

OCD-HOBBS  
HOBBS OCD

Form 3160-3  
(April 2004)

AUG 25 2011

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

|                                                                                                                                                                                                                       |                                                                                             |                                                                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                          |                                                                                             | 5. Lease Serial No.<br>54L NM-57285, NM-60789, NM-94622                            |  |
| 1b. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |                                                                                             | 6. If Indian, Allottee or Tribe Name                                               |  |
| 2. Name of Operator<br>Cimarex Energy Co. of Colorado                                                                                                                                                                 |                                                                                             | 7. If Unit or CA Agreement, Name and No<br>Pending                                 |  |
| 3a. Address<br>600 N. Marienfeld St., Ste. 600; Midland, TX 79701                                                                                                                                                     |                                                                                             | 8. Lease Name and Well No. <b>38777</b><br>Chaparral 33 Federal Com No. 3          |  |
| 3b. Phone No (include area code)<br>432-571-7800                                                                                                                                                                      |                                                                                             | 9. API Well No.<br>30-025- <b>40253</b>                                            |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At Surface 200 FNL & 810 FEL<br>At proposed prod. Zone 330 FSL & 660 FEL                                            |                                                                                             | 10. Field and Pool, or Exploratory <b>50461</b><br>Quail Ridge; Bone Spring, South |  |
| 11. Sec., T. R. M. or Blk. and Survey or Area<br>33-19S-34E                                                                                                                                                           |                                                                                             | 12. County or Parish<br>Lea                                                        |  |
| 14. Distance in miles and direction from nearest town or post office*                                                                                                                                                 |                                                                                             | 13. State<br>NM                                                                    |  |
| 15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line if any) 230'                                                                                               | 16. No of acres in lease<br>NM-57285 1280 acres<br>NM-60789 200 acres<br>NM-94622 120 acres | 17. Spacing Unit dedicated to this well<br>E2E2 160 acres                          |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A                                                                                                        | 19. Proposed Depth<br>Pilot Hole 11000<br>MD 15504 TVD 10820                                | 20. BLM/BIA Bond No. on File<br>NM-2575                                            |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3696' GR                                                                                                                                                       | 22. Approximate date work will start*<br>05.01.11                                           | 23. Estimated duration<br>25-30 days                                               |  |
| 24. Attachments                                                                                                                                                                                                       |                                                                                             |                                                                                    |  |

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<br><i>Zeno Farris</i>                | Name (Printed/Typed)<br>Zeno Farris | Date<br>03.07.11    |
| Title<br>Manager Operations Administration         |                                     |                     |
| Approved By (Signature)<br><i>/s/ Don Peterson</i> | Name (Printed/Typed)                | Date<br>AUG 23 2011 |
| Title<br>FIELD MANAGER                             | Office<br>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

Title 18 U.S.S. 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 FOR TWO YEARS

Capitan Controlled Water Basin

Approval Subject to General Requirements  
& Special Stipulations Attached

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

*K2 09/01/11*

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

HOBBS OGD

Form C-102

Revised July 16, 2010

Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

AUG 25 2011

WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED AMENDED REPORT

|                                   |                                                        |                                 |
|-----------------------------------|--------------------------------------------------------|---------------------------------|
| API Number<br><b>30-025-40253</b> | Pool Code<br><b>59477</b>                              | Pool Name<br><b>Quail Ridge</b> |
| Property Code<br><b>38777</b>     | Property Name<br><b>CHAPARRAL "33" FEDERAL COM</b>     | Well Number<br><b>3</b>         |
| OGRID No.<br><b>162683</b>        | Operator Name<br><b>CIMAREX ENERGY CO. OF COLORADO</b> | Elevation<br><b>3696'</b>       |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 33      | 19 S     | 34 E  |         | 200           | NORTH            | 810           | EAST           | LEA    |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 33      | 19 S     | 34 E  |         | 330           | SOUTH            | 660           | EAST           | LEA    |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 160             |                 |                    |           |

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><b>SURFACE LOCATION</b><br/>Lat - N 32°37'24.48"<br/>Long - W 103°33'33.35"<br/>NMSPCE - N 591415.6<br/>E 779655.2<br/>(NAD-83)</p> <p><b>SHL &amp; PP Bone Spring</b><br/>230 FNL &amp; 810 FEL</p> <p><b>EOC/Beg Prod Interval</b><br/>391 FNL &amp; 818 FEL</p> <p><b>BHL</b><br/>330 FSL &amp; 660 FEL</p> <p><b>PROPOSED BOTTOM HOLE LOCATION</b><br/>Lat - N 32°36'37.341"<br/>Long - W 103°33'31.501"<br/>NMSPCE - N 586653.2<br/>E 779847.9<br/>(NAD-83)</p> | <p>3700.2' 3699.8'</p> <p>810'</p> <p>3695.0' 3697.1'</p> <p>4767.2'</p> <p>NM-57285</p> <p>NM-60789</p> <p>NM-94622</p> <p>660'</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Zeno Farris</i> 3/2/2011<br/>Signature Date</p> <p>Zeno Farris<br/>Printed Name</p> <p>zfarris@cimarex.com<br/>Email Address</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><i>Gary L. Jones</i> 2011<br/>Date Surveyed</p> <p><i>Gary L. Jones</i><br/>Signature</p> <p>Professional Surveyor<br/>Seal of<br/>2011</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS 24186</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Application to Drill  
**Chaparral 33 Federal Com No. 3**  
 Cimarex Energy Co. of Colorado  
 Unit A, Section 33  
 T19S-R34E, Lea County, NM

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In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1 Location: SHL 200 FNL & 810 FEL  
BHL 330 FSL & 660 FEL
- 2 Elevation above sea level: 3696' GR
- 3 Geologic name of surface formation: Quaternary Alluvium Deposits
- 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5 Proposed drilling depth: Pilot Hole 11000 MD 15504 TVD 10820
- 6 Estimated tops of geological markers:

|          |       |               |        |
|----------|-------|---------------|--------|
| Rustler  | 1600' | Penrose       | 4894'  |
| T. Salt  | 1700' | Grayburg      | 4962'  |
| B. Salt  | 3299' | Cherry Canyon | 5600'  |
| Tansill  | 3334' | San Andres    | 6014'  |
| Yates    | 3522' | Bone Spring   | 8250'  |
| 7 Rivers | 3805' | TBSS          | 10570' |
| Queen    | 4498' | Wolfcamp      | 10870' |
- 7 Possible mineral bearing formation:

|             |     |
|-------------|-----|
| Bone Spring | Oil |
| Delaware    | Oil |

8 Proposed Mud Circulating System:

| Depth                           | Mud Wt    | Visc  | Fluid Loss | Type Mud                                           |
|---------------------------------|-----------|-------|------------|----------------------------------------------------|
| 0' to <del>1750'</del><br>1780' | 8.4 - 8.6 | 28-32 | NC         | FW gel spud mud                                    |
| 1750' to 5480'                  | 10.0      | 28-29 | NC         | Brine                                              |
| 5480' to 11000'                 | 8.4-9.0   | 28-29 | NC         | FW and brine, use hi-vis sweeps to keep hole clean |
| 10629' to 15504'                | 8.5-9.5   | 27-45 | NC         | 2% KCL                                             |

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill to pilot hole TD @ 11000 and log. Set 205 sks HalCem -H 0.5% CFR-3 0.1% HR-601 16.5 ppg yield 1.06 0% Excess cement plug from 10500-11000. Drill through cement to KOP @ 10629 and drill lateral to TD @ MD 15504, TVD 10820. Run 5½" liner. Use LTC from 0-10629 (KOP), BTC from 10629-10929 (EOC), and LTC from 10929-15504 (TD). Cement liner.

