District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

☐ AMENDED REPORT

| APPL | ICATI | ON F | OF | R PERMIT | TO D | RILL, RE-I | ENTER, D | EEPEN | , PLUGBAC | K, O | R AD | D A ZONE |
|----------------------------------|----------------|---------------|--|--------------------------------------|-------------------------|--------------------------|---------------------------------|--------------------|-----------------------|-------------|--------------|-----------------------------------|
| |] | Devo | Operator Name Energy Product PO Box | and Addre | ess eny, L.P. | 6137 OGRID Number | | | | | | |
| | | | | PO Box Navajo Dam, N | 6459 NM 87419 |) | | | 30 - 045 | 34 | Number 3 | |
| ³ Prope | | | | | ⁵ Property 1 | Name | | 1 30 04 0 | 091 | | No. | |
| | 19641 | | | | | Northeast Blan | nco Unit | | | | . 346 | 5E |
| | | | | Proposed Pool 1 | | | | | 10 Propos | ed Pool | 2 | |
| | | | | Basin Dakota | | 7 a c | <u> </u> | | | | | |
| | Г | l | | | | ⁷ Surface | | | | | | _ |
| UL or lot no. B | Section 36 | Towns 31N | • | Range 8W | Lot | Idn Feet fro | l l | South line orth | Feet from the 1930 | East/We | | County San Juan |
| | | | <u>' </u> | | sed Rott | om Hole Locat | | | | | <u> </u> | Can't aux |
| UL or lot no. | Section | Towns | ship | Range | Lot | | 1 | South line | Feet from the | East/We | est line | County |
| | l | | | | Ac | Iditional We | ll Informati | on | | | <u>-</u> | |
| | Type Code N | | | ¹² Well Type Co G | | 13 Cable | e/Rotary tary | | Lease Type Code | e | 15 Grou | nd Level Elevation 6,478' |
| | Iultiple N | | | ¹⁷ Proposed Dep 8,030' | th | ¹⁸ Fon Dal | mation kota | | 19 Contractor | | 2 | ⁰ Spud Date Unknown |
| Depth to Grou | ındwater > | 100' | | | Distanc | e from nearest fres | sh water well >1, | 000' | Distance from | nearest s | urface wa | nter >1,000' |
| Pit: Liner | : Synthetic | \boxtimes _ | 12_m | ils thick Clay | ☐ Pit V | olume:bbl | s D | rilling <u>Met</u> | hod: | | | |
| Close | ed-Loop Sy | stem [|] | | | | F | resh Water | Brine Diese | el/Oil-ba | ised 🔲 | Gas/Air 🛛 |
| | | | | 21 | Propos | sed Casing a | nd Cement | Prograi | n | | | |
| Hole S | Size | | Casi | ing Size | Casing weight/foot | | Setting D | epth | Sacks of Cem | ent | | Estimated TOC |
| 12 ½ | / <u>'</u> '' | | 9 | 5/8" | 32# | | 0-28 | 0-285' 200 | | | | Surface |
| 8 ³ / ₄ | " | | | 7" | 23# | | 0-3.59 | 0-3.598' 575 | | | | Surface |
| 6 1/2 | | | 4 | 1/2" | 11.6# | | 0-TI | 0-TD 70 | | | | Surface |
| | | | | | | | | | | | | |
| ²² Describe t | he propose | d progra | m. I | this application | is to DEE | PEN or PLUG BA | ACK, give the da | ta on the p | resent productive zor | ne and p | roposed r | new productive zone. |
| Describe the | blowout p | revention | n pro | gram, if any. Us | e addition | al sheets if necess | ary. | • | • | į | RCVD I | new productive zone. |
| | | | | | | | | | | Π | TL CON | NS. DIV. |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | DI | ST.3 |
| | | | | | | | | | | | | |
| | | | | | | NOTIFY AZ | rec och 1 | Luho | (5 - | | | |
| | | | | | | IN TIME TO | WITNESS _ | 359€ | cement | | | |
| • | | | | | | | | -017 | | | • | |
| 13 | | | | | | | | | | | | |
| | | | | n given above is | | | | OIL C | ONSERVATI | ON I | DIVISI | ON |
| constructed | according | to NM(| OCD | guidelines 🔯, a | | | Approved by | | | | | |
| an (attached | l) alternati | ve OCD | -арр | roved plan . | | | 1 | t | Myl | | | |
| Printed name | : Melisa C | astro | K | | | | Title PUTY | OR & C | AS INSPECTOR, D | | | |
| Title: Senior | Staff Oper | ations T | echn | ician _ | | | Approval Date | | | | Date: M | AD O OODD |
| E-mail Addre | ess: Melisa | .castro@ | ıdvn. | com | | | | | | | M | AN V & ZUUU |
| Date: 3-5-07 Phone: 505-632-0244 | | | | | | | Conditions of Approval Attached | | | | | |

