

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

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

WELL API NO. 30-015-20964
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2023-13
7. Lease Name or Unit Agreement Name SOUTH EMPIRE DEEP UNIT
8. Well Number 004
9. OGRID Number 229137
10. Pool name or Wildcat EMPIRE WOLFCAMP SOUTH

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
COG OPERATING LLC

3. Address of Operator
600 W. ILLINOIS AVE., MIDLAND, TEXAS 79701

4. Well Location
 Unit Letter: G ; 1980 feet from the NORTH line and 2230 feet from the EAST line
 Section 32 Township 17S Range 29E NMPM EDDY County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,583' - GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 1) TAG EXISTING 5-1/2" CIBP+CMT. @ +/-8,548'; PUMP 25 SXS. CMT. @ 8,548'-8,368'.
- 2) SET 5-1/2" CIBP @ 7,700'; PUMP 35 SXS. CMT. @ 7,700'-7,480' (T/WC); CIRC. WELL W/ PXA MUD.
- 3) PERF. X ATTEMPT TO SQZ. 60 SXS. CMT. @ 5,415'-5,265' (T/B.S.).
- 4) PERF. X ATTEMPT TO SQZ. 55 SXS. CMT. @ 4,454'-4,314' (T/GLOR.).
- 5) CUT X PULL 5-1/2" CSG. @ +/-3,341'.
- 6) PUMP 55 SXS. CMT. @ 3,406'-3,276' (5-1/2" CSG.CUT, 8-5/8" CSG.SHOE); WOC X TAG CMT. PLUG.
- 7) PERF. X SQZ. 210 SXS. CMT. @ 942'-592' (T/YATES, T/ANHY., B/SALT, T/SALT); WOC X TAG CMT. PLUG.
- 8) PERF. X ATTEMPT TO SQZ. 65 SXS. CMT. @ 449'-349' (11-3/4" CSG.SHOE); WOC X TAG CMT. PLUG.
- 9) PERF. X CIRC. TO SURF., FILLING ALL ANNULI, 40 SXS. CMT. @ 63'-3'.
- 10) DIG OUT X CUT OFF WELLHEAD 3' B.G.L.; WELD ON STEEL PLATE TO CSGS. X INSTALL DRY HOLE MARKER.

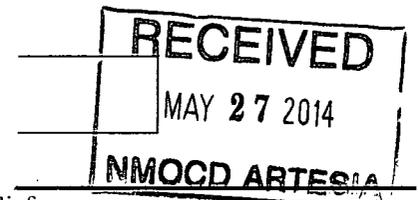
DURING THIS PROCEDURE WE PLAN TO USE THE CLOSED-LOOP SYSTEM W/ A STEEL TANK AND HAUL CONTENTS TO THE REQUIRED DISPOSAL, PER OCD RULE 19.15.7.14 NMAC. CONDITIONS OF APPROVAL ATTACHED

Approved for plugging of well bore only.
 Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging) which may be found at OCD Web Page under Forms. www.emnr.state.nm.us/oed.

Spud Date:

Approval Granted providing work is Completed by

6/6/2015



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

David A. Eyer

TITLE: AGENT

DATE: 05/23/14

Type or print name: DAVID A. EYLER

E-mail address: DEYLER@MILAGRO-RES.COM

PHONE: 432.687.3033

For State Use Only

APPROVED BY:

JD Wade

TITLE: District Supervisor

DATE: 6/6/2014

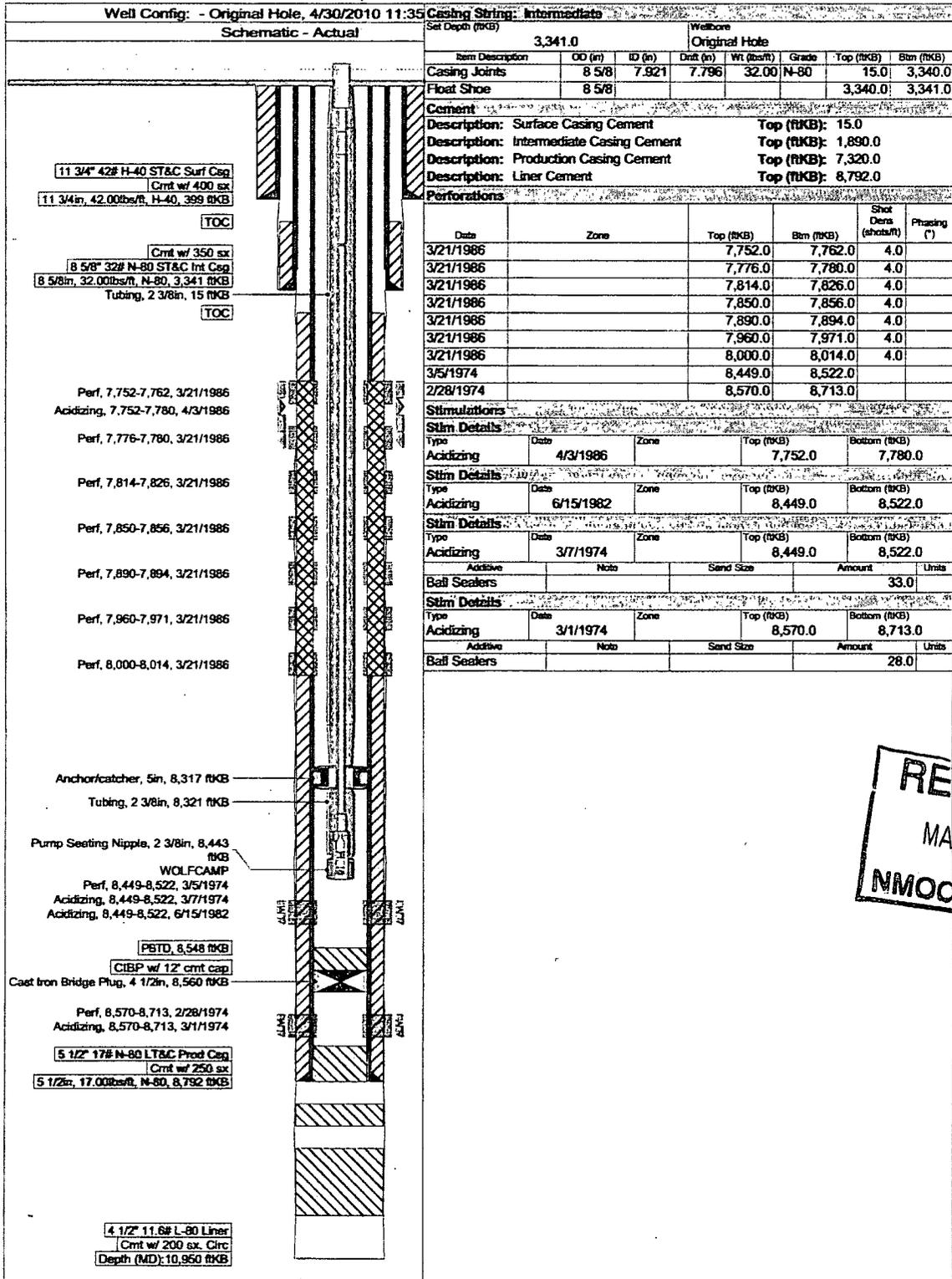
Conditions of Approval (if any):

* See Attached COA's

CURRENT WELLBORE SCHEMATIC

WELL: EMPIRE SDU 4 (3 RIVERS)
FIELD: EMPIRE WOLFCAMP SOUTH
COUNTY / STATE: EDDY / NEW MEXICO
LOCATION: 2,230.0 FEL & 1,980.0 FNL OF THE SVY, SEC 32, A-
ELEVATION: 3,583.00 GR 3,598.00 RKB

PN: 890428 
API: 3001520964
SPUD DATE: 11/25/1973
RIG RELEASE: 11/25/1973
FIRST SALES:



Well Config: - Original Hole, 4/30/2010 11:35		Casing String: Intermediate		Wellbore	
Schematic - Actual		Set Depth (ftKB)		Original Hole	
		3,341.0			
Item Description	OD (in)	ID (in)	Drift (in)	WT (lbs/ft)	Grade
Casing Joints	8 5/8	7.921	7.796	32.00	N-80
Float Shoe	8 5/8				
				Top (ftKB)	Botn (ftKB)
				15.0	3,340.0
Cement				Top (ftKB): 15.0	
Description: Surface Casing Cement				Top (ftKB): 1,890.0	
Description: Intermediate Casing Cement				Top (ftKB): 7,320.0	
Description: Production Casing Cement				Top (ftKB): 8,792.0	
Description: Liner Cement					
Perforations					
Date	Zone	Top (ftKB)	Botn (ftKB)	Shot Dens (shots/ft)	Phasing (°)
3/21/1986		7,752.0	7,762.0	4.0	
3/21/1986		7,776.0	7,780.0	4.0	
3/21/1986		7,814.0	7,826.0	4.0	
3/21/1986		7,850.0	7,856.0	4.0	
3/21/1986		7,890.0	7,894.0	4.0	
3/21/1986		7,960.0	7,971.0	4.0	
3/21/1986		8,000.0	8,014.0	4.0	
3/5/1974		8,449.0	8,522.0		
2/28/1974		8,570.0	8,713.0		
Stimulations					
Stim Details					
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)	
Acidizing	4/3/1986		7,752.0	7,780.0	
Stim Details					
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)	
Acidizing	6/15/1982		8,449.0	8,522.0	
Stim Details					
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)	
Acidizing	3/7/1974		8,449.0	8,522.0	
Ball Sealers					
Additive	Note	Sand Size	Amount	Units	
				33.0	
Stim Details					
Type	Date	Zone	Top (ftKB)	Bottom (ftKB)	
Acidizing	3/1/1974		8,570.0	8,713.0	
Ball Sealers					
Additive	Note	Sand Size	Amount	Units	
				28.0	

RECEIVED
MAY 27
NMOOD

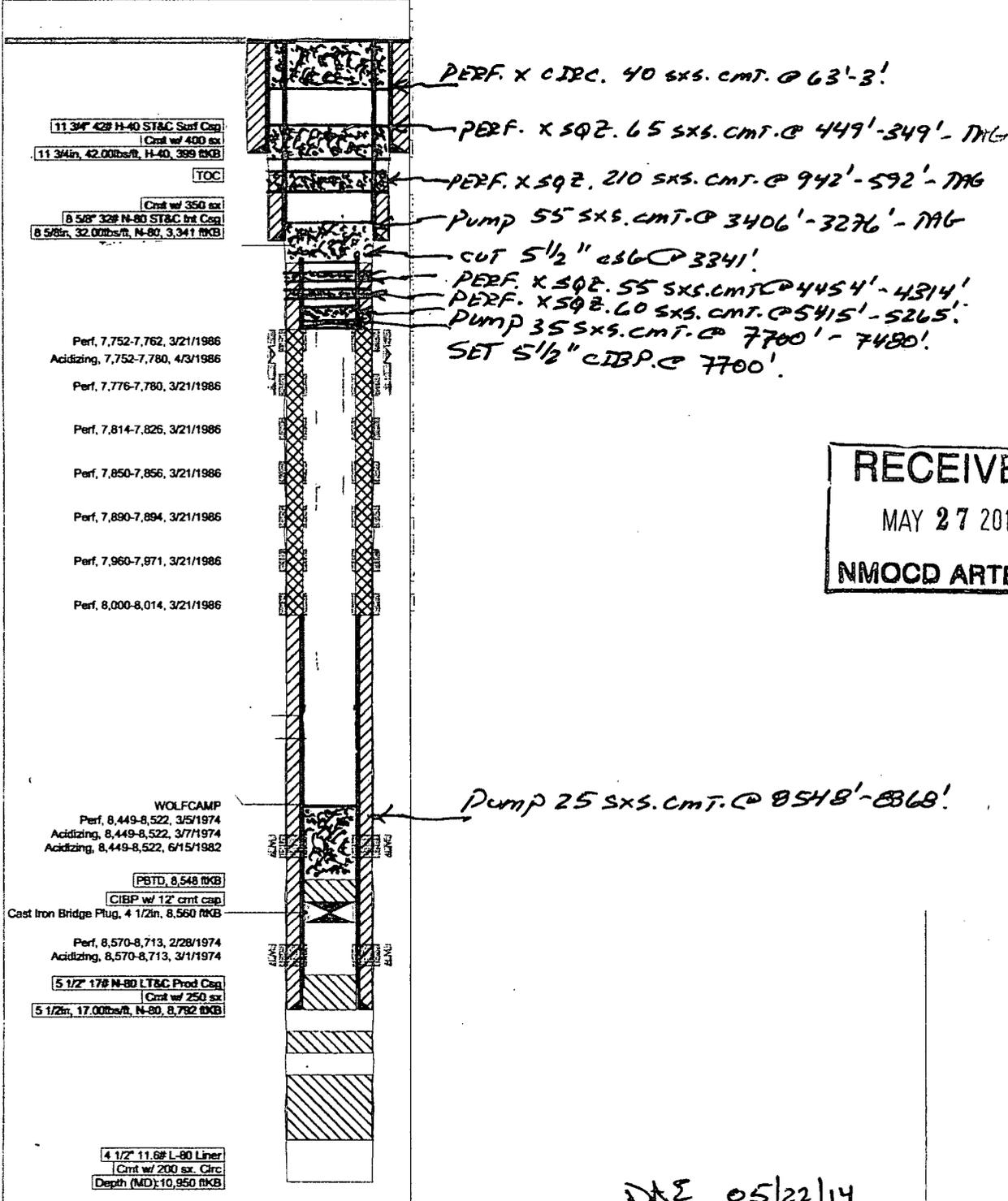
Well History	
Date	Event
2/28/1974	Perfs: 8570'-73', 94', 95', 8651'-53', 55', 57', 59', 61', 65', 70', 74', 77', 81', 89', 91', 94', 97', 8712', 13'
3/1/1974	ACDZ 8570'-713' w/ 3000 gal.
3/5/1974	Perf: 8449', 53', 58', 60', 63', 65', 68', 70', 72', 74', 76', 78', 81', 86', 8503', 05', 07', 09', 14', 19', 22'
3/5/1974	ACDZ 8449-8522' w/ 3000 gal 15% HCl
6/15/1982	ACDZ 8449-8522' w/ 1825 gal 15% HCl
3/16/1986	Perfs: 7752'-62', 7776'-80', 7814'-26', 7850'-56', 7890'-94', 7960'-71', 8000'-8014'
4/3/1986	All perforations are in Wolfcamp zone. Total production is 2.5 BCF and 448 MBBLS from 03/74 to 01/07.
4/3/1986	ACDZ 7752'-780' w/ 1000 gal 15% NeFe HCl
4/16/1986	SOZ perfs @ 7752'-8014' w/ 200 sx.

