N.M. Oil Cons. DiV-Dist. 2

1301 W. Grand Avenue

JUN 20 2007

Form 3160-3

Artesia, NM 88210

OCD-ARTESIA

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

| (April 2004) | 779 S | | Expires March 31, | | |
|--|--|----------------|--|---------------------|------|
| UNITED STAT DEPARTMENT OF TH | E INTERIOR | | 5. Lease Serial No. NM NM 112249 | | |
| APPLICATION FOR PERMIT T | | | 6. If Indian, Allotee or Trib | e Name | |
| la. Type of work. PDRILL REE | NTER | | 7 If Unit or CA Agreement, | | |
| lb. Type of Well Oil Well Gas Well Other | Single Zone Mult | ıple Zone | 8. Lease Name and Well No War Emblem 1525-9 | • | 3651 |
| 2 Name of Operator Parallel Petroleum Corporation | 230387 | | 9, API Well No. | 63950 | י |
| 3a. Address 1004 North Big Spring, Suite 400 Midland, Texas | 3b. Phone No. (include area code) 432/684-3727 | ildcai | 10. Field and Pool, or Explorat Wolfcamp | | , |
| 4. Location of Well (Report location clearly and in accordance wit | | / | 11. Sec., T. R. M. or Blk and S | Survey or Area | |
| At surface SHL 1880' FSL AND 190' FEL At proposed prod. zone BHL 1880' FSL AND 660' FEL | • | | 9-T15S-R25E | | |
| 14. Distance in miles and direction from nearest town or post office* 5 miles North of Artesia, New Mexico | | | 12. County or Parish Chaves | 13. State | |
| 15. Distance from proposed* location to nearest | 16. No. of acres in lease | | g Unit dedicated to this well | | |
| (Also to nearest drig. unit line, if any) | 2435.41 | | otal w/ 160 acres being feder | ral minerals | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 2500' | 19. Proposed Depth 5500' | 1 | BIA Bond No. on file 000265 | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3524' | 22. Approximate date work will s | tart* | 23. Estimated duration 30 days | | |
| | 24. Attachments | ROSWELL | CONTROLLED WATER BA | SIN | |
| The following, completed in accordance with the requirements of O | nshore Oil and Gas Order No 1, shall be | attached to th | is form: | | |
| Well plat certified by a registered surveyor. A Drilling Plan | 4. Bond to cover tem 20 above | | ns unless covered by an existin | g bond on file (see | |
| 3. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Office) | tem Lands, the 5. Operator certiful. 6. Such other sit authorized of | e specific inf | ormation and/or plans as may b | e required by the | |
| 25. Signature Jame Vilan | Name (Printed/Typed) Deane Durham | | Date 3- | -19-07 | |
| Title Engineer, Parallel Petroleum Corporation | | | | <u> </u> | |
| Approf Sylsign OF HN S. SIMIT | | NS. | SIMITZDate | UN 18 | 2007 |
| Title Acting Assistant Field Manag | Office ROSWELL F | TELD OF | FICE APPROVE | FOR 2 YEAR | ?S |

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.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 CASING MUST BE CIRCULATED

