

## OCD-ARTESIA

30-3  
2004)

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MAR 27 2006

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 20075. Lease Serial No.  
NM NM 98791  
6. If Indian, Allottee or Tribe Name1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator  
Parallel Petroleum Corporation3a. Address 1004 North Big Spring, Suite 400  
Midland, Texas3b. Phone No. (include area code)  
432/684-3727

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface 300' FSL and 710' FEL

At proposed prod. zone PP 660' FSL and 710' FEL, BHL 660' FNL and 710' FEL

14. Distance in miles and direction from nearest town or post office\*  
9 miles south of Hope, New Mexico15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) 660'16. No. of acres in lease  
1,922.4817. Spacing Unit dedicated to this well  
32018. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. 6800'19. Proposed Depth  
5500' TVD, 8576' MD20. BLM/BIA Bond No. on file  
NMB00026521. Elevations (Show whether DF, KDB, RT, GL, etc.)  
GL 4166'22. Approximate date work will start\*  
04/15/200523. Estimated duration  
30 days

## 24. Attachments

Roswell Controlled Water Basin

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

*Deane Durham*

Name (Printed/Typed)

Deane Durham

Date

1 MAR 2006

Title

Drilling Engineer, Parallel Petroleum Corporation

Approved by (Signature)

James A. Amos

Name (Printed/Typed)

James A. Amos

Date

MAR 23 2006

ACTING

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

DECLARED WATER BASIN  
CEMENT BEHIND THE 9 3/8"  
CASING MUST BE CIRCULATED

WITNESS

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHEDIf earthen pits are used in  
association with the drilling of this  
well, an OCD pit permit must be  
obtained prior to pit construction.

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96086	Pool Name Wildcat; 461camp
Property Code	Property Name SQUEEZE BOX FEDERAL	Well Number 1
OGRID No.	Operator Name PARALLEL PETROLEUM CORPORATION	Elevation 4166'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	19 S	21 E		300	SOUTH	710	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	19 S	21 E		660	NORTH	710	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

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>Project Area</p> <p>Producing Area</p>	<table><tr><th colspan="2">Coordinate Table</th></tr><tr><th>Description</th><th>Plane Coordinate</th></tr><tr><td>Squeeze Box Federal #1</td><td>X = 374,587.0</td></tr><tr><td>Surface Location</td><td>Y = 607,135.1</td></tr><tr><td>Squeeze Box Federal #1</td><td>X = 374,588.3</td></tr><tr><td>Penetration Point</td><td>Y = 607,495.1</td></tr><tr><td>Squeeze Box Federal #1</td><td>X = 374,602.5</td></tr><tr><td>Bottom Hole Location</td><td>Y = 611,462.7</td></tr></table>	Coordinate Table		Description	Plane Coordinate	Squeeze Box Federal #1	X = 374,587.0	Surface Location	Y = 607,135.1	Squeeze Box Federal #1	X = 374,588.3	Penetration Point	Y = 607,495.1	Squeeze Box Federal #1	X = 374,602.5	Bottom Hole Location	Y = 611,462.7
Coordinate Table																	
Description	Plane Coordinate																
Squeeze Box Federal #1	X = 374,587.0																
Surface Location	Y = 607,135.1																
Squeeze Box Federal #1	X = 374,588.3																
Penetration Point	Y = 607,495.1																
Squeeze Box Federal #1	X = 374,602.5																
Bottom Hole Location	Y = 611,462.7																
<p>NOTE:</p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Deane Durham</i> Signature Deane Durham Printed Name ENGINEER Title 10 FEB 2006 Date</p> <p>SURVEYOR CERTIFICATION</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>February 14, 2006 Date Surveyed Signature &amp; Seal of Professional Surveyor 12185 W.O. Num. 2006-0064 Certificate No. MACON, McDONALD 12185</p> <p>Exhibit G</p>																

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-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to  
appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe  
office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: **Parallel Petroleum Corporation** Telephone: **432-684-3905** e-mail address: **gmiller@hec-enviro.com**  
Address: **1004 N. Big Spring Street, Suite 400, Midland, Texas 79701**  
Facility or well name: **Squeeze Box Federal #1** API #: \_\_\_\_\_ U/L or Qtr/Qtr Unit **P** Sec **12** T **19S** R **21E**  
County: **Eddy** Latitude **32° 40' 4.6" N** Longitude **104° 44' 8.9" W** NAD: 1927 X 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness **12** mil Clay ☐

Pit Volume **25,000** bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) **750'**

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet	(10 points) <b>0</b>
100 feet or more	(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)
No	(0 points) <b>0</b>

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)
200 feet or more, but less than 1000 feet	(10 points) <b>0</b>
1000 feet or more	(0 points)

<b>Ranking Score (Total Points)</b>	<b>0</b>
-------------------------------------	----------

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described 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 ☐.

