

Leivadas Co
GW 16007
J-33

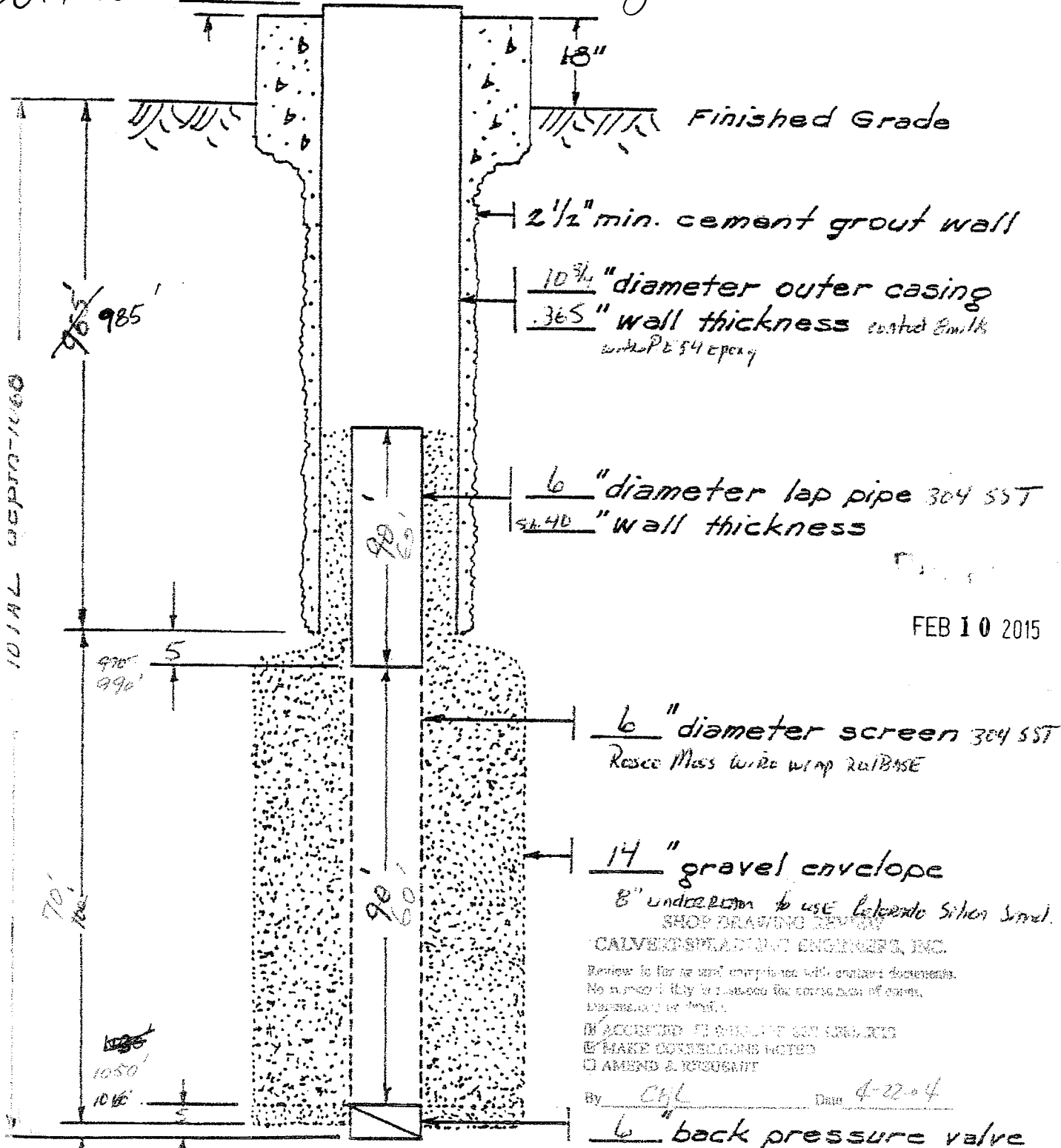
4973 GARDEN LAKE DR.
Elie Branch MS 38654

Town of ARTESIA MS.
9/19/04

Armadillo, Inc.

Town of Artesia

MS0440001-044



FEB 10 2015

6" diameter screen 304 SST
Rosco Mass wire wrap 2x1/4"

14" gravel envelope
B" underlain to use Colorado Silicon Sand.

CALVERD SPREADING ENGINEERS, INC.
Review is for use and compliance with existing documents.
No responsibility is assumed for correction of errors.
Errors will be noted.
DO NOT ACCEPTED TO BE USED FOR CONSTRUCTION
DO NOT MAKE CORRECTIONS NOTED
DO NOT AMEND & RESUBMIT

By CHL Date 4-22-04

6" back pressure valve

Project Town of Artesia

MSDK Data
Data drilled 9/30/2006
Pump Capacity 200 gpm

JAM
2-10-15

33-24-53
88-38-39
SW, NE, S20, T18N, R16E

1011AL DEPTO-1060

ARTESIA

FEB 10 2015

MS0440001-04

MISSISSIPPI OFFICE OF GEOLOGY

2525 N. West St
Jackson, MS 39216

GW 16007

ELOG FILE#: J-0033

SEC: 20 TWN: 18N RNG: 16E

NW/4,NW/4,SW/4,NE/4

LAT: 332452N LNG: 883839W

ELEV: 225' DATE: 4/13/04

COUNTY: LOWNDES

STATE: MISSISSIPPI

DRILLING CONTRACTOR:

ARMADILLO, Inc.

