 miles West and 3 miles South of Carlsbad NM

12. County or Parish
Eddy

13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
3750'

16. No. of acres in lease
2240.48 acres

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. **2000'**

19. Proposed Depth
9500'

20. BLM/BIA Bond No. on file
COB000011

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4144'

22. Approximate date work will start*
09/24/2004

23. Estimated duration
45 days

24. Attachments

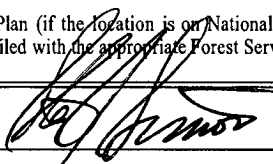
CARLSBAD CONTROLLED WATER BASIN

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.
2. A Drilling Plan.
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).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. 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
08/19/2004

Title

Drilling Superintendent

Approved by (Signature) **/s/ Tony J. Herrell**

Name (Printed/Typed) **/s/ Tony J. Herrell**

Date
FEB 11 2005

Title

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)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Cimarex Energy Co., LA Federal #2 Section 12-T22S-R22E, Eddy County, New Mexico. (Federal Lease No. US NM 92739).

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 Eddy Co Rd #401 (Marathon Plant Road) and Cawley Rd, go south on Cawley Rd for 0.9 mi. At “Y” go right (SW) for 0.8 miles. Road bends left and goes south for 0.5 mi. At “Y” turn right and go SW 0.5 mi to another “Y”. Go left heading SW for 0.75 mi. Road bends to the left and heads south for 1.0 mi. At “T” in road, turn left and follow road 0.75 mi bending SE. Turn right and go NW for 0.4 mi. Road bends back left (after cattleguard) and go 0.3 mi SW. Road bends right and heads NW for 2.2 mi to end of road well pad. Take two track NE 0.6 mi to proposed road survey. Follow road survey approx 900’ to this 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 west 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:** 883’ 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 883’ of new access road to the proposed LA 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 approximate 1.3' cut along the South side of the well site and an approximate 1.5' fill along the North side of the well site will be required. An approximate 1.0' cut along the West side of the well site and an approximate 0.4' 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. 2964.9' 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

8/18/04
DATE

CIMAREX ENERGY CO.**WELL NAME:** LA Federal #2**DRILLING PROGNOSIS**

1. Location of Proposed Well: 661' FNL & 1981' FWL Section 12, T22S-R22E
Eddy County, New Mexico
2. Unprepared Ground Elevation: 4144'
3. The geological name of the surface formation is Queen
4. Type of drilling tools will be rotary
5. Proposed drilling depth is 7500'

The estimated tops of important geologic markers are as follows:

<u>ZONES</u>	<u>TOPS (MD)</u>
Queen	Surface
San Andres	321
Glorieta	1900
Yeso	1947
Bone Spring	3096
Bone Spring 3 rd SS	5546
Wolfcamp	5659
Wolfcamp "D"	6452

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
Wolfcamp	6504 - 6522'	Gas

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

Surface: 13-3/8" 48# H-40 ST&C casing set @ 500'. Burst – 1730 psi, Collapse – 740 psi, Joint Strength – 322,000#, Body Strength – 541,000#. (Values are quoted for new pipe.) Cemented 4-1979, details below.

Intermediate: 8-5/8", 24 ppf, K-55, ST&C set at 2004'.

Burst – 2020 psi, Collapse – 3520 psi, Joint Strength – 394,000#, Body Strength – 564,000#. (Values are quoted for new pipe.) Cemented 4-1979, details below.

Production: 5-1/2", 17 ppf, N80, LTC set at 7500';

Burst – 7740 psi, Collapse – 6280 psi, Joint Strength – 348,000#, Body Strength – 397,000#

9. Cement Program:

Surface 13-3/8"

Cemented 4-1979 with 500 sks Class C with 8 yds of Redi-Mix around Top

Intermediate 9- 5/8"

Cemented 4-1979 with 300 sks Quik-Set + 900 sks Lite Wt with 5 pps gilsonite & ¼ pps Flocele + 200 sks Class C. Topped out with 1" pipe with 450 sks Class C in 5 stages.

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
0-500	N/A			
500 - 2004	N/A			
2300 – 9800	8.4 – 9.5	28 – 45	NC-10	Low Solids / Lightly dispersed

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

BHC Sonic Log 2,050' to 7,200'

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: Wolfcamp - +/- **3000 psi**

14. The anticipated starting date is sometime around September 17, 2004 with duration of drilling/completion operations for approximately 45 days thereafter.

