N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue

Artesia, NM 88210

JUN 20 2007

AIPSTEANGAMAM MAGE

Form 3160-3 (April 2004)		OMB No. 1004-0137 Expires March 31, 2007					
DE ARTMENT OF THE INBUREAU OF LAND MANA		5.	Lease Serial No. NM NM 112249				
APPLICATION FOR PERMIT TO E		- 6.	6. If Indian, Allotee or Tribe Name				
Ia. Type of work. DRILL REENTE	R	7.	7. If Unit or CA Agreement, Name and No.				
Ib. Type of Well: Oil Well Gas Well Other		8. ole Zone	Lease Name and Well Real Quiet 1525-4				
2. Name of Operator Parallel Petroleum Corporation 236	337	9.,	API Well No.	5-63947			
3a. Address 1004 North Big Spring, Suite 400 Midland, Texas	3b. Phone No. (include area code)	Ideat:	10. Field and Pool, or Exploratory				
4. Location of Well (Report location clearly and in accordance with any At surface SHL 760' FNL AND 190' FEL Sec 5 At proposed prod. zone BHL 760' FNL AND 660' FEL Sec 4	State requirements *) 5, T15S-R25E		Sec., T. R. M. or Blk an	d Survey or Area			
14 Distance in miles and direction from nearest town or post office* 5 miles North of Artesia, New Mexico	12.	12. County or Parish 13. State Chaves NM					
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'		ing Unit dedicated to this well					
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 2500'	2435.41 19. Proposed Depth 5500'		I/BIA Bond No. on file B000265				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3552'	22. Approximate date work will sta 05/15/2007	rt* 23.	Estimated duration 30 days				
	24. Attachments		ONTROLLED WATER	Pasin			
 The following, completed in accordance with the requirements of Onshort. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover t Item 20 above). Lands, the 5. Operator certification	he operations ur cation specific informa	nn: nless covered by an exis tion and/or plans as may				
25. Signature Vane Auton	Name (Printed/Typed) Deane Durham		Dat	3-19-07			
Title Engineer, Parallel Petroleum Corporation							
APPLYS OF SIMITZ	NameSifted/Juged)	NS.	SIMITZ	UUN 18 2007			
Title Acting Assistant Field Manager, Application approval does not warrant or certify that the applicant hold conduct operations thereon.	Office ROSWELL FI s legal or equitable title to those right	ELD OEEK	T APPE	OVED FOR 2 VEADO			
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 to	ime for any person knowingly and o any matter within its jurisdiction.	willfully to make	to any department or ag	ency of the United			

*(Instructions on page 2)

DECLARED WATER BASIN

CASING MUST BE CIRCULATED WITNESS

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS 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 : 1625 N. French Dr., Hobbs, NM 88240

1005 M. French Dr., house, Mm 00240

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

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

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	9748G		ol Name WOLFCAMP
Property Code	_	erty Name 1525–4 FED COM	Well Number
OGRID No.	-	ator Name LEUM CORPORATION	Elevation 3552'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	15 S	25 E		760	NORTH	190	EAST	CHAVES

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
1 1	4	15 S	25 E		760	NORTH	660	EAST	CHAVES
Dedicated Acres	Joint or	Infill Co	nsolidation (Code Or	der 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

Coordinate System", Nev	form to the "New Mexico v Mexico East Zone, North Distances shown hereon are			OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef, and that this organization either owns a working inferest or unleased mineral inferestin the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a construct with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Applied The
	(SL) 9 190'-	(PP) N 89'41'49" E	- 3963.1 (BHL)	Signature Date Dean-C Danham Printed Name
	5	Project Area	Producing Area	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 supervison and that the same is true and correct to the best of my belief
				January 29 2007 LVA. Date of Survey ME LVA. Signature & Seal of Professional Surveyor
	Surface Location Plane Coordinate X = 462,153.6 Y = 745,645.9 Geodetic Coordinate Lat. 33*02*59.21* N Long. 104*27*24.65* W (NAD '27)	Penetration Point Plane Coordinate X = 463,003.6 Y = 745,650.4 Geodetic Coordinate Lat. 33"02"59.26" N Long. 104"27"14.67" W (NAD "27)	Bottom Hole Location Plane Coordinate X = 466,965.6 Y = 745,671.4 Geodetic Coordinate Lat. 33°02'59.51" N Long. 104°26'28.12." W (NAD '27)	W.O. Num. 2007/F[QO70]