Subcont - T.M. PARKS

CLIENT/OWNER: TOWN of ARTESIA

WELL ID N/A LOG TIME

BOREHOLE DATA

FLUID LEVEL: GROUND LEVEL

DATE DRILLED: 4/6/04 TIME SINCE CIRC: 1/2 hr

DRILL METHOD: MUD ROTARY

VISCOSITY:

HOLE MEDIUM: FLUID

MUD TYPE: NAT/GEL

WEIGHT:

Rm: at Deg

LOGGER TD: 1125'

DRILLER TD: 1126'

DEPTH REF: Ground Level

| RUN | BIT RECORD | | | CASING RECORD | | |
|-----|------------|----------|---------|---------------|---------|-------|
| | NO. | Bit Size | From To | Size/Wgt/Thk. | From To | To |
| 1 | 7.875" | 0' | 1126' | OPEN HOLE | 0' | 1126' |
| 2 | | | | | | |

GENERAL DATA

LOGGED BY: MARK TEAGUE

OTHER SERVICES:

WITNESS: SCOTT WOODWARD

UNIT/TRUCK: MT.SOPRIS

DIGITAL FILE NAME(S)

REMARKS: ELD123087J0033A;ELD523087J0033B

ELEVATION FROM TOPO MAP

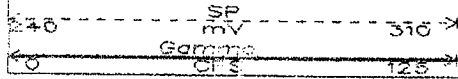
LAT/LON FROM GPS

***WELL DRILLING SUBCONTRACTED OUT

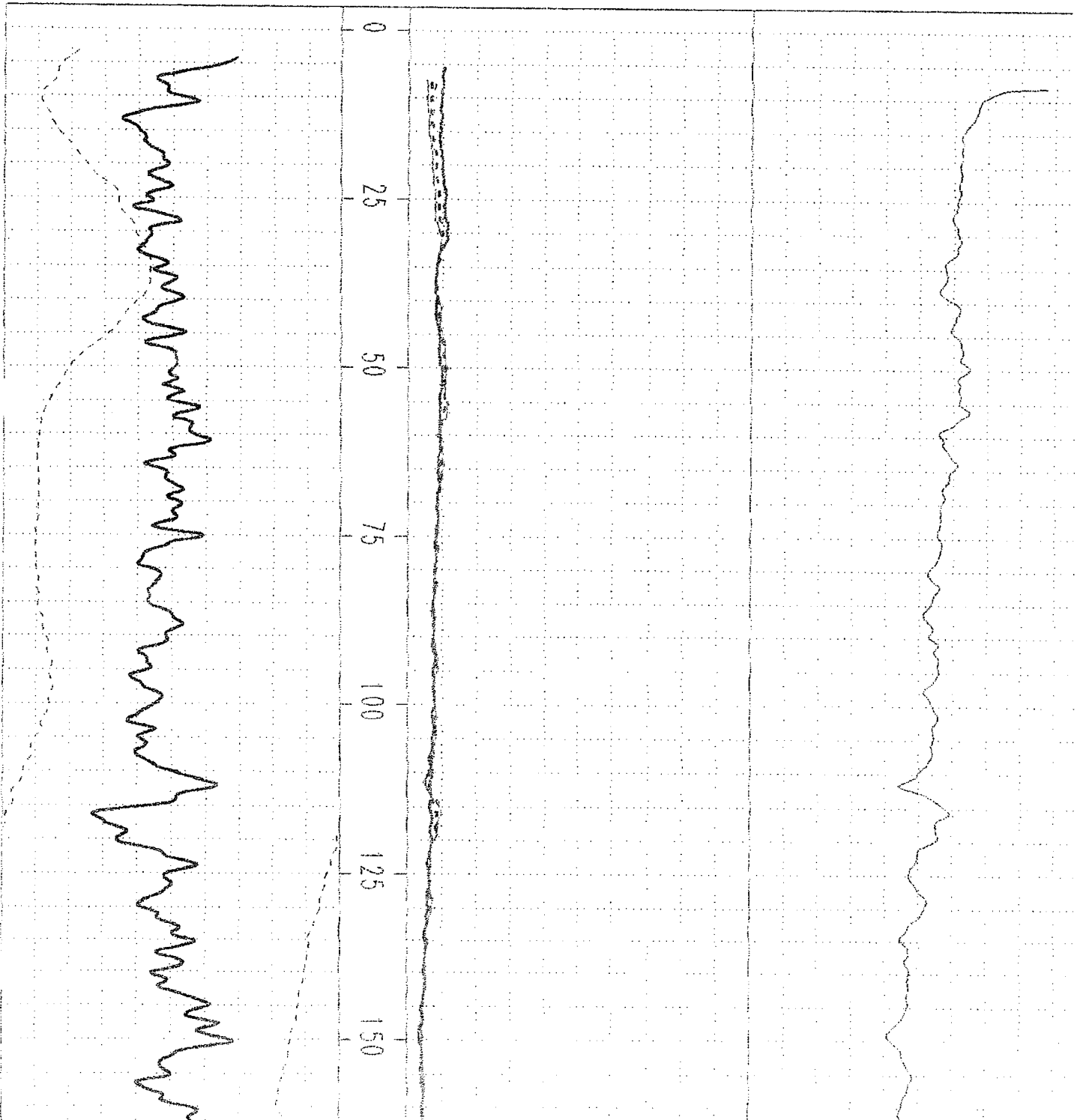
TO T.M. PARKS...TO LET MONTE KEOWN

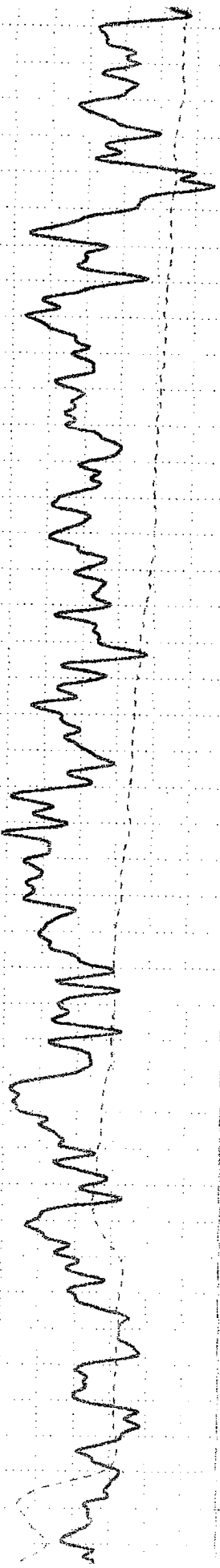
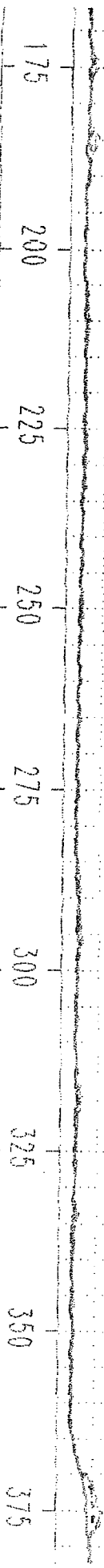
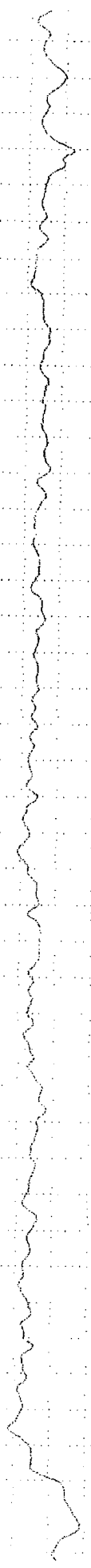
GET MARRIED...CONGRATULATIONS FROM MOG!!!

LOGTYPE: 8",16",32",64" Normal, SP, Single Point Resistance, Gamma

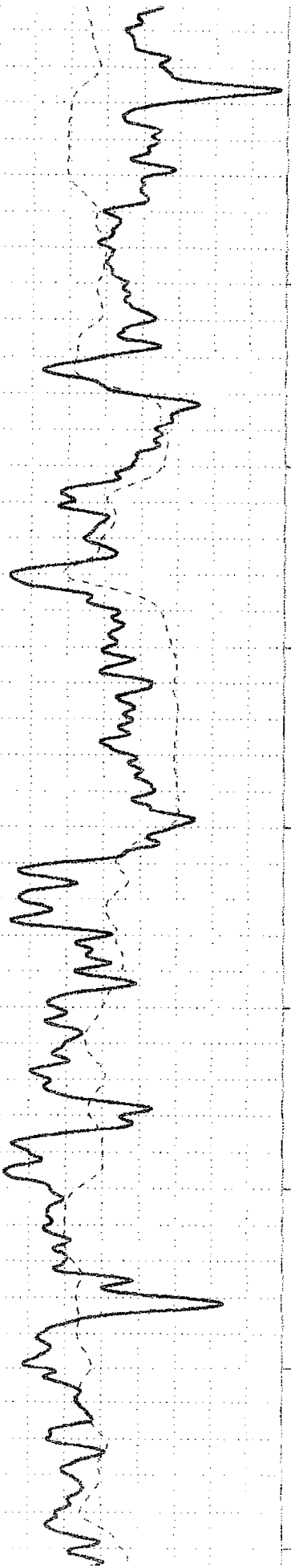
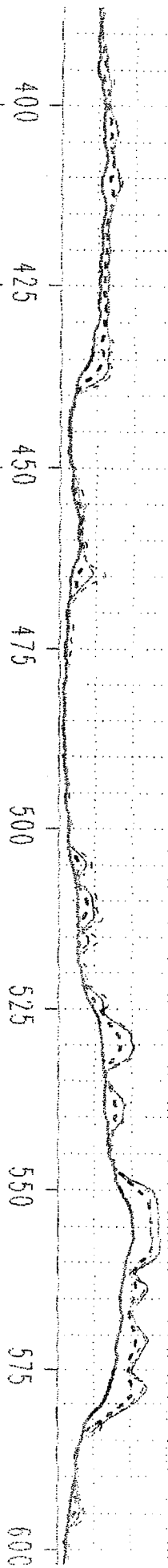


