

Submit 3 Copies to Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

**ACCEPTED FOR RECORD**  
FEB 15 2008  
Gerry Guye, Deputy Field Inspector  
NMOCD-District II ARTESIA

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

WELL API NO. <b>30-015-21842</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>City of Carlsbad</b>
8. Well Number <b>1</b>
9. OGRID Number
10. Pool name or Wildcat <b>Brine Mining Well</b>

1. Type of Well: Oil Well ☐ Gas Well ☐ Other **Brine**

2. Name of Operator  
**Key Energy Services, LLC**

3. Address of Operator  
**6 Desta Drive, Suite 4400, Midland, Texas 79705**

4. Well Location  
Unit Letter **H**, **2420** feet from the **North** line and **330** feet from the **East** line  
Section **36** Township **22S** Range **26E** NMPM **Lea** County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application ☐ or Closure ☐ **Not applicable**

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

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

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> OTHER: <input type="checkbox"/>	<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See Attached wellbore diagram for details.

Key Energy plans to plug and abandon this well. The well is a brine well under Permit# M19264. Key Energy will drill a new brine well nearby into the same salt section at a future date. The salt section is from 710 to 930'.

In early 2008, four separate attempts to squeeze a casing leak between 95-105' were performed. The last attempt pumped 59 bbls of cement at an AIR of 0.8 bpm, AIP 1250 psi. After drilling out cement a pressure test of 300 psi bled back to 200 psi in 5 minutes. A subsequent temperature survey showed the squeeze cement to be positioned outside casing from 70-160 feet.

**Proposed P&A procedure:**

Set cement retainer at 600' (whipstock top at 628')

Pump 100 sx of Class C cement below retainer.

POOH to 100 feet, place cement plug from 100-600 feet. WOC. Tag top of cement plug.

Pump cement to fill casing to surface. Repeat, if necessary, until TOC remains at surface.

Cut off casing stubs, place P&A marker.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE M. Duffey TITLE Agent for Key Energy

DATE 2-7-2008

Type or print name  
**For State Use Only**

**ORIGINAL**

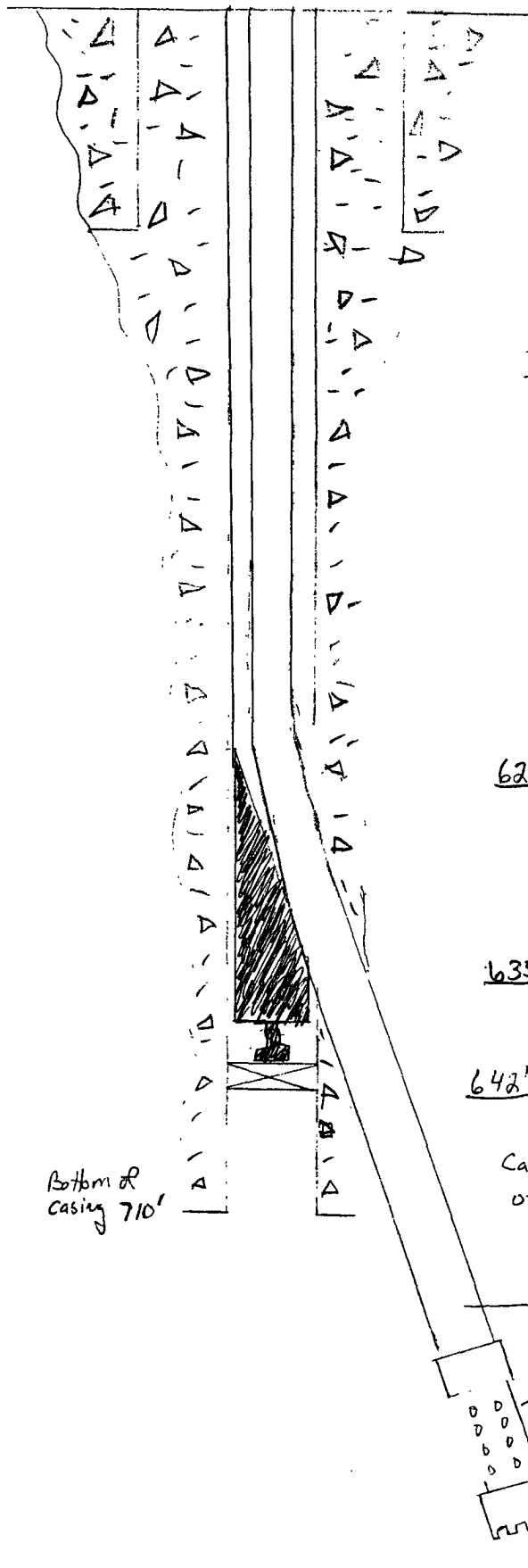
E-mail address:

Telephone No.