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name LA FEDERAL	Well Number 2
OGRID No.	Operator Name CIMAREX ENERGY COMPANY	Elevation 4144'

Surface Location

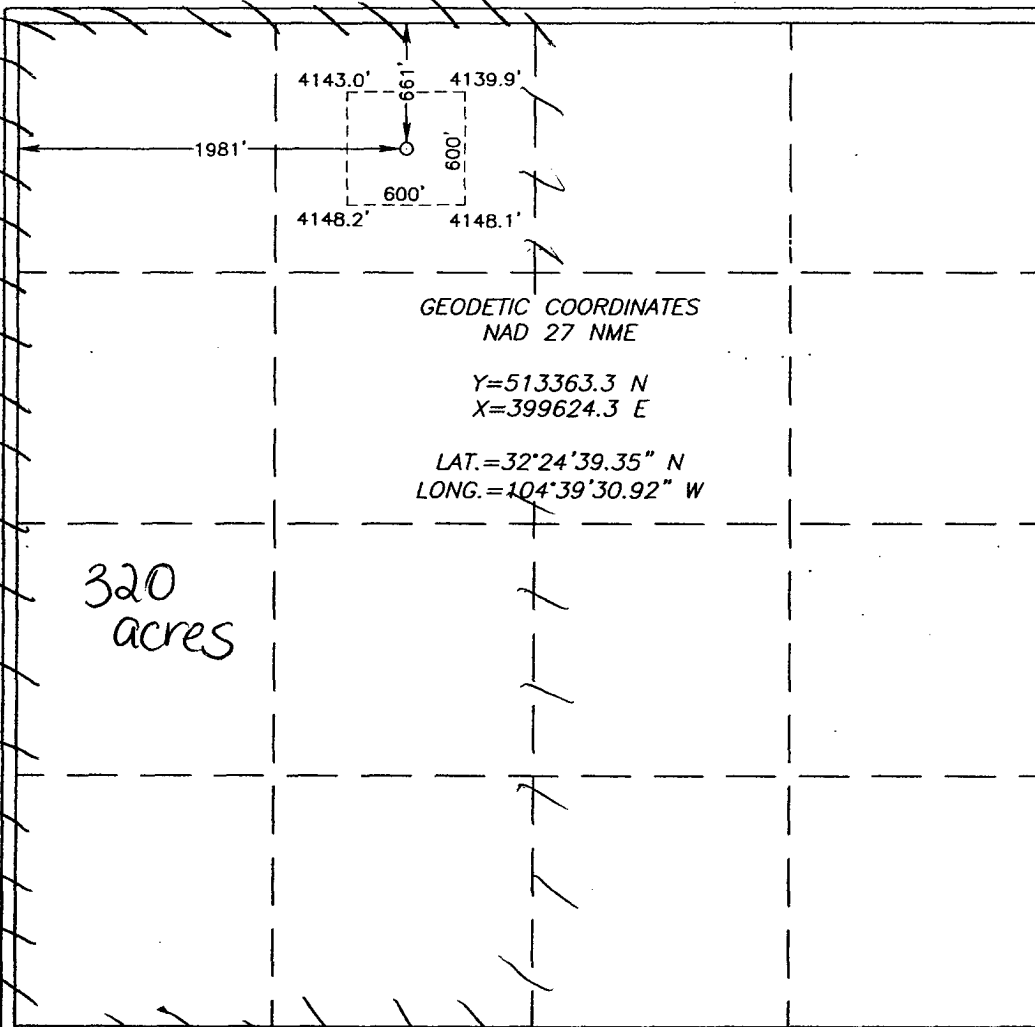
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	12	22-S	22-E		661'	NORTH	1981'	WEST	EDDY

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	Joint or Infill	Consolidation Code	Order No.
320			

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

Printed Name

Title

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.

AUGUST 6, 2004

Date Surveyed

LA

Signature and Seal of Professional Surveyor

Ronald J. Eidson
04.11.1011

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12841

SECTION 12, TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,

EDDY COUNTY,

NEW MEXICO

4143.0'

600'

4139.9'

150' NORTH
OFFSET
4142.5'



LA FEDERAL #2



ELEV. 4144'

LAT. = 32°24'39.35" N

LONG. = 104°39'30.92" W

150' WEST
OFFSET
4145.0'

150' EAST
OFFSET
4143.6'

600'

600'

PROPOSED ROAD
N89°08'W - 883'

150' SOUTH
OFFSET
4145.3'

4148.2'

600'

