		Does In					
13	01 W	. Grand A		1.1.2.			
	Artesi	a, NM 8	821(FORM A OMB No. Expires M	PPROVED 1004-0137 arch 31, 2007		
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA		RECEIVE	Ū	5. Lease Serial No. NM NM 11393	3		_
APPLICATION FOR PERMIT TO D	DRILL OR	REENTER 200	ł	6. If Indian, Allotee	or Tribe Nan	1e	_
		DOD:ARTE	SIA	7. If Unit or CA Agree	ement. Name	and No.	
la. Type of work: 🖌 DRILL REENTED	R	(25)	294		,		
			_ ' []	8. Lease Name and W			
Ib. Type of Well: Oil Well ✔ Gas Well Other	✓ Sin	gle Zone Multip	e Zone	SPECIAL EFF	FORT FED	. COM. #	1
2. Name of Operator Parallel Petroleum Corporation	232	387		9. API Well No. 30 - 00 3	5-678	107	
3a. Address 1004 North Big Spring, Suite 400	3b. Phone No.	(include area code)		10. Field and Pool, or F	Exploratory		1
Midland, Texas	432/684	1-3727 W	LDCA	T Wolfcamp	AS 9	7487	-
4. Location of Well (Report location clearly and in accordance with any				11. Sec., T. R. M. or B	- •		
At surface 400' FNL AND 760' FWL At proposed prod. zone 700' FNL AND 760' FWL	BH(666'i	=56 1 760'	FWL	3-T15S-R26E			
 Distance in miles and direction from nearest town or post office* 4 miles South of Hagerman, New Mexico 				12. County or Parish 13. State Chaves NM		3. State NM	
15. Distance from proposed*	16. No. of a	16. No. of acres in lease 17. S		ng Unit dedicated to this well			
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	120.00		320				
18. Distance from proposed location*	19. Proposed	Depth	20. BLM/	/BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.	TVD 526	9,MD 9325'	NMB	B000265			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approxir	nate date work will star	t*	23. Estimated duration			
GL 3446'		01/30/2006		30 days			_
	24. Attac	hments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be at	tached to th	nis form:			<u></u>
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the ltem 20 above).	ne operatio	ons unless covered by an	existing bon	d on file (s	see
3. A Surface Use Plan (if the location is on National Forest System	Lands, the	5. Operator certific					
SUPO shall be filed with the appropriate Forest Service Office).		6. Such other site authorized offic		formation and/or plans as	s may be requ	lired by the	e
25. Signature	Name	(Printed/Typed)		Date			—
25. Signature Klasham		Deane Durham			11/15/	/2005	
Title Engineer, Parallel Petroleum Corporation							
Approved by (Signature)	Name	(Printed/Typed)			Date	123	2006
Title Assistant Field Manager,	Office	ROSWELL FIE	LD OF	FICE	3 #4 P4 P5 45	-	
Application approval acts to a And Minerals pplicant hold					APPRC entitle the ann	IVED F	OR 1 YEAR
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 cr States any false, fictitious or fraudulent statements or representations as	rime for any p to any matter v	erson knowingly and vithin its jurisdiction.	willfully to 1	make to any department of	or agency of	the United	

*(Instructions on page 2)