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:

Real Quite 1525-4 Fed Com #1

SHL: 760' FNL and 190' FEL, Sec. 5, T15S, R25E BHL: 760' FNL and 660' FEL, Sec. 4, 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

3-19-07

Date

Name: Deane Durham

Title: Engineer

ATTACHMENT TO FORM 3160-3 REAL QUIET 1525-4 FED COM #1 Surface Hole Location 760 FNL AND 190 FEL, SEC 5, 15S, 25E Bottom Hole Location 760 FNL AND 660 FEL, SEC 4, 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. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Glorieta 2565'(+987') Tubb 3575'(-23') Abo Shale 4325' (-773') Wolfcamp 5250' (-1698') Wolfcamp Shale 5425'(-1873')

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

Fresh water

65'

Oil and Gas

Wolfcamp 5250' (-1698')

No H₂S gas should be encountered

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

Casing Size	<u>From To</u>	<u>Weight</u>	<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.

REAL QUIET 1525-4 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

<u>Note</u>: 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 kick off point at approximately 4,400'.
- e. Build angle at 6.7 degrees per 100' to 90 degrees and hold.
- f. Drill 7 7/8" horizontal drain hole to a terminus of 660' FEL approximately 9,690'.
- g. Run 5 1/2" 17# N-80 CSG to TD. Cement with 750 sx Class C Acid Soluble
- h. Circulate to surface or run temperature survey to verify tie in to surface casing.
- i. Rig Down Rotary Tools

REAL QUIET 1525-4 FED COM #1 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 are planned. This is the second well on a dual pad, so no 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 forth quarter of 2007 with drilling and completion operation lasting about 35 days.

SURFACE AND OPERATIONS PLAN FOR DRILLING, COMPLETION, AND PRODUCING

PARALLEL PETROLEUM CORPORATION REAL QUIET 1525-4 FED. COM. #1 (Will share a location with the Charismatic 1525-5 #1)

SHL: 760' FNL AND 190' FEL, SEC 5, 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:

Jim and John Quirke 9045 Spencer CT. Gilroy, CA 95123 408-710-1746

POOL:

Wolfcamp (Gas)

THUNDER GULCH 1525-4 FED. COM. #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
- 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 2.5 miles to location. The road will be surfaced with 4 to 6 inches of caliche and is 16' wide.

B. Surface Material

Caliche from a commercial source.

C. Maximum Grade

Less than five percent.

THUNDER GULCH 1525-4 FED. COM. #1 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.

THUNDER GULCH 1525-4 FED. COM. #1

Page 4

- 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.

THUNDER GULCH 1525-4 FED. COM. #1

Page 5

D. Ponds and Streams

Walnut Creek, an intermittent stream runs west to east and is located approximately 5.5 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. <u>CERTIFICATION</u>