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

City of Carlsbad #1  
 Truckee Drive  
 Current Wellbore Status  
 4-25-03



350' - 8 5/8" 20# 2-SS Casing  
 Cemented w/ 150 sxs Class "C" + 4% CaCl<sub>2</sub>  
 Circulated to surface  
 27' csg joints

710' - 5 1/2" 15.5# Csg  
 Cemented w/ 150 sxs Class "C" + 4% CaCl<sub>2</sub>  
 Circulated to surface  
 32' csg joints

628' - Top of whipstock

635' - Bottom of whipstock

642' - Bridge plug set

Casing at 692' down to bottom  
 of csg at 710' is bad

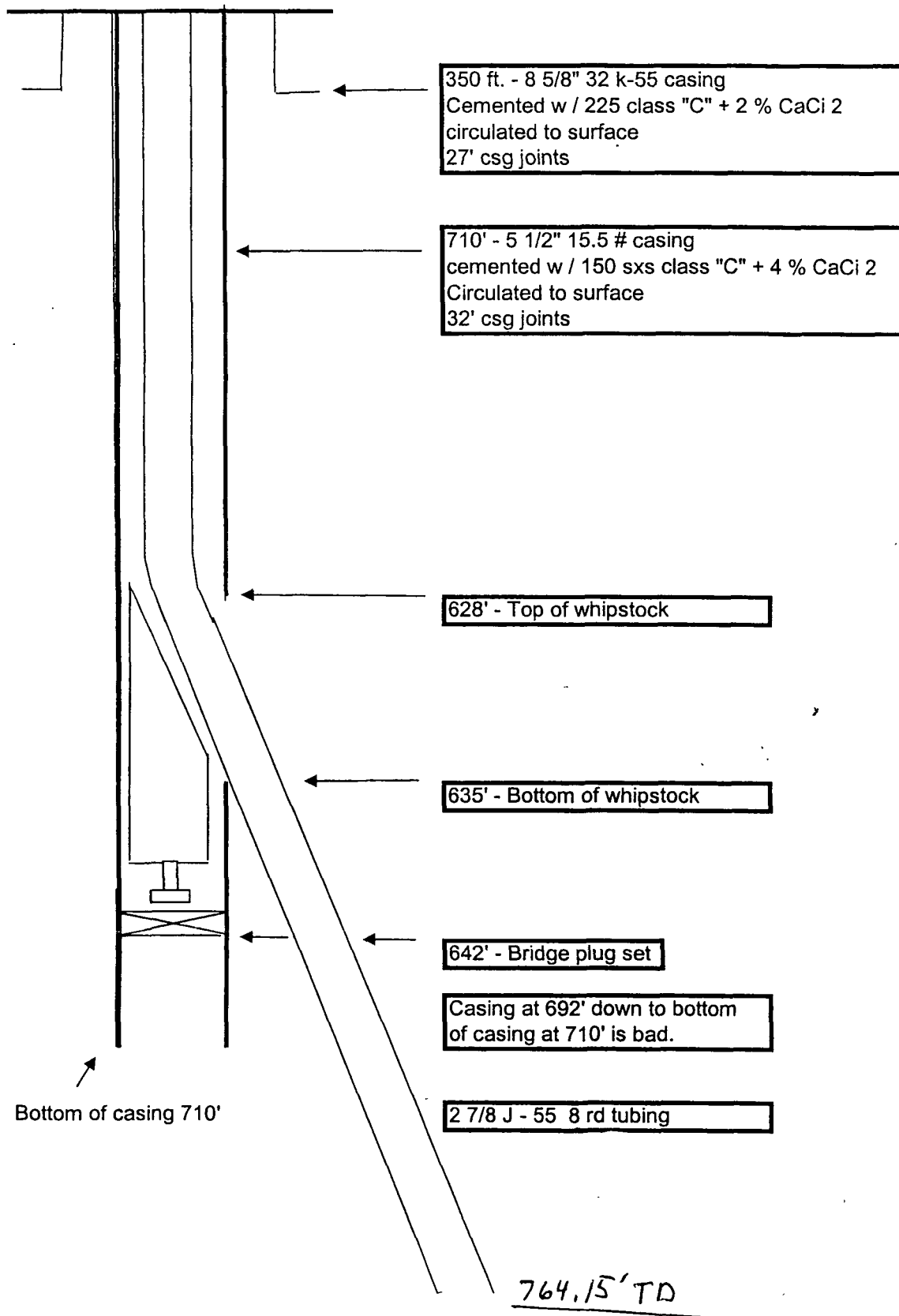
2 7/8 5-SS 8rd tubing

8' Perforated sub

Slotted collar

764.15' TD

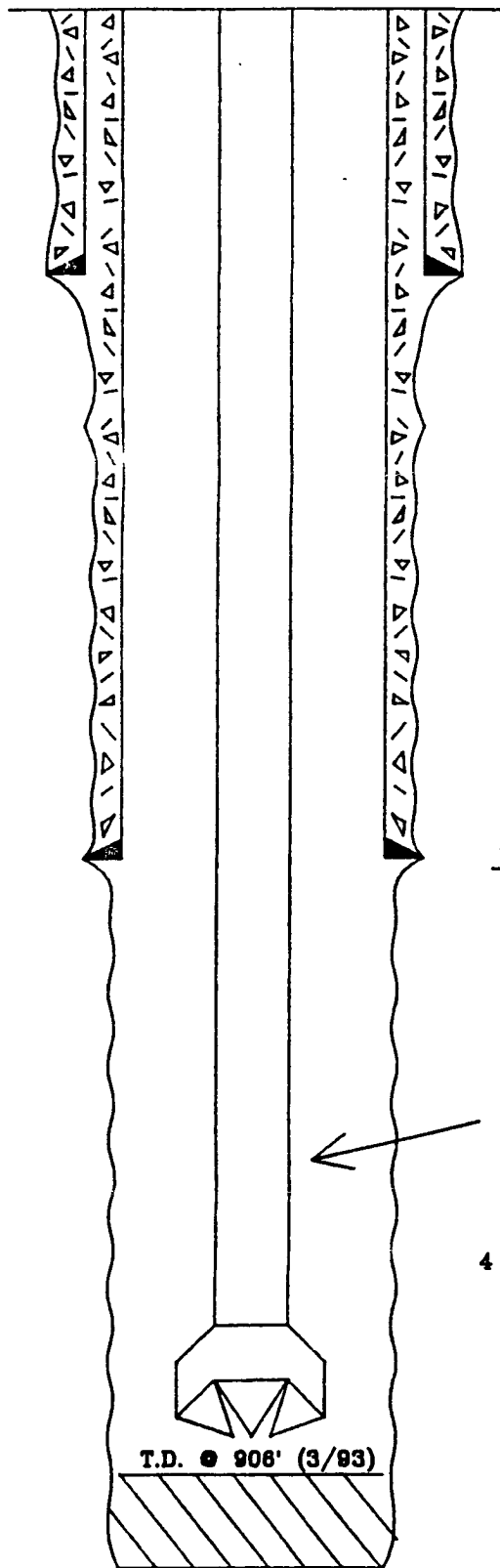
Key Energy Services  
 City of Carlsbad Well #1  
 2420' FNL + 330' FEL  
 S 36 T 22 S R 26 E ULH  
 Eddy Co. New Mexico



Elevation 3199'

# Current Wellbore Status

3/25/93



350' - 8 5/8", 32#, K-55 Casing ✓

Cemented w/225 sxs Class "C" + 2% CaCl<sub>2</sub>

Circulated cement to surface

710' - 5 1/2", 15.5#, Casing ✓