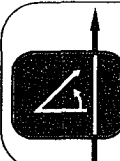
4148.1'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF EDDY CO. RD. #401 (MARATHON PLANT ROAD) AND CAWLEY ROAD GO SOUTH ON CAWLEY ROAD FOR 0.9 MILES. AT "Y" GO RIGHT (SW) FOR 0.8 MILES. ROAD BENDS LEFT AND GOES SOUTH FOR 0.5 MILES. AT "Y" TURN RIGHT AND GO SOUTHWEST 0.5 MILES TO ANOTHER "Y". STAY RIGHT AND GO WEST FOR 0.75 MILES TO ANOTHER "Y". GO LEFT HEADING SOUTHWEST FOR 0.75 MILES. ROAD BENDS TO THE LEFT AND HEADS SOUTH FOR 1.0 MILE. AT "T" IN ROAD TURN LEFT AND FOLLOW ROAD 0.75 MILES BENDING SOUTHEAST. TURN RIGHT AND GO NORTHWEST FOR 0.4 MILES. ROAD BENDS BACK LEFT (AFTER CATTLE GUARD) AND GO 0.3 MILES SOUTHWEST. ROAD BENDS RIGHT AND HEADS NORTHWEST FOR 2.2 MILES TO END OF ROAD WELL PAD. TAKE TWO TRACK NORTHEAST 0.6 MILES TO PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY 900'± TO THIS LOCATION.

100 0 100 200 Feet

Scale: 1" = 100'



PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

CIMAREX ENERGY COMPANY

LA FEDERAL #2 WELL
LOCATED 661 FEET FROM THE NORTH LINE
AND 1981 FEET FROM THE WEST LINE OF SECTION 12,
TOWNSHIP 22 SOUTH, RANGE 22 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 8/06/04 Sheet 1 of 1 Sheets