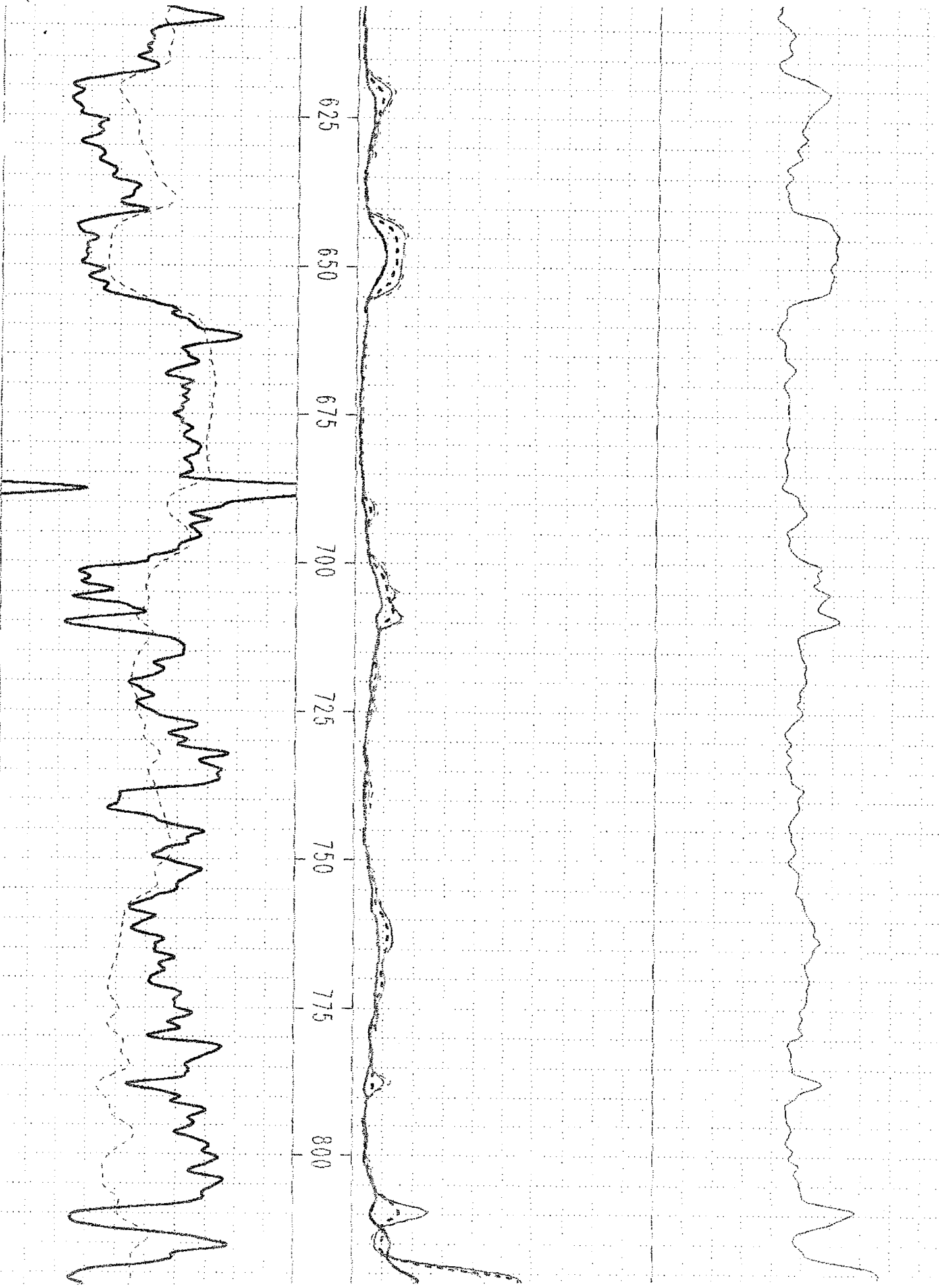
| Symbol | Label | Value |
|--------|---------|-------|
| — | R10 | 150 |
| — | ohm-1.3 | 350 |
| - - - | R15 | 355 |
| — | R16 | 350 |
| - - - | R17 | 350 |
| - - - | ohm-1.3 | 350 |
| - - - | ohm-1.3 | 350 |