Date: **2-6-06**

Printed Name/Title **Gary Miller, Agent** Phone **432/682/4559** Signature \_\_\_\_\_

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: **Gerry Guye**  
Printed Name/Title **Compliance Officer**

Signature \_\_\_\_\_

Date: **2-17-06**

**SURFACE AND OPERATIONS PLAN FOR  
DRILLING, COMPLETION, AND PRODUCING**

**PARALLEL PETROLEUM CORPORATION  
SQUEEZE BOX FEDERAL #1  
SHL: 300' FSL AND 710' FEL, SEC 12, T19S, R21E  
EDDY COUNTY, NEW MEXICO**

**LOCATED:**

9 miles South of Hope, New Mexico

**OIL & GAS LEASE:**

NM NM 98791

**RECORD LESSEE:**

Nearburg Exploration Company, LLC  
3300 N. A Street, Bldg. 2 #120  
Midland, Texas 79705

**BOND COVERAGE:**

\$25,000 statewide bond # NMB000265 of Parallel Petroleum Corporation

**ACRES IN LEASE:**

1922.48

**SURFACE OWNER:**

Federal

**SURFACE TENANT:**

Barbra Runyon Ranch  
P.O. Box 2468  
Roswell, NM 88202  
Jim Bob Burnet, Ranch Manager, 505-484-3141

**POOL:**

Primary Objective - Wolfcamp

## **SQUEEZE BOX FEDERAL #1**

**Page 2**

### **EXHIBITS:**

- A. Area Road Map
- B. Drilling Rig Layout
- C. Pad Elevation Plat
- D. Vicinity Map
- E. Area Production Map
- F. Topographic & Location Verification Map
- G. Well Location & Acreage Dedication Map (NMOCD Form C-102)
- H. NMOCD Form C-144, Pit Registration (Original forwarded to NMOCD)
- I. Blow Out Preventer (BOP) Schematic
- J. Choke Manifold Schematic
- K. Estimated Horizontal Survey Calculation Program
- L. Estimated Wellbore Plot

### **1. EXISTING ROADS**

- A. Exhibits A and D are area road maps showing existing roads in the vicinity of the site.
- B. Exhibit F is a topographic map of the location showing existing roads and the proposed new access road.

### **2. ACCESS ROADS**

- A. Length and Width  
The access road will be built as shown on Exhibit D. The access road will come off County Road 20 and go east on to an existing 2 track road that runs along side an H-Frame power line. This access road may be utilized for as many as four drill sites including this one. The two track road will be improved for oilfield use. The road will go east 5995' and then turn left (north) to the proposed location of the Music Box Federal #1 site. The road will continue north and east of this proposed location 3110' to the Squeeze Box #1 wellsite. Both the improved two track and new access road will be surfaced with caliche and will be 16' to 24' wide with a total length of 9105'. A 75' wide turn in will be constructed onto the access road at County Road 20 and at each wellsite turn in.
- B. Surface Material  
Caliche from a commercial source.
- C. Maximum Grade  
Less than five percent.

## **SQUEEZE BOX FEDERAL #1**

### **Page 3**

D. Turnouts

Two turnouts will be constructed on the access road.

E. Drainage Design

There will be at least three low water crossings constructed on the existing two track road and no low water crossings are anticipated on the new section of access road from the Music Box Federal #1 proposed location.

F. Culverts

It is not anticipated that any culverts will be needed on the access road at this time.

G. Gates and Cattle Guards

No gates or cattle guards will be installed as no fences will be crossed for this location or access road.

3. LOCATION OF EXISTING WELLS

Existing wells in the immediate area are shown in Exhibit "E".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Necessary production facilities for this well will be located on the well pad.

5. LOCATION AND TYPE OF WATER SUPPLY

A water well may be drilled on this location for water supply for both drilling and completion. Upon completion of operations on this site the well may be used for drilling of additional wells on this lease. The well will be made available for the surface tenant upon completion of drilling in this area for use as stock water. A permit will be secured from the New Mexico Office of the State Engineer for this water well.

6. METHODS OF HANDLING WASTE DISPOSAL

A. Drilling fluids will be allowed to dry in the drilling pits until the pits are closed.

B. Water produced during tests will be disposed of in the drilling pits.

C. Oil produced during tests will be stored in test tanks.

D. Trash will be contained in a trash trailer and removed from well site.

## **SQUEEZE BOX FEDERAL #1**

### **Page 4**

- E. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.
- F. The reserve pit will be closed as per BLM and NMOCD regulations and guidelines. This will include leaving the drill cuttings in place in the pit, allowing them to dry, and covering the pit with at least 3' of backfill while not disturbing the pit liner. The cuttings may also be placed in a lined trench along side the drilling pit for disposal. If this disposal method is used the cuttings will be covered with a plastic liner and then covered with a minimum of 3' of backfill.

#### **7. ANCILLARY FACILITIES**

None required.

#### **8. WELL SITE LAYOUT**

Exhibit B shows the relative location and dimensions of the well pad, mud pits, reserve pit, and the location of major rig components.

#### **9. PLANS FOR RESTORATION OF THE SURFACE**

- A. After completion of drilling and/or completion operations, all equipment and other material that will not be used lease for operations will be removed from the site.
- B. After abandonment, all equipment, trash, and debris will be removed and the site will be reclaimed as per BLM permit stipulations.

#### **10. OTHER INFORMATION**

##### **A. Topography**

The project is located on open, rolling ridge slopes, with east/southeast exposure. The area has a regional drainage being to the south and east toward Gardner Draw.

##### **B. Soil**

Soils are very thin and shallow, tan/pink/grey loamy sandy silts, overlying limestone bedrock.