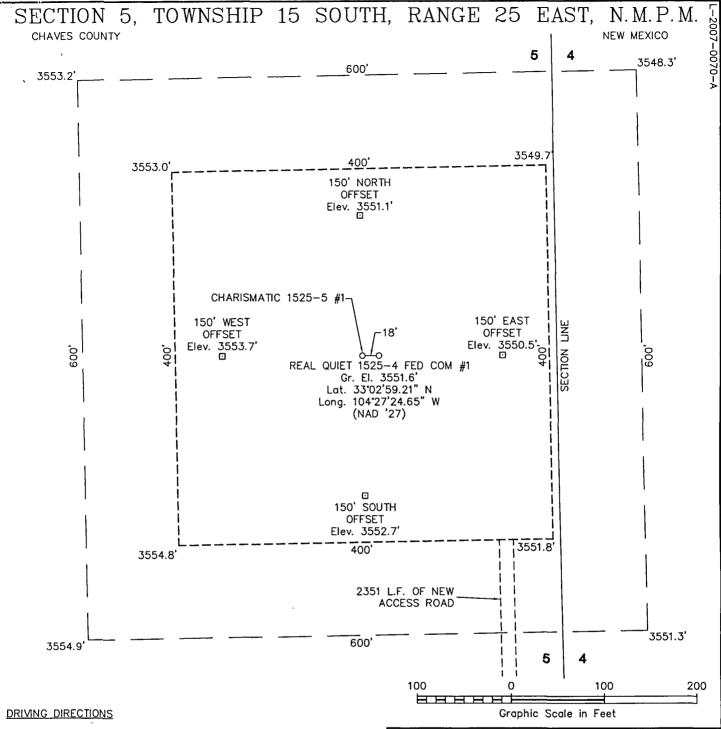
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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



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 PASS THE WELL PAD FOR THE WAR EMBLEM 1525-9 FED COM #1 AND FUNNY CIDE 1525-8 FED COM #1, AT 0.9 MILE PASS THE WELL PAD FOR THE GIACOMO 1525-8 FED COM #1 AND SMARTY JONES 1525-9 #1, 1.4 MILES PASS THE WELL PAD FOR THE THUNDER GULCH 1525-4 FED COM #1 AND GRINDSTONE 1525-5 #1, CONTINUING IN ALL 1.9 MILES TO THE PROPOSED LOCATION.



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

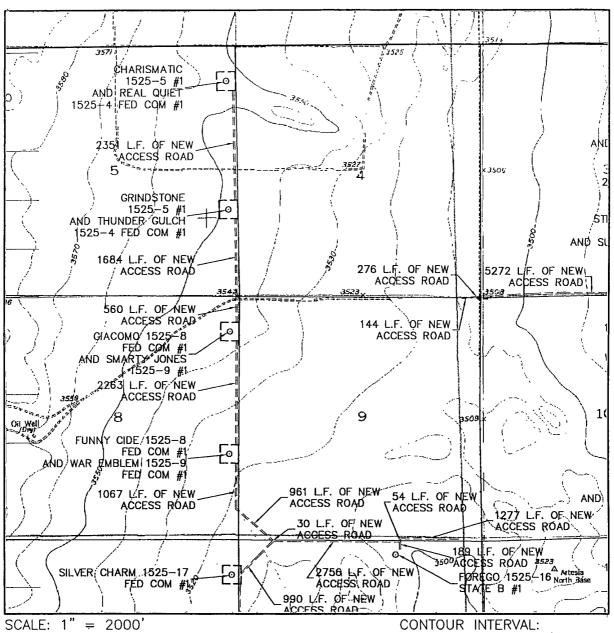
PARALLEL PETROLEUM CORPORATION

REAL QUIET 1525-4 FED COM #1

Located 760' FNL & 190' FEL, Section 5 Township 15 South, Range 25 East, N.M.P.M. Chaves County, New Mexico

Drawn By: LVA	Date: March 21, 2007
Scale: 1"=100'	Field Book: 365 / 1-4, 29-30
Revision Date:	Quadrangle: Hagerman SW
W.O. No: 2007-0070	Dwg. No.: L-2007-0070-A

LOCATION VERIFICATION MAP



HAGERMAN SW - 10'

SEC5 IV	VP. <u>15-</u>	S RG	E. <u>25</u>	ᆫ
SURVEY	N.	М.Р.М.		
COUNTY				
DESCRIPTION				FEL
ELEVATION	-	3552'		
OPERATOR PA	ARALLEL PE	TROLEUM	CORPOR	RATION
LEASE REAL				
U.S.G.S. TOP				