District I PO Box 1980, Hobbs NM 88241-1980 PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

Fee Lease - 3 Copies

AMENDED REPORT RCVD MAR6'07

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 'API Number | | ¹ Pool Code | ' Pool Na | Pool Name OIL CONS. DIV. | |
|----------------------------|-------|------------------------|------------------------|--------------------------|--|
| 30-046- | 34203 | 71599 | Basin Dakota | DIST. 3 | |
| ⁴ Property Code | | | 5 Property Name | 6 Well Number | |
| 19641 | NEB | NEBU | | | |
| OGRID No. | | | ⁹ Elevation | | |
| 6137 | Devo | 6478 | | | |

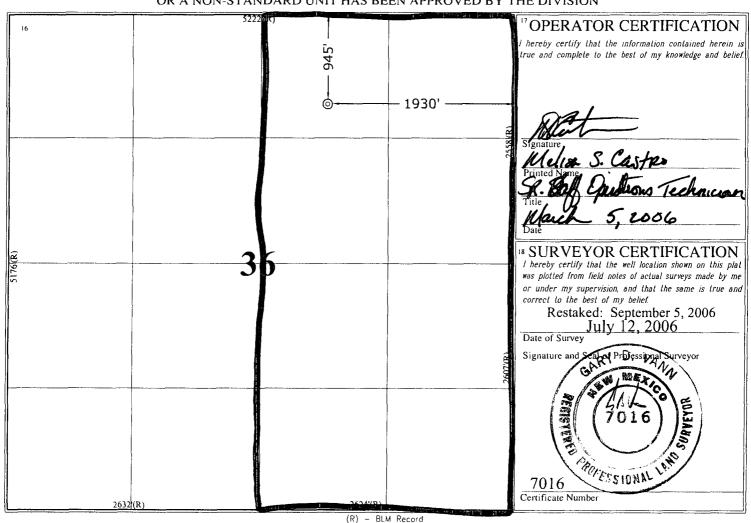
¹⁰ Surface Location

| UL or Lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|--|
| В | 36 | 31 N | 8 W | | 945 | NORTH | 1930 | EAST | SAN JUAN | |

11 Bottom Hole Location If Different From Surface

| Bottom Hole Eccation in Enterent From Surface | | | | | | | | | | |
|---|----------|--------------|--------------|------------|---------------|------------------|---------------|----------------|--------|--|
| 7 UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| 12 Dedicated Acres | 13 Joint | or Infill 14 | Consolidatio | on Code 15 | Order No. | | | | | |
| 6/2 - 370 | | | | | | | | | | |