W.O. Number: 04.11.1011 Dr By: LA Rev 1: N/A

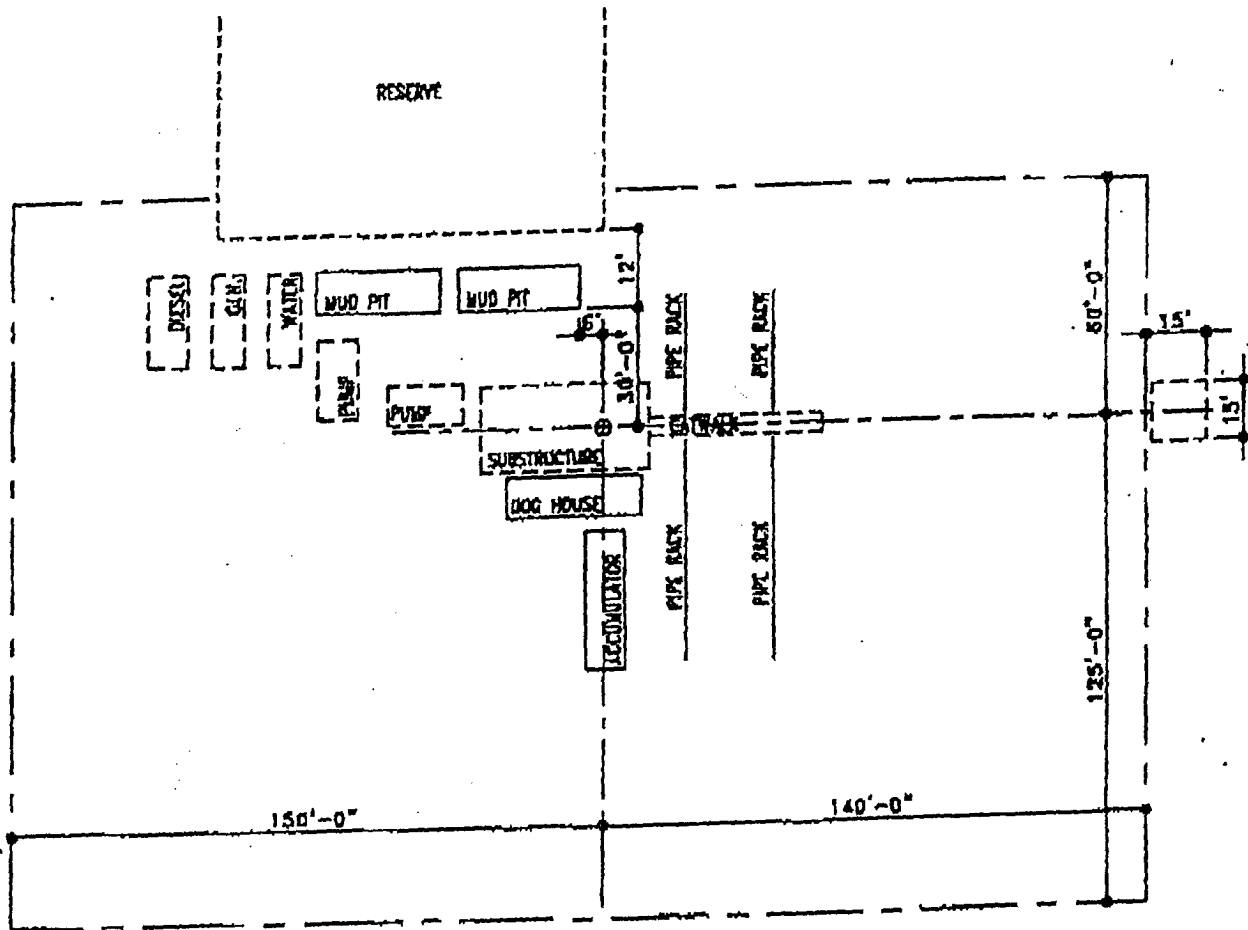
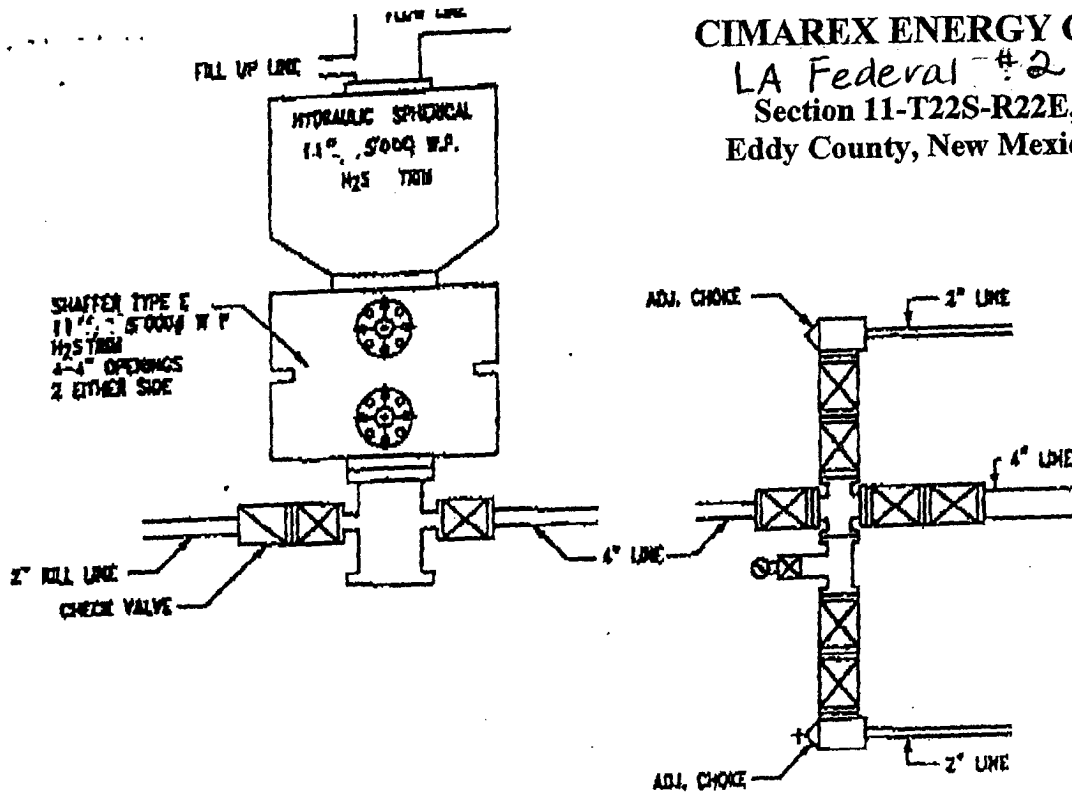
Date: 8/11/04 Disk: CD#3 04111011 Scale: 1" = 100'

CIMAREX ENERGY CO.,

LA Federal #2

Section 11-T22S-R22E,

Eddy County, New Mexico.



