

N.M. Oil Cons. DIV-Dist. 2
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Alameda, NM 88210
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-0560353	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Chi Operating, Inc. 4378		7. If Unit or CA Agreement, Name and No.	
3a. Address P.O. Box 1799 Midland, TX 79702		8. Lease Name and Well No. 27108 Munchkin Federal No. 9	
3b. Phone No. (include area code) (432) 685-5001		9. API Well No. 30-015-34293	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) 990' FNL & 300' FEL At proposed prod. zone same A Secretary's Potash		10. Field and Pool, or Exploratory Benson Delaware	
14. Distance in miles and direction from nearest town or post office* 16 road miles south of Loco Hills, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 11-T19S-R30E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 300'	16. No. of Acres in lease 2160.32	17. Spacing Unit dedicated to this well 40	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1115'	19. Proposed Depth 5,500'	20. BLM/BIA Bond No. on file NM-1616	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3461' GL	22. Approximate date work will start*	23. Estimated duration 4-6 weeks	

24. Attachments **Capitan Controlled Water Basin**

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>George R. Smith</i>	Name (Printed/Typed) George R. Smith	Date 5/12/05
Title Agent for Chi Operating, Inc.		
Approved by (Signature) /s/ Linda S. C. Rundell	Name (Printed/Typed) /s/ Linda S. C. Rundell	Date AUG 18 2005
Title STATE DIRECTOR	Office NM STATE OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

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

*(Instructions on reverse)

Lease Responsibility Statement: Chi Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**

George R. Smith
George R. Smith, agent

WITNESS 9 5/8" CEMENT JOB

NSL-5233

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

District II
811 South First, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, N M 87505

Form C-102

Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 97083	Pool Name Benson Delaware
Property Code	Property Name MUNCHKIN FEDERAL	Well Number 9
OGRID No. 4378	Operation Name CHI OPERATING, INC.	Elevation 3461

Surface Location

UL or Lot No. A	Section 11	Township 19-S	Range 30-E	Lot Idn.	Feet from the 990	North/South line NORTH	Feet from the 300	East/West line EAST	County EDDY
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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
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I HEREBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
	Signature <i>George R. Smith</i>	Printed Name George R. Smith
	Title Agent	
	Date 5/12/05	
	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 SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
	Date of Survey APRIL 7, 2005	
	Signature of Registered Surveyor <i>[Signature]</i>	

APPLICATION FOR DRILLING

CHI OPERATING, INC.
Munchkin Federal, Well No.9
990' FNL & 300' FEL, Sec. 11-T19S-R30E
Eddy County, New Mexico
Lease No.: NM-0560353
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Chi Operating, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Anhydrite	400'	Delaware	4170'
Yates	2240'	T.D.	5500'
Seven Rivers	2430'		
Queen	3050'		

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 300'.
Oil: Possible in the Queen, Delaware.
Gas: Possible in the Delaware.

4. Proposed Casing Program:

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36.0#	J-55	ST&C	500'	Circ. 400 sx "C" + add.
8 3/4"	7"	23.0#	J-55	LT&C	3,200'	Circ. 450 sx "C" + add. *
6 1/4"	4 1/2"	11.6#	N-80	LT&C	5,500'	1 st stage +/- 500 sx "C" 2 nd stage +/- 700 sx "C"

* NOTE: If severe lost circulation is NOT encountered, the 8 3/4" hole will be reduced at 3200' to 7 7/8" and drill ahead WITHOUT setting the 7" casing. See following casing program.

7 7/8"	5 1/2"	17.0#	J-55	LT&C	5,500'	Circ in 2 stages: 1200 sx of "C"
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5. Proposed Control Equipment: A 10" 3000 psi wp Shaffer Type "E" double hydraulic ram BOP will be installed on the 9 5/8" casing and will be used as a 2,000 psi system. Casing and BOP will be tested before drilling out with 8 3/4" and will be tested weekly. See Exhibit "E".

MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
0' - 500':	Fresh water mud:	8.4 - 8.7 ppg	32 - 34	No W/L control
500' - 3200':	Brine mud:	10.0 ppg	29 - 30	No W/L control
3200' - 5500':	Brine mud:	10.0 ppg	29 - 32	No W/L control
Without Intermediate casing:				
0' - 500':	Fresh water spud mud	8.4 - 8.7 ppg	32 - 34	No W/L control
500' - 5500':	Brine mud	10.0 ppg	29 - 30	W/L cont. < 15 cc @ TD

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None.
Logging: T.D thru pay: GR-CAL-CNL-LDT-DLL-MICRO
T.D. to Surface: GR-Neutron
Coring: Rotary Sidewall: as dictated by logs.

Chi Operating, Inc.
Munchkin Federal, Well No.9
Page 2

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated evacuated BHP = 2420 with a temperature of 115°.
10. H₂S: None expected.
11. Anticipated starting date: June 15, 2005
Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

CHI OPERATING, INC
Munchkin Federal, Well No. 9
990' FNL & 300' FEL, Sec. 11 -T19S-R30E
Eddy County, New Mexico
Lease No.: NM-0560353
(Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Hackberry Lake Topo map showing the location of the proposed well as staked. The well site location is approximately 36 road miles southeast of Artesia, NM. Traveling east of Artesia on U.S. Highway 82, NM Hwy 360 and county roads No. 250 and 251, there will be 33 miles of paved highway, plus 3 miles of existing gravel oilfield roads.
- B. Directions: Travel east from U. S. Highway #285 in Artesia, NM on U. S. Highway 82 for approximately 14 miles, turn southeast on NM Hwy 360 for approximately 13 miles to paved County Rd #251. Turn north on #251 for 1.8 mile to County Rd. # 250, then turn right on #250 for 3.8 miles to top of Nimenim Ridge. Turn south onto a gravel oilfield road just west of a cattle guard with a pipeline buried near the road. Continue south for .8 mile to a large tank battery and water injection pump house; turn right (west) for .25 mile to a pump jack, then south (left) for .63 mile to a P/A well site with a gas line tap. Turn right (west) for .3 mile, then south .25 mile to the Munchkin Fed. #1 well site. Turn west, north of the #1, for .2 mile to the access road on the left (south) side. Follow this road southeast then south to the southwest corner of the Munchkin Fed. #4 well pad. Turn southwest to the Munchkin Fed. #6 well pad. The proposed access road will start on the southwest corner of this well pad and run southwest for 900' to the southeast corner of the proposed well pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be constructed to a width of 12 feet (24' Max.) and approximately 900 feet in length. The proposed and existing roads are color coded on Exhibit "A".
- B. Construction: The new access road will be constructed by grading and topping with compacted caliche.
- C. Turnouts: None required.
- D. Culverts: One turnout may be built increasing the width to 20 feet for passing.
- E. Cuts and Fills: There will be minor cuts and leveling across small dune areas.
- F. Gates, Cattle guards: One cattleguard will be required near the midpoint.
- G. Off Lease ROW: An off lease ROW No. NM-102279 was issued with a previous APD covering the existing access road in the E2 of Sec. 1-T19S-R30E.