HAGERMAN SW



WES1

EXHIBIT F

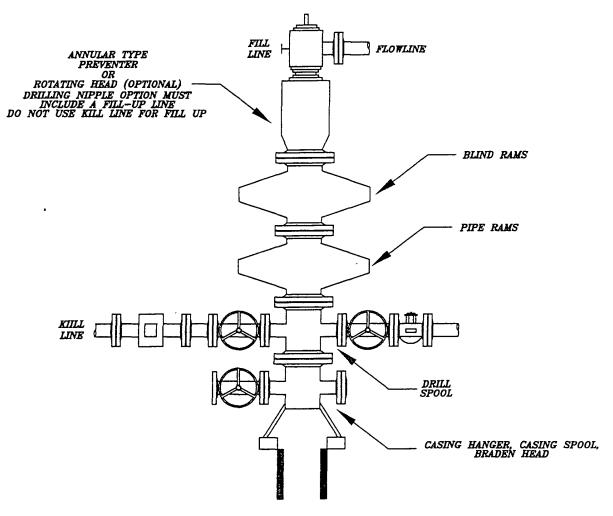
COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

687-0865 - (432) 687-0868 FAX

MINIMUM BOP SCHEMATIC

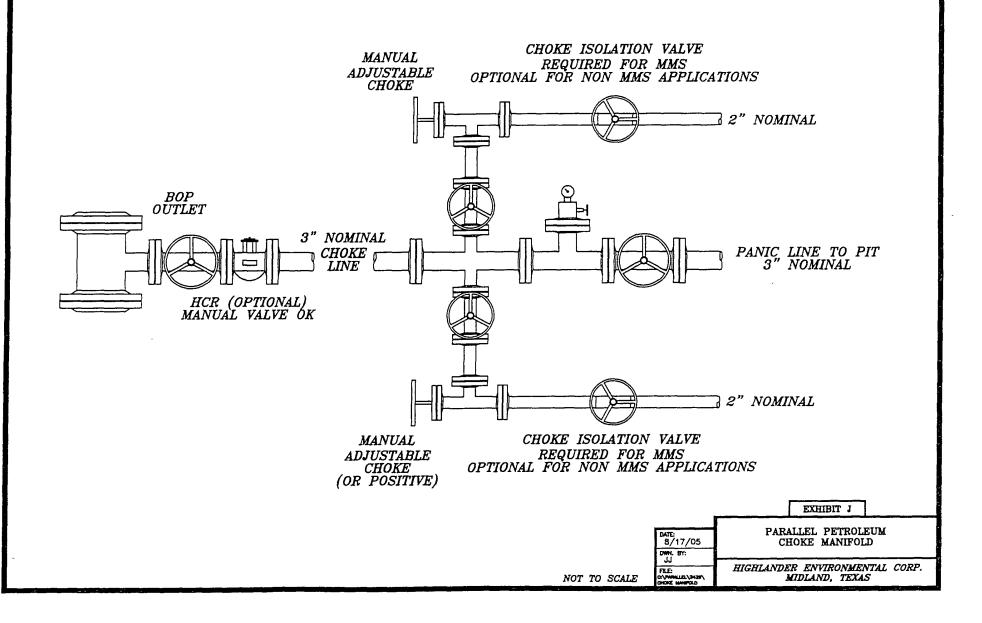


DATE: PARALLEL PETROLEUM
7/26/05 BOP SCHEMATIC

DINN, BY:
JJ
FILE: HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

NOT TO SCALE

CHOKE MANIFOLD 5M SERVICE



11		AR	AL	LEI		IRVEY C	ALCUL	ATION	I PROGR	AM
	PEI	KULE	UM CORE	ORAHO	IN					
OPER	ATOR:	.	Parallel P	etroleum (Corporati	on	Superviso	rs:		
WELL			Real Quie	t 1525-4 FI	ED COM	#1				
LOCA	TION:		N/2 Sec. 4	T-15-S R-	25-E					
API N	UMBER	{ :					1			•
		•	COMM	ENTS:						
							·	MAG D	EC.(-/+)	
							1	GRID C	ORR.(-/+)	
							<u> </u>	TOTAL	CORR.(-/+)	0.0
		DATE	03/06/07		TIME:	7:37 AM	TRUE TO GRI	D		▼
MINIM	JM CURV	ATURE (CALCULATIO	NS(SPE-3362) P	ROPOSED	DIRECTION	90.0	TARGET T	RACKING
			•			. •	•		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