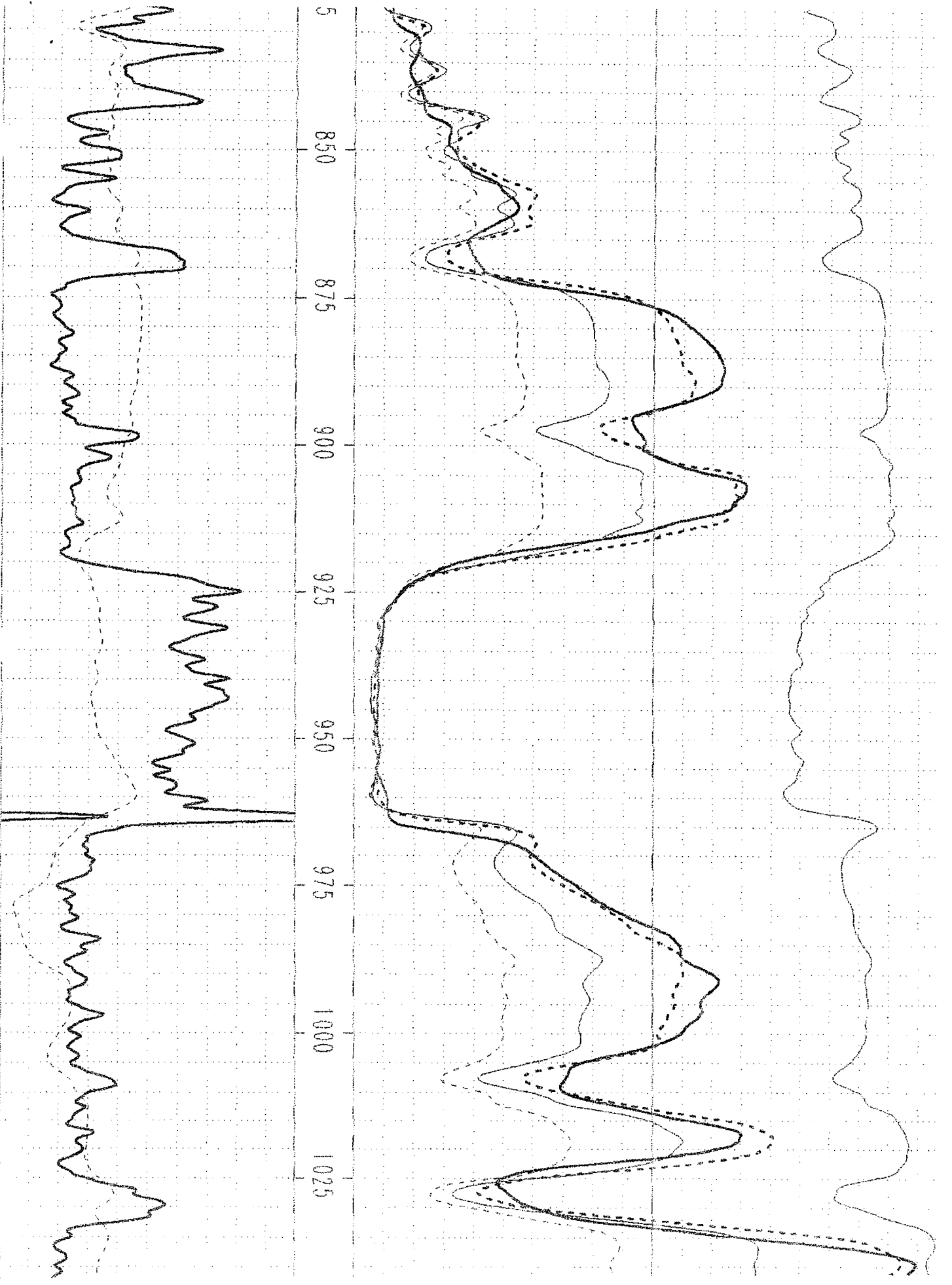


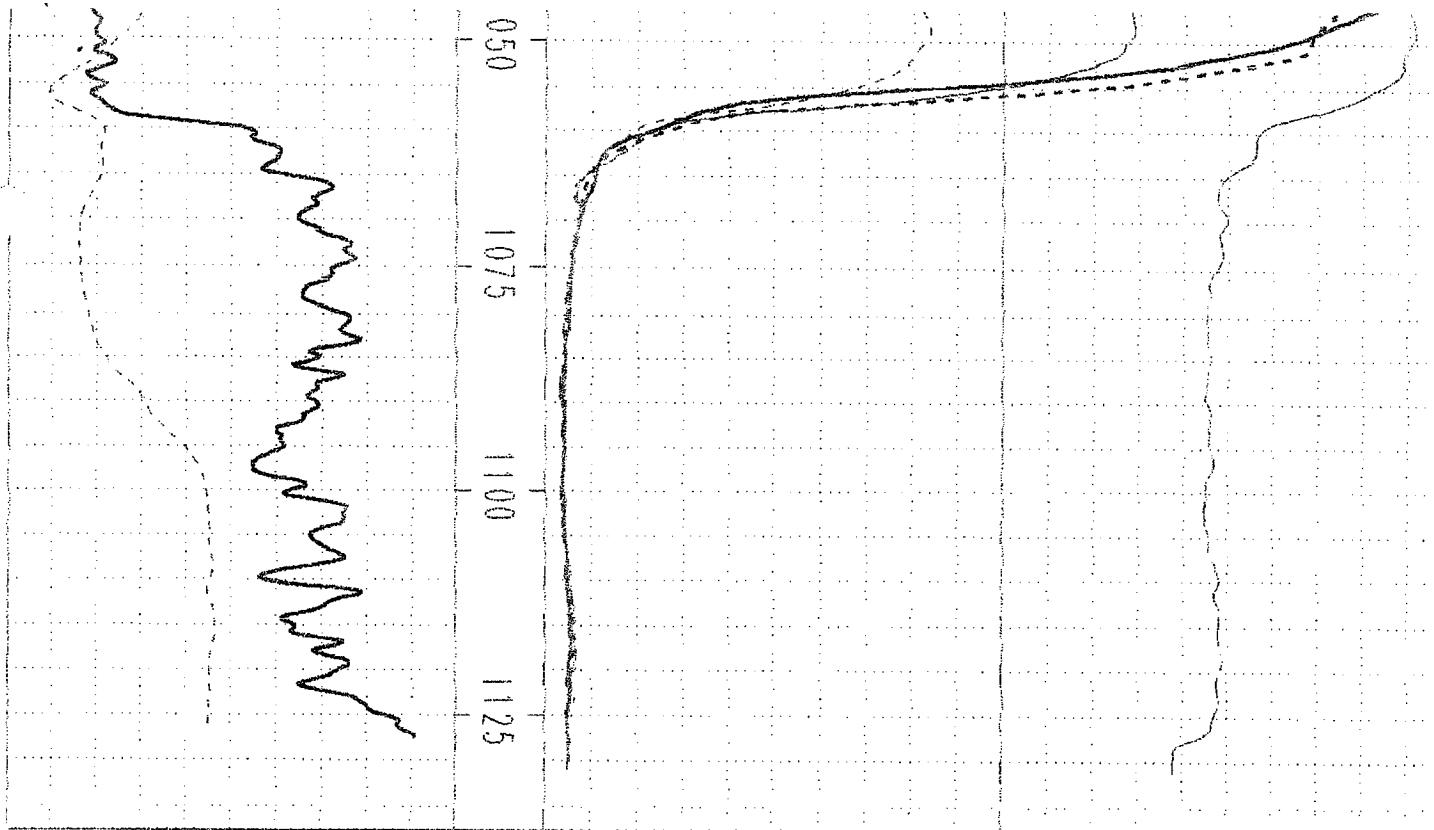


175 200 225 250 275 300 325 350 375









Gamma
 0 123
 SP
 240 310
 mV

R8
 ohm-m 350
 R16
 ohm-m 350
 R32
 ohm-m 350
 R64
 ohm-m 350
 R
 ohms 150

(C: ELOG TMAPKSL.ECO)

Town of Artesia

Lewins Co
J-33

Roscoe Moss Company

Specification Sheet Wire Wrap Screen Stainless Steel type 304

| | |
|----------------------------------|---------------|
| CWW Diameter | 8.625 |
| Screen Length | 20 |
| Slot Size | 0.02 |
| Wire Width | 0.09 |
| Wire Altitude | 0.14 |
| Wire Base | 0.025 |
| Rod Diameter | 0.15 |
| Rod Count | 34 |
| Weld Ring Thickness | 0.28 |
| Top Ring Length | 4 |
| Bottom Ring Length | 4 |
| Collar Length | 0 |
| | |
| Collapse, psi | 264.46 |
| Rod Area, in² | 0.60 |
| Safe Hang, wt, lbs | 6306 |
| Weight, Rods, lbs/ft | 2.16 |
| Weight, Wire, lbs/ft | 5.48 |
| Weight, Screen, lbs/ft | 7.64 |
| Open Area, % | 18% |
| Open Area, in² | 45.39 |

www.roscoemoss.com

FEB 10 2010

J. Lounds Co
J-33

ROSCOE MOSS COMPANY

4360 Worth Street
Los Angeles, California 90063