Application to Drill  
**Chaparral 33 Federal Com No. 3**  
 Cimarex Energy Co. of Colorado  
 Unit A, Section 33  
 T19S-R34E, Lea County, NM

54.5 per 2000

9 Casing & Cementing Program:

| String       | Hole Size | Depth             | Casing OD | Weight | Collar  | Grade |
|--------------|-----------|-------------------|-----------|--------|---------|-------|
| Surface      | 17½"      | 0' to 1780' 1750' | New 13½"  | 55     | STC     | J55   |
| Intermediate | 12¼"      | 0' to 5480'       | New 9½"   | 40#    | LTC     | N80   |
| Production   | 8¾"       | 0' to 15504'      | New 5½"   | 17#    | LTC/BTC | P-110 |

Use LTC from 0-10629 (KOP), BTC from 10629-10929 (EOC), and LTC from 10929-15504 (TD)

10 Cementing:

**Surface**      Lead: 995 sx Halcem C + 4% Bentomite + 2% CaCl 13.5ppg 1.75yield 100% Excess  
                     Tail: 420 sx Halcem C + 2% CaCl 14.2ppg 1.34 yield 50% Excess  
**TOC Surface**

**Intermediate**      Lead: 1815 sx EconoCem + 5% salt + 5 lbm gilsonite 14.6ppg 1.54yield 70% Excess  
                             Tail: 200 sx HalCem + 1% CaCl 14.8ppg 1.34 yield 25% Excess  
**TOC Surface**

**Production**      Lead: 825 sx EconoCem - H + 0.2 % HR-601 2.44 11.9ppg 2.44 yield 50% Excess  
                             Tail: 1410 sx Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601 14.5ppg  
                             1.22 yield 25% Excess  
**TOC 5280'**

According to the NM State Engineer, depth to ground water is 160 feet. Fresh water zones will be protected by setting 13½" casing at 1750 and cementing to surface. Hydrocarbon zones will be protected by setting 9½" casing at 5480 and production casing at 15474 and cementing to 5280.

| <u>Collapse Factor</u> | <u>Burst Factor</u> | <u>Tension Factor</u> |
|------------------------|---------------------|-----------------------|
| 1.125                  | 1.125               | 1.6                   |

11 Pressure control Equipment:

Exhibit "E". A 13½" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. Mud gas separator will be available if drilling in H2S areas.

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

The BOP will be tested to 5000 psi by an independent service company.

Cimarex Energy Co. of Colorado (operator) requests a variance if Cactus 101 (rig name) is used to drill this well to use a co-flex line between the BOP and choke manifold.

Manufacturer: Midwest Hose & Specialty

Serial Number: 59473

Length: 35' Size: 4-1/16" Ends flanges/clamps

WP rating: 10,000 psi Anchors required by manufacturer – Yes/No Yes

Application to Drill  
**Chaparral 33 Federal Com No. 3**  
Cimarex Energy Co. of Colorado  
Unit A, Section 33  
T19S-R34E, Lea County, NM

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12 Testing, Logging and Coring Program: *See 10A*

- A. Mud logging program: 2 man unit from 5480 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.

13 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H<sub>2</sub>S Safety package on all wells, attached is an "H<sub>2</sub>S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP      **3000 psi**      Estimated BHT      **130°**

14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take      30-35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potentialized as      **an oil well.**



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## **Cimarex Energy Co.**

Lea County (NAD 83)

Sec 33 - T19S - R34E

Chapparral 33 Fed Com #3

Wellbore #1

Plan: Plan #1

## **Standard Planning Report**

02 March, 2011

|           |                            |                              |                                     |
|-----------|----------------------------|------------------------------|-------------------------------------|
| Database: | EDM 5000.1 Single User Db. | Local Co-ordinate Reference: | Well Chapparal 33 Fed Com #3        |
| Company:  | Cimarex Energy Co.         | TVD Reference:               | WELL @ 0.0usft (Original Well Elev) |
| Project:  | Lea County (NAD 83)        | MD Reference:                | WELL @ 0.0usft (Original Well Elev) |
| Site:     | Sec 33 - T19S - R34E       | North Reference:             | Grid                                |
| Well:     | Chapparal 33 Fed Com #3    | Survey Calculation Method:   | Minimum Curvature                   |
| Wellbore: | Wellbore #1                |                              |                                     |
| Design:   | Plan #1                    |                              |                                     |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project:    | Lea County (NAD 83)       |               |                |
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |          |                      |                 |                   |                   |
|-----------------------|----------|----------------------|-----------------|-------------------|-------------------|
| Site:                 |          | Sec 33 - T19S - R34E |                 |                   |                   |
| Site Position:        |          | Northing:            | 591,385.60 usft | Latitude:         | 32° 37' 24.180 N  |
| From:                 | Map      | Easting:             | 779,655.50 usft | Longitude:        | 103° 33' 33.346 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:         | 13-3/16 "       | Grid Convergence: | 0.42 °            |

|                                |       |           |                     |                 |               |                   |
|--------------------------------|-------|-----------|---------------------|-----------------|---------------|-------------------|
| Well: Chapparral 33 Fed Com #3 |       |           |                     |                 |               |                   |
| Well Position                  | +N/-S | 30.0 usft | Northings:          | 591,415.60 usft | Latitude:     | 32° 37' 24.477 N  |
|                                | +E/-W | -0.3 usft | Easting:            | 779,655.20 usft | Longitude:    | 103° 33' 33.347 W |
| Position Uncertainty           |       | 0.0 usft  | Wellhead Elevation: |                 | Ground Level: | 0.0 usft          |

|           |            |             |                    |                  |                        |
|-----------|------------|-------------|--------------------|------------------|------------------------|
| Wellbore  |            | Wellbore #1 |                    |                  |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF200510 | 02/01/11    | 7.64               | 60.59            | 48,956                 |

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design:           | Plan #1                    |                 |                 |                  |
| Audit Notes:      |                            |                 |                 |                  |
| Version:          | Phase:                     | PLAN            | Tie On Depth:   | 0.0              |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|                   | 0.0                        | 0.0             | 0.0             | 177.68           |

| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |                   |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-------------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target            |
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                   |
| 10,629.0                    | 0.00               | 0.00           | 10,629.0                    | 0.0             | 0.0             | 0.00                          | 0.00                         | 0.00                        | 0.00       |                   |
| 10,929.0                    | 90.00              | 177.68         | 10,820.0                    | -190.8          | 7.7             | 30.00                         | 30.00                        | 0.00                        | 177.68     |                   |
| 15,504.3                    | 90.00              | 177.68         | 10,820.0                    | -4,762.4        | 192.9           | 0.00                          | 0.00                         | 0.00                        | 0.00       | Chapparal #3 PBHL |