Cemented w/150 sxs Class "C" + 4% CaCl<sub>2</sub>

Circulated 15 sxs to surface

2 7/8", 6.5#, 8rd tubing @ 886'

with 4 3/4" bit welded on bottom collar

4 3/4" Hole

T.D. @ 906' (3/93)

Original T.D. @ 930' ✓

ROWLAND TRUCKING, INC.
City of Carlsbad Well No. 1
2420' FNL & 330' FEL
Section 36, T-22S, R-26E
Eddy County, New Mexico

**Guye, Gerry, EMNRD**

**From:** Guye, Gerry, EMNRD  
**Sent:** Wednesday, February 13, 2008 1:36 PM  
**To:** Price, Wayne, EMNRD  
**Subject:** Key - City of Carlsbad #1

**Tracking:** Recipient                      Read

Price, Wayne, EMNRD Read: 2/14/2008 11:37 AM

Wayne

Have you seen the C-103 (Notice of Intent to Plug/Abandon) for this well?

The copy I got was marked "Original - copy to Wayne Price".\

Did you want us to approve this request, if so I have some issues with it.

Please let me know.

***Gerry Guye***

**Compliance Officer**

**NMDCD - Artesia**

**Office (505)748-1283x105**

**Mobile (505)626-0843**

**E-Mail: gerry.guye@state.nm.us**

2/15/2008