## **SQUEEZE BOX FEDERAL #1**

**Page 5**

C. Flora and Fauna

The location is located on a ridge and the vegetation consist of broom snakeweed, grasses, creosote, cholla, yucca catclaw, prickly pear, beargrass and various species of cacti.

D. Ponds and Streams

Gardner Draw, an intermittent stream which flows west to east, is located ½ mile south of the site. A small stock pond is located 1800' southwest of the location. Drainage from this site will eventually flow into Gardener Draw. There are no other rivers, lakes, ponds, or streams in the area.

E. Residences and Other Structures

The Barbra Runyon Ranch house is located 1.5 miles northeast of the proposed well site

F. Archaeological, Historical, and Cultural Sites

See archaeological report # SNMAS-06NM-2081

submitted by: Southern New Mexico Archaeological Services, Inc.,

P.O. Box 1

Bent, New Mexico 88314 Phone 505-671-4797

G. Land Use

Grazing

H. Surface Ownership

Federal

11. OPERATOR'S REPRESENTATIVE

Deane Durham, Engineer

Parallel Petroleum Corporation

1004 North Big Spring Street, Suite 400

Midland, Texas 79701

Office: (432) 684-3727



**SQUEEZE BOX FEDERAL #1**

**Page 6**

12. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Parallel Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10 FEB 2006  
Date

Deane Durham  
Name: Deane Durham  
Title: Engineer

**ATTACHMENT TO FORM 3160-3**  
**SQUEEZE BOX FEDERAL #1**  
**Surface Hole Location**  
**300 FSL AND 710 FEL, SEC 12, 19S, 21E**  
**Bottom Hole Location**  
**660 FNL AND 710 FEL, SEC 12, 19S, 21E**  
**EDDY COUNTY, NEW MEXICO**

**DRILLING PROGRAM**

**This well is designed as a horizontal test in the Wolfcamp formation.**

1. GEOLOGIC NAME OF SURFACE FORMATION

San Andres

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Glorieta 1825'(+2341')  
Tubb 2830'(+1336')  
Yeso 2970' (+1196')  
Abo Shale 3470' (+696')  
Abo Carbonate 3584' (+582')  
Wolfcamp 4422' (-256')  
Wolfcamp Shale 4528'(-362')

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL, OR GAS

Fresh water                      790'  
Oil and Gas                      Wolfcamp 4422' (-256')  
No H<sub>2</sub>S gas should be encountered

4. CASING AND CEMENTING PROGRAM

<u>Casing Size</u>	<u>From</u> <u>To</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
20" conductor	0'-40'			
9 5/8"	0' - 1300'	36#	J-55	LTC
5 1/2"	0' - 9,325'	17#	N-80	LTC

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

## **SQUEEZE BOX FEDERAL #1**

### **Page 2**

9-5/8" slurry: Lead: 125 sacks (50:50) Poz (Fly Ash): Class C + 5% bwow Sodium Chloride + 10% bwoc Bentonite + 151.7% fresh water. Tail: 200 sacks Class C + 1% bwoc Calcium Chloride + 56.3% fresh water

Note: If cement does not circulate to surface, notify BLM. A temperature survey will most likely be required. Top out to surface with 1" pipe in the annulus.

Note: 5-1/2" Cement per completion procedure.

### **Drilling Procedure**

- a. Set 20" conductor pipe at 40' with a rathole unit.
- b. Drill 12 1/4" surface hole to an approximate depth of 1300', using fresh water and viscous sweeps for hole cleaning. Set 9 5/8", 36# J-55 casing with 460 sx, Class C cement (lead will be 50/50 Poz, circulate to surface, 1" if necessary).
- c. Set slips on 9 5/8" CSG. Cut 9 5/8" CSG and NU & test BOP.
- d. Drill 8 3/4" production hole to 5500', using cut brine to an approximate depth of 3400' and a starch mud system to TD.
- e. Run open-hole logs
- f. Plug lower portion of the hole, per OCD/BLM specifications.
- g. Set CMT kick-off plug.
- h. Dress CMT to kick off point at approximately 4100', oriented at 0 degree (grid) azimuth.
- i. Build angle at 14 degrees per 100' to 90 degrees and hold.
- j. Drill 7 7/8" horizontal drain hole to a terminus of 660' FNL.
- k. Run 5 1/2" 17# N-80 CSG to TD. Cement with 500 sx Class C
- l. Rig Down Rotary Tools

### **5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

The BOP stack will consist of a 3,000 psi working pressure, dual ram type preventer and annular.

A BOP sketch is attached.

### **6. TYPES AND CHARACTERS OF THE PROPOSED MUD SYSTEM**

- a. Spud and drill to 1,300' with 8.3 ppg Fresh Water system and viscous sweeps for hole cleaning.
- c. The production section from 1,300' to 4,300' will utilize a cut brine mud system.
- d. The remaining production section from 4,300' to TD will be a starch mud system with mud weight sufficient to control formation pressures.

**SQUEEZE BOX FEDERAL #1**

**Page 3**

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

None required.

8. LOGGING, TESTING, AND CORING PROGRAM

Mud logs as well as DLL/CNL/LDT/CAL/GR logging is planned. Drill stem tests, cores and sidewall cores are possible.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES & POTENTIAL HAZARDS

None anticipated.

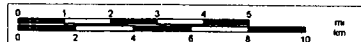
BHP expected to be 1,100 psi.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence around second quarter of 2006 with drilling and completion operation lasting about 35 days.