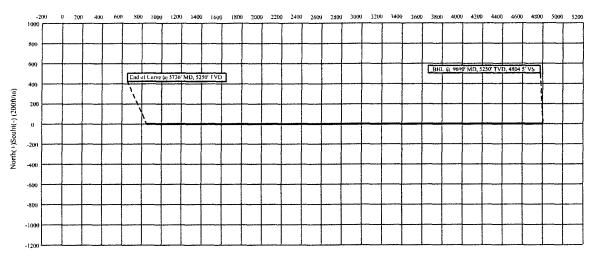
Parallel Petroleum Corp.

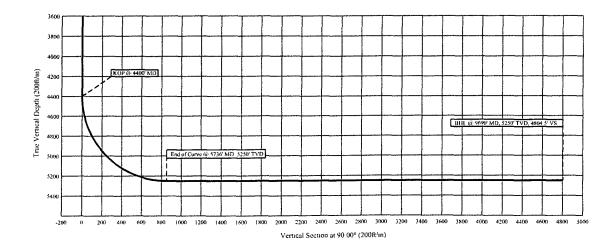
COMPANY DETAILS

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

Real Quiet 1525-4 Fed. Com. #1 N/2 Sec. 4, T-15-S, R-25-E Chaves County, New Mexico

East(+)/West(-) (200ft/m)







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

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 No. 260728-01 Date Run 07/28/2006

GPANGL.L62

Date Sampled 07/27/2006

Analysis for: PARALLEL PETROLEUM CORPORATION

Well Name: DASH FOR CASH #1

Field:

Sta. Number: Purpose: SPOT

DEG F Sampling Temp: 60

Volume/day:

Pressure on Cylinder: 733

PSIG

Producer: PARALLEL PETROLEUM CORP. County: CHAVES State: NM

Sampled By: DON RORMAN DRG P

Atmos Temp: 91

Pormation:

Line Pressure: 746.2 PSIA

GAS COMPONENT ANALYSIS Pressure Base: 14.7300

> Hol & GPM

1.8023

Real BTU Dry: 1092.27

Real BTU Wet: 1073.26

Standard Pressure: 14.6960

BTU Dry: 1086.59

BTU Wet: 1067.68

% Factor: 0.9971

Value: 1.2913

Avg Nol Weight: 20.6848

Avg CuFt/Gal: 56.8397

26 Lb Product: 0.4422

Propane+ GPM:

Nethane+ GPM: 17.0215

Bthane+ GPM: 3.3555

Butane+ GPM: 0.7199 Pentane+ GPM:

1.5531

0.2953

Real Calc. Specific Gravity: 0.7159

Field Specific Gravity: 0.0000

Carbon Dioxide CO2 5.6514

Mitrogen 1.8667 0.0000 Hydrogen Sulfide H2S

Hethane C1 80.6277 Ethane C2 6.7430

Propane C3 3.0262 0.8332 IC4 0.4434 0.1450 Iso-Butane NC4 0.8870 0.2796 Nor-Butane

IC5 0.2361 0.0864 Iso-Pentane NC5 0.2341 0.0848 Nor-Pentane

0.2844 Hexanes Plus C6+ 0.1241

> 100.0000 3,3555

TOTAL

H2S IN GAS STREAM: NONE DETECTED

Approved by: DON NORMAN

Fri Jul 28 15:04:04 2006



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 No. 260728-02 Date Run 07/28/2006

GPANGL.L62

Date Sampled 07/27/2006

State: XM

Analysis for: PARALLEL PETROLEUM CORPORATION

Well Name: SEABISCUIT #2

Field:

Sta. Number:

Purpose: SPOT

DEG P Sampling Temp: 60

Volume/day:

Pressure on Cylinder: 576

Carbon Dioxide CO2

Hydrogen Sulfide H2S

Nitrogen

PSIG

3.8765

1.1954

0.0000

Producer: PARALLEL PETROLEUM CORP.

