

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD MAY11'07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2:07 PM 19 PM 3:42

| | | |
|--|--|-----------------|
| 1a. Type of Work DRILL | 5. Lease Number USA SF-076956 Unit Reporting Number 210 FARMINGTON NM | |
| 1b. Type of Well GAS | 6. If Indian, All. or Tribe | |
| 2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP | 7. Unit Agreement Name | |
| 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 | 8. Farm or Lease Name Hare 9. Well Number #100 | |
| 4. Location of Well Unit A (NENE), 800' FNL & 1070' FEL Latitude 36° 42.95742 N Longitude 107° 50.91076 W | 10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) A Sec. 23, T29N, R10W API # 30-045-34283 | |
| 14. Distance in Miles from Nearest Town | 12. County San Juan | 13. State NM |
| 15. Distance from Proposed Location to Nearest Property or Lease Line 800' | 17. Acres Assigned to Well 320 (N/2) | |
| 16. Acres in Lease | 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 75' Hare D 19 MV/DK | |
| 19. Proposed Depth 2328' | 20. Rotary or Cable Tools Rotary | |
| 21. Elevations (DF, FT, GR, Etc.) 5761' GL | 22. Approx. Date Work will Start | |
| 23. Proposed Casing and Cementing Program See Operations Plan attached | SEE ATTACHED FOR CONDITIONS OF APPROVAL | |
| 24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician) | 4-19-07 Date | |

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

Example Master Plan Type X 2

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOCD

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

5/17/07

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED

BLM

AMENDED REPORT

210 FARMINGTON NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|----------------------------|--|--------------------|---|
| API Number 30-045-34283 | | Pool Code 71629 | Pool Name BASIN FRUITLAND COAL (GAS) |
| Property Code 7091 | Property Name HARE | | Well Number 100 |
| OGRID No. 14538 | Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP | | Elevation 5761' |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| A | 23 | 29N | 10W | | 800' | NORTH | 1070' | EAST | SAN JUAN |

11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|----------------------------|---------|----------|-----------------|---------|--------------------|------------------|---|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres 320 N/2 | | | Joint or Infill | | Consolidation Code | | Order No. RCUD MAY11'07 OIL CONS. DIV. DIST. 3 | | |

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

17 OPERATOR CERTIFICATION

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 undivided 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 or a compulsory pooling order heretofore entered by the division.

Rhonda Rogers 4-19-07
Signature Date

Rhonda Rogers
Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 22, 2007

Date of Survey

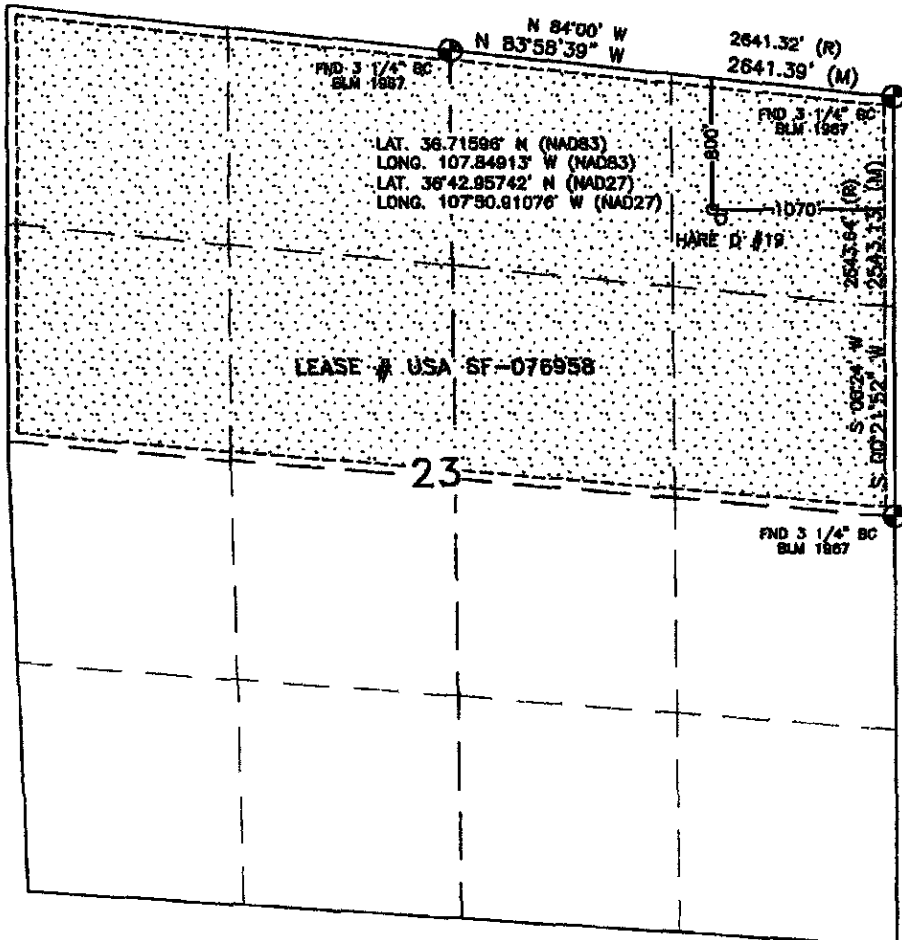
Signature and Seal of Professional Surveyor