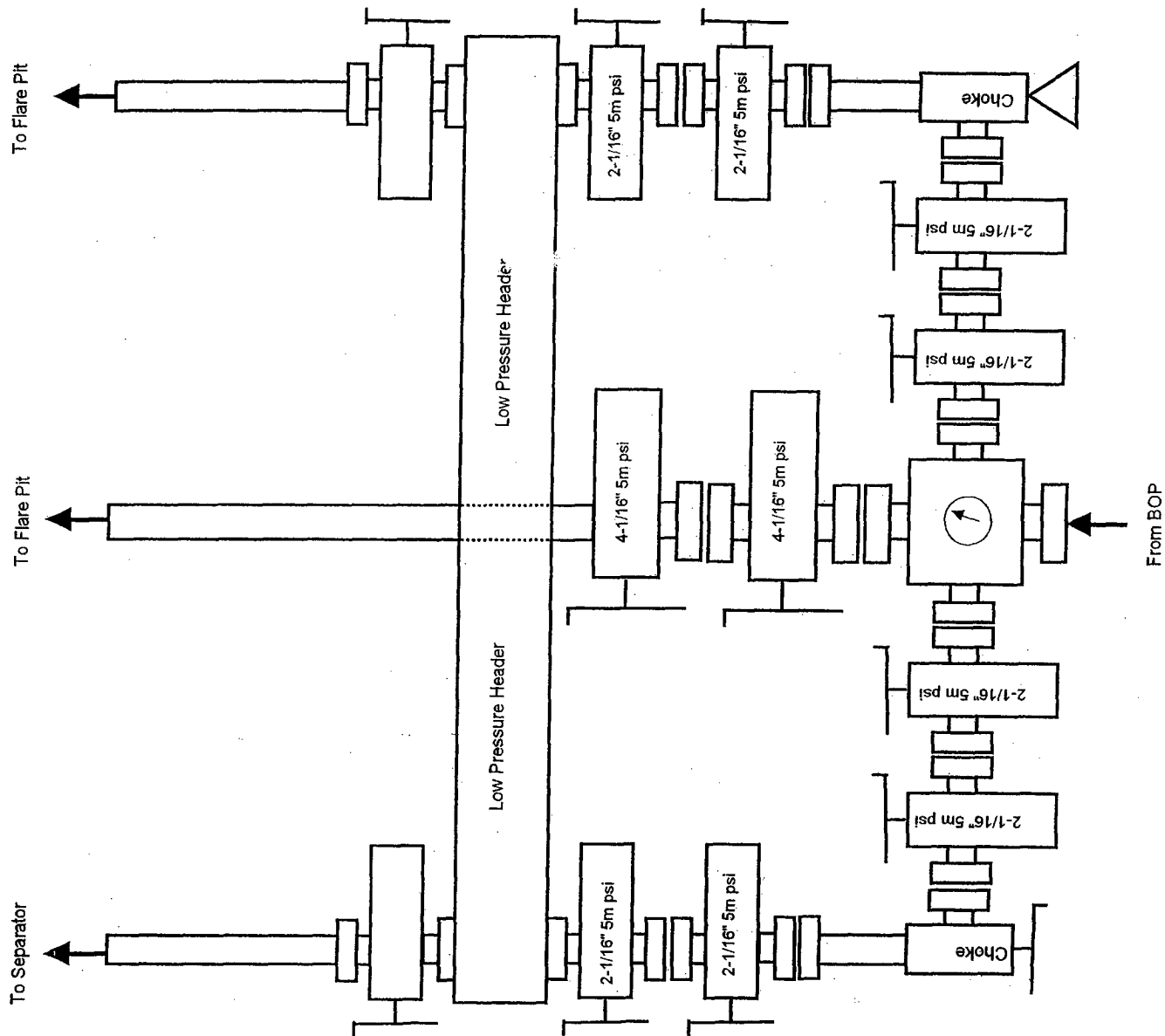
Proposed Blowout Preventor Stack



- 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. – LA FEDERAL #2 (RE-ENTRY)

Choke Manifold



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 92739

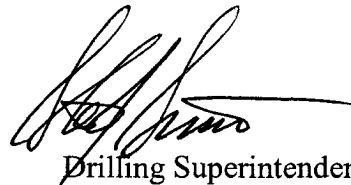
Legal Description of Land: Sec 24-22S-22E
Eddy County, NM

Formation(s) (if applicable):

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

BLM Bond File No.: C0B000011

Authorized Signature:



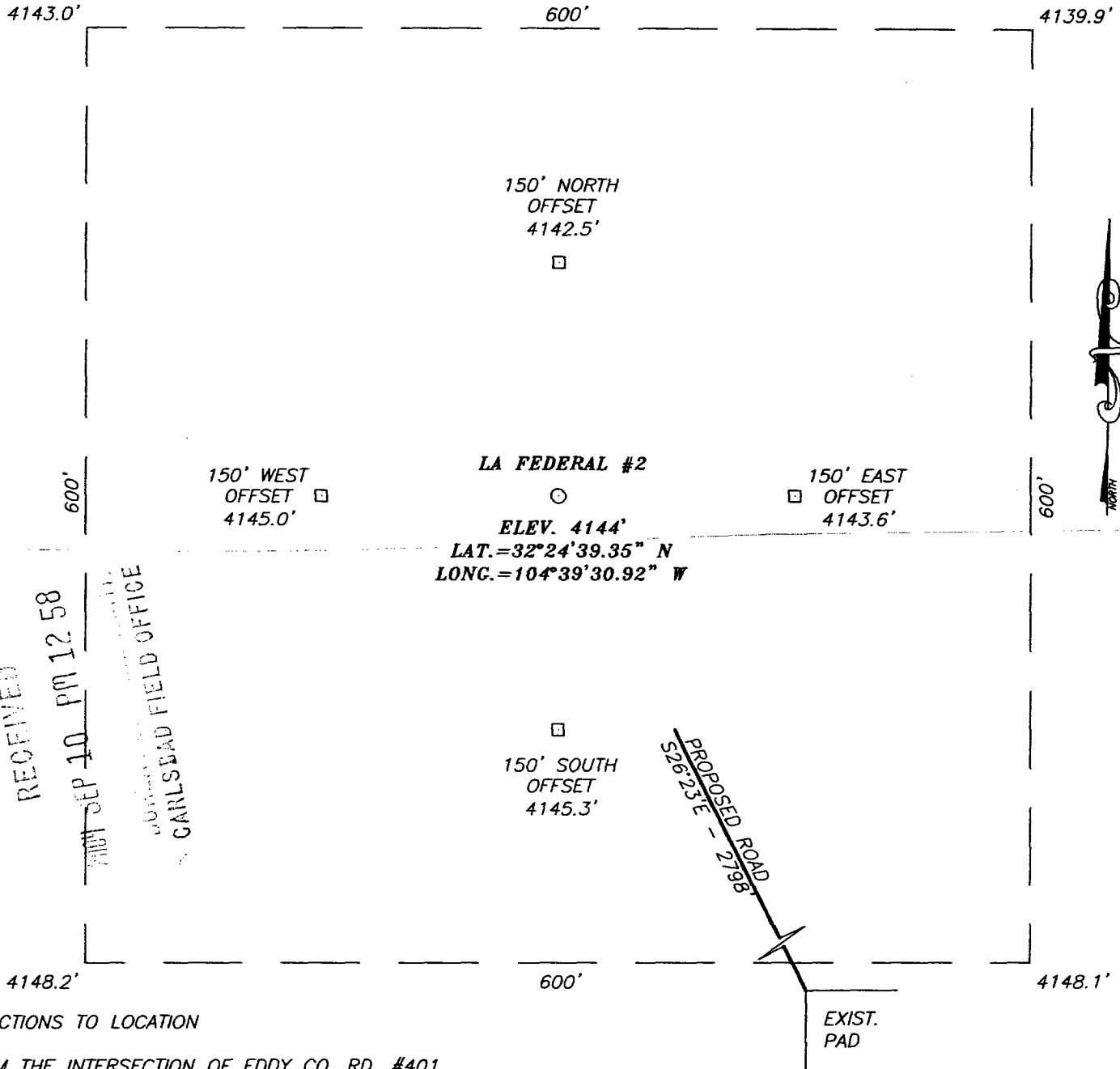
Title:

Drilling Superintendent

Date:

August 16, 2004

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



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 CARLSEAD FIELD OFFICE

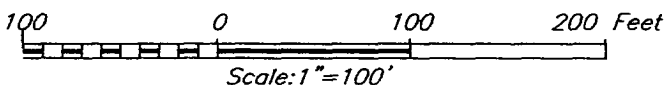
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 EDDY COUNTY, NEW MEXICO.