© 2002 DeLorme. 3-D TopoQuads ®. Data copyright of content owner.  
www.delorme.com

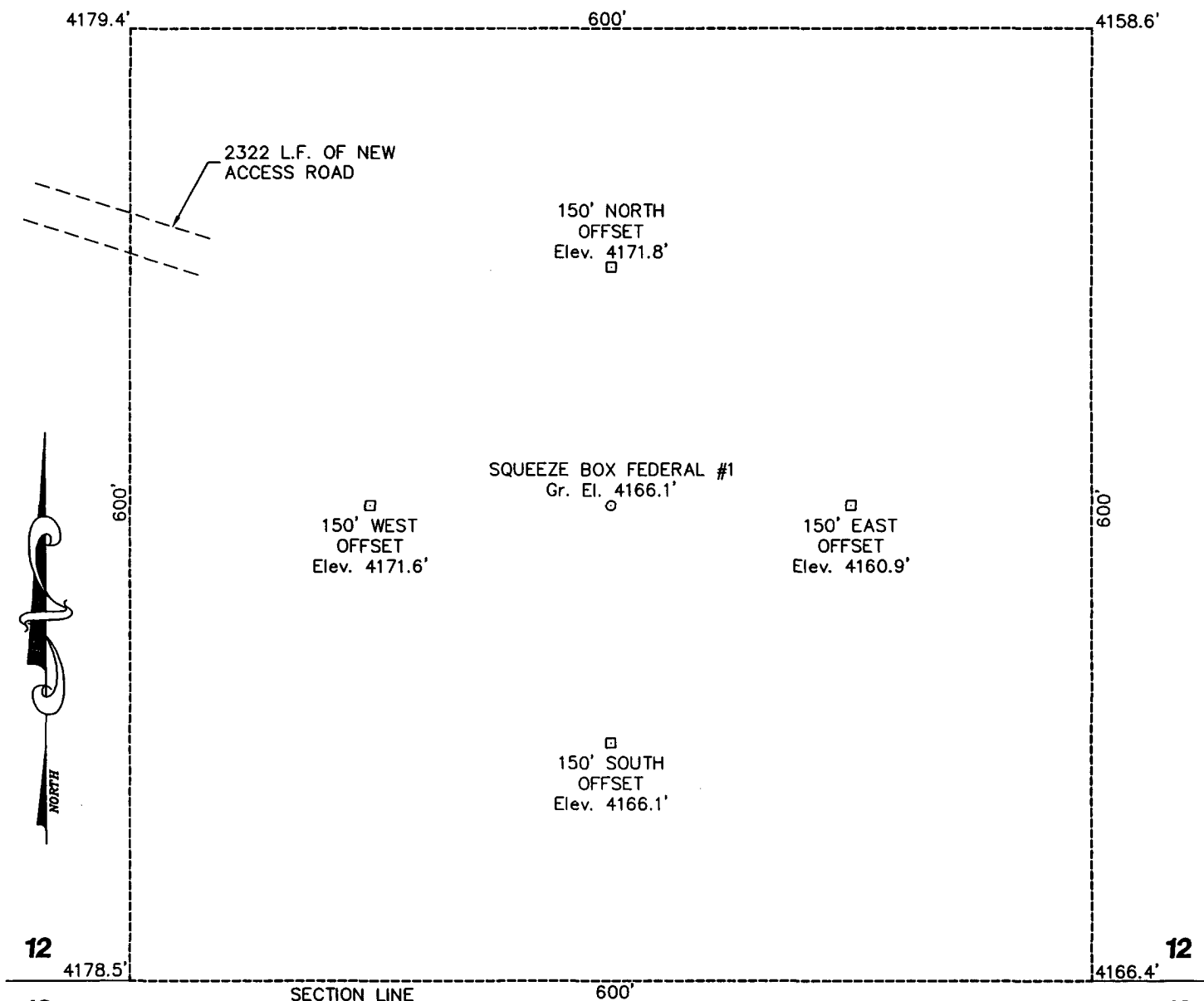


## SECTION 12, TOWNSHIP 19 SOUTH, RANGE 21 EAST, N.M.P.M.

EDDY COUNTY

NEW MEXICO

L-2006-0064-A



## DRIVING DIRECTIONS

FROM THE INTERSECTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 449 IN HOPE, NM GO SOUTH ON SAID STATE HIGHWAY 449 2.2 MILES TO THE END OF SAID STATE HIGHWAY 449 AND THE BEGINNING OF COUNTY ROAD 12, THEN CONTINUE SOUTH ANOTHER 4.8 MILES (7.0 TOTAL) TO A FORK IN THE ROAD, THE INTERSECTION OF SAID COUNTY ROAD 12 AND COUNTY ROAD 20 (BRONC ROAD), THEN GO SOUTHWEST ALONG SAID COUNTY ROAD 20 (BRONC ROAD) 3.5 MILES TO A POINT WHERE A PROPOSED ACCESS ROAD BEGINS ON EAST (LEFT) SIDE OF SAID COUNTY ROAD 20, THEN GO SOUTHEAST ALONG SAID ACCESS ROAD 1.1 MILE TO A POINT WHERE ANOTHER PROPOSED ACCESS ROAD BEGINS ON THE NORTH (LEFT) SIDE OF SAID ACCESS ROAD, THEN GO NORTH 0.1 MILE TO THE MUSIC BOX FEDERAL #1 PROPOSED WELL PAD, THEN FROM THE NORTHEAST CORNER OF SAID WELL PAD GO NORTHEAST THEN SOUTHEAST ALONG ANOTHER PROPOSED ACCESS ROAD 0.4 MILE TO THE PROPOSED LOCATION.