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



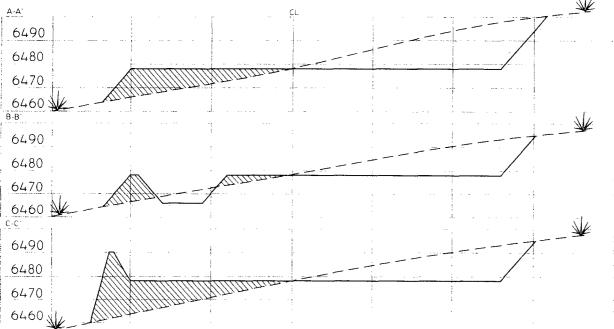
| Submit 3 Copies To Appropriate District Office | State of | New Mex | ico | | Form | |
|---|---|---|--|---|--|----------|
| District I | Energy, Minerals | and Natura | l Resources | | March | 4, 2004 |
| 1625 N. French Dr., Hobbs, NM 88240 | | | | WELL API NO. 30-045- | 34202 | |
| District II 1301 W. Grand Ave., Artesia, NM 88210 | OIL CONSER' | VATION I | DIVISION | 5. Indicate Type | ofLease | |
| District III | 1220 Sout | h St. Franc | is Dr. | STATE | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 District IV | Santa F | e, NM 875 | 05 | 6. State Oil & G | | |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | | | | E-5382 | | |
| SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.) | | EPEN OR PLUC | | 7. Lease Name of NORTHEAST I 8. Well Number | | Vame |
| 1. Type of Well: Oil Well ☐ Gas Well ☒ | Other | | | 346E | | |
| 2. Name of Operator | | | | 9. OGRID Num | ber | |
| | rgy Production Comp | any, L.P. | | 6137 | | |
| 3. Address of Operator PO Box 6459, Navajo Dam, NM | 37419 | | | 10. Pool name o Basin Dakota | r Wildcat | |
| 4. Well Location | | | | | | |
| Section 36 Township Pit or Below-grade Tank Application (For Pit Location: UL_B_Sect_36_Twp_31N Distance from nearest surface water_>10 | 11. Elevation (Show w GR 6,478' pit or below-grade tank clos _Rng_7W Pit type Dril 00'_ Below-grade Tank Lo | whether DR, I sures, a form C lling_Depth to ecation UL_ | RKB, RT, GR, etc -144 must be attach Groundwater_>10 | ned) 0'_Distance from neare | est fresh water well_>10 | 00'_ |
| 12 Check A | ppropriate Box to I | ndicate Na | ture of Notice | Report or Other | r Data | |
| NOTICE OF INT | TENTION TO: | | | BSEQUENT RE | | νG □ |
| TEMPORARILY ABANDON | CHANGE PLANS | | COMMENCE DE | RILLING OPNS. | PLUG AND ABANDONMENT | |
| PULL OR ALTER CASING | MULTIPLE COMPLETION | | CASING TEST A CEMENT JOB | AND | , as a second se | |
| OTHER: CONSTRUCT DRILLING | PIT | \boxtimes | OTHER: | | | П |
| 13. Describe proposed or comploof starting any proposed wor or recompletion. 14. Devon Energy will be with the NMOCD regular. | k). SEE RULE 1103. constructing a line | For Multiple ed drilling | Completions: A pit. The clos | Attach wellbore diag | ram of proposed convill be in accord | mpletion |
| I hereby certify that the information a grade tank has been/will be constructed or o | | | | | | |
| SIGNATURE TO SIGNATURE | | | Sr Staff Operatio | | DATE 3 | |
| Type or print name Melisa Castro | E-mail address: 1 | Melisa.castro | @dvn.com T | elephone No. 405-5 | 52-7917 | |
| (This space for State use) | | | | | | |
| APPPROVED BY Conditions of approval, if any: | My | TITLE | TY OIL & GAS IN | SPECTOR, DIST. | DATE MAR O | 8 2007 |

PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P. Nebu # 346E

945' F/NL 1930' F/EL SEC. 36, T31N, R8W, N.M.P.M.

