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la. Type of work: 🗹 DRILL		NTER			
lb. Type of Well: Oil Well	Gas Well Other	Single Zone	Multiple Zone	8. Lease Name and Well N Soap Box 1921-4 Fe	17
2. Name of Operator	<u></u>		<u></u>	9. API Well No.	A
	Petroleum Corporation	230387		30-01	5-352
3a. Address 1004 North Big Spr Midland, Texas	ring, Suite 400	3b. Phone No. (include area 432/684-3727		10. Field and Pool, or Explore Wolfcamp	atory
4. Location of Well (Report location	n clearly and in accordance wit		Wildee	11. Sec., T. R. M. or Blk. and	Survey or Area
	'FNL and 771' FEL	Subject	t to		•
At proposed prod. zone 2111	' FNL and 660' FWL	Like Ap	Diovel	4-19S-21E	
14. Distance in miles and direction fro 9 miles south of Hope, New	•	20 0. 8 m. 4	3	12. County or Parish Eddy	13. State NM
15. Distance from proposed*	<u></u>	16. No. of acres in lease	17. Spacir	ng Unit dedicated to this well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if	any) 771'	1960	320		
18. Distance from proposed location*		19. Proposed Depth	20. BLM/	BIA Bond No. on file	
to nearest well, drilling, complete applied for, on this lease, ft.	ed, 2500' north	4,800'	NMB	000265	
21. Elevations (Show whether DF, H	KDB, RT, GL, etc.)	22. Approximate date work	will start*	23. Estimated duration	<u> </u>
GL 4325'		12/20/200	6	30 days	
		24. Attachments			
The following, completed in accordance	ce with the requirements of Or		hall be attached to the	nis form:	
The following, completed in accordance 1. Well plat certified by a registered st	-	nshore Oil and Gas Order No.1, si 4. Bond to	cover the operation	nis form: ons unless covered by an existi	ng bond on file (see
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ATTACHMENT TO FORM 3160-5 SOAP BOX 1921-4 FEDERAL #1 Surface Hole Location 2123 FNL AND 771 FEL, SEC 4, 19S, 21E Bottom Hole Location 2111 FNL AND 660 FWL, SEC 4, 19S, 21E EDDY 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

GL 4325' Glorieta 1270'(+3055') Yeso 1330' (+2995') Tubb sand 2615'(+1710') Lower Yeso 2730' (+1595') Abo Shale 3200' (+1125') Abo Carbonate 3350' (+975') Wolfcamp 4030' (+295') Wolfcamp Shale 4180'(+145') TD 4200' Pilot Hole

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

Fresh water790'Oil and GasWolfcamp 4030' (+295')No H2S gas should be encountered

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

Casing Size	<u>From To</u>	<u>Weight</u>	Grade	<u>Joint</u>
16" conductor	0'-120'			
8 5/8"	0' - 1500'	24#	J-55	STC
5 1/2"	0'-7,699'	17#	N-80	LTC

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

8-5/8" 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 be required. Top out to surface with 1" pipe in the annulus.

<u>Note</u>: 5-1/2" Cement casing with enough volume to circulate to surface plus 25%. (Acid soluble CMT). Lead - 560 sacks 50:50 Poz (Fly Ash):Class C CMT + 10% Bentonite + 0.2% FL-52A + 0.2% Sodium Metasilicate + 141% fresh water. Tail – 560 sacks Class H CMT + 0.6% BA-10 + 0.4% CD-32 + 1% FL-62 + 0.1% ASA-301 + 0.4% Sodium Metasilicate + 20 lbs/sack calcium carbonate + 53% fresh water. Cement must tie back to surface casing 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 1500', 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 4200', using cut brine to an approximate depth of 3100' and a polymer mud system to TD.
- e. Run open-hole logs
- f. Set CMT kick-off plug.
- g. Dress CMT to kick off point at approximately 3612'.
- h. Build angle at 13.7 degrees per 100' to 90 degrees and hold.
- i. Drill 7 7/8" horizontal drain hole to a terminus of 660' FWL.
- j. Run 5 ½" 17# N-80 CSG to TD. Cement with enough volume to circulate to surface plus 25%. (Acid soluble CMT). Lead 560 sacks 50:50 Poz (Fly Ash):Class C CMT + 10% Bentonite + 0.2% FL-52A + 0.2% Sodium Metasilicate + 141% fresh water. Tail 560 sacks Class H CMT + 0.6% BA-10 + 0.4% CD-32 + 1% FL-62 + 0.1% ASA-301 + 0.4% Sodium Metasilicate + 20 lbs/sack calcium carbonate + 53% fresh water. Cement must tie back to surface casing per completion procedure.
- k. 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. <u>TYPES AND CHARACTERS OF THE PROPOSED MUD SYSTEM</u>

- a. Spud and drill to 1,500' with 8.3 ppg Fresh Water system and viscous sweeps for hole cleaning.
- c. The production section from 1,500' to 3,100' will utilize a cut brine mud system.
- d. The remaining production section from 3,100' to TD will be a polymer mud system with mud weight sufficient to control formation pressures. 88-9.2 PP9

7. <u>AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT</u>

None required.