## PARALLEL PETROLEUM CORPORATION

## SQUEEZE BOX FEDERAL #1

Located 300' FSL & 710' FEL, Section 12  
Township 19 South, Range 21 East, N.M.P.M.  
Eddy County, New Mexico

**WEST**  
**COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX

Drawn By: LVA

Date: February 10, 2006

Scale: 1"=100'

Field Book: 326 / 25-27, 30-31

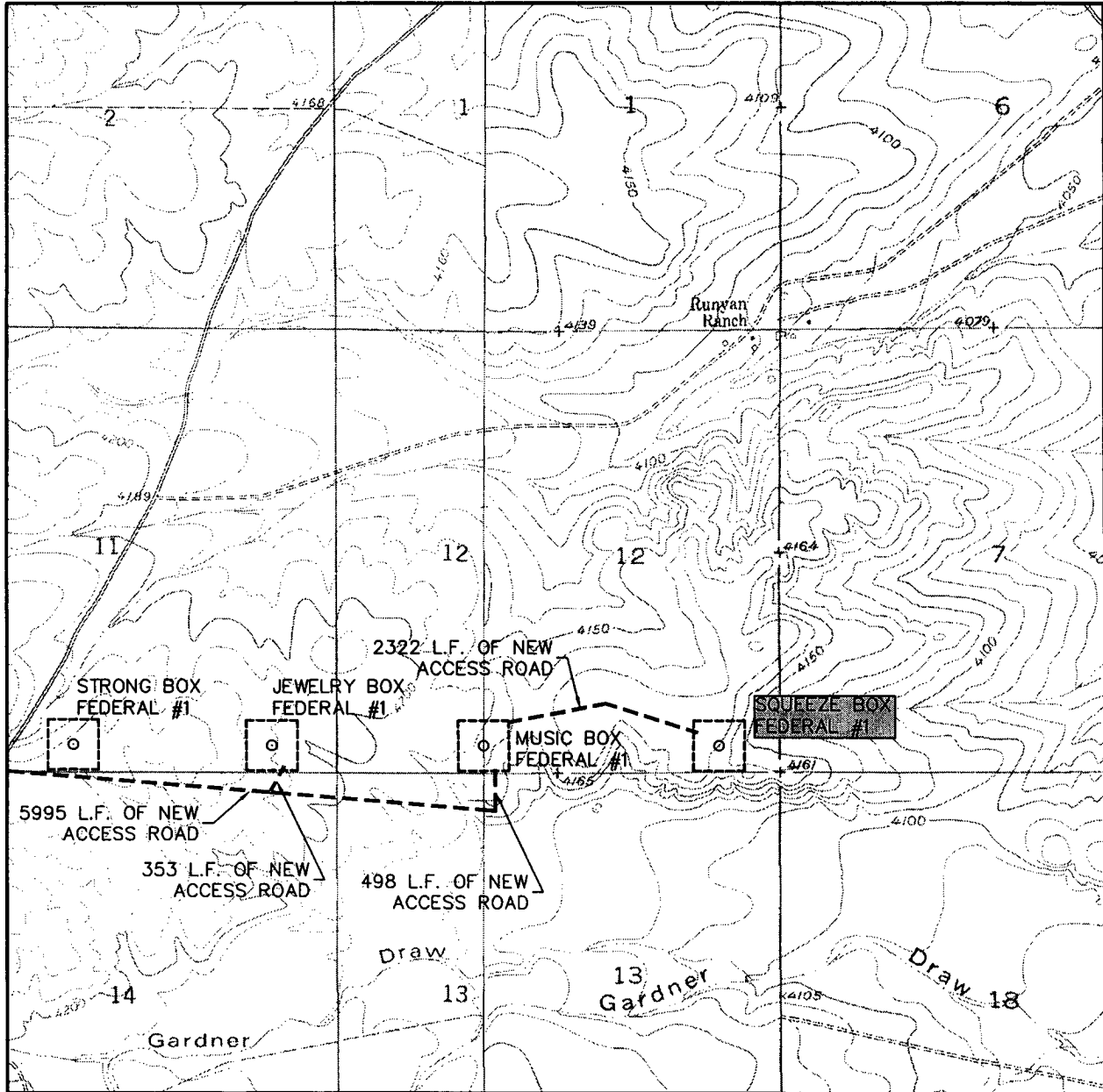
Revision Date:

Quadrangle: Antelope Sink

W.O. No: 2006-0064

Dwg. No.: L-2006-0064-A

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
ANTELOPE SINK - 10'

SEC. 12 TWP. 19-S RGE. 21-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 300' FSL & 710' FEL

ELEVATION 4166'

OPERATOR PARALLEL PETROLEUM CORPORATION

LEASE SQUEEZE BOX FEDERAL

U.S.G.S. TOPOGRAPHIC MAP  
ANTELOPE SINK, N.M.