Lat:

36.85899° (83) 107.62459° (83) Long: SAN JUAN COUNTY, NEW MEXICO В C Д (5) F 12 ⑥ F /5 F 12 PROPOSED DROP PROPOSED FLARE PIT RESERVE PIT 8 1/1//// 30, 7//// Mud Tanks 4 6478 ELEV. CO N 10° E 150 Draw Works 150 LAYDOWN 30 230' 130 SEPTEMBER 15, 2006 SCALE: 1" = 60" RESTAK Proposed Access Road (2) 120 1501 А NOTES: Reserve Pit Dike - Should be 8' above Deep side (overflow - 3' wide & 1' above shallow side)
Flare Pit - Overflow pipe should be halfway between lop and bottom and extend over plastic liner and into flare pit. 400' CONSTRUCTION ZONE Area of Construction Zone - 330'x400' or 3.03 ocres, more or less.



SCALE: 1"=60"-HORIZ 1"=40"-VERT.

NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

> VANN SURVEYS P. O. Box 1306 Farmington, NM

NEBU 346E

From the town of Aztec, NM, take State HWY 173 for 18 miles to State HWY 511. Turn left on State HWY 511 and travel 9.5 miles. Travel for another 0.5 miles then turns right. Travel for 0.6 miles to location turn off to location turn off. Well will be on left side of location road.

NEBU 346E Unit B 36-31N-8W San Juan Co., NM

DRILLING PLAN

1. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:</u>

| Formation | TVD (ft) | Hydrocarbon/Water Bearing Zones | | |
|--------------------------------|-------------|------------------------------------|--|--|
| San Jose | Surface | | | |
| Ojo Alamo | 2303 | Aquifer | | |
| Kirtland | 2403 | | | |
| Fruitland | 2937 | Gas | | |
| Fruitland 1 st Coal | 3138 | Gas | | |
| Pictured Cliffs Tongue | 3303 | Gas | | |
| Pictured Cliffs | 3380 | Gas | | |
| Lewis | 3498 | Gas | | |
| Intermediate TD | 3598 | | | |
| Mesaverde | 4146 | Gas | | |
| Chacra \ Otera | 4516 | Gas | | |
| Cliff House | 5137 | Gas | | |
| Menefee | 5364 | Gas | | |
| Point Lookout | 5668 | Gas | | |
| Mancos | 6054 | Gas | | |
| Gallup | 6973 | Gas | | |
| Greenhorn | 7678 | | | |
| Graneros | 7731 | Gas | | |
| Paguate | 7859 | | | |
| Cubero | 7868 | | | |
| Oak Canyon | 7936 | | | |
| Encinal Canyon | 7961 | | | |

| | 1 | |
|--|------|------|
| TD | 8030 | |
| The second secon | | |

^{*}All shows of fresh water and minerals will be adequately protected and reported.

2. PRESSURE CONTROL EQUIPMENT:

All well control equipment shall be in accordance with Onshore Order #2 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram, with a size of 2", and pressure ratings.

2000# BOP With Pipe Rams and 2000# BOP With Blind Rams Auxiliary equipment to be used:

• Upper kelly cock with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) or 70% of the internal yield pressure (without a test plug) at:

- Initial installation
- Whenever any seal subject to test pressure is broken
- Following related repairs
- At 30 day intervals

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew. All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to close all rams and retain 200 psi above precharge pressure without the use of closing unit pumps.

Master controls will be at the accumulator. Anticipated bottom hole pressure is 3400 psi.

3. Casing & Cementing Program:

A. The proposed casing program will be as follows:

| TVD | Hole Size | Size | Grade | Weight | Thread | Condition |
|--------|--------------|--------|-------|--------|--------|-----------|
| 0-285 | 12-1/4" | 9-5/8" | H-40 | 32# | STC | New |
| 0-3598 | 8-3/4" | 7" | K-55 | 23# | LTC | New |
| 0- TD | 6-1/4" | 4-1/2" | J-55 | 11.6 # | LTC | New |

The 9-5/8" surface pipe will be tested to 750 psi. All casing strings below the surface shoe shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

<u>Surface</u>: The bottom three joints of the surface casing will have a minimum of one centralizer per joint and one centralizer every joint thereafter (Total 5 centralizers estimated)

<u>Intermediate</u>: The bottom three joints of the 7" casing will have a minimum of one centralizer per joint and one centralizer every fifth joint thereafter to above Ojo Alamo with turbolizers below and throughout the Ojo Alamo. (Total 12 centralizers, 3 turbolizers estimated).