WITNESS

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPLII ATIONS ATTACHED

If 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 .
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | W | ELL LOCA | ATION A | AND ACREA | AGE DEDICATIO | N PLAT | | | |
|-----------------|----------------|------------------|------------------------------|----------|--------------------------------|---|----------------------------|---|--|--|
| API | Number | | Pool Code | | | Pool Name | | | | |
| | | | 17 | 7 489 | Property Na | Wildcay; | Wolter | | | |
| Property (| Code | | | WAR FM | 18LEM 152 | Well Number | | | | |
| OGRID No | 0. | | Operator Name | | | | | Elevation | | |
| | | | PAF | RALLEL | • | CORPORATION | | 352 | | |
| | | | | _ | Surface Lo | cation | ····· | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| 1 | 8 | 15 S | 25 E | | 1880 | SOUTH | 190 | EAST | CHAVES | |
| | | | Bottom | Hole Loc | ation If Dif | ferent From Surf | ace | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| 1 | 9 | 15 S | 25 E | | 1880 | SOUTH | 660 | EAST | CHAVES | |
| Dedicated Acres | Joint or | Infill Co | onsolidation (| ode Or | der No. | | | • | | |
| 320 | | | | | | | | | | |
| NO ALLOWA | BLE WILL | | | | | TIL ALL INTEREST | | CONSOLIDATE | ED OR A | |
| | | NO | N-STANDA | RD UNIT | HAS BEEN A | APPROVED BY THE | DIVISION | | | |
| NOTE: | | | | | • | | OPERAT | OR CERTIFICA | ATION | |
| 1) Plane Coord | linates show | n hereon ar | e Transverse | | | | | information contained herein is b and belief, and that this organiz | | |
| Coordinate S | System", Nev | / Mexico Eas | "New Mexico t Zone, North | | | | working interest or unlead | sed mineral interestin the land in is a right to drill this well at this | cluding the proposed | |
| mean horizo | | | wn hereon are | | | | a contract with an own | er of such a mineral or worki | ng interest, or to a | |
| | | | | | | | the durision. | nt or a compulsory pooling order | herelofore entered by | |
| | | | | | | | | ()/ | | |
| | | | | | | | _ | | 10 07 | |
| | Signature Date | | | | | | | -19-07 | | |
| | | | | | | | Des | 10 Dush | | |
| | | | | | | | Printed Name | | | |
| | | | | | | | 1 | | ļ | |
| 1 | | | | Project | ⊸ . | Producin | 9 | | | |
| | | | | Ared | ' \ | Area | SURVEY | OR CERTIFICA | ATION | |
| | | } | | | + 9 | /+; | 11 " | y that the well loca | | |
| | | | 190'- | (PP) | | (BHL | | vas plotted from fiel made by me or | | |
| | | | (SL) | 660' | S 89 38 19" E | <u>3899.9</u> ' 660 | itu i | nd that the same i he best of my beli | | |
| | | <u>.</u> | ļ | | _ | | - | , | | |
| 1 | | | 880 | 880 | | 880, | | 00 000 | , | |
| 4 | | | Ī | Ī | | | Data of G | uary 29, 2007 | ****** | |
| : | | | | | | | Date of Surv | Seal of Profession | ONALO LYA | |
| | | | | | | | Signature & | Seal of Profession | at surveyor | |
| | | Surfac | e Location | Peneti | ration Point | Bottom Hole Locatio | | | \\(\cdot \) | |
| | | Plane (| Coordinate 62,206.6 | Plane | Coordinate 463,056.4 | Plane Coordinate X = 466,955.3 | -\ (In) | (1218 | 5) | |
| | | Y = 7 | 37,594.7 | Y = | 737,589.3 | Y = 737,564.7 | 1 YIL | | \leftarrow | |
| | | Lat. 33° | Coordinate 01'39.54" N | Lat. 33 | ic Coordinate 3°01'39.50" N | Geodetic Coordinat Lat. 33°01'39.30" | N WO N | Num. 22007-00 | | |
| | | Long. 104 (NA | *27'23.92" N D '27) | Long. 10 | 04*27'13.94" W NAD '27) | Long. 104*26'28.14* (NAD '27) | | | | |
| | | | | | | | Certificate N | IO. MÁCON MEDONA | יייייייייייייייייייייייייייייייייייייי | |

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Parallel Petroleum Corporation 1004 N. Big Spring St. Suite 400 Midland, Texas 79701

The undersigned accepts all applicable terms, conditions, stipulations and restrictions covering operations conducted on the leased land or portion thereof, as described below:

Lease No: NM NM 112249

Legal Description of Land: War Emblem 1525-9 Fed Com #1

SHL: 1880' FSL and 190' FEL, Sec. 8, T15S, R25E BHL: 1880' FSL and 660' FEL, Sec. 9, T15S, R25E

Chaves County, New Mexico

Formation(s) (if applicable: Wolfcamp

Bond Coverage: \$25,000 statewide bond of Parallel Petroleum Corporation

BLM Bond File No: **NMB000265**

Date

3-19-07

Name: Deane Durham

Title: Engineer

ATTACHMENT TO FORM 3160-3 WAR EMBLEM 1525-9 FED COM #1 Surface Hole Location 1880 FSL AND 190 FEL, SEC 8, 15S, 25E Bottom Hole Location 1880 FSL AND 660 FEL, SEC 9, 15S, 25E CHAVES 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. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS</u>

Glorieta 2565'(+959') Tubb 3575'(-51') Abo Shale 4325' (-801') Wolfcamp 5250' (-1726') Wolfcamp Shale 5425'(-1901')

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

Fresh water

65'

Oil and Gas

Wolfcamp 5250' (-1726')

No H₂S gas should be encountered

4. CASING AND CEMENTING PROGRAM

| Casing Size | From To | Weight | <u>Grade</u> | <u>Joint</u> |
|---------------|------------------|--------|--------------|--------------|
| 16" conductor | 0'-120' | | | |
| 8 5/8" | 0' – 1400' | 24# | J-55 | STC |
| 5 1/2" | 0' – TOTAL DEPTH | 17# | N-80 | LTC |

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

WAR EMBLEM 1525-9 FED COM #1 Page 2

8-5/8" slurry: Lead: 225 sacks (50:50) Poz (Fly Ash): Class C + 5% bwow Sodium Chloride + 10% bwoc Bentonite + 151.7% fresh water. Tail: 235 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 be required. Top out to surface with 1" pipe in the annulus.