Phone: (323) 263-4111 Fax: (323) 263-4497
E-mail: mossweils@aol.com
Web site: www.roscoemoss.com

FACSIMILE TRANSMITTAL

To: Monty Keown

Company: Armadillo

From: Richard King

Location:

Date: June 11, 2004

Fax Number: 662 895 6812

| <u>Item</u> | <u>Qty</u> | <u>Description</u> |
|-------------|------------|--------------------|
|-------------|------------|--------------------|

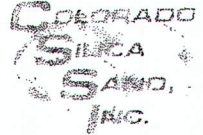
| | | |
|----|-----|---|
| 1. | 65' | 6 5/8" Type 304 stainless steel continuous wire wrap screen with 4" weld ring by 4" weld ring. Construction: .090" wire x .150" rod Slot: .020" Collapse: 264.46 PSI Safe hanging weight: 6,306 lbs. Weight per foot: 7.36 lbs. Open area: 44.46 sq. in./ft. ; 18.18% Cross sectional rod area: .60" |
|----|-----|---|

SCOPE DRAWING REVIEW
CALCULATED BY R. KING, INC.
Review for compliance with contract documents.
No change of dimensions or quantities of areas.
Responsible for the
 APPROVED BY REGISTERED ENGINEER
LEWIS ROBERT KING (PROVIDE)
C. KING & ASSOCIATES
By: OKL Date: 7-8-04

FEB 10 2015

Lewards Co
J-33

Colorado Silica Sand, Inc.



