| · : | | | | | | | | |
|--|---|--------------------------|---------------------------|---|---|---------------------------------------|--|--|
| Form 3160-3 (August 1999) | 03; UNITED STAT | 100 13 Es | (411:245) | E 26 27 20 20 | OMB No. | PPROVED 1004-0136 mber 30, 2000 | | |
| | DEPARTMENT OF THE BUREAU OF LAND MAN | | RIUE | SEP CO | | ontract #119 | | |
| A | PPLICATION FOR PERMIT TO | DRILL OF | REENTER | 004 | 7-66.7 | pache Tribe | | |
| la. Type of Work: X | DRILL REE | ENTER | \$ C. | J. 3 J. 6 | 7. If Unit or CA Agree | ment, Name and No. | | |
| b. Type of Well: O | oil Well X Gas Well Other | _ | Single Zone | Muliple Zone | 8. Lease Name and W | ell No. t #1B | | |
| 2. Name of Operator | Cordillera Energ | v. Inc. + | atina | | 9. APL Well No. | -29256 | | |
| 3A. Address | | | o. (include area co | de) | 10. Field and Pool, or Exploratory | | | |
| c/o Walsh Engineering | ,7415 E. Main, Farmington, NM 87402 | | (505) 327-4 | 892 | Basin DK/Blan | ico Mesa Verde | | |
| 4 Location of Well (Repo | ort location clearly and in accordance with | any State req | uirements.*) | | 11. Sec., T., R., M., or | Blk, and Survey or Are | | |
| At surface 127 At proposed prod. Zone | 0' FNL and 2280' FWL | | | | └ Sec. 5, T | 26N, R4W | | |
| 14. Distance in miles and | direction from nearest town or post office* | | | | 12. County or Parish | 13. State | | |
| | 21 miles south of D | | | | Rio Arriba | ✓ NM | | |
| Distance from propose location to nearest property or lease line, (Also to nearest drig. 1 | ft. 1270' unit line, if any) | | acres in lease | 17. Spacing Unit de | dicated to this well 3 16,82 -820 acres N/2 | | | |
| Distance from propose to nearest well, drilling applied for, on this lead | ed location* ng, completed, ase, ft. 1450' | 19. Propose 84 | d Depth 15' +/- | 20. BLM/BIA Bond | l No. on file | | | |
| 21. Elevations (Show whe | 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 723' GL | | | oroximate date work will start* September 1, 2003 23. Estimated duration 3 weeks | | | | |
| | | 24. / | Attachments | <u> </u> | <u> </u> | | | |
| The following, completed | in accordance with the requirements of Or | | | shall be attached to the | is form: | | | |
| 1. Well plat certified by a | a registered surveyor. | | 4. Bond to co | over the operations un | nless covered by an existi | ng bond on file (see | | |
| 2. A Drilling Plan. | | 4 | Item 20 ab | ove). | | | | |
| 3. A Surface Use Plan (if | the location is on National Forest System | Lands, th | 5. Operator ce | ertification. | | | | |
| SUPO shall be filed w | ith the appropriate Forest Service Office. | | 6. Such other authorized | | on and/or plans as may b | e required by the | | |
| 25. Signature | | Na | me (Printed/Typed) |) | Į I | Date | | |
| Tank | C. Thomps- | | Pau | I C. Thompson, | P.E. | 8/6/03 | | |
| Title | | | Agent | | | | | |
| Approved by (Signature) | Se RSitte | Na | me (<i>Printed/Typed</i> |) |]] | Date SEP 2 7 200 | | |
| Title Assi | istant Field Manager | Off | ice | | | | | |
| •• | es not warrant or certify that the applicant h | olds legal or | equitable title to the | ose rights in the subject | ct lease which would enti | tle the applicant to cond | | |
| operations thereon. | | | | | | | | |
| Conditions of approval, i | | | | | | | | |
| | 001and Title 43 U.S.C. Section 1212, mak s or fraudulent statements or representation | | | | make to any department of | or agency of the United | | |
| *(Instructions on reverse | 2) | | | | | | | |

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District I .PO Box 1980. Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Departme