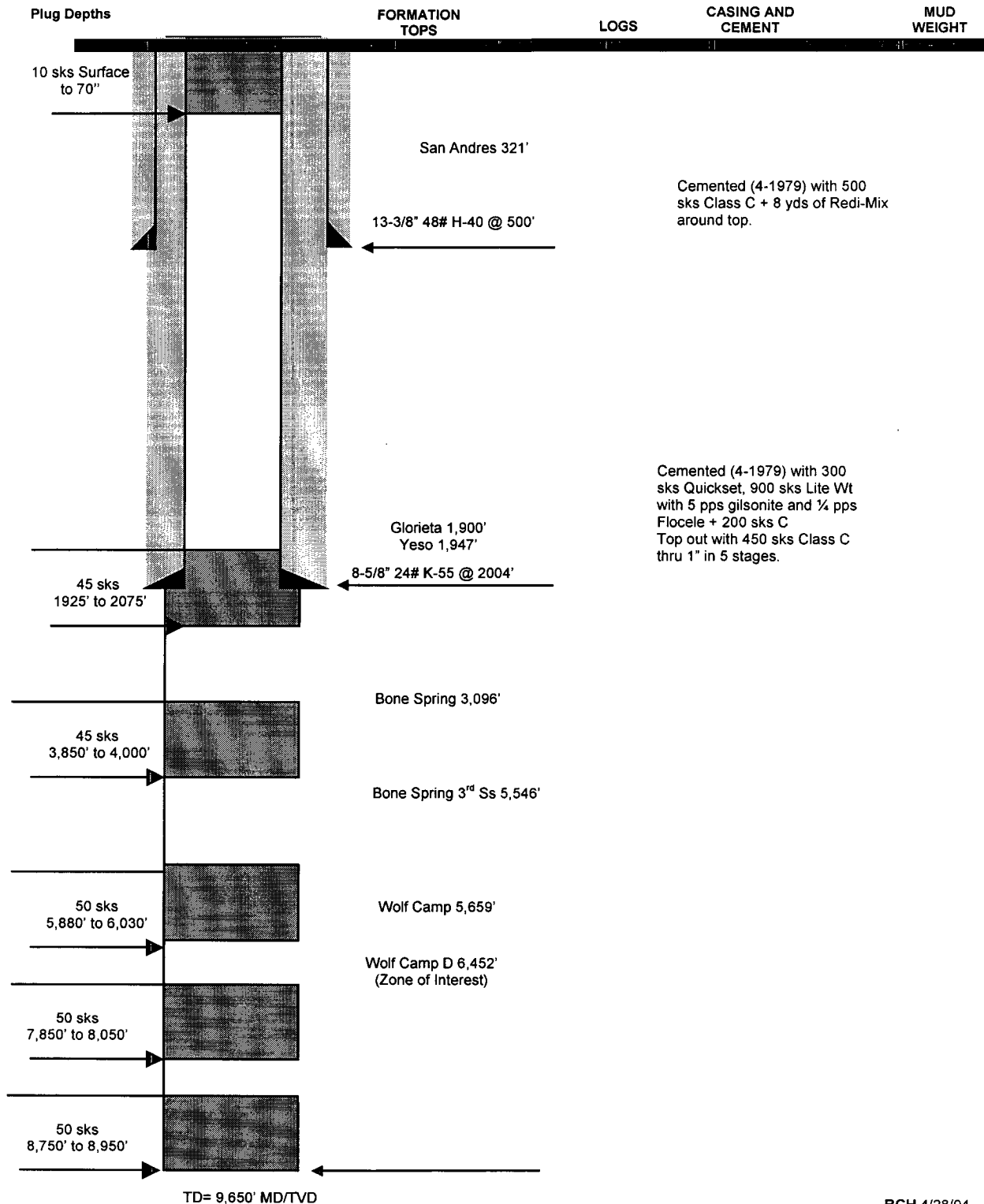
Survey Date: 8/06/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.1011	Dr By: LA
Date: 8/11/04	Disk: CD#3
04111011	Rev 1: 9/9/04
Scale: 1"=100'	