Note: 5-1/2" Acid-soluble cement per completion procedure.

Drilling Procedure

- a. Set 16" conductor pipe as deep as possible up to 120' with a rathole unit.
- b. Drill 11" surface hole to an approximate depth of 1400', using fresh water and viscous sweeps for hole cleaning. Set 8 5/8", 24# 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 8 5/8" CSG. Cut 8 5/8" CSG and NU & test BOP.
- d. Drill 7 7/8" production hole to approximately 5,500'.
- e. Run open-hole logs and make Wolfcamp target decision.
- f. Plug back to kick-off point of approximately 4,400'.
- g. Kick off and build angle at 6.7 degrees per 100' to 90 degrees and hold.
- h. Drill 7 7/8" horizontal drain hole to a terminus of 660' FEL approximately 9,690'.
- i. Run 5 ½" 17# N-80 CSG to TD. Cement with 750 sx Class C Acid Soluble
- i. Circulate to surface or run temperature survey to verify tie in to surface casing.
- k. Rig Down Rotary Tools

Page 3

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 1,400' with 8.3 ppg Fresh Water system and viscous sweeps for hole cleaning.
- c. The production section from 1,500' to 4,300' will utilize a cut brine mud system from 8.8 to 9.2 ppg.
- d. The remaining production section from 4,300' to TD will be a polymer mud system with mud weight (8.8 9.6) sufficient to control formation pressure anticipated to be approximately 1,900 psi.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

None required.

8. LOGGING, TESTING, AND CORING PROGRAM

Mud logs and porosity/GR open-hole logs are planned, however, additional open-hole logs, drill stem tests, cores and sidewall cores are possible.

9. <u>ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES & POTENTIAL HAZARDS</u>

None anticipated.

BHP expected to be 1,900 psi.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence around third quarter of 2007 with drilling and completion operation lasting about 35 days.

SURFACE AND OPERATIONS PLAN FOR DRILLING, COMPLETION, AND PRODUCING

PARALLEL PETROLEUM CORPORATION WAR EMBLEM 1525-9 FED. COM. #1

(Will share a location with the Funny Cide 1525-8 Fed Com #1) SHL: 1880' FSL AND 190' FEL, SEC 8, T15S, R25E CHAVES COUNTY, NEW MEXICO

LOCATED:

8 miles north of Artesia, New Mexico

OIL & GAS LEASE:

NM NM 112249

RECORD LESSEE:

J Bar Cane Inc. P.O. Box 16 Stanley, NM 87056

BOND COVERAGE:

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

ACRES IN LEASE:

2435.41

SURFACE OWNER:

George Denton 405 S. 15th Street Artesia, NM 88210, 505-746-2517

POOL:

Wolfcamp (Gas)

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
- 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

Access to this location will be from State Highway 285. A cattle guard has been placed in the fence and an access road constructed to the Parallel Petroleum Company, Forgo State #1 and the Swale 1525-16 State #1. From the Forgo location, go west 2500' on the exiting access road and turn right on new access road and go through a new cattle guard. Continue north approximately ¼ mile to location. The road will be surfaced with 4 to 6 inches of caliche and is 16' wide.

B. <u>Surface Material</u>

Caliche from a commercial source.

C. Maximum Grade

Less than five percent.

Page 3

D. Turnouts

No turnouts will be constructed.

E. Drainage Design

No Change.

F. Culverts

None necessary.

G. Gates and Cattle Guards

A cattle guard has been constructed at the entrance off State Highway 285, and a new cattle guard will be constructed in the fence between sections 9 and 16.

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. If no well is drilled water will be purchased from a commercial source.

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.

Page 4

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

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 not needed for operations will be removed. The well site will be cleaned of all trash and junk to leave the site in as aesthetically pleasing condition as possible.
- B. After abandonment, all equipment, trash, and junk will be removed from the site.

10. OTHER INFORMATION

A. Topography

The land surface at the well site is rolling native grass with a regional slope being to the south and east.

B. Soil

The limited topsoil at the well site is rocky, sandy soil.

C. Flora and Fauna

The location is in an area sparsely covered with mesquite and range grasses.

Page 5

D. Ponds and Streams

Walnut Creek, an intermittent stream runs west to east and is located approximately 3 miles south of the site. Drainage from the site will be to the south and east, to a drainage that eventually flows to Walnut Creek. A playa is located 1.5 miles east of the site and no drainage from this site will flow to this lake.

E. Residences and Other Structures

Homes are located 3.5 miles west and east of the site.