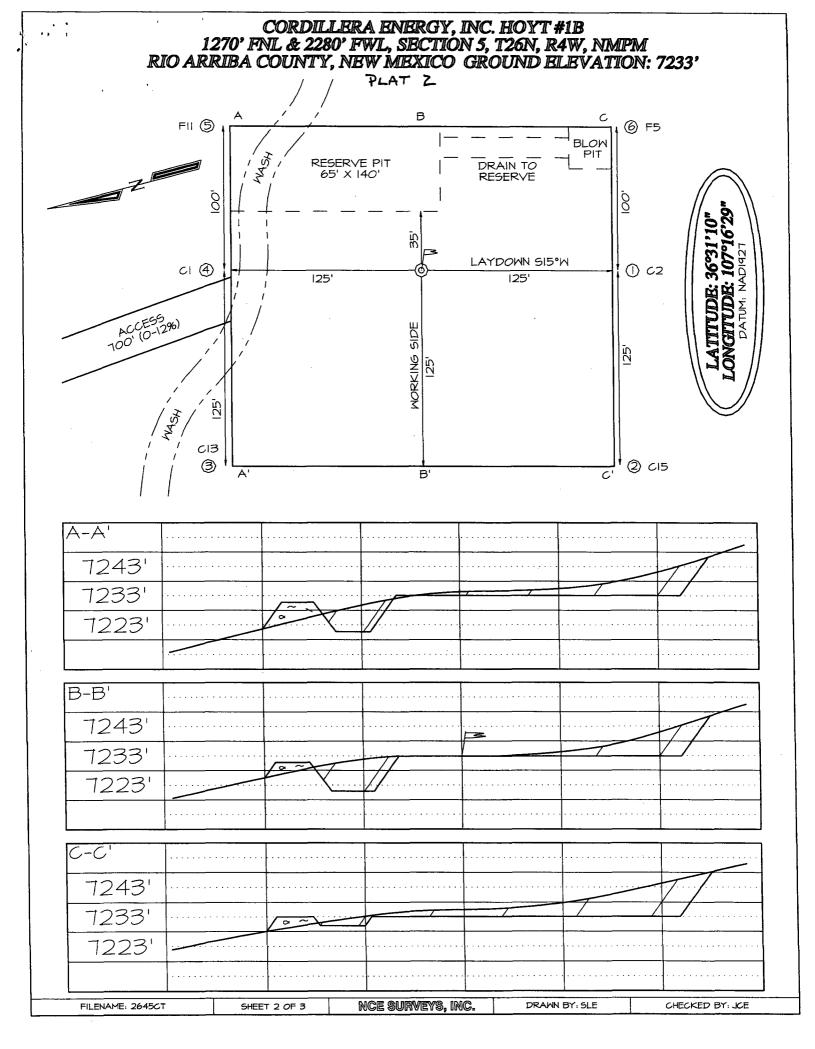
Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

District II PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504–2088 District III 1000 Rio Brazos Rd. Aztec, NM 87410

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

| | | | WELL | LUCAT. | TON AND AC | HEAGE DED. | | | | | |
|------------------------------|---|---------------|-------------|---------|-------------------------------|----------------------------------|------------------------|-----------------------|--|-------------------------|---|
| | 'API Number 'Pool Code 'Pool Name | | | | | | | | | | |
| 30-03 | 9-29256 72319 \ 71599 BLANCO MESAVERDE \ BASIN DAKOTA | | | | | | | OTA | | | |
| Property | Code | Property Name | | | | | ⁶ We | ll Number | | | |
| 1403 | 35 | HOYT | | | | | | 1B | | | |
| OGRIO | No. | | | | | | | levation | | | |
| 1/1/323 | 1 | | | COR | DILLERA EN | NERGY, INC | · | | | 7 | 7233 ' |
| | · | | | | ¹⁰ Surface | Location | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet fr | om the | East/We | st line | County RIO |
| C | 5 | 26N | 4W | | 1270 | NORTH | 22 | 80 | WE | ST | ARRIBA |
| | | 11 B | ottom | Hole L | ocation I | f Different | From | Surf | ace | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet fr | rom the | East/We | est line | County |
| | | | | | | | | | 1 | | |
| ¹² Dedicated Acre | | | | N (O) | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No |). | | | |
| | 326 | .82 Acre | 25 - (| N/S) | Y | | | | | | |
| NO ALLO | WABLE W | ILL BF A | ASSIGNF | D TO TH | IIS COMPLETION | ON UNTIL ALL | INTER | ESTS H | IAVE BE | EEN CON | SOLIDATED |
| NO ALLO | moue " | OR A | NON-S | TANDARD | UNIT HAS BE | EN APPROVED | BY THE | DIVI | SION | | |
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| 1 | 22421 | | | Į. | ¥21825 | 607 On | - | PAUL | c - | Homz | es al |
| | 2280' | | | | - 13 CALS | | 11 - | rinted | Name | - CO 200 () | |
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| | | Jico | arilla | Contr | act #119 | 1 Cal | . 11 | 8/6/ | 03 | | |
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| 133 | | | | | 6.0 | 1 4 | ~- " | | | | FICATION |
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| <u> </u> | | | | 5 - | | | | notes of my superv | actual su vision, and | rveys made that the | by me or under same is true |
| | | Į. | | Ĭ | | | 1 | and corre | ect to the | e pest of n | ny belief. IE 26, 2002 |
| | | | | | | | - | | | | |
| | | | | | | | ł | _ | | | sional Surveyor |
| | | 1 | | | | 1 | _ } | | CON | C. EDW | 10 |
| , 00 | | | | I | | | 00 | / | JASON JASON | C. EDW | 135 |
| | | | | 1 | | | . 1 | - 1 | / ~ / | / c | ² \ \ \ |
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| | | 1 | 5 | 5283.96 | ס | | 1 | Certi | ficate | Number | 15269 |