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

tench Dr., Hobbs, NM 88240

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 Pool Code **Pool** Name **API** Number Well Number **Property** Code **Property** Name SPECIAL EFFORT FED. COM. 1 OGRID No. **Operator** Name Elevation PARALLEL PETROLEUM CORPORATION 3447 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 3 400 NORTH 760 WEST D 15 S 26 E CHAVES Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line UL or lot No. Section Township Feet from the East/West line Range County Μ 3 15 S 26 E 660 SOUTH 760 WEST CHAVES Consolidation Code **Dedicated** Acres Joint or Infill Order No. 320 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 3452.0' 3449.5 OPERATOR CERTIFICATION 700 I hereby certify the the information 760 (st) contained herein is true and complete to the #+ Project Grea 344412 3443.8 best of my knowledge and bely 760 (PP) Len U Signatu Coordinate Table $\begin{array}{l} \mbox{Table} \\ \hline \mbox{Plane Coordinate} \\ X = 500, 170.6 \\ Y = 746, 0.33.7 \\ X = 500, 167.9 \\ Y = 745, 734.1 \\ X = 500, 159.8 \\ Y = 741, 769.1 \\ \end{array}$ Description Special Effort Fed. Com. #1 Surface Location Special Effort Fed. Com. #1 Penetration Point Special Effort Fed. Com. #1 Date Bottom Hole Location SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of ual surveys made by me or under my Producing Grea ervison and that the same is true and rect to the best of my belief. Date "Surveyed " LVA Signature & Seal of Professional Surveyor NOTE (BHL) 760' 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 W.O. Num. 2005-0970 Certificate No. Transacter (NOIS) 660 mean horizontal surface values.

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 113933

Legal Description of Land: SHL: 400' FNL and 760' FWL, Sec. 3, T19S, R24E Zone Penetration Point 700' FNL and 760' FWL BHL: 660' FSL and 760' FWL, Sec. 3, T19S, R24E Chaves County, New Mexico

Formation(s) (if applicable:

Bond Coverage:

\$25,000 statewide bond of Parallel Petroleum Corporation

BLM Bond File No:

NMB000265

17 NOV 2005

Date

sham

Name: Deane Durham Title: Engineer

ATTACHMENT TO FORM 3160-3 SPECIAL EFFORT FED COM #1 Surface Hole Location 400 FNL AND 760 FWL, SEC 3, 15S, 26E Bottom Hole Location 660 FSL AND 760 FWL, SEC 3, 15S, 26E CHAVES COUNTY, NEW MEXICO

DRILLING PROGRAM

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

1. <u>GEOLOGIC NAME OF SURFACE FORMATION</u>

San Andres

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Glorieta 2585'(+862') Tubb 3595'(-148') Abo Shale 4345' (-898') Wolfcamp 5270' (-1823') Wolfcamp Shale 5445'(-1998')

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

Fresh water30'Oil and GasWolfcamp 5270' (-1823') - 5445'(-1998')No H_2S gas should be encountered

4. <u>CASING AND CEMENTING PROGRAM</u>

<u>Casing Size</u> 20" conductor	<u>From To</u> 0'-40'	Weight	Grade	<u>Joint</u>
13 3/8"	0' - 300'	48#	H-40	STC
9 5/8"	0' - 1300'	36#	J-55	LTC
5 1/2"	1,200' - 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.

13-3/8" slurry: 440 sacks Class C + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 56.3% fresh water

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

<u>Note</u>: 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. Top of Cement should be at liner top.

Drilling Procedure

- a. Set 20" conductor pipe at 40' with a rathole unit.
- b. Drill 17 1/2" surface hole with rotary equipment to an approximate depth of 300', using a fresh water gel spud mud. Set 13 3/8", 48# H-40 casing with 440 sx Class C cement (circulate to surface, 1" if necessary).
- c. Drill 12 ¼" intermediate 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).
- d. Set slips on 9 5/8" CSG. Cut 13 3/8" CSG at bottom cellar level. Cover cellar floor with concrete. Cut 9 5/8" CSG and NU & test BOP.
- e. Drill 8 3/4" production hole to 5500', using cut brine to an approximate depth of 3400' and a starch mud system to TD.
- f. Plug lower portion of the hole, per OCD/BLM specifications.
- g. Set 7" 23# J-55 casing at the top of the Wolfcamp zone of interest at an approximate depth of 4700' with 600 sx, Class C.
- h. Dress CMT to kick off point at approximately 4888', oriented at 0 degree (grid) azimuth.
- i. Build angle at 15 degrees per 100' to 90 degrees and hold.
- j. Drill 6 1/8" horizontal drain hole to a terminus of 660' FNL (9325' MD).
- k. Run 4 ¹/₂" 11.6# N-80 liner from TD back to 3700', cement with 500 sx Class C
- 1. 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.