Exhibit F

**WEST  
COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX

# MINIMUM BOP SCHEMATIC

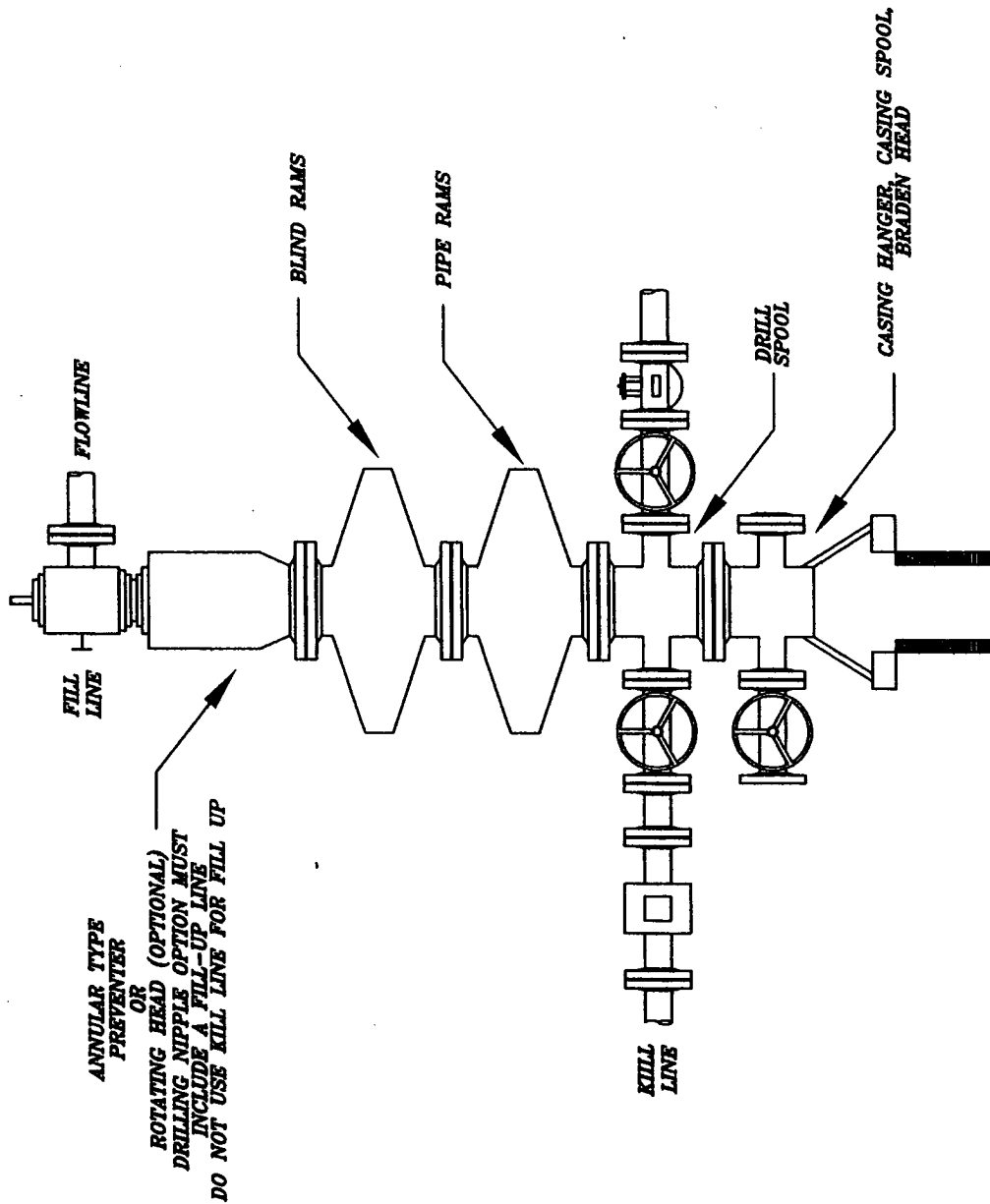


EXHIBIT I

PARALLEL PETROLEUM  
BOP SCHEMATIC

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE: 7/26/05  
OWN. BY: JJ  
FILE: C:\PAPERS\BOP SCHEMATIC