Current Well Configuration

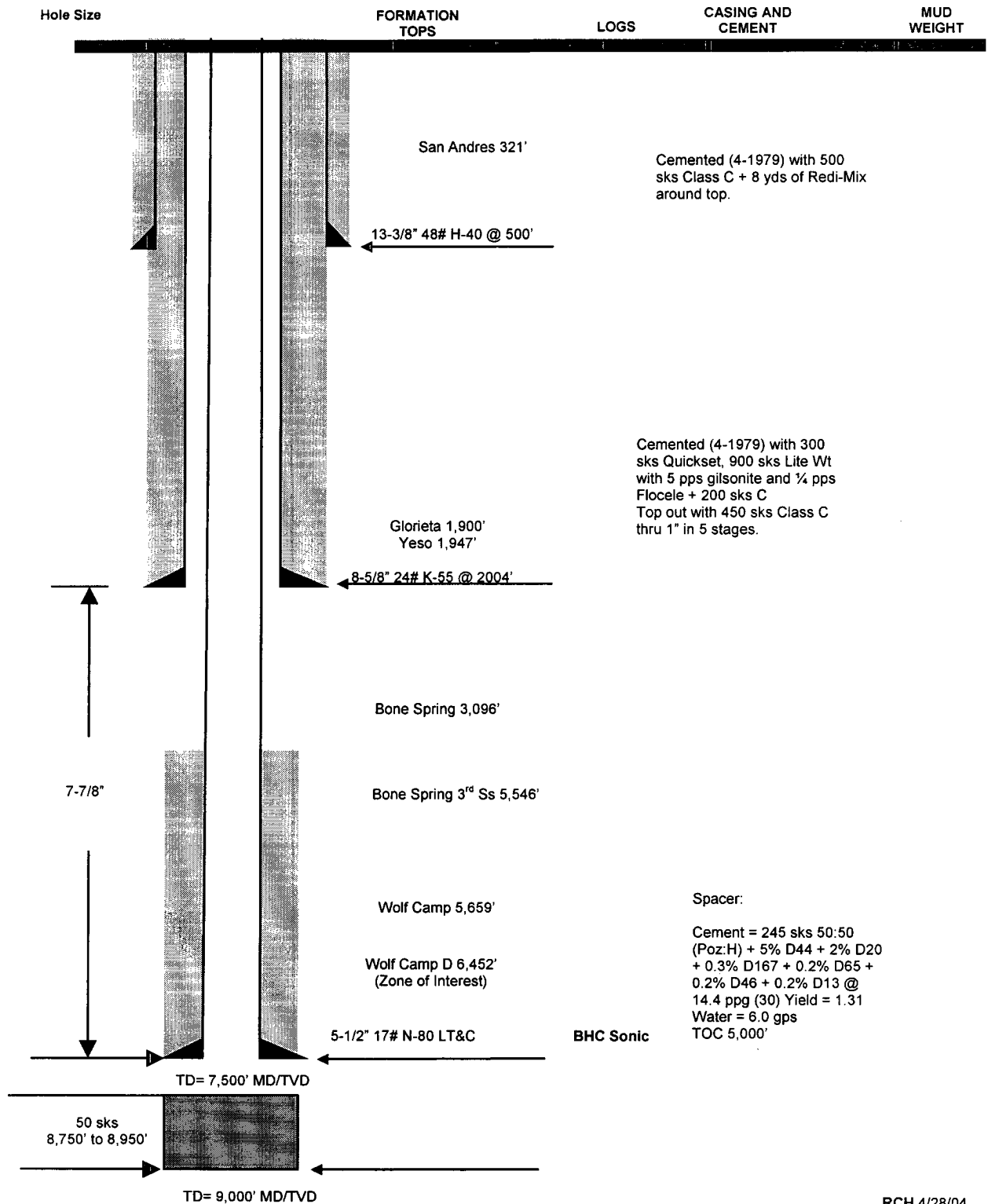


WELL : LA Federal #2
LOCATION : Sec: 12 22S 22E
 : Eddy County, New Mexico
Surf. Loc. : ' 660' FNL & 1,980' FWL
Target Loc. : Same as above
Phone :
Email :
Wellhead : 11" 5M x 8-5/8" sow
 : 2-9/16 5K Tree
Tubing : 6,650' 2-7/8" 6.5# N-80

AFE No. :
FIELD : Solomon
OBJECTIVE : Wolfcamp
TVD/MD : 7,500
Cementing : Schlumberger
Mud : Baroid
Bits : HTC
Rig :
Offset Well Logs :



Proposed Well Configuration





Drilling Plan

1. Check location/Clean up as necessary
2. Locate Work Over Rig
3. File Sundry Notice
4. MIRT
5. RURT
6. Install 11" 5m x 8-5/8" SOW
7. Nipple up BOP
8. Test BOP
9. Drill Surface Plug
10. Wash/Clean to \pm 1,925'
11. Circulate casing
12. Test Surface casing to 1,200 psi surface pressure.
 - a. 8-5/8" 24# K-55 Assume lowest grade Burst = 2,950 psi.
 - b. Assume water in casing.
13. Record for 15 mins
14. Drill plug to 2,075 ft
15. Wash/Ream to 3,850'
16. Drill plug from 3,850' to 4,000'
17. Wash/Ream to 5,880'
18. Drill plug from 5,880' to 6,030'
19. Wash/Ream to 7,500'
20. C&C
21. POOH
22. Run BHC Sonic Log
23. TIH
24. C&C
25. LDDP
26. P/U 5-1/2" casing
27. C&C for cement job
28. Cement
29. WOC/ NDBOP's
30. Set Slips on 5-1/2" w/ 170,000 lbs
31. Cut off casing
32. Remove BOP's
33. Install 11" 5M X 7-1/16" 5m TBG Head
34. Completion procedure to follow.