# Great White Directional Services Planning Report

|           |                           |                              |                                     |
|-----------|---------------------------|------------------------------|-------------------------------------|
| Database: | EDM 5000.1 Single User.Db | Local Co-ordinate Reference: | Well Chapparal 33 Fed Com #3        |
| Company:  | Cimarex Energy Co.        | TVD Reference:               | WELL @ 0.0usft (Original Well Elev) |
| Project:  | Lea County (NAD 83)       | MD Reference:                | WELL @ 0.0usft (Original Well Elev) |
| Site:     | Sec 33 - T19S - R34E      | North Reference:             | Grid                                |
| Well:     | Chapparal 33 Fed Com #3   | Survey Calculation Method:   | Minimum Curvature                   |
| Wellbore: | Wellbore #1               |                              |                                     |
| Design:   | Plan #1                   |                              |                                     |

| Planned Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 10,629.0                      | 0.00            | 0.00        | 10,629.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| KOP 30°/100 DLS @ 177.68° AZI |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,630.0                      | 0.30            | 177.68      | 10,630.0              | 0.0          | 0.0          | 0.0                     | 30.00                   | 30.00                  | 0.00                  |
| 10,640.0                      | 3.30            | 177.68      | 10,640.0              | -0.3         | 0.0          | 0.3                     | 30.00                   | 30.00                  | 0.00                  |
| 10,650.0                      | 6.30            | 177.68      | 10,650.0              | -1.2         | 0.0          | 1.2                     | 30.00                   | 30.00                  | 0.00                  |
| 10,660.0                      | 9.30            | 177.68      | 10,659.9              | -2.5         | 0.1          | 2.5                     | 30.00                   | 30.00                  | 0.00                  |
| 10,670.0                      | 12.30           | 177.68      | 10,669.7              | -4.4         | 0.2          | 4.4                     | 30.00                   | 30.00                  | 0.00                  |
| 10,680.0                      | 15.30           | 177.68      | 10,679.4              | -6.8         | 0.3          | 6.8                     | 30.00                   | 30.00                  | 0.00                  |
| 10,690.0                      | 18.30           | 177.68      | 10,689.0              | -9.7         | 0.4          | 9.7                     | 30.00                   | 30.00                  | 0.00                  |
| 10,700.0                      | 21.30           | 177.68      | 10,698.4              | -13.0        | 0.5          | 13.0                    | 30.00                   | 30.00                  | 0.00                  |
| 10,710.0                      | 24.30           | 177.68      | 10,707.6              | -16.9        | 0.7          | 16.9                    | 30.00                   | 30.00                  | 0.00                  |
| 10,720.0                      | 27.30           | 177.68      | 10,716.6              | -21.3        | 0.9          | 21.3                    | 30.00                   | 30.00                  | 0.00                  |
| 10,730.0                      | 30.30           | 177.68      | 10,725.4              | -26.1        | 1.1          | 26.1                    | 30.00                   | 30.00                  | 0.00                  |
| 10,740.0                      | 33.30           | 177.68      | 10,733.9              | -31.3        | 1.3          | 31.4                    | 30.00                   | 30.00                  | 0.00                  |
| 10,750.0                      | 36.30           | 177.68      | 10,742.1              | -37.0        | 1.5          | 37.1                    | 30.00                   | 30.00                  | 0.00                  |
| 10,760.0                      | 39.30           | 177.68      | 10,750.0              | -43.2        | 1.7          | 43.2                    | 30.00                   | 30.00                  | 0.00                  |
| 10,770.0                      | 42.30           | 177.68      | 10,757.5              | -49.7        | 2.0          | 49.7                    | 30.00                   | 30.00                  | 0.00                  |
| 10,780.0                      | 45.30           | 177.68      | 10,764.8              | -56.6        | 2.3          | 56.6                    | 30.00                   | 30.00                  | 0.00                  |
| 10,790.0                      | 48.30           | 177.68      | 10,771.6              | -63.9        | 2.6          | 63.9                    | 30.00                   | 30.00                  | 0.00                  |
| 10,800.0                      | 51.30           | 177.68      | 10,778.1              | -71.5        | 2.9          | 71.6                    | 30.00                   | 30.00                  | 0.00                  |
| 10,810.0                      | 54.30           | 177.68      | 10,784.1              | -79.5        | 3.2          | 79.5                    | 30.00                   | 30.00                  | 0.00                  |
| 10,820.0                      | 57.30           | 177.68      | 10,789.7              | -87.7        | 3.6          | 87.8                    | 30.00                   | 30.00                  | 0.00                  |
| 10,830.0                      | 60.30           | 177.68      | 10,794.9              | -96.3        | 3.9          | 96.4                    | 30.00                   | 30.00                  | 0.00                  |
| 10,840.0                      | 63.30           | 177.68      | 10,799.6              | -105.1       | 4.3          | 105.2                   | 30.00                   | 30.00                  | 0.00                  |
| 10,850.0                      | 66.30           | 177.68      | 10,803.9              | -114.1       | 4.6          | 114.2                   | 30.00                   | 30.00                  | 0.00                  |
| 10,860.0                      | 69.29           | 177.68      | 10,807.7              | -123.4       | 5.0          | 123.5                   | 30.00                   | 30.00                  | 0.00                  |
| 10,870.0                      | 72.29           | 177.68      | 10,811.0              | -132.8       | 5.4          | 132.9                   | 30.00                   | 30.00                  | 0.00                  |
| 10,880.0                      | 75.29           | 177.68      | 10,813.7              | -142.4       | 5.8          | 142.5                   | 30.00                   | 30.00                  | 0.00                  |
| 10,890.0                      | 78.29           | 177.68      | 10,816.0              | -152.1       | 6.2          | 152.2                   | 30.00                   | 30.00                  | 0.00                  |
| 10,900.0                      | 81.29           | 177.68      | 10,817.8              | -162.0       | 6.6          | 162.1                   | 30.00                   | 30.00                  | 0.00                  |
| 10,910.0                      | 84.29           | 177.68      | 10,819.1              | -171.9       | 7.0          | 172.0                   | 30.00                   | 30.00                  | 0.00                  |
| 10,920.0                      | 87.29           | 177.68      | 10,819.8              | -181.8       | 7.4          | 182.0                   | 30.00                   | 30.00                  | 0.00                  |
| 10,929.0                      | 90.00           | 177.68      | 10,820.0              | -190.8       | 7.7          | 191.0                   | 30.00                   | 30.00                  | 0.00                  |
| EOC - Hold to TD              |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,000.0                      | 90.00           | 177.68      | 10,820.0              | -261.8       | 10.6         | 262.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                      | 90.00           | 177.68      | 10,820.0              | -361.7       | 14.7         | 362.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                      | 90.00           | 177.68      | 10,820.0              | -461.6       | 18.7         | 462.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                      | 90.00           | 177.68      | 10,820.0              | -561.5       | 22.7         | 562.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                      | 90.00           | 177.68      | 10,820.0              | -661.4       | 26.8         | 662.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                      | 90.00           | 177.68      | 10,820.0              | -761.4       | 30.8         | 762.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                      | 90.00           | 177.68      | 10,820.0              | -861.3       | 34.9         | 862.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                      | 90.00           | 177.68      | 10,820.0              | -961.2       | 38.9         | 962.0                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                      | 90.00           | 177.68      | 10,820.0              | -1,061.1     | 43.0         | 1,062.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                      | 90.00           | 177.68      | 10,820.0              | -1,161.0     | 47.0         | 1,162.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                      | 90.00           | 177.68      | 10,820.0              | -1,260.9     | 51.1         | 1,262.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                      | 90.00           | 177.68      | 10,820.0              | -1,360.9     | 55.1         | 1,362.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                      | 90.00           | 177.68      | 10,820.0              | -1,460.8     | 59.2         | 1,462.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                      | 90.00           | 177.68      | 10,820.0              | -1,560.7     | 63.2         | 1,562.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                      | 90.00           | 177.68      | 10,820.0              | -1,660.6     | 67.3         | 1,662.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                      | 90.00           | 177.68      | 10,820.0              | -1,760.5     | 71.3         | 1,762.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                      | 90.00           | 177.68      | 10,820.0              | -1,860.5     | 75.4         | 1,862.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                      | 90.00           | 177.68      | 10,820.0              | -1,960.4     | 79.4         | 1,962.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                      | 90.00           | 177.68      | 10,820.0              | -2,060.3     | 83.5         | 2,062.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                      | 90.00           | 177.68      | 10,820.0              | -2,160.2     | 87.5         | 2,162.0                 | 0.00                    | 0.00                   | 0.00                  |