<u>Production</u>: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3400' (estimated 25 centralizers used). Centralizers will be open bow spring or basket bow spring type.

B. The proposed cementing program will be as follows:

Surface String:

Cement will be circulated to surface.

Lead: 200 sx Class "B" with 100% Standard Cement, 2.00% CaCl2, .25 #/sx Flocele. Density. 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.24 gal/sx *

* Minor variations possible due to existing conditions

Intermediate String:

Cement will be circulated to surface.

Lead: 500 sx Of 50/50/Std/ Poz, Yd-1.45, Water Gal/Sk 6.8, Mixed @ 13ppg Foamed W/ N2 Down To 9.0# Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

Tail: 75 sx 50/50 Poz with 94#/sx Standard Cement, 0.3% Halad-344, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.23 gal/sx *

* Minor variations possible due to existing conditions

If hole conditions dictate an alternate cement design will be used:

Lead: 575 sx 50/50 Poz with 50% Class B Cement, 50% San Juan Poz, .4% Halad-344, .1% CFR-3, 3% Bentonite, 5#/sx Gilsonite, .25#/sx Flocele. Density: 13.0 lb/gal; Yield: 1.46 cuft/sk; Water: 6.42 gal/sx *

Tail: 75 sx 50/50 Poz, Yd-1.45, Water Gal/sx 6.8, Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl

* Minor variations possible due to existing conditions

Production String:

TOC designed to circulate 1000' into intermediate string, cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

Lead: 250 sx 50/50 Poz with 2% Gel, 0.2% Halad, 0.1% CFR-3, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Mixed at 13 ppg, 1.47 ft 3/sx foamed to 9 ppg, 2.18 ft 3/sx.

Tail: 450 sx 50/50 Poz with 50% Standard Cement, 50% San Juan Poz, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sx; Water: 6.35 gal/sx *

* Minor variations possible due to existing conditions

Actual volumes will be calculated and adjusted with caliper log prior to cementing.

4. DRILLING FLUIDS PROGRAM:

| Interval | Type | Weight (ppg) | Viscosity | ρĦ | Water Loss | Remarks |
|-------------|---------------------|-----------------|-----------|----------|-----------------|---|
| 0-3629' | Spud- foam | 8.4-9.0 | 29-70 | 8.0 | NC | FW gel, LSND or stiff foam |
| 3598'-7859' | Air | | | | NC | |
| 7859' - TD | Air/N2 or Mud | 8.5-9.0* | 30-50 | 8.0-10.0 | 8-810cc @ TD | Low solids- non-dispersed. * min Wt. to control formation pressure |

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

5. EVALUATION PROGRAM:

Logs:

Density

Neutron Induction

In the event open hole logs are not run in the well, a cased hole evaluation log will Be run from

Survey:

Deviation surveys will be taken every 500' of the 8 ¾" hole, or first succeeding bit change. The hole will be air drilled from intermediate TD – well TD. The equipment used in this type of operation will not allow for single shot suveys without considerable operational delays. A survey will be taken at TD. Similar wells in this area have not shown significant deviation in this section of the hole.

Cores:

None anticipated.

DST's:

None anticipated.

6. ABNORMAL CONDITIONS:

The Fruitland Coal will be encountered within the $8\,\%$ hole. Estimated formation pressure is 300 psi. No other abnormal pressures and/or temperatures are expected. No hydrogen sulfide should be present.

7. OTHER INFORMATION:

The anticipated starting date and duration of the operation will be as follows:

Starting Date:

Upon Approval

Duration:

20 days

Well Control Equipment 2,000 psi Configuration