F. Archaeological, Historical, and Cultural Sites

See archaeological report submitted by:

Southern New Mexico Archaeological Services, Inc.,

P.O. Box 1

Bent, New Mexico 88314 Phone 505-671-4797

G. Land Use

Undeveloped pasture

H. Surface Ownership:

Fee, see page one

11. OPERATOR'S REPRESENTATIVE

Deane Durham, Engineer Parallel Petroleum Corporation 1004 North Big Spring Street, Suite 400 Midland, Texas 79701 Office: (432) 684-3727

12. CERTIFICATION

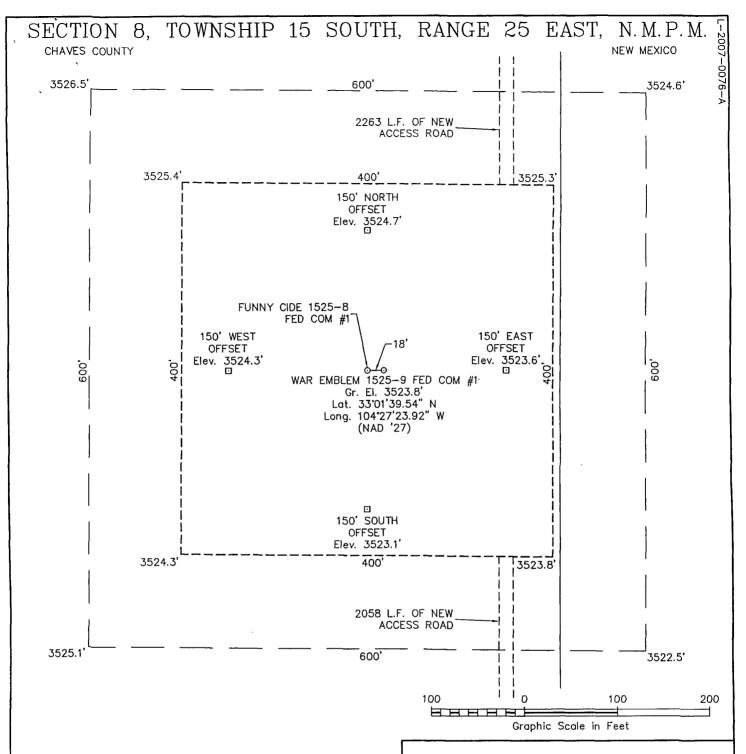
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

3-19-07

Name: Deane Durham

Title: Engineer

Date



DRIVING DIRECTIONS

FROM THE INTERSECTION OF U.S. HIGHWAY 380 and 285 IN ROSWELL, NM GO SOUTH ON SAID U.S. HIGHWAY 285 ABOUT 27 MILES TO A POINT WHERE AN ACCESS ROAD BEGINS ON THE WEST (RIGHT SIDE) OF SAID HIGHWAY 285, THEN GO WEST ON SAID ACCESS ROAD 0.8 MILES TO A POINT, WHERE ANOTHER ACCESS ROAD TURNS NORTHWEST, THEN GO NORTHWEST AND NORTH ALONG SAID ACCESS ROAD 0.4 MILE TO THE PROPOSED LOCATION.



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

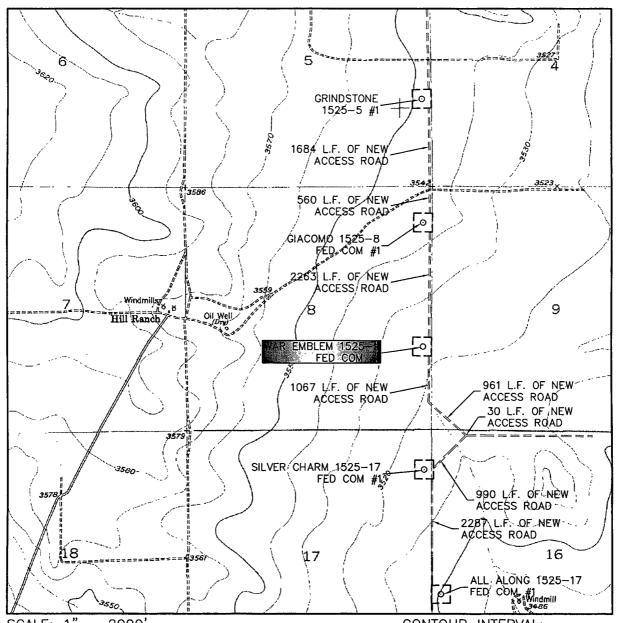
PARALLEL PETROLEUM CORPORATION

WAR EMBLEM 1525-9 FED COM #1

Located 1880' FSL & 190' FEL, Section 8 Township 15 South, Range 25 East, N.M.P.M. Chaves County, New Mexico

| Drawn By: LVA | Date: March 27, 2007 |
|--------------------|------------------------------|
| Scale: 1"=100' | Field Book: 365 / 5-7, 29-30 |
| Revision Date: | Quadrangle: Hagerman SW |
| W.O. No: 2007-0076 | Dwg. No.: L-2007-0076-A |