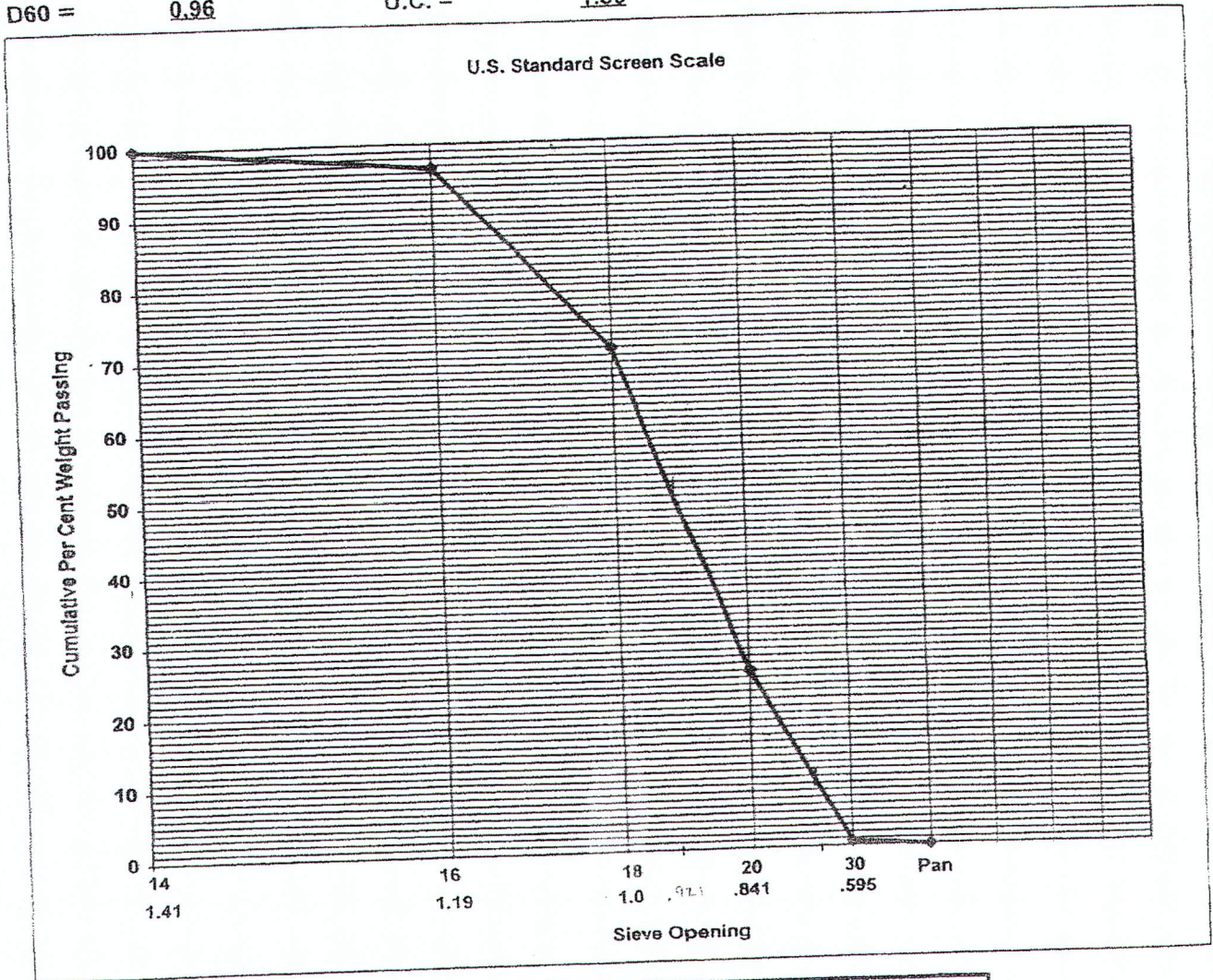
3250 Drennan Industrial Loop
P.O. Box 15615
Colorado Springs, CO 80935
Phone (719) 390-7969 FAX: 719-390-5517

Cumulative Direct Diagram of Screen Analysis on Sample of

16-30 Production Texas

Date: 28-Dec-95

D10 = 0.69 E.S. = 0.69
D60 = 0.96 U.C. = 1.39



| Sieve Standard | | Openings | | Per Cent Cumulative Weights Passing | Per Cent Individual Weights Retained |
|----------------|----------|----------|-------------|-------------------------------------|--------------------------------------|
| Tyler Mesh | U.S. No. | Inches | Millimeters | | |
| 12 | 14 | 0.0555 | 1.41 | 100 | 0 |
| 14 | 16 | 0.0469 | 1.19 | 96.6 | 3.4 |
| 16 | 18 | 0.0394 | 1.00 | 70.9 | 25.7 |
| 20 | 20 | 0.0331 | 0.841 | 24.9 | 46.0 |
| 28 | 30 | 0.0234 | 0.595 | 0.6 | 24.3 |

DEPT 50
FEB 10 2015
B. J. WEA

Lowder Co
J-33

SHANGHAI ALISON STEEL PIPE CO., LTD
MILL TEST CERTIFICATE

P. O. NO. 1040018100

This is to certify that the ERW STEEL PIPE in accordance with order No. 1040018100 were tested qualified by our Quality Control Department.

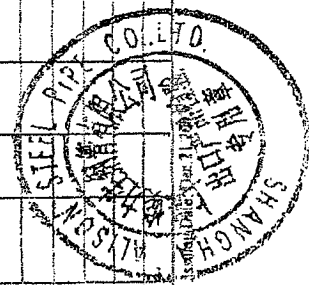
Shipping Marks: 1040018100
Colour: YELLOW

The pipes are tested according to ASTM A53B(99B)ASME SA53B(ES)API 5L B/X42 PSL1 (Version 42). The tensile test and chemical values are as stated below.

Consignee:

Description: ERW STEEL PIPE

| No. | Heat No. | size | Quantity | | Weight (mt) | Surface and size | Pipe-chemical Composition | | | | | | | | | | Pipe mechanical properties | | | Weld Tensile Strength (psi) | Hydrostatic Test P=MPa | Flaw-coring Test | Ultrasonic Test | Qualified Items |
|-------|----------|-----------------|----------|-----------|-------------|------------------|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------------------|----------------------------|----------------|------|-----------------------------|------------------------|------------------|-----------------|-----------------|
| | | | PCS | ft | | | C | Mn | P | S | Cu | Ni | Cr | Mo | V | Yield Point (psi) | Tensile Strength (psi) | Elongation (%) | | | | | | |
| 70291 | 03176689 | 10"X.365"X.007" | 268 | 10764.663 | 197.83 | OK | 0.14 | 0.45 | 0.004 | 0.014 | 0.006 | 0.011 | 0.026 | 0.001 | 0.002 | 0.002 | 63265 | 40.0 | 16.8 | OK | OK | 7 | | |
| ZQ48 | 03177707 | 12"X.375"X.007" | 721 | 8876.814 | 199.694 | OK | 0.16 | 0.25 | 0.010 | 0.001 | 0.006 | 0.013 | 0.029 | 0.001 | 0.007 | 67384 | 40.0 | 14.5 | OK | OK | 7 | | | |



Manager of Q.C. Dept: 米松

Inspector: 米松

SHOP DRAWING REVIEWED
CALDEX CONSULTING ENGINEERS, INC.