# Great White Directional Services Planning Report

|           |                           |                              |                                     |
|-----------|---------------------------|------------------------------|-------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Chapparral 33 Fed Com #3       |
| Company:  | Cimarex Energy Co.        | TVD Reference:               | WELL @ 0.0usft (Original Well Elev) |
| Project:  | Lea County (NAD 83)       | MD Reference:                | WELL @ 0.0usft (Original Well Elev) |
| Site:     | Sec 33 - T19S - R34E      | North Reference:             | Grid                                |
| Well:     | Chapparral 33 Fed Com #3  | Survey Calculation Method:   | Minimum Curvature                   |
| Wellbore: | Wellbore #1               |                              |                                     |
| Design:   | Plan #1                   |                              |                                     |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 13,000.0              | 90.00           | 177.68      | 10,820.0              | -2,260.1     | 91.6         | 2,262.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.0              | 90.00           | 177.68      | 10,820.0              | -2,360.0     | 95.6         | 2,362.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.0              | 90.00           | 177.68      | 10,820.0              | -2,460.0     | 99.7         | 2,462.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.0              | 90.00           | 177.68      | 10,820.0              | -2,559.9     | 103.7        | 2,562.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.0              | 90.00           | 177.68      | 10,820.0              | -2,659.8     | 107.8        | 2,662.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.0              | 90.00           | 177.68      | 10,820.0              | -2,759.7     | 111.8        | 2,762.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.0              | 90.00           | 177.68      | 10,820.0              | -2,859.6     | 115.9        | 2,862.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.0              | 90.00           | 177.68      | 10,820.0              | -2,959.6     | 119.9        | 2,962.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.0              | 90.00           | 177.68      | 10,820.0              | -3,059.5     | 124.0        | 3,062.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.0              | 90.00           | 177.68      | 10,820.0              | -3,159.4     | 128.0        | 3,162.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0              | 90.00           | 177.68      | 10,820.0              | -3,259.3     | 132.0        | 3,262.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0              | 90.00           | 177.68      | 10,820.0              | -3,359.2     | 136.1        | 3,362.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.0              | 90.00           | 177.68      | 10,820.0              | -3,459.1     | 140.1        | 3,462.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.0              | 90.00           | 177.68      | 10,820.0              | -3,559.1     | 144.2        | 3,562.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.0              | 90.00           | 177.68      | 10,820.0              | -3,659.0     | 148.2        | 3,662.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.0              | 90.00           | 177.68      | 10,820.0              | -3,758.9     | 152.3        | 3,762.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.0              | 90.00           | 177.68      | 10,820.0              | -3,858.8     | 156.3        | 3,862.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.0              | 90.00           | 177.68      | 10,820.0              | -3,958.7     | 160.4        | 3,962.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.0              | 90.00           | 177.68      | 10,820.0              | -4,058.6     | 164.4        | 4,062.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.0              | 90.00           | 177.68      | 10,820.0              | -4,158.6     | 168.5        | 4,162.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.0              | 90.00           | 177.68      | 10,820.0              | -4,258.5     | 172.5        | 4,262.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.0              | 90.00           | 177.68      | 10,820.0              | -4,358.4     | 176.6        | 4,362.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0              | 90.00           | 177.68      | 10,820.0              | -4,458.3     | 180.6        | 4,462.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0              | 90.00           | 177.68      | 10,820.0              | -4,558.2     | 184.7        | 4,562.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0              | 90.00           | 177.68      | 10,820.0              | -4,658.2     | 188.7        | 4,662.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,504.0              | 90.00           | 177.68      | 10,820.0              | -4,762.1     | 192.9        | 4,766.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 15504.3         |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 15,504.3              | 90.00           | 177.68      | 10,820.0              | -4,762.4     | 192.9        | 4,766.3                 | 0.00                    | 0.00                   | 0.00                  |  |

| Design Targets                                                                             |                 |               |              |            |              |              |                 |                |                  |                   |
|--------------------------------------------------------------------------------------------|-----------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name                                                                                | hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| Chapparral #3 PBHL                                                                         |                 | 0.00          | 0.00         | 10,820.0   | -4,762.4     | 192.7        | 586,653.20      | 779,847.90     | 32° 36' 37.341 N | 103° 33' 31.500 W |
| - plan misses target center by 0.2usft at 15504.3usft MD (10820.0 TVD, -4762.4 N, 192.9 E) |                 |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                    |                 |               |              |            |              |              |                 |                |                  |                   |

| Formations            |                       |                      |           |         |                   |  |
|-----------------------|-----------------------|----------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                 | Lithology | Dip (°) | Dip Direction (°) |  |
| 5,600.0               | 5,600.0               | Cherry Canyon        |           | 0.00    |                   |  |
| 8,250.0               | 8,250.0               | Bone Spring          |           | 0.00    |                   |  |
| 9,480.0               | 9,480.0               | 1st Bone Spring Sand |           | 0.00    |                   |  |
| 10,000.0              | 10,000.0              | 2nd Bone Spring Sand |           | 0.00    |                   |  |
| 10,570.0              | 10,570.0              | 3rd Bone Spring Sand |           | 0.00    |                   |  |