County: CHAVES

Sampled By: DOW NORMAN

Atmos Temp: 90 DEG F

Pormation:

Line Pressure: 589.2 PSIA

GAS COMPONENT ANALYSIS

Hol & GPK

Real BTU Dry: 1098.66

Real BTU Wet: 1079.53

Pressure Base: 14.7300

Real Calc. Specific Gravity: 0.6842

Field Specific Gravity: 0.0000

Standard Pressure: 14.6960

BTU Dry: 1093.16 BTU Wet: 1074.14

% Factor: 0.9973

N Value: 1.2930

Avg Hol Weight: 19.7705

Avg CuPt/Gal: 56.9423

26 Lb Product: 0.4521 Methane+ GPM: 17.2860

Rthane+ GPM: 2.9711 Propane+ GPM: 1.3178 Butane+ GPM: 0.6328 Pentane+ GPM: 0.2944

C1 84.4558 Methane C2 6.1856 1,6534 Ethane 2.4877 0.6850 Propane C3 0.3548

N2

0.1161 Iso-Butane IC4 0.7054 0.2224 NC4 Nor-Butane 0.0710 Iso-Pentane IC5 0.1941 0.0699 Nor-Pentane RC5 0.1929

C6+ 0.3518 0.1535 Hexanes Plus

TOTAL

100.0000

2.9711

H2S IN GAS STREAM: NONE DETECTED

Approved by: DON HORMAN

Fri Jul 28 15:04:04 2006

EXHIBIT A

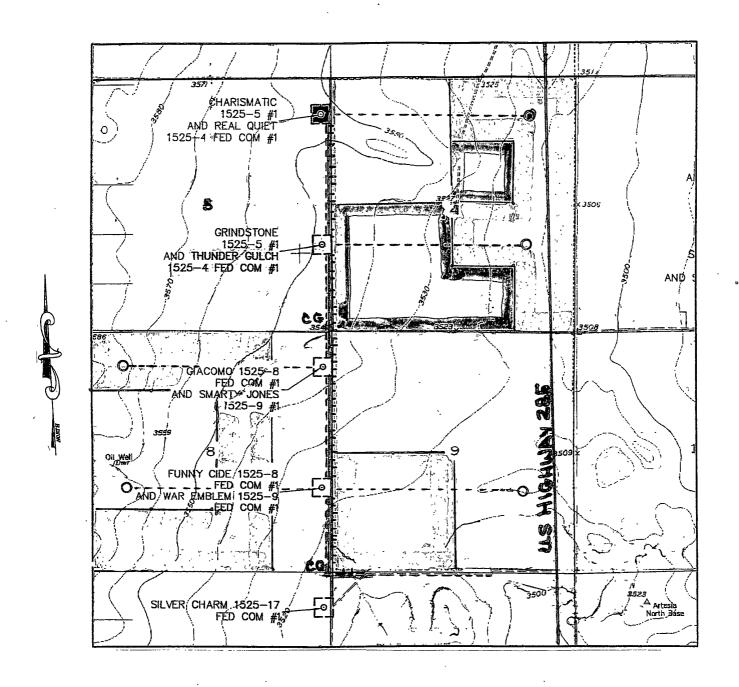
OPERATORS NAME: <u>Parallel Petroleum Corporation</u> LEASE NO.: <u>NM-112249</u>

WELL NAME & NO: Real Quiet 1525-4 Federal Com. #1H

1/4/4 & FOOTAGE: SL; Section 5, NE1/4NE1/4 - 760' FNL & 190' FEL & BHL; Section 4, NE1/4NE1/4 - 760' FNL & 660'

FEL, T. 15 S., R. 25 E.

COUNTY: Chaves County, New Mexico, NMPM



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 uppermost perforation in the pay zone.

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.