NOT TO SCALE



# CHOKES MANIFOLD 5M SERVICE

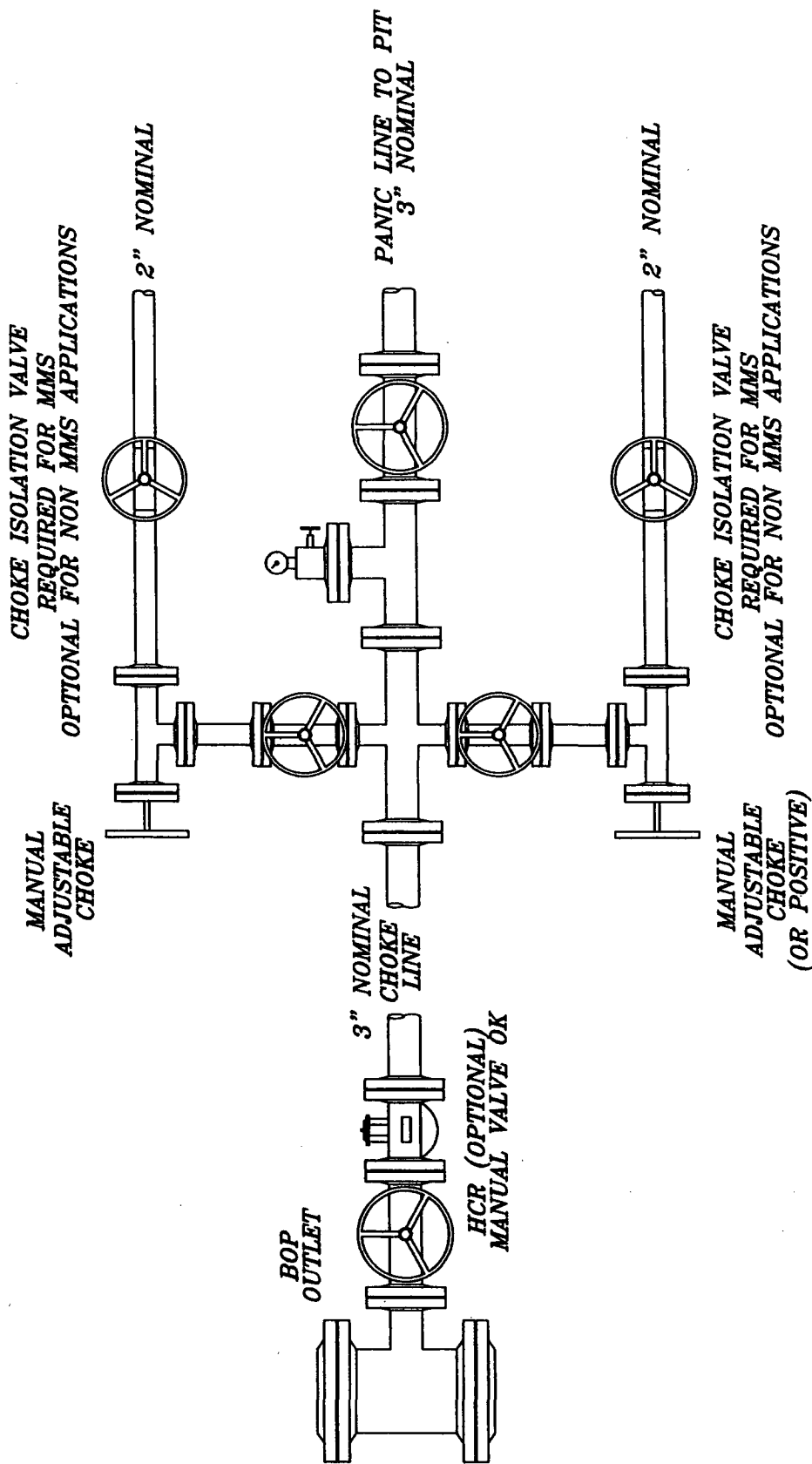


EXHIBIT J

DATE: 8/17/05	FILE: C:\MANIFOLD\CHOKES MANIFOLD	PARALLEL PETROLEUM CHOKES MANIFOLD
OWN: ST: CU		HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

NOT TO SCALE

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Parallel Petroleum Corporation Well No. 1 - Squeeze Box Federal

Location: SH: 300' FSL & 710' FEL BH: 660' FNL & 710' FEL sec. 12, T. 19 S., R. 21 E.

Lease: NM-98791

.....

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at (505) 234-5972 in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 9-5/8 inch 5-1/2 inch

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Include the API No. assigned to well by NMOCN on the subsequent report of setting the first casing string.

### II. CASING:

1. 9-5/8 inch surface casing should be set **at approximately 1300 feet**, below usable water and circulate cement to the surface. If cement does not circulate to the surface, the Carlsbad Field Office shall be notified at (505) 234-5972 and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. Minimum required fill of cement behind the 5-1/2 inch production casing is **sufficient to tie back 500 feet above the uppermost perforation in the pay zone.**

### III. PRESSURE CONTROL:

1. Before drilling below the 9-5/8 inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be **2000** psi.

3. The BOPE shall be installed before drilling below the 9-5/8 inch surface casing and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

A. The results of the test will be reported to the BLM Carlsbad Field Office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.

B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.

C. Testing must be done in a safe workman like manner. Hard line connections shall be required. mud returns from the well.

# **PARALLEL** SURVEY CALCULATION PROGRAM PETROLEUM CORPORATION

OPERATOR:	Parallel Petroleum Corporation		Supervisors:	
WELL:	Squeeze Box Federal #1			
LOCATION:	Sec. 12 T-19-S R-21-E			
API NUMBER:				
COMMENTS:				

	MAG DEC. (-/+)	
	GRID CORR. (-/+)	
	TOTAL CORR. (-/+)	0.0

DATE: 02/09/96	TIME: 6:06 PM	TRUE TO GRID	▼
----------------	---------------	--------------	---

MINIMUM CURVATURE CALCULATIONS(SPE-3362)								PROPOSED DIRECTION	0.0	TARGET TRACKING TO CENTER	
SVY NUM	MD	INC	GRID AZM	TVD	VERT SECT	N-S	E-W	DLS/ 100		ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)
TIE	0	0.0	0.0	0.0	0.0	0.0	0.0				
1	4040	0.0	0.0	4040.0	0.0	0.0	0.0	0.0		382.0	0.0
2	4050	1.5	0.0	4050.0	0.1	0.1	0.0	15.0		372.0	0.0
3	4060	3.0	0.0	4060.0	0.5	0.5	0.0	15.0		362.0	0.0
4	4638	90.4	0.0	4419.1	381.6	381.6	0.0	15.1		0.3	0.0
5	8576	90.4	0.0	4391.6	4319.5	4319.5	0.0	0.0		0.3	0.0