Great White Directional Services  
Planning Report

|           |                           |                              |                                     |
|-----------|---------------------------|------------------------------|-------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Chapparal 33 Fed Com #3        |
| Company:  | Cimarex Energy Co.        | TVD Reference:               | WELL @ 0.0usft (Original Well Elev) |
| Project:  | Lea County (NAD 83)       | MD Reference:                | WELL @ 0.0usft (Original Well Elev) |
| Site:     | Sec 33 - T19S - R34E      | North Reference:             | Grid                                |
| Well:     | Chapparal 33 Fed Com #3   | Survey Calculation Method:   | Minimum Curvature                   |
| Wellbore: | Wellbore #1               |                              |                                     |
| Design:   | Plan #1                   |                              |                                     |

| Plan Annotations      |                       |                   |              |                               |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                       |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                               |
| 10,629.0              | 10,629.0              | 0.0               | 0.0          | KOP 30°/100 DLS @ 177.68° AZI |
| 10,929.0              | 10,820.0              | -190.8            | 7.7          | EOC - Hold to TD              |
| 15,504.0              | 10,820.0              | -4,762.1          | 192.9        | TD at 15504.3                 |

# CIMAREX

Cimarex Energy Co.  
Project: Lea County (NAD 83)  
Site: Sec 33 - T19S - R34E  
Well: Chapparral 33 Fed Com #3  
Wellbore: Wellbore #1

## WELL DETAILS: Chapparral 33 Fed Com #3

| +N/-S                    | +E/-W | Northing  | Ground Level: | Easting   | Latitude         | Longitude         |
|--------------------------|-------|-----------|---------------|-----------|------------------|-------------------|
| 0.0                      | 0.0   | 591415.60 | 0.0           | 779655.20 | 32° 37' 24.477 N | 103° 33' 33.347 W |
| SHL: 230' FNL / 810' FEL |       |           |               |           |                  |                   |
| BHL: 330' FSL / 660' FEL |       |           |               |           |                  |                   |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name               | TVD     | +N/-S   | +E/-W | Latitude         | Longitude         |
|--------------------|---------|---------|-------|------------------|-------------------|
| Chapparral #3 PBHL | 10820.0 | -4762.4 | 192.7 | 32° 36' 37.341 N | 103° 33' 31.500 W |



Azimuths to Grid North  
Total Correction: 7.23°  
Magnetic Field  
Strength: 48955.8snT  
Dip Angle: 60.59°  
Date: 2011/02/01  
Model: IGRF200510

## SECTION DETAILS

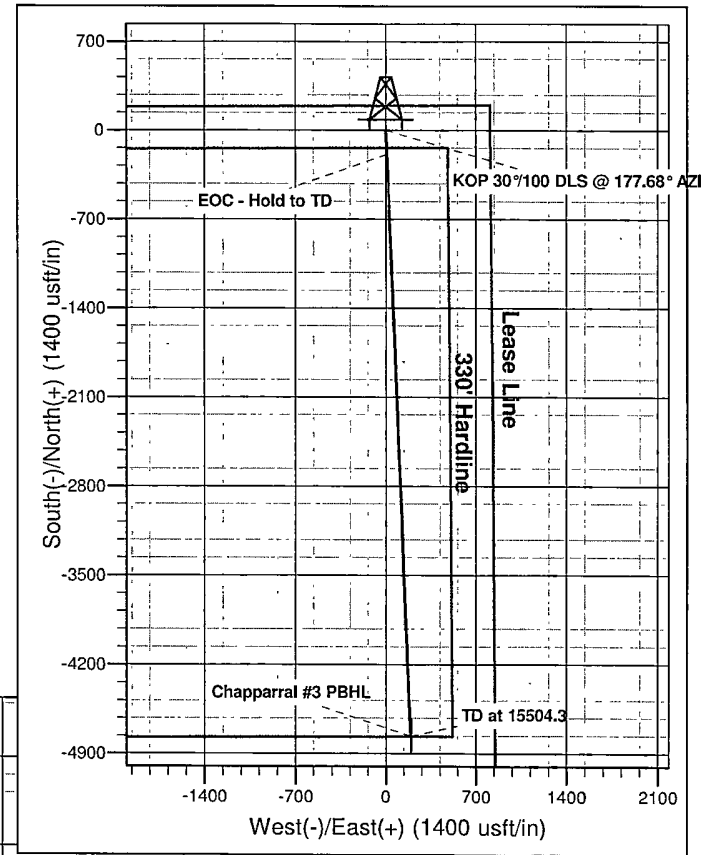
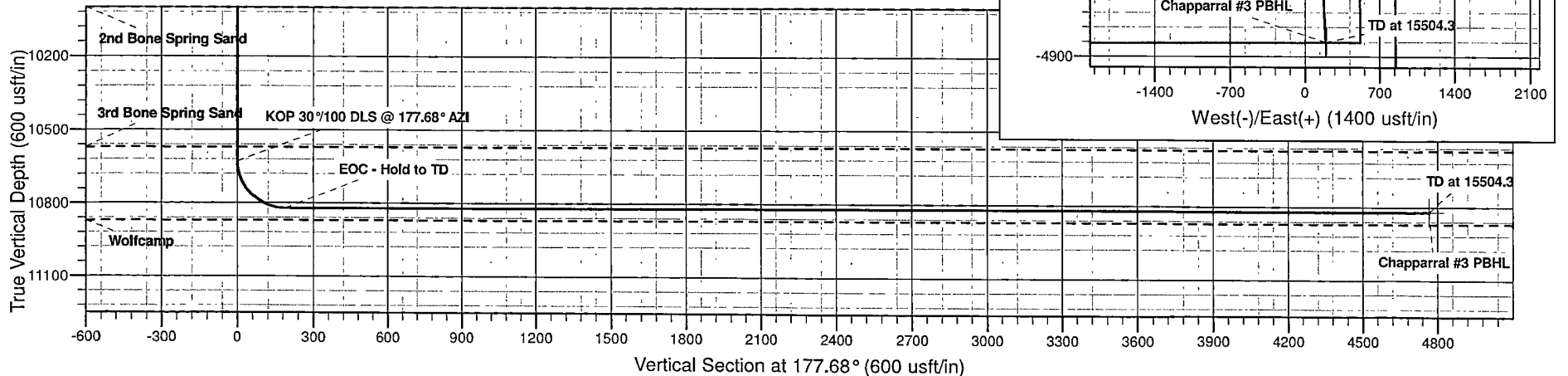
| TVD     | MD      | Inc   | Azi    | +N/-S   | +E/-W | V Sect | Departure | Annotation                    |
|---------|---------|-------|--------|---------|-------|--------|-----------|-------------------------------|
| 10629.0 | 10629.0 | 0.00  | 0.00   | 0.0     | 0.0   | 0.0    | 0.0       | KOP 30°/100 DLS @ 177.68° AZI |
| 10820.0 | 10929.0 | 90.00 | 177.68 | -190.8  | 7.7   | 191.0  | 191.0     | EOC - Hold to TD              |
| 10820.0 | 15504.0 | 90.00 | 177.68 | -4762.1 | 192.9 | 4766.0 | 4766.0    | TD at 15504.3                 |