8. <u>LOGGING, TESTING, AND CORING PROGRAM</u>

Mud logs as well as DLL/CNL/LDT/CAL/GR logging is planned. Drill stem tests, cores and sidewall cores are possible. No MWD GR will be used.

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

None anticipated.

BHP expected to be 2,100 psi.

10. <u>ANTICIPATED STARTING DATE:</u>

It is planned that operations will commence around first quarter of 2007 with drilling and completion operation lasting about 30 days.

SURFACE AND OPERATIONS PLAN FOR DRILLING, COMPLETION, AND PRODUCING

PARALLEL PETROLEUM CORPORATION SOAP BOX 1921-4 FEDERAL #1 SHL: 2123' FNL AND 771' FEL, SEC 4, T19S, R21E EDDY COUNTY, NEW MEXICO

LOCATED:

9 miles South of Hope, New Mexico

OIL & GAS LEASE:

NM 108921

RECORD LESSEE:

The Allar Co. P.O. Box 1567 Graham, Texas 76450

BOND COVERAGE:

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

ACRES IN LEASE:

1960

SURFACE OWNER:

Federal

SURFACE TENANT:

Phyllis Crockett P.O. Box C Hope, NM 88250 505-484-3687

POOL:

Wolfcamp

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 and F-1 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

The access road will be built as shown on Exhibit F and F-1. The existing access road will come off County Road 20 (Bronc Road) and go west 1.2 mile to the new access road going north. Go north .75 mile to a cattle guard and then continue thru the cattle guard and continue .35 mile to the Duke 4 Federal #2 location, continue north and west .5 mile to location. The new access road from the Duke to the Soap Box will be approximately 3200 feet long and surfaced with caliche and will be 16' to 24' wide.

B. <u>Surface Material</u> Caliche from a commercial source.

- C. <u>Maximum Grade</u> Less than five percent.

D. Turnouts

One turnout may be constructed on the new section of the access road.

- E. <u>Drainage Design</u> No low water crossings will be constructed on this section of the access road.
- F. Culverts

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

G. <u>Gates and Cattle Guards</u> No cattle guards or gates will be installed on this section of 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. Or water will be secured and trucked or transported by poly line to the location from a commercial source.

6. <u>METHODS OF HANDLING WASTE DISPOSAL</u>

- 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. 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. <u>WELL SITE LAYOUT</u>

Exhibit B shows the relative location and dimensions of the well pad, mud pits, reserve pit, and the location of major rig components. Drill site orientation is shown on Exhibit C.

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. <u>Topography</u>

The project is located on open, rolling ridge slopes, with Northeast exposure. The regional drainage of the site being to the north and east toward Bullis Canyon.

B. Soil

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

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. <u>Ponds and Streams</u> Bullis Canyon, has an intermittent stream which flows west to east, is located 1/2 mile north of the site. There are no other rivers, lakes, ponds, or streams in the area.
- E. <u>Residences and Other Structures</u> The Phyllis Crockett Ranch house is located 2 miles north west of the site.
- F. <u>Archaeological, Historical, and Cultural Sites</u> See archaeological report to be submitted by: Southern New Mexico Archaeological Services, Inc., P.O. Box 1

Bent, New Mexico 88314 Phone 505-671-4797

- G. <u>Land Use</u> Grazing
- H. <u>Surface Ownership</u> 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

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.

10-20-06

Date

leve A

Name: Deane Durham Title: Engineer

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:

Morrow with alternate in the Wolfcamp

Lease No:

NM 108921

Legal Description of Land:

Soap Box 1921-4 Federal #1 SHL: 2123' FNL AND 771' FEL, SEC 4, T19S, R21E BHL: 2111' FNL AND 660' FWL, SEC 4, T19S, R21E Eddy County, New Mexico

\$25,000 statewide bond of Parallel Petroleum Corporation

Formation(s) (if applicable:

Bond Coverage:

BLM Bond File No:

NMB000265

10-20-06

Date

Name: Deane Durham Title: Engineer



DOUBLE HORESHOE RESERVE PIT





Located 2123' FNL & 771' FEL, Section 4 Township 19 South, Range 21 East, N.M.P.M. Eddy County, New Mexico

		- 1
Drawn By: LVA	Date: October 4, 2006	٦
Scale: 1"=100'	Field Book: 352 / 1-9	1
Revision Date:	Quadrangle: Holt Tank	٦
W.O. No: 2006-0987	Dwg. No.: L-2006-0987-A	1

COMPANY CoMidland, Inc.

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

ROAD BEGINS TO THE NORTH (RIGHT) SIDE OF SAID LEASE ROAD,

THEN GO NORTH ALONG SAID ACCESS ROAD 1.1 MILES TO THE DUKE 4 FEDERAL #2 WELLPAD, CONTINUE WEST AND NORTH ALONG SAID

ACCESS ROAD, 0.6 MILE TO THE PROPOSED LOCATION.