David R. Russell

DAVID RUSSELL

Certificate Number

10201



District I

Energy, Minerals and Natural Resources

May 27, 2004

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

| | |
|--------------------------------------|---|
| WELL API NO. | 30-045- 34283 |
| 5. Indicate Type of Lease | STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. | Federal Lease# USA SF-076958 |
| 7. Lease Name or Unit Agreement Name | Hare |
| 8. Well Number | #100 |
| 9. OGRID Number | 14538 |
| 10. Pool name or Wildcat | Basin Fruitland Coal |

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator
3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location
Unit Letter A : 800' feet from the North line and 1070' feet from the East line
Section 23 Township 29N Rng 10W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5761'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type New Drill Depth to Groundwater <50 Distance from nearest fresh water well >1000 Distance from nearest surface water >1000
Pit Liner Thickness: N/A mil Below-Grade Tank: Volume bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: New Drill ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Shonda Rogers TITLE Regulatory Technician DATE 4-19-07

Type or print name Rhonda Rogers E-mail address: ogerrs@conocophillips.com Telephone No. 505-599-4018
For State Use Only

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAY 17 2007
Conditions of Approval (if any):

SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

HARE #100

800' FNL & 1070' FEL

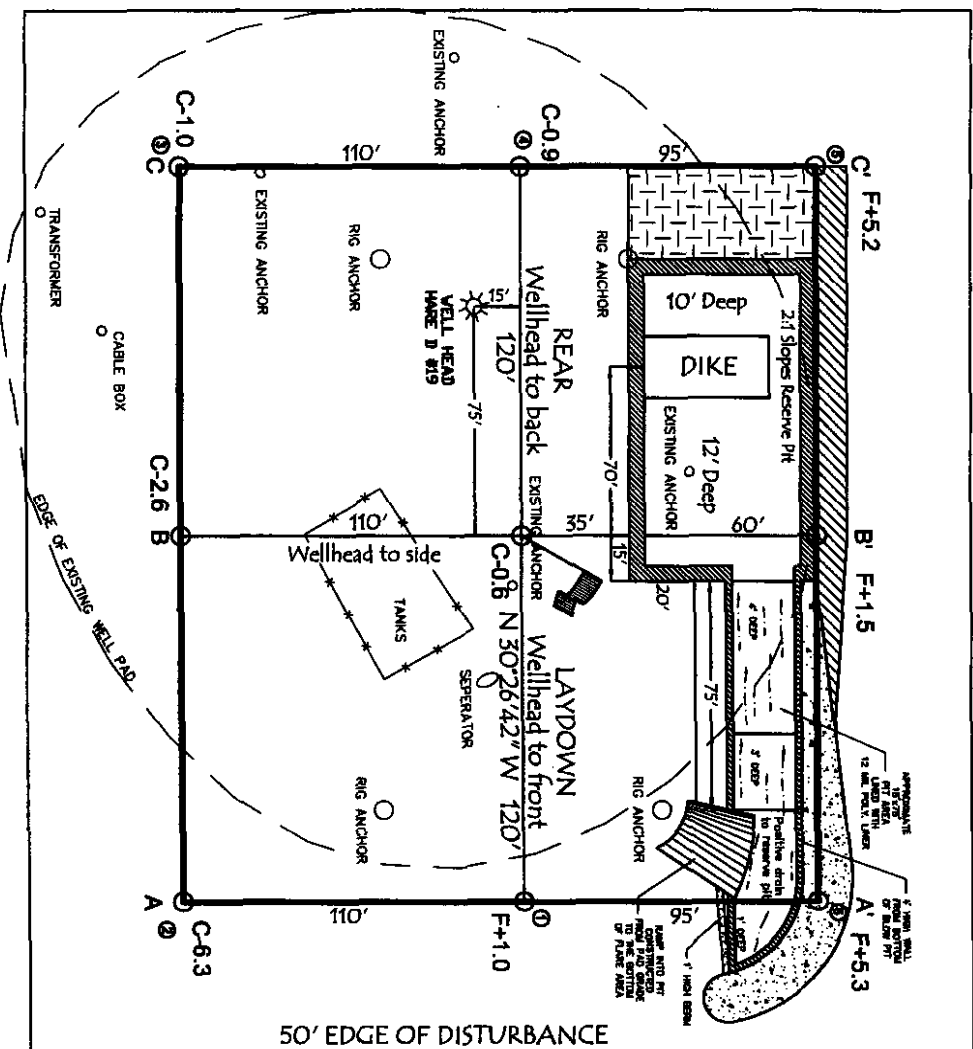
LOCATED IN THE NE/4 NE/4 OF SECTION 23,

T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5761', NAVD 88

FINISHED PAD ELEVATION: 5760.0', NAVD 88



305' x 340' = 2.38 ACRES OF DISTURBANCE

SCALE: 1" = 60'

JOB No.: COP -REV1

DATE: 03/23/

NOTES

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATING OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON THE ROAD IN CONSTRUCTION ZONE AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