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

HAGERMAN SW

CONTOUR INTERVAL: HAGERMAN SW - 10'

| SEC. <u>8</u> TV | VP. <u>15-S</u> | RGE. | _25 | <u>-Е</u> | | | |
|---|-----------------|------|-----|-----------|--|--|--|
| SURVEY | N.M. | ⊃.M. | | | | | |
| COUNTY | CHA | √ES | | | | | |
| DESCRIPTION | | | 90, | FEL | | | |
| ELEVATION | 352 | 24' | • | | | | |
| OPERATOR PARALLEL PETROLEUM CORPORATION | | | | | | | |
| LEASE WAR I | | | | | | | |
| U.S.G.S. TOP | | | | | | | |



EXHIBIT F

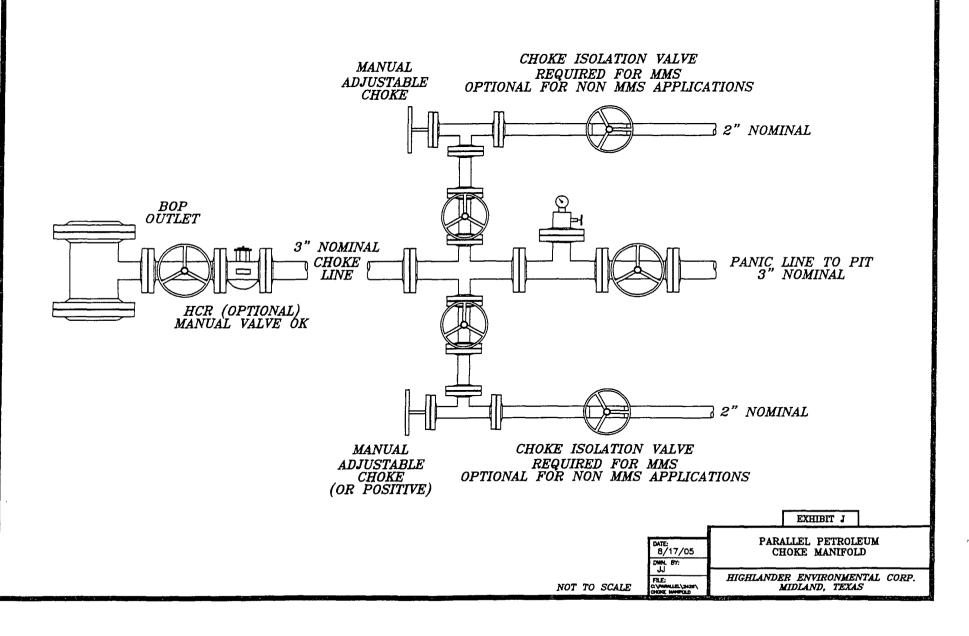
COMPANY

110 W. LOUISIANA, STE. 110

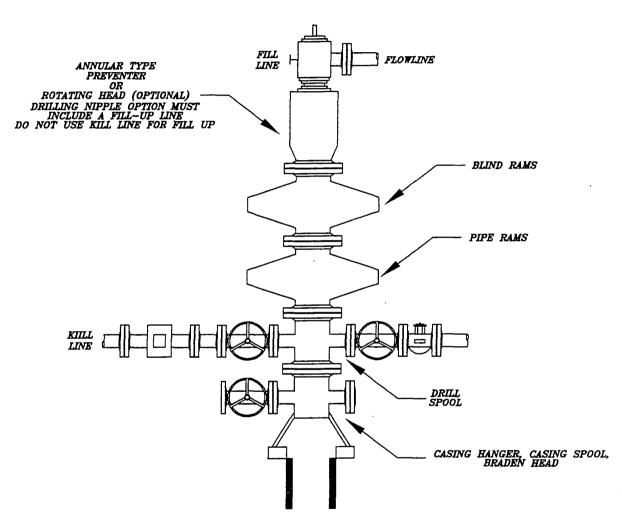
MIDLAND TEXAS, 79701

687-0865 - (432) 687-0868 FAX

CHOKE MANIFOLD 5M SERVICE



MINIMUM BOP SCHEMATIC



DATE 7/26/05 PARALLEL PETROLEUM BOP SCHEMATIC

DINI, BY:
JJ

FILE
FUE:
COMMUNICATION

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

NOT TO SCALE

| 11 | P | AR | AL | LEI | | IRVEY C | ALCUL | ATION | I PROGR | RAM |
|--------|---------|---------|------------|-------------|-----------|---------|-------------|-------|------------|----------|
| | PET | ROLE | UM CORF | PORATIO | N | | | | | |
| OPER | ATOR: | | Parallel P | etroleum (| Corporati | on | Superviso | rs: | | |
| WELL | | | War Embl | em 1525-9 | Fed Con | n #1 | | | | |
| LOCA | TION: | • • • | S/2 Sec. 9 | T-15-S R- | 25-E | | | | | |
| API N | UMBEF | ₹; :: | | | | · | | | | |
| | | . · | COMM | ENTS: | | | | | | |
| | | | | | | | | | EC.(-/+) | |
| | | | | | | | <u> </u> | | ORR.(-/+) | |
| | | | | | | |]: | TOTAL | CORR.(-/+) | 0.0 |
| | | DATE | 03/19/07 | | TIME: | 4:14 PM | TRUE TO GRI | D | | ▼ |
| MINIME | JM CURV | ATURE C | CALCULATIO | NS(SPE-3362 | 2) P | ROPOSED | DIRECTION | 90.0 | TARGET T | RACKING |
| | | ٠. | | | | • | . : ' | | TO CE | NTER |
| SVY | · | • | GRID | • | VERT | | | DLS/ | ABOVE(+) | RIGHT(+) |