KOP @ 4040' MD  
 BUR = 15 DEG per 100 FT  
 End Curve @ 4638' MD, 4419.1' TVD  
 BHL @ 8576' MD, 4391.6' TVD, 4319.5' VS

SQUEEZE BOX FEDERAL #1  
SECTION 12 T-19-S, R-21-E  
EDDY COUNTY, NEW MEXICO

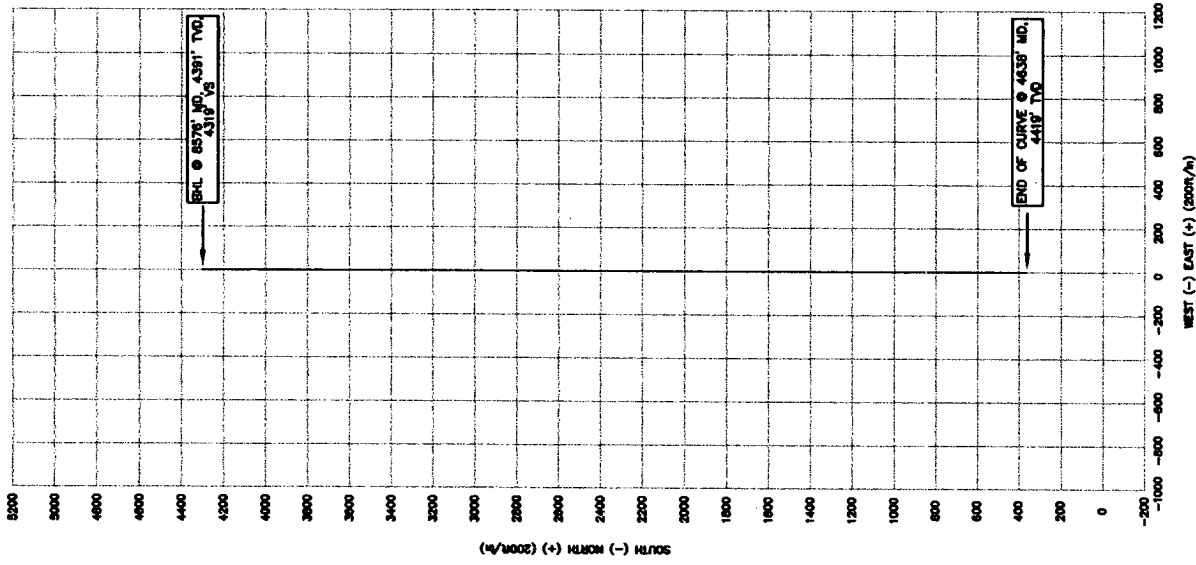
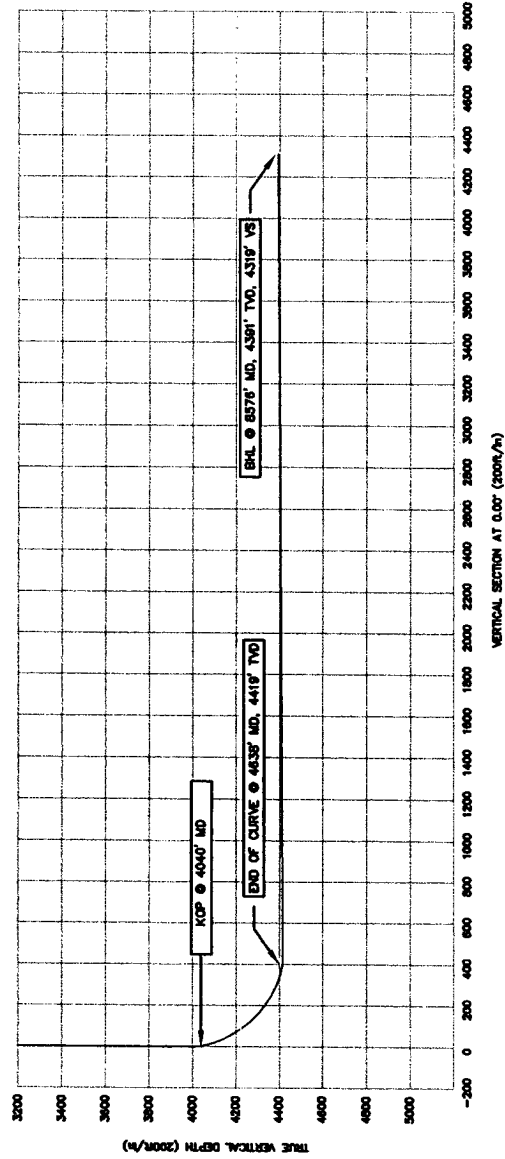


EXHIBIT L

PARALLEL PETROLEUM

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE: 2/10/06  
DWG. BY: JJ  
FILE: C:\MIDLAND\ASSET\COUNTY DETAILS

NOT TO SCALE