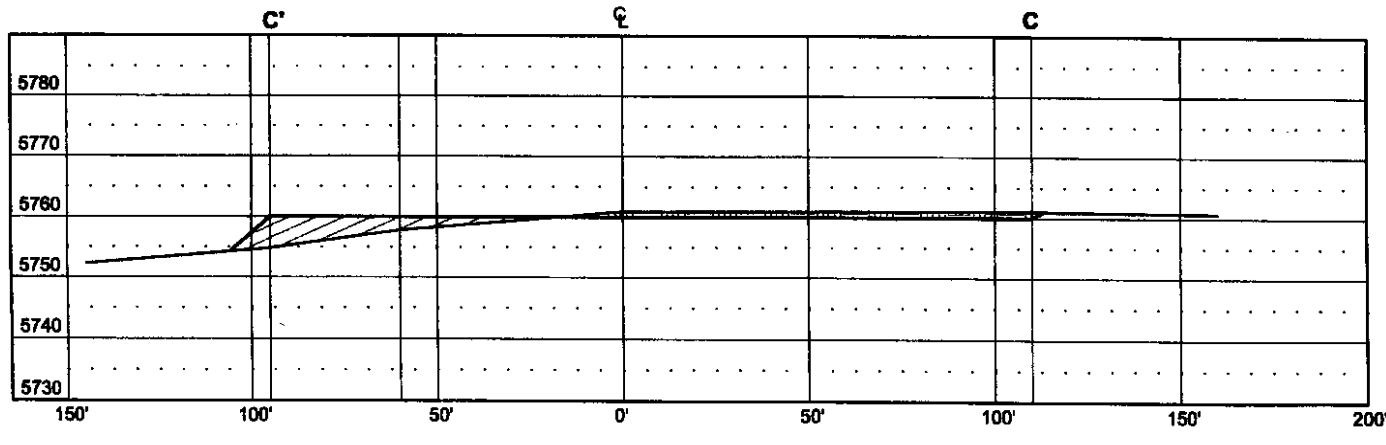
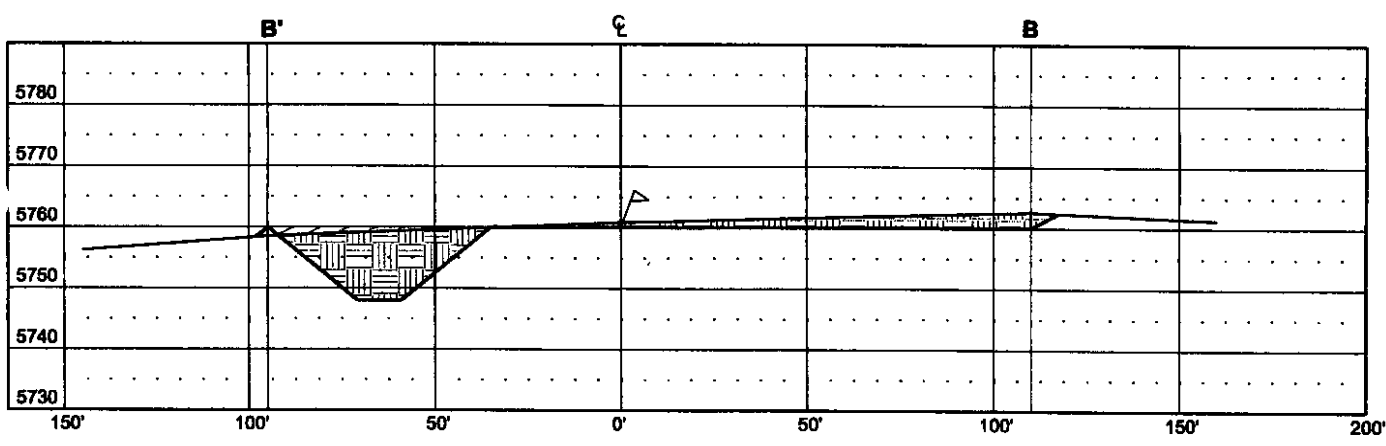