## ANNOTATIONS

| TVD     | MD      | Inc   | Azi    | +N/-S   | +E/-W | V Sect | Departure | Annotation                    |
|---------|---------|-------|--------|---------|-------|--------|-----------|-------------------------------|
| 10629.0 | 10629.0 | 0.00  | 0.00   | 0.0     | 0.0   | 0.0    | 0.0       | KOP 30°/100 DLS @ 177.68° AZI |
| 10820.0 | 10929.0 | 90.00 | 177.68 | -190.8  | 7.7   | 191.0  | 191.0     | EOC - Hold to TD              |
| 10820.0 | 15504.0 | 90.00 | 177.68 | -4762.1 | 192.9 | 4766.0 | 4766.0    | TD at 15504.3                 |

## FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation            |
|---------|---------|----------------------|
| 5600.0  | 5600.0  | Cherry Canyon        |
| 8250.0  | 8250.0  | Bone Spring          |
| 9480.0  | 9480.0  | 1st Bone Spring Sand |
| 10000.0 | 10000.0 | 2nd Bone Spring Sand |
| 10570.0 | 10570.0 | 3rd Bone Spring Sand |



SR & A

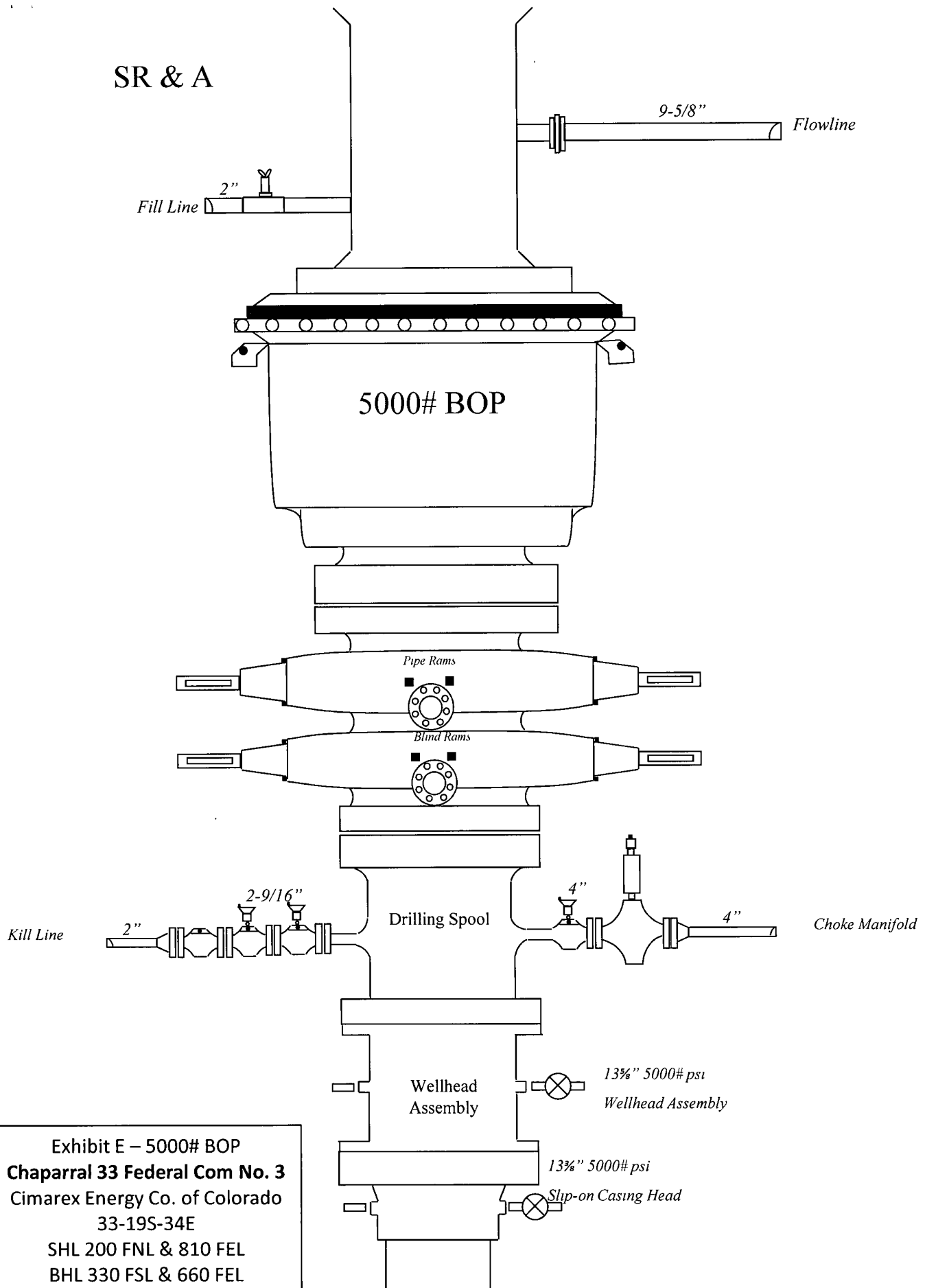
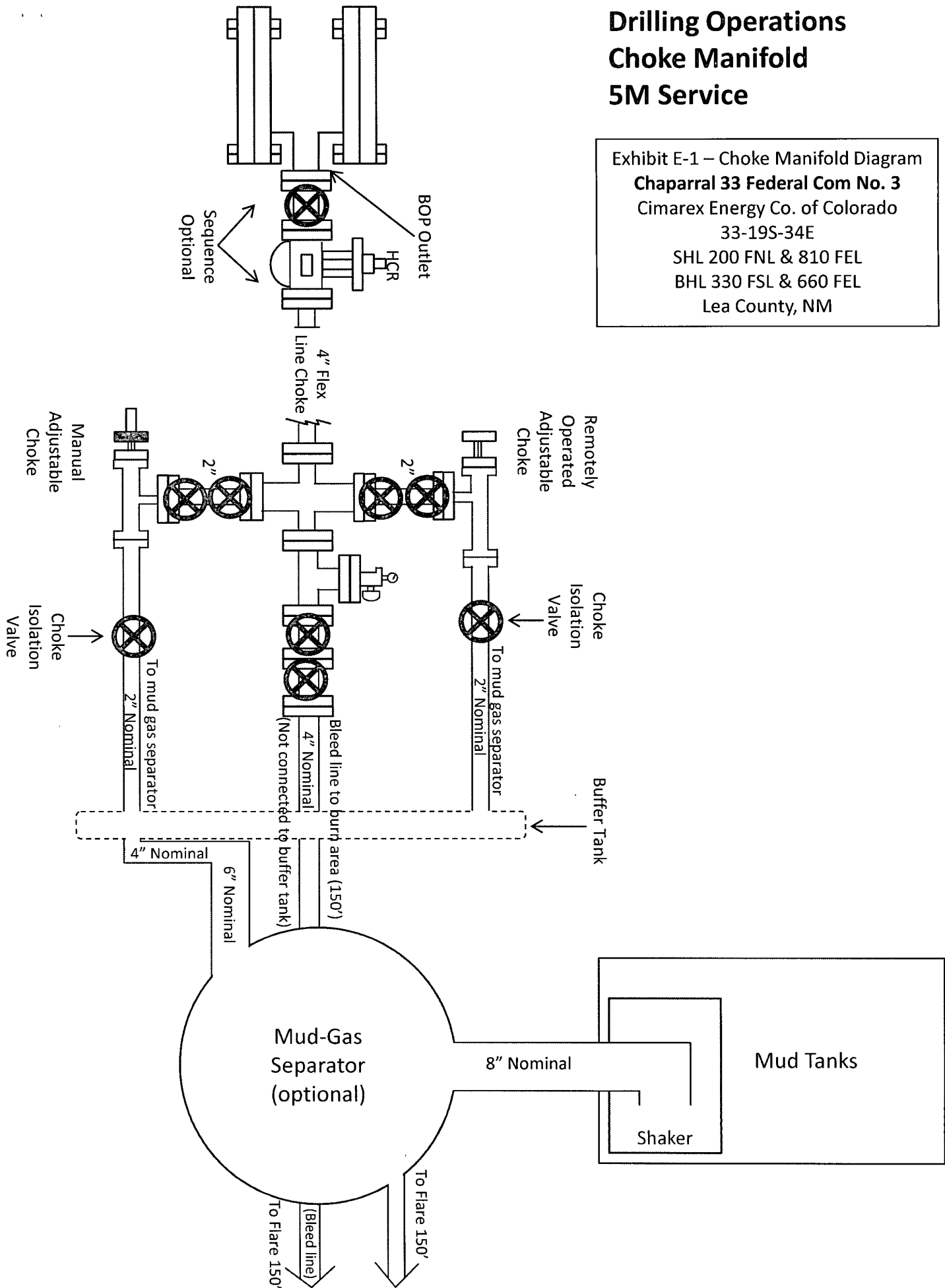