CORDILLERA ENERGY, INC. OPERATIONS PLAN Hoyt #1B

Date: August 6, 2003

I. Location: 1270' FNL & 2280' FWL

Sec 5, T26N, R4W

Rio Arriba County, NM

Field: Blanco MV & Basin DK Elev: GL 7233'

Surface: Jicarilla Apache Tribe Minerals: Jicarilla Contract #119

II. Geology: Surface formation _ Nacimiento

| Α. | Formation Tops | Depths |
|----|-----------------|---------------|
| | Ojo Alamo | |
| | Kirtland | |
| | Pictured Cliffs | 3835' |
| | Cliff House | 5645 ′ |
| | Menefee | 5765 ′ |
| | Point Lookout | 6115 ' |
| | Greenhorn | 8065 |
| | Graneros | |
| | Dakota | 8165 ′ |
| | Total Depth | 8415 ' |

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 3835', 5645', 6115', 8165'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well. Max. BHP = 2500 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The intermediate hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

The production hole will be drilled with air or air/mist.

Hoyt #1B Operations Plan Pg #2

C. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

| Hole Size | Depth | Casing Size | Wt. & Grade |
|-----------|--------------|----------------|-------------|
| 12-1/4" | 250 ′ | 9-5/8 " | 36# J-55 |
| 8-3/4" | 4035' | 7 " | 20# J-55 |
| 6-1/4" | 8415′ | 4-1/2" | 11.6# N-80 |

B. Float Equipment:

- a) Surface Casing: Notched collar on bottom and 3 centralizers on the bottom 3 joints.
- b) Intermediate Casing: 7" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Ten centralizers spaced every other joint above shoe and ten turbolizers every other joint from 2000'.
- c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

Hoyt #1B Operations Plan Pg #3

V. Cementing:

Surface casing: 9-5/8" - Use 140 sx (165 cu. ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Intermediate Casing: 7" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 515 sx (1076 cu.ft) of Type III 65/35 poz with 8% gel, 1% $CaCl_2$, $\frac{1}{4}$ /sk. Celloflake. (Yield = 2.09 cu.ft./sk; slurry weight = 12.1 PPG). Tail with 100 sx (139 cu.ft.) of Type III with 1% $CaCl_2$, $\frac{1}{4}$ /sk. Celloflake. (Yield = 1.39 cu. ft./sk; slurry weight = 14.5 PPG). Total cement volume is 1215 cu.ft. (100% excess to circulate cement to surface). WOC for 12 hrs. Pressure test the BOP and casing to 1500 psi.

Production Casing: 4-1/2" - Blow hole clean. Precede cement with 20 bbls of gel water and 10 bbls of water. **Lead** with 300 sx (594 cu.ft.) of Premium Lite HS with 0.65% FL-52, 0.32% CD-32, $\frac{1}{4}$ #/sk celloflake, and 4% phenoseal. (Yield = 1.98 cu.ft./sk; slurry weight = 12.5 PPG). **Tail** with 100 sx (196 cu.ft.) of Premium Lite HS with 0.65% FL-52, and 0.32% CD-32. (Yield = 1.96 cu.ft./sk; slurry weight = 12.5 PPG). Total cement volume is 790 cu.ft. (70% excess to circulate 100' above the intermediate casing shoe).

Paul C. Thompson, P.E.

Cordillera Energy, Inc.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup Exhibit #1