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Exhibit "E" AREA PRODUCTION MAP PARALLEL PETROLEUM CORPORATION SOAP BOX 1921-4 FEDERAL #1 SHL: 2123' FNL AND 771' FEL, SEC 4, T19S, R21E EDDY COUNTY, NEW MEXICO

LOCATION VERIFICATION MAP







OPEF	RATOR		Parallel Pe	etroleum C	Corporatio	n	Superviso	s:		
WELL			Soap Box							
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KOP @ 3612' MD BUR = 13.7 DEG per 100 FT End Curve @ 4268' MD, 4029.6' TVD BHL @ 7699' MD, 4029.6' TVD, 3848.6' VS

Parallel Petroleum Corp.

Soap Box 1921-4 Federal #1 Sec. 4, T-19-S, R-21-E Eddy County, New Mexico

COMPANY DETAILS

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





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PARALLEL Petroleum Corporation

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

June 12, 2006

Mr. Bryan Arrant New Mexico Oil Conservation Division 1301 W. Grand Ave. Artesia, New Mexico 88210

Re: Hydrogen Sulfide Potential South Hope Area Wolfcamp Program SW Chaves and Eddy Counties, New Mexico

Dear Mr. Arrant:

Parallel Petroleum Corporation operates the Boxtop 1921-1 Federal #1 well located in Section 1, T-19-S, R-21-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. There are no occupied dwellings in the area of these new drilling locations.

Should you need any additional information regarding this issue, please contact me at the address or phone number listed or email at <u>ddurham@plll.com</u>.

Sincerely,

A. Deane Durham Senior Engineer

SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name: Parallel Petroleum Corporation	Well Name & #:Box 1921-4 Federal # 1
Location Surface Hole: 2123' F N L & 771'	F E L; Sec. 04 , T. 19 S., R. 21 E.
Bottom Hole: 2111' F N L & 660'	FW L; Sec. 04 , T. 19 S., R. 21 E.

Lease #: NM-108921 County: Eddy State: New Mexico

The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.

This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.

I. SPECIAL ENVIRONMENT REQUIREMENTS

() Lesser Prairie Chicken (stips attached)	() Flood plain (stips attached)
() San Simon Swale (stips attached)	(X) Other Aplomado Falcon Stips Attached

11. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING

(X) The BLM will monitor construction of this drill site. Notify the (X) Carlsbad Field Office at (505) 234-5972 () Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.

(X) Roads and the drill pad for this well must be surfaced with <u>6</u> inches of compacted caliche upon completion of well and it is determined to be a producer.

() All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximately ______inches. in depth. Approximately ______cubic yards of topsoil material will be stockpiled for reclamation.

(X) Other. Pits Southwest V-Door Northwest

III. WELL COMPLETION REQUIREMENTS

() A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.

(x) Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at depth of $\frac{1}{2}$ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.

() A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (<i>Bouteloua curtipendula</i>) 5.0 Sand Dropseed (<i>Sporobolus cryptandrus</i>) 1.0	 () B. Seed Mixture 2 (Sandy Sites) Sand Dropseed (Sporobolus crptandrus) 1.0 Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0
() C. Seed Mixture 3 (Shallow Sites) (Side oats Grama (<i>Boute curtipendula</i>) 1.0) D. Seed Mixture 4 (Gypsum Sites) Alkali Sacaton (<i>Sporobollud airoides</i>) 1.0 Four-Wing Saltbush (<i>Atriplex canescens</i>) 5.0

(X) OTHER SEE ATTACHED SEED MIXTURE

Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to take advantage of available ground moisture.

() Other

RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6-mil plastic. Mineral material extracted from within the boundary of the APD during construction of the well pad and reserve pits and be used for the construction of this well pad and its immediate access road only, as long as that portion of the access road it is use on remains on-lease. Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

(1) Lined as specified above and

(2) A temporary or emergency pit may be constructed immediately adjacent to the reserve pit as long as the pit remains within the APD boundary. Mineral material removed from this pit may be used for the construction of this well pad only and its immediate access road, as long as that portion of the access road the material is used on remains on-lease. Removal of any material from the APD boundary for use on other well locations or roads must first be purchased from BLM.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be re-contoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to process by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

CONDITIONS OF APPROVAL - DRILLING

Well Name & No.	Soap Box 1921-4 Federal # 1
Operator's Name:	Parallel Petroleum Corp.
Location:	2123' FNL, 771' FEL, SEC 4, T19S, R21E, Eddy County, NM
BHL:	2111' FNL, 660' FWL, SEC 4, T19S, R21E, Eddy County, NM
Lease:	NM-108921

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: <u>16</u> inch <u>8 5/8</u> inch <u>5 1/2</u> inch

C. BOP tests

2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the N/A Formation. A copy of the plan shall be posted at the drilling site.

3 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.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. 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.

7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The <u>8 5/8</u> inch surface casing shall be set <u>@ APPROXIMATELY 1500 FEET</u>, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified 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 The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall</u> <u>CIRCULATE TO THE SURFACE.</u>

3. Any casing changes, from those in the approved APD, must be approved before they are implemented

4. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 8 5/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

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

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- A variance to test the _____ to the reduced pressure of ____psi with the rig pumps is approved. - The tests shall be done by an independent service company.

- The results of the test shall be reported to the appropriate BLM office.

- 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.

- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

Engineers can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 11/1/06