Exhibit E – 5000# BOP  
**Chaparral 33 Federal Com No. 3**  
Cimarex Energy Co. of Colorado  
33-19S-34E  
SHL 200 FNL & 810 FEL  
BHL 330 FSL & 660 FEL  
Lea County, NM

Drilling Operations  
Choke Manifold  
5M Service

Exhibit E-1 – Choke Manifold Diagram  
Chaparral 33 Federal Com No. 3  
Cimarex Energy Co. of Colorado  
33-19S-34E  
SHL 200 FNL & 810 FEL  
BHL 330 FSL & 660 FEL  
Lea County, NM





Midwest Hose  
& Specialty, Inc.

HOBBS OCD

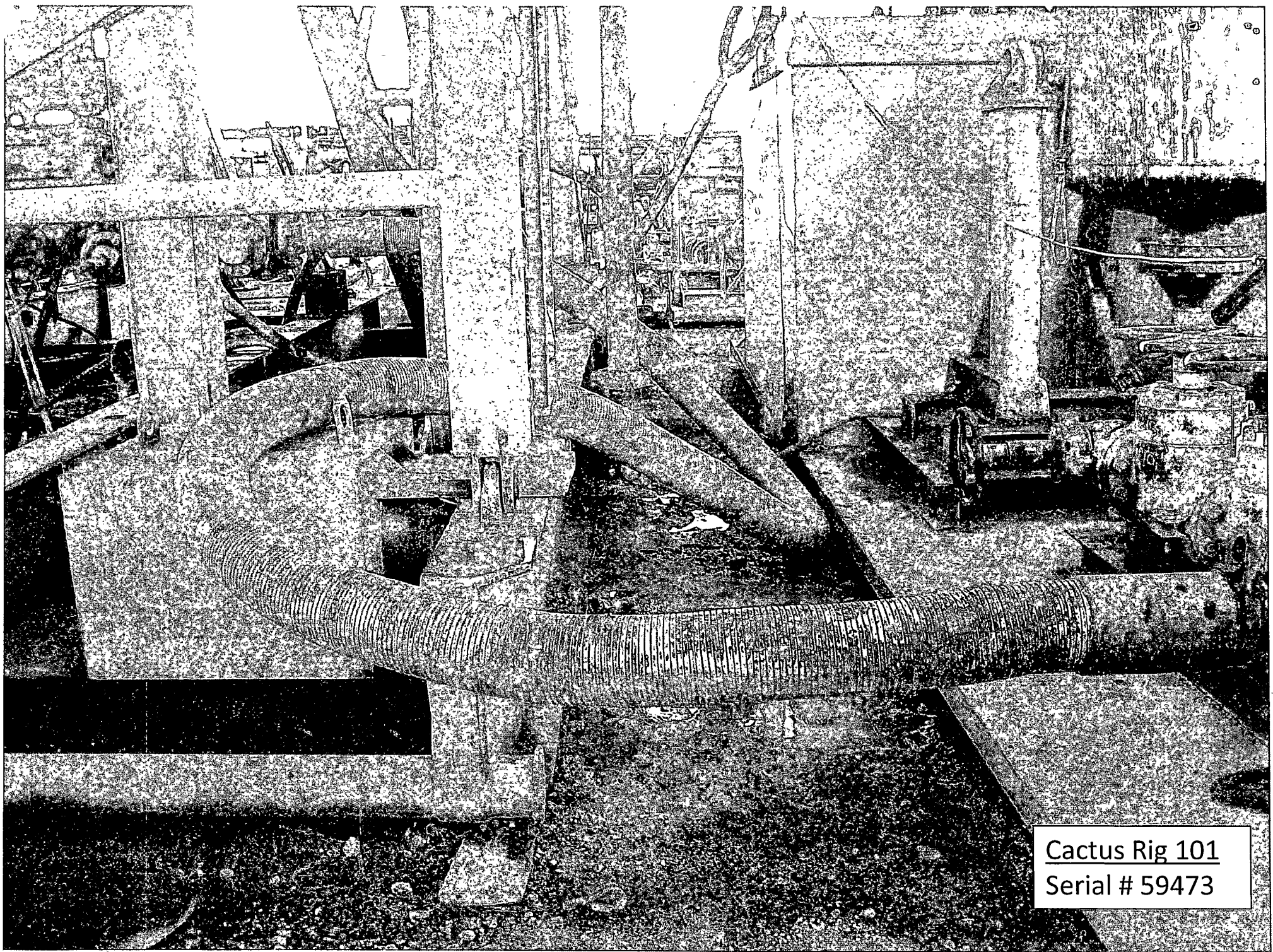
AUG 25 2011

RECEIVED

## Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Working Pressure:</b>      | 5,000 or 10,000 psi working pressure                                                                     |
| <b>Test Pressure:</b>         | 10,000 or 15,000 psi test pressure                                                                       |
| <b>Reinforcement:</b>         | Multiple steel cables                                                                                    |
| <b>Cover:</b>                 | Stainless Steel Armor                                                                                    |
| <b>Inner Tube:</b>            | Petroleum resistant, Abrasion resistant                                                                  |
| <b>End Fitting:</b>           | API flanges, API male threads, threaded or butt weld hammer unions, unbolt and other special connections |
| <b>Maximum Length:</b>        | 110 Feet                                                                                                 |
| <b>ID:</b>                    | 2-1/2", 3", 3-1/2", 4"                                                                                   |
| <b>Operating Temperature:</b> | -22 deg F to +180 deg F (-30 deg C to +82 deg C)                                                         |