| NUM | MD | INC | AZM | TVD | SECT | N-S | E-W | . 100 | BELOW(-) | LEFT(-) |
| TIE | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 1 | 4400 | 0.0 | 0.0 | 4400.0 | 0.0 | 0.0 | 0.0 | 0.0 | 850.0 | 0.0 |
| 2 | 4410 | 0.7 | 90.0 | 4410,0 | 0.1 | 0.0 | 0.1 | 6.7 | 840.0 | 0.0 |
| 3 | 4420 | 1.3 | 90.0 | 4420.0 | 0.2 | 0.0 | 0.2 | 6.7 | 830.0 | 0.0 |
| 4 | 5736 | 90.0 | 90.0 | 5250.6 | 850.5 | 0.0 | 850.5 | 6.7 | -0.6 | 0.0 |
| 5 | 9690 | 90.0 | 90.0 | 5250.6 | 4804.5 | 0.0 | 4804.5 | 0.0 | -0.6 | 0.0 |

KOP @ 4400' MD BUR = 6.7 DEG per 100 FT End Curve @ 5736' MD, 5250' TVD BHL @ 9690' MD, 5250' TVD, 4804.5' VS

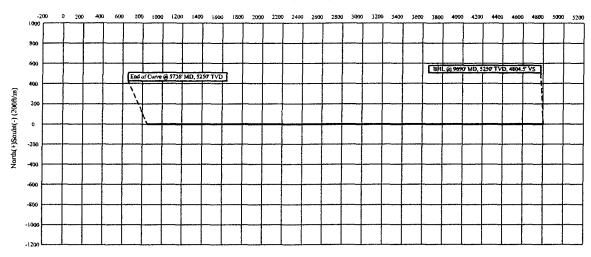
Parallel Petroleum Corp.

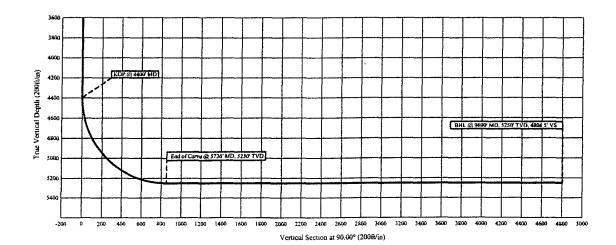
COMPANY DETAILS

Parallel Petroleum Corp. 1004 N. Big Spring, Ste 400 Midland, Texas 79701

War Emblem 1525-9 #1 S/2 Sec. 9, T-15-S, R-25-E Chaves County, New Mexico

East(+)/West(-) (200fl/in)







1004 North Big Spring, Suite 400 • Midland, TX 79701 • Ph: 432-684-3727 • Fax: 432-685-6580

August 24, 2006

New Mexico Oil conservation Division 1301 W. Grand Ave. Artesia, New Mexico 88210

Re: Hydrogen Sulfide Potential

Hagerman Area Wolfcamp Program

Chavez County, New Mexico

Gentlemen:

Parallel Petroleum Corporation operates the Seabiscuit #1 and the Seabiscuit #2 wells located in Section 33, T-14-S, R-26-E and the Dash for Cash #1 in Section 4, T-15-S, R-26-E. These wells were tested in the Wolfcamp formation and did not have any indications of hydrogen sulfide from this formation. Please see the gas analysis attached to this letter. We believe the potential for H2S on locations in this area are negligible.

Should you need any additional information regarding this issue, please contact me at the address or phone number listed above.