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A BOP sketch is attached.

6. <u>TYPES AND CHARACTERS OF THE PROPOSED MUD SYSTEM</u>

- a. Spud and drill to 300' with fresh water gel spud mud for surface string.
- b. The intermediate section from 300' to 1,300' will be 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.

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

None anticipated.

BHP expected to be 1,100 psi.

10. ANTICIPATED STARTING DATE:

Is planned that operations will commence around second quarter of 2006 with drilling and completion operation lasting about 30 days.

SURFACE AND OPERATIONS PLAN FOR DRILLING, COMPLETION, AND PRODUCING

PARALLEL PETROLEUM CORPORATION SPECIAL EFFORT FED. COM. #1 SHL: 400' FNL AND 760' FWL, SEC 3, 15S, 26E CHAVES COUNTY, NEW MEXICO

LOCATED:

4 miles South of Hagerman, New Mexico

OIL & GAS LEASE:

NM NM 113933

RECORD LESSEE:

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

BOND COVERAGE:

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

ACRES IN LEASE:

120.00

FEE SURFACE OWNER:

Terry L. and Lind K. Little P.O. Box 1023 Artesia, New Mexico 88202

POOL:

Wolfcamp (Gas)

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

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. <u>ACCESS ROADS</u>

A. Length and Width

A 592' access road will be constructed south from County Road 92. The road will be 16' to 24' wide and will have a 75' wide turn in at the county road.

B. <u>Surface Material</u>

Caliche from a commercial source.

C. <u>Maximum Grade</u>

Less than five percent.

D. <u>Turnouts</u>

No turnouts are anticipated.

E. Drainage Design

No Change.

F. <u>Culverts</u>

None necessary.

G. Gates and Cattle Guards

None needed.

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 will be drilled at the Spectacular Bid Fed Com #1 site which is located 1500' northeast of this site. The permit for the well will be amended to supply water to this operation. If needed a second water well will be drilled on the property near the drill site. A permit for drilling the well will be secured from the New Mexico Office of State Engineers prior to the start of drilling operations.

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.
- 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.

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 and the site will be clean.

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.

D. Ponds and Streams

Prichard Lake and several unnamed playa lakes are located .75 miles north of the site. Drainage from the site however will be to the south and east, away from these playas. No streams or creeks are located in the immediate vicinity of the wellsite.

E. <u>Residences and Other Structures</u>

The surface owner lives in a mobile homes located 600' west of this site. There are also occupied mobile homes located .25 mile north of the wellsite.

F. Archaeological, Historical, and Cultural Sites

See archaeological report # SNMAS-05NM-1955 submitted by: Southern New Mexico Archaeological Services, Inc., P.O. Box 1 Bent, New Mexico 88314 Phone 505-67-4797

G. Land Use

Undeveloped

H. Surface Ownership

Terry L. and Lind K. Little P.O. Box 1023 Artesia, New Mexico 88202

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.

15 NOV 2005

Date

Name: Deane Durham Title: Engineer





LOCATION VERIFICATION MAP







		irs:	Superviso	n			Parallel P		ATOR:	
		······	ļ			fort Fed C				WELL
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KOP @ 4888' MD BUR = 15 DEG per 100 FT End Curve @ 5487' MD, 5269.3' TVD BHL @ 9325' MD, 5269.3' TVD, 4219.3' VS



COMPANY DETAILS



1004 North Big Spring, Suite 400 • Midland, TX 79701 • Ph: 432-684-3727 • Fax: 432-684-3905

October 21, 2005

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 well located in Section 33, T-14-S, R-26-E. The well which was tested in the Wolfcamp formation did not have any indications of hydrogen sulfide from this formation. We believe the potential for it 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