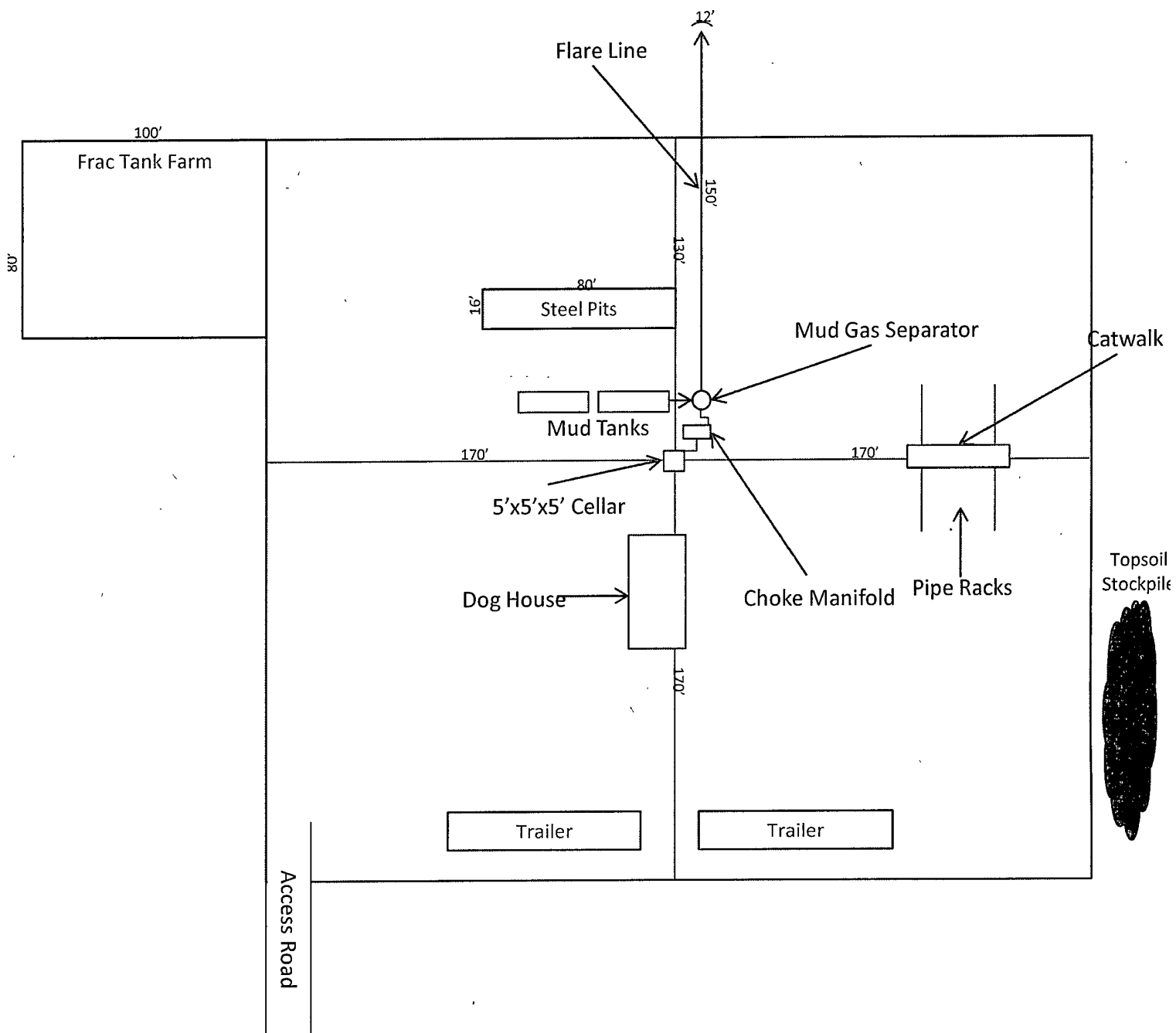
Cactus Rig 101  
Serial # 59473

**M I D W E S T**  
**HOSE AND SPECIALTY INC.**

| <b>INTERNAL HYDROSTATIC TEST REPORT</b>                                                                                                                                                                                   |                                        |                                                    |                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|-----------------------------------|
| <b>Customer:</b><br>CACTUS                                                                                                                                                                                                |                                        | <b>P.O. Number:</b><br>Rig#101<br>Asset#M5358      |                                   |
| <b>HOSE SPECIFICATIONS</b>                                                                                                                                                                                                |                                        |                                                    |                                   |
| <b>Type:</b> CHOKER LINE                                                                                                                                                                                                  |                                        | <b>Length:</b> 35'                                 |                                   |
| <b>I.D.</b> 4" INCHES                                                                                                                                                                                                     |                                        | <b>O.D.</b> 8" INCHES                              |                                   |
| <b>WORKING PRESSURE</b><br><br>10,000 PSI                                                                                                                                                                                 | <b>TEST PRESSURE</b><br><br>15,000 PSI |                                                    | <b>BURST PRESSURE</b><br><br>PSI  |
| <b>COUPLINGS</b>                                                                                                                                                                                                          |                                        |                                                    |                                   |
| <b>Type of End Fitting</b><br>4 1/16 10K FLANGE                                                                                                                                                                           |                                        |                                                    |                                   |
| <b>Type of Coupling:</b><br>SWEDGED                                                                                                                                                                                       |                                        | <b>MANUFACTURED BY</b><br>MIDWEST HOSE & SPECIALTY |                                   |
| <b>PROCEDURE</b>                                                                                                                                                                                                          |                                        |                                                    |                                   |
| <i>Hose assembly pressure tested with water at ambient temperature.</i>                                                                                                                                                   |                                        |                                                    |                                   |
| <b>TIME HELD AT TEST PRESSURE</b><br><br>15 MIN.                                                                                                                                                                          |                                        | <b>ACTUAL BURST PRESSURE:</b><br><br>0 PSI         |                                   |
| <b>COMMENTS:</b><br>s/n#59473 Asset#M5358<br>Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes |                                        |                                                    |                                   |
| <b>Date:</b><br>5/19/2010                                                                                                                                                                                                 | <b>Tested By:</b><br>BOBBY FINK        |                                                    | <b>Approved:</b><br>MENDI JACKSON |



# Cactus 101



1"=50'

N

Exhibit D – Rig Diagram  
**Chaparral 33 Federal Com No. 3**  
 Cimarex Energy Co. of Colorado  
 33-19S-34E  
 SHL 200 FNL & 810 FEL  
 BHL 330 FSL & 660 FEL  
 Lea County, NM