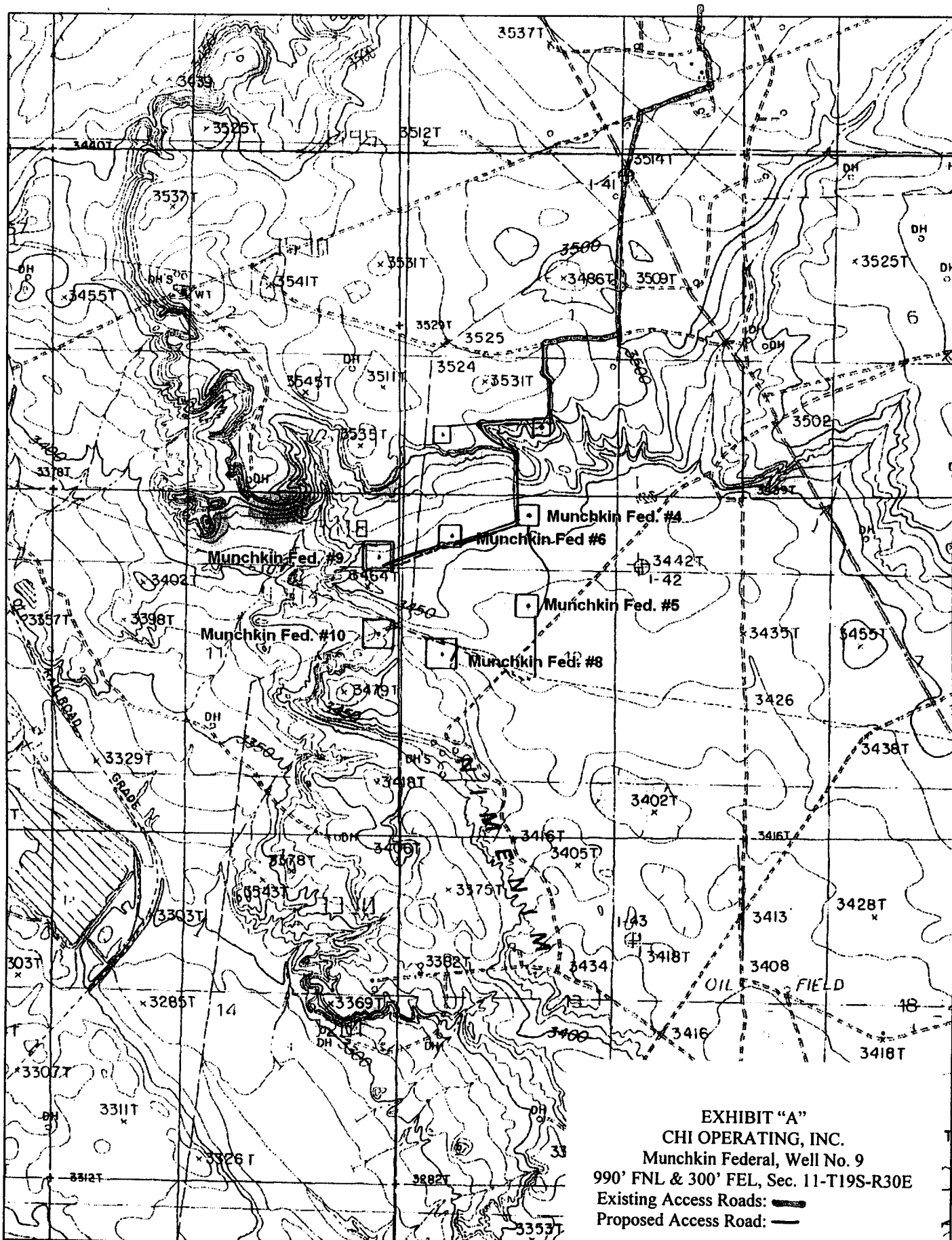
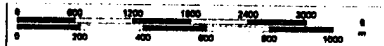


EXHIBIT "A"
 CHI OPERATING, INC.
 Munchkin Federal, Well No. 9
 990' FNL & 300' FEL, Sec. 11-T19S-R30E
 Existing Access Roads:
 Proposed Access Road:

DELORME

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 www.delorme.com

Scale 1 : 24,000
 1" = 2000 ft



RIG #

BLOWOUT PREVENTOR ARRANGEMENT

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

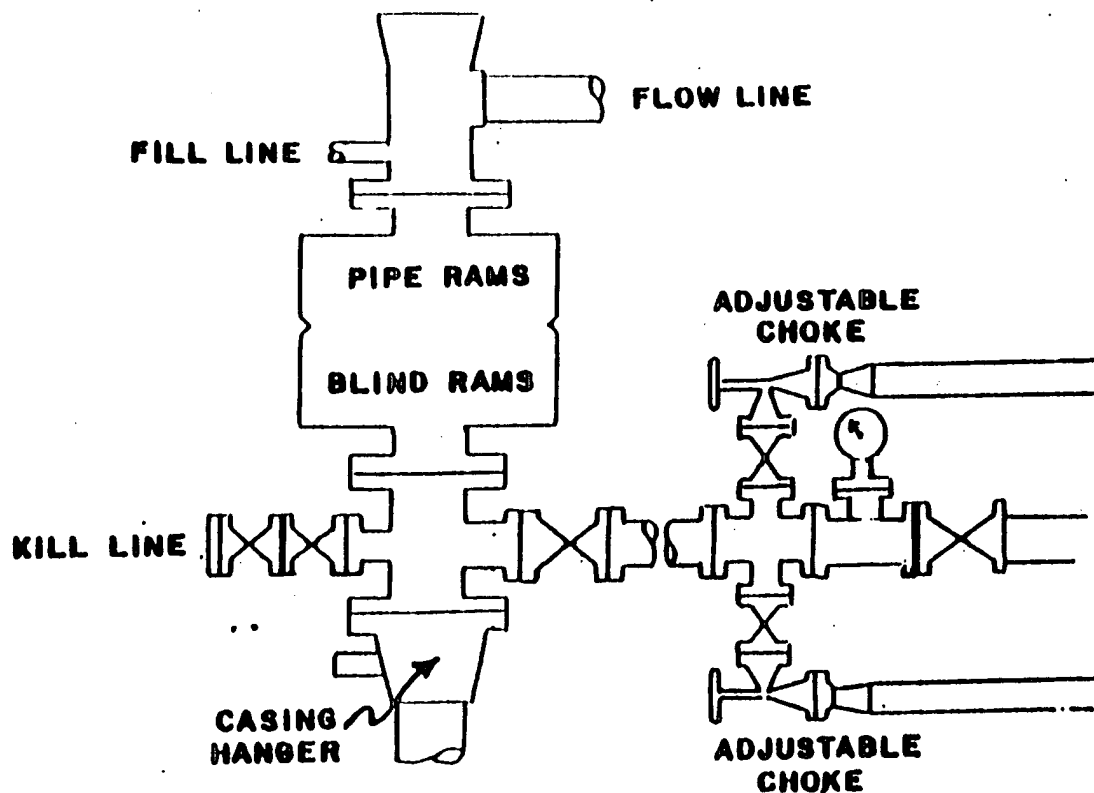


EXHIBIT "E"
CHI OPERATING, INC.
Munchkin Federal, Well No. 9
BOP Specifications

CONDITIONS OF APPROVAL - DRILLING

Well Name & No. 9 - MUNCHKIN FEDERAL
Operator's Name: CHI OPERATING, INC
Location: 990' FNL & 300' FEL - SEC 11- T19S - R30E - EDDY COUNTY
Lease: NM-0560353

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - 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: 9-5/8 inch 7 inch 4-1/2* or 5-1/2 inch

***If 7" casing is set will reduce hole to 6-1/4" and set 4-1/2" casing - If there are no hole problems 7" casing will not be set and hole will be reduced to 7-7/8" and set 5-1/2" casing**

C. BOP tests

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. 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.

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

5. 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 9-5/8 inch surface casing shall be set at 500 feet, 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 7 inch salt protection casing is circulate cement to the surface. Note: If 7" casing is run due to hole problems it should be set between 1800 feet and 2300 feet in accordance with R-111-P order and comparison with offset well 2- Land Rush Federal - 660' FNL & 660' FEL - SEC 12 - T19S - R30E - Top of Salt @ 560' - Bottom of Salt @ 1700'.

3. The minimum required fill of cement behind the 4-1/2 or 5-1/2 inch production casing is circulate cement to the surface.

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 9-5/8 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.
 - - 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.