3. Allow 48 hrs for drawing to be returned to client with comments.
No. 03176689 is marked as a duplicate of drawing.
Revised drawing.

✓
I HAVE REVIEWED THIS DRAWING
I HAVE NO OBJECTIONS NOTED
DATE: 03/27/04 BY: SPS

BY: SPS Date: 03.13.04

FEB 10 2015

We state the material has been manufactured, sampled, tested and inspected in accordance with this specification, and has been found to meet the requirements.

ARTS 519

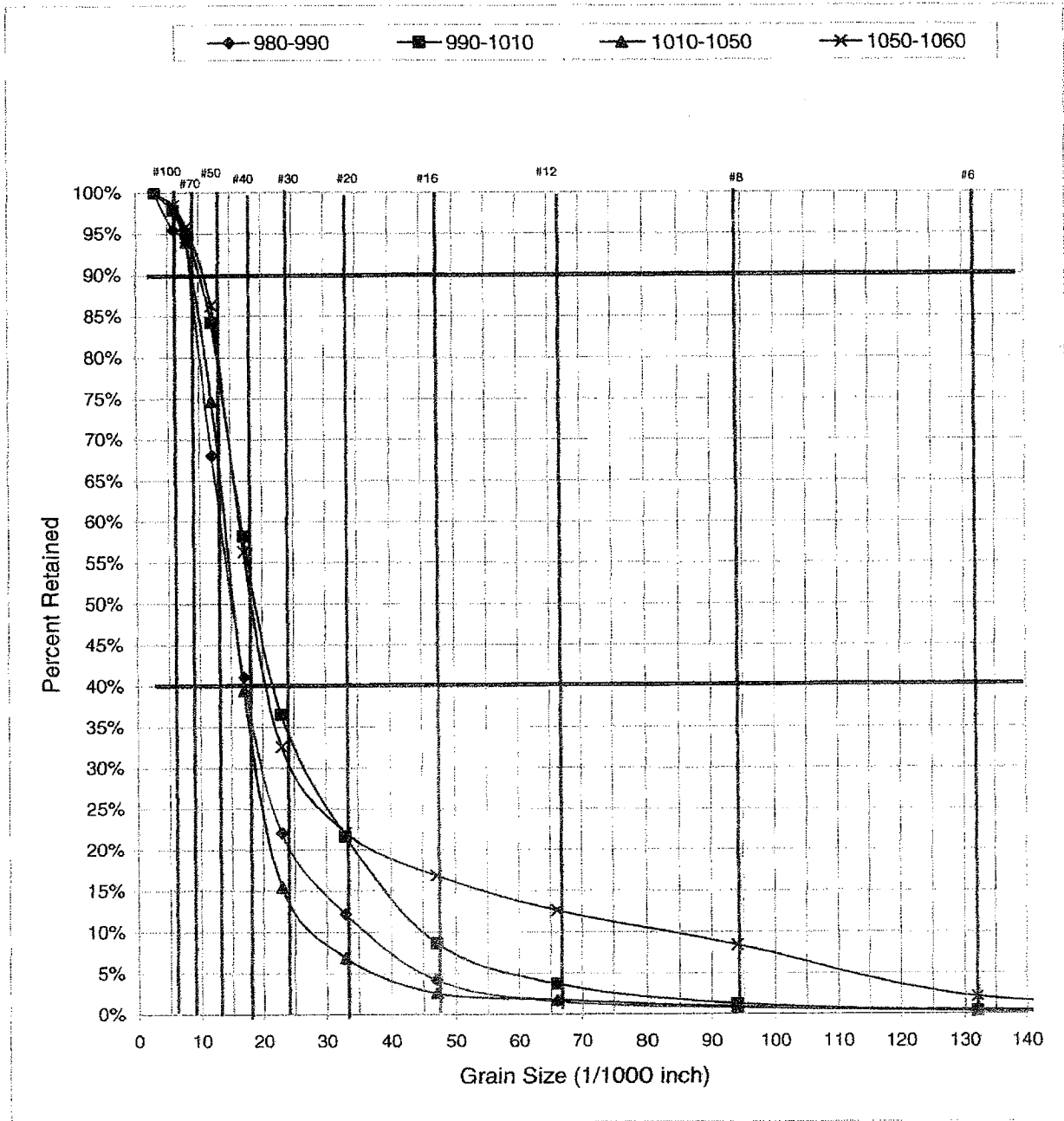
Lowndes Co

Johnson Screens
651-636-3900

1/11/15

SAND ANALYSIS

J-33



Sieve Analysis ID # 042904-6

Project: City of Artesia
Engineer:

Well:
Contractor: Armadillo Well Drilling

Proposed Screen Diameter:
Recommended Slot Size: 20 Slot From 990' - 1060'
Recommended Gravel Pack: 16 X 30 Sand Pack

FEB 10 2015

Prepared By: Al Smith
651-638-3160

Send samples to 1950 Old Hwy 8, New Brighton, MN 55112.