Sincerely,

Deane Durham Drilling Engineer



Fri Jul 28 15:04:04 2006

Approved by: DON KORKAN

HSS IN GYS SLEEVH: NONE DELECTED

BEKYBK2:

3.3555 100,000 LOLYF Pentanet GPM: 0.2953 6617.0 Butanet GPM: 1,5531 Propanet GPM: 3335.5 grygue+ GPK: 1121.0 1182.0 490 Hexanes Plus Methane+ GPM: 17.0215 26 Lb Product: 0.4422 Not-Pentane 8180.0 0.2341 KC2 Avg Curt/Gal: 56.8397 1982.0 Iso-Pentane 1980.0 IC2 Avg Nol Weight: 20.6848 Not-Butane 9672.0 0788.0 HCf Eles. 1.2913 0.1450 1511.0 Iso-Butane IC 1788.0 :101061 Z 2888.0 3.0262 Propane C3 grpsne 1.8023 6.7430 73 1723.08 Яесрапе IJ 88.7001 :19W UTB 0000.0 Hydrogen Sulfide H2S 810 DIY: 1086,59 1998.I Microgen ZN Standard Pressure: 14.6960 1159.5 Carbon Dioxide CO2 0.000 Field Specific Gravity: Real Calc. Specific Gravity: 0.7159 Real BTU Wet: 1073.26 Real BTU Dry: 1092.27

Pressure Base: 14.7300 GYZ COMBONENI YNYFAZIZ

Pressure on Cylinder: 733 Line Pressure: 746.2 PSIA PSIC

Permation: Volume/day:

C bK

Ioh

DEG & Atmos Temp; 91 Sampling Temp: 60 DEC L Purpose: SPOT Sampled By: DOM NORMAN

MM : 81618 County: CHAVES Sta. Kumber:

Producer: PARALLEL PETROLEUM CORP. Teld: Mell Mame: DASH FOR CASH #1

GPANGL, L62 Analysis for: PARALLEL PRTROLEUM CORPORATION

Date Sampled 07/27/2006 "Quality and Service is our Pirst Concern" 01/58/5006 Date Run Office \$202-146-3481 260728-01 Kun No. Tollfrae 1888-121-9453 Artesia, New Mexico 88211-1836

P.O. BOX 1836 DD2 06/25/00 Wildcat Reasurement Service

Wildcat Measurement Service P.O. Box 1836

Artesia, New Mexico 88211-1836 TollFree #888-421-9453 Office #505-746-3481

"Quality and Service is our First Concern"

PDS 06/25/00

Run Ro. Date Run

260728-02 07/28/2006

Date Sampled 07/27/2006

GPANGL.L62

Analysis for: PARALLEL PETROLEUM CORPORATION

Well Name: SEABISCUIT #2

Field:

Purpose: SPOT

DEG F Sampling Temp: 60

Volume/day:

Pressure on Cylinder: 576

Sta. Number:

PSIG

Producer: PARALLEL PETROLEUM CORP.

County: CHAVES

State: XX

Sampled By: DOW NORMAN DEG F

Atmos Temp: 90

Pormation:

Line Pressure: 589.2 PSIA

GAS COMPONENT ANALYSIS Pressure Base: 14.7300

> GPN Hol &

Real BTU Dry: 1098.66

Real BTU Wet: 1079.53

BTU Dry: 1093.16

BTU Wet: 1074.14

% Pactor: 0.9973

N Value: 1.2930 Avg Hol Weight: 19.7705

· Avg CuFt/Gal: 56.9423

26 Lb Product: 0.4521 Methane+ GPM: 17.2860

Rthane+ GPM: 2.9711

Butane+ GPM: 0.6328 Pentane+ GPM: 0.2944

1.3178

Propane+ GPM:

Standard Pressure: 14.6960

Real Calc. Specific Gravity: 0.6842

Pield Specific Gravity:

Carbon Dioxide CO2 3.8765

1.1954 Mitrogen Hydrogen Sulfide H28 0.0000

84.4558 Kethane

Rthane C2 6.1856 1.6534 2.4877 0.6850 Propane C3

Iso-Butane 0.1161 IC4 0.3548 NC4 0.2224 Nor-Butane 0.7054 Iso-Pentane TC5 0.1941 0.0710

NC5

Hexanes Plus C6+ 0.3518 0.1535

TOTAL

Nor-Pentane

100.0000

0.1929

2.9711

0.0699

REMARKS:

H2S IN GAS STREAM: NONE DETECTED

Approved by: DOR NORMAN

Pri Jul 28 15:04:04 2006

WELL DRILLING REQUIREMENTS

3 of 5 pages

III. WELL SUBSURFACE REQUIREMENTS:

A. GENERAL DRILLING REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at (505) 627-0272 in sufficient time for a representative to witness:
- a. Spudding
- b. Cementing casing: 8-5/8 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 NMOCD on the subsequent report of setting the first casing string.
- 4. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

B. CASING:

- 1. <u>8-5/8</u> inch surface casing should be set <u>at approximately 1400 feet</u>, below usable water and circulate cement to the surface. If cement does not circulate to the surface, the Roswell Field Office shall be notified at (505) 627-0275 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 <u>5-1/2</u> inch production casing is <u>sufficient to tie back 500 feet above</u> the <u>uppermost perforation in the pay zone.</u>

C. PRESSURE CONTROL:

- 1. Before drilling below the <u>8-5/8</u> 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 <u>8-5/8</u> 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 Roswell Field Office at 2909 West Second Street, Roswell, New Mexico 88201.
- 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.