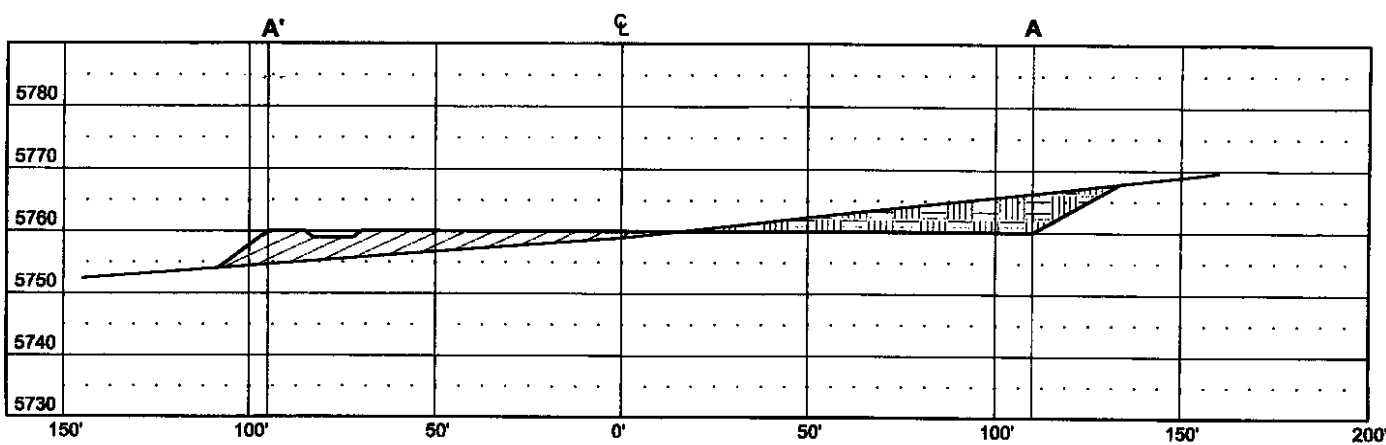
**CABLES CAN WELL
TO CONSTRUCTION.**