CURRENT WELLBORE SCHEMATIC

WELL: EMPIRE SDU 4 (3 RIVERS)
 FIELD: EMPIRE WOLFCAMP SOUTH
 COUNTY / STATE: EDDY / NEW MEXICO
 LOCATION: 2,230.0 FEL & 1,980.0 FNL OF THE SVY, SEC 32, A-
 ELEVATION: 3,583.00 GR 3,598.00 RKB

PN: 890428 Chesapeake
 API: 3001520964
 SPUD DATE: 11/25/1973
 RIG RELEASE: 11/25/1973
 FIRST SALES:

Well Config: - Original Hole, 4/30/2010 11:35
 Schematic - Actual



Well History	
Date	Event
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4/3/1986	ACDZ 7752'-780' w/ 1000 gal 15% NeFe HCl
4/16/1986	ISQZ perfs @ 7752'-8014' w/ 200 sx.

NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT 2 OFFICE
811 S. FIRST STREET
ARTESIA, NM 88210
(575)748-1283

CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT

Operator: COG

Well Name & Number: South Empire Deep Unit #4

API #: 30-015-20964

1. Produced water **will not** be used during any part of the plugging & abandonment operation.
2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.
3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.
4. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator, as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.
5. A subsequent C-103 will serve as notification that the well bore has been plugged **ONLY**. A C-103 **FINAL** shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.
6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.
7. Every attempt must be made to clean the well bore out to below the perfs, before any plugs can be set, by whatever means possible.
8. **Cement Retainers may not be used.**

9. Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.
10. Plugs may be combined after consulting with and getting approval from NMOCD.
11. Minimum WOC time for tag plugs will be 4 Hrs.

DATE: 6/6/14

APPROVED BY: *APDach*

GUIDELINES FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.

- Formations to be isolated with plugs placed at the top of each formation are:
 - Fusselman
 - Devonian
 - Morrow
 - Wolfcamp
 - Bone Spring
 - Delaware
 - Any Salt Section (Plug at top and bottom)
 - Abo
 - Glorieta
 - Yates (this plus is usually at base of salt section)

- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- In the R-111-P area (Potash Mine area) a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts common to the section penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).