IV. ON LEASE - WELL REQUIREMENTS:

A. The holder shall post signs identifying the location permitted herein with the requirements contained in Onshore Oil and Gas Order #1 and 43 CFR 3162.6.

B. The following data is required on the well sign that shall be posted in a conspicuous place on the well pad. **The communitization agreement number shall be posted on the well sign.** The sign shall be kept up with current identification and shall be legible for as long as the well is in existence:

Operator Name: Parallel Petroleum Corporation

Well Name & No.: Funny Cide 1525-8 Federal Com. #1H

Lease No.: NM-112249

Footage: SL; 1880' FSL & 208' FEL & BHL; 1880' FSL & 660' FWL

Location: Section 8, T. 15 S., R. 25 E.

C. UPON ABANDONMENT OF THE WELL, THE SAME INFORMATION SHALL BE INSCRIBED ON THE DRY HOLE MARKER WITH A BEADED WELD.

- D. The approval of the APD does not in any way imply or grant approval of any on-lease, off-lease, or off-unit action(s). It is the responsibility of the holder to obtain other approval(s) such as rights-of-way from the Roswell Field Office or other agencies, including private surface landowner(s).
- E. All vehicles, including caterpillar track-type tractors, motor graders, off-highway trucks and any other type of motorized equipment that is used in the construction of the access road and well pad shall be confined to the area(s) herein approved. The drilling rig that is used to drill the well shall also be confined to the approved area(s).

F. Containment Structure Requirement:

- 1. A containment structure or earthen dike shall be constructed and maintained around all storage facilities/batteries. The containment structure or earthen dike shall surround the storage facilities/batteries.
- 2. The containment structure or earthen dike shall be constructed two (2) feet high around the facilities/batteries (the containment structure or earthen dike can be constructed higher than the two (2) feet high minimum).
- 3. The perimeter of the containment structure or earthen dike can be constructed substantial larger for greater holding capacity of the contents of the largest tank.
- 4. The containment structure or earthen dike shall be constructed so that in case of a spill the structure can contain the entire contents of the largest tank, plus 24 hour production, within the containment structure or earthen dike, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

G. Painting Requirement:

All above-ground structures (e.g.: meter houses, tanks, above ground pipelines, and related appurtenance, etc.) not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard or supplemental Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for painting all the well facilities is "Olive Drab 18-0622 TPX" (Colors derived from "PANTONE" For Architecture and Interiors Color Guide).

H. Fence Requirement:

The holder shall minimize disturbance to existing fences and other improvements on public land. The holder is required to promptly repair impacted improvements to at least their former state. On private surface the holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates shall be allowed unless approved by the Authorized Officer.

I. Open-vent Exhaust Stack Requirements:

- 1. All open-vent exhaust stacks associated with heater-treater, separators and dehydrator units shall be modified to prevent birds and bats from entering them and to the extent practical to discourage perching and nesting.
- 2. New production equipment installed on federal leases after November 1st, 1993, shall have the open-vent exhaust stacks constructed to prevent the entry of birds and bats and to the extent practical, to discourage perching, and nesting.

V. Invasive and Noxious Weeds Requirement:

- A. The holder shall be held responsible if noxious weeds become established within the area. Evaluation of the growth of noxious weeds shall be made upon discovery. Weed control will be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipelines, and adjacent land affected by the establishment of weeds due to this action. The holder is responsible for consultation with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policy.
- B. The holder shall insure that the equipment and or vehicles that will be used to construct, maintain and administer the access roads, well pad and resulting well are not polluted with invasive and noxious weed seed. Transporting of invasive and noxious weed seed could occur if the equipment and vehicles were previously used in noxious weed infested areas. In order to prevent the spread of noxious weeds, the Authorized Officer shall require that the equipment and vehicles be cleaned with either high pressure water or air prior to construction, maintenance and administration of the access roads, well pad, and resulting well.

VI. <u>SPECIAL REQUIREMENT(S):</u>

A. Low-profile facilities no greater than eight-feet-high shall be used. If necessary, multiple tanks shall be used.