~~SECRET~~

Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-

LATITUDE: 36.71596°N
LONGITUDE: 107.84913°W
DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP
HARE #100
800' FNL & 1070' FEL
LOCATED IN THE NE/4 NE/4 OF SECTION 23,
T29N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 5761', NAVD 88
FINISHED PAD ELEVATION: 5760.0', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30'
HORZ. SCALE: 1" = 50'
JOB No.: COP064-REV1
DATE: 03/23/07

 CUT
 FILL

 **Russell Surveying**
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARE 100

DEVELOPMENT

| | | | | | |
|----------------------------------|--|---------------------|--|--------------------|------------------|
| Lease: | | AFE #: WAN.CDR.7065 | | AFE \$: 203,496.43 | |
| Field Name: hBR_SAN JUAN | | Rig: Aztec Rig 580 | | State: NM | County: SAN JUAN |
| Geologist: | | Phone: | | Geophysicist: | |
| Geoscientist: Clark, Dave D | | Phone: 505-326-9762 | | Prod. Engineer: | |
| Res. Engineer: Schlabaugh, Jim L | | Phone: 505-326-9788 | | Proj. Field Lead: | |
| | | | | Phone: | |

Primary Objective (Zones):

| Zone | Zone Name |
|------|----------------------------|
| JCV | BASIN FRUITLAND COAL (GAS) |

| | | | | | |
|---------------------|------------------------|--------------------|---------------|----------------|-------------|
| Location: Surface | | Datum Code: NAD 27 | | Straight Hole | |
| Latitude: 36.716215 | Longitude: -107.848440 | X: 495572.28 | Y: 2079957.53 | Section: 23 | Range: 010W |
| Footage X: 1070 FEL | Footage Y: 800 FNL | Elevation: 5761 | (FT) | Township: 029N | |
| Tolerance: | | | | | |

| Location Type: Year Round | | Start Date (Est.): | | Completion Date: | | Date In Operation: | |
|----------------------------------|-------------------|--------------------|--------------------------|------------------|-----|--|--|
| Formation Data: Assume KB = 5773 | | Units = FT | | | | | |
| Formation Call & Casing Points | Depth (TVD in Ft) | SS (Ft) | Depletion (Yes/No) | BHP (PSIG) | BHT | Remarks | |
| Surface Casing | 120 | 5653 | <input type="checkbox"/> | | | 8-3/4 hole. 7" 20.0 ppf, J-55, STC casing. Circulate cement to surface. Cement with 50 cuft. | |
| OJO ALAMO | 1072 | 4701 | <input type="checkbox"/> | | | Possible water flows. | |
| KIRTLAND | 1116 | 4657 | <input type="checkbox"/> | | | | |
| FRUITLAND | 1861 | 3912 | <input type="checkbox"/> | 275 | | Possible gas. | |
| PICTURED CLIFFS | 2128 | 3645 | <input type="checkbox"/> | | | | |
| Total Depth | 2328 | 3445 | <input type="checkbox"/> | | | 6-1/4" hole. 4 1/2" 10.5 ppf, J-55 LTC. Circulate cement to surface. Cement with 358 cuft. | |

Reference Wells:

| Reference Type | Well Name | Comments |
|----------------|-----------|----------|
|----------------|-----------|----------|

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR/CBL

Additional Information:

| Log Type | Stage | From (Ft) | To (Ft) | Tool Type/Name | Remarks |
|----------|-------|-----------|---------|----------------|---------|
|----------|-------|-----------|---------|----------------|---------|

Comments: Location/Tops/Logging - FCNM029N010W23NE1 Try to stay 500' from Hare 11(PC) - twin Hare D #19 - prefer A,B,G,H - per Jim Schlabaugh plan on a 2 stage frac to help with depletion in basal that may have come from refrac of PC a few years back. eap 1-16-07

Zones - FCNM029N010W23NE1

General/Work Description - MAKE SURE COST INCLUDE JET PUMP