

GW - 19

**SONAR
TESTS**



LOCO HILLS GSF
LOCO HILLS, NM
WELL NO. 2

SONARWIRE GLOBAL, LLC
Max Range vs Bearing

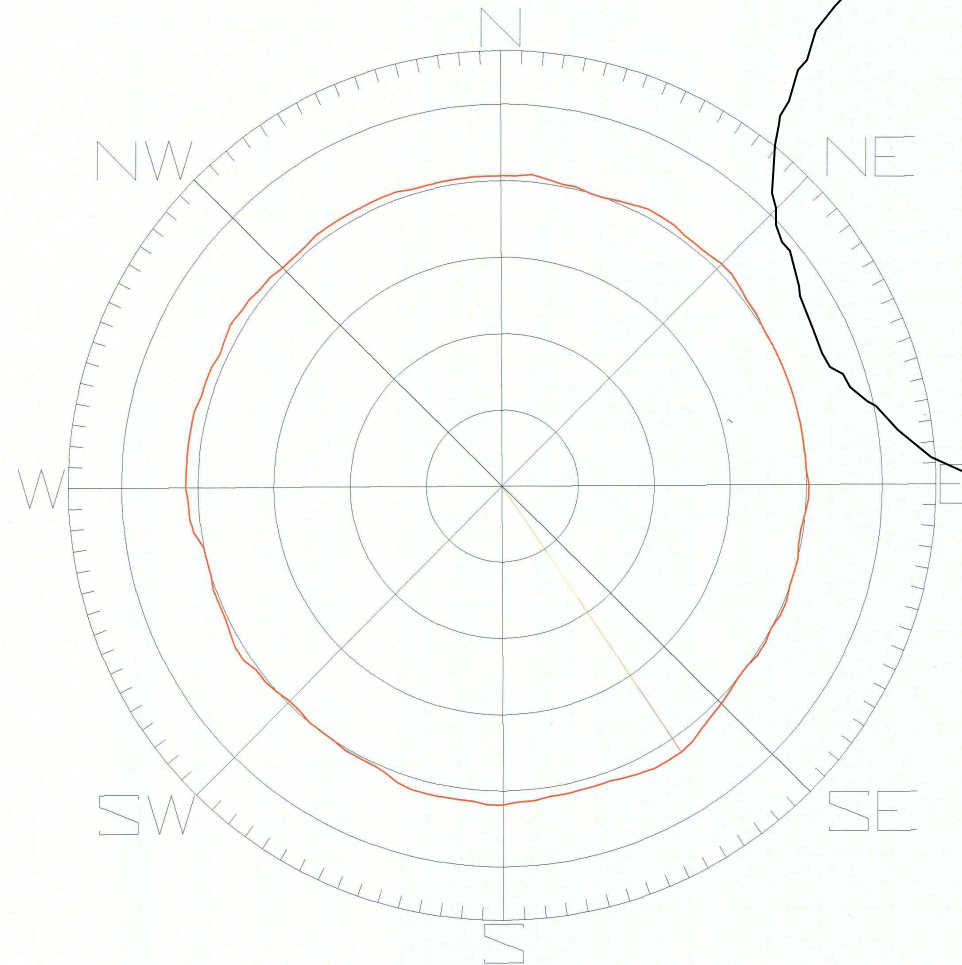
Max Radius= 84.4 ft @ 146.3 deg
Depth= 584 ft. Mon, Mar 29, 2010

Max Diameter = 167 ft @ 584 ft
Shoe depth = 504 ft

D/H = 0.331

TD = 623 ft

Volume = 135,864 bbls
(3/29/10)



1 inch = 35.0 ft.

100 80 60 40 20 0 20 40 60 80 100

1.979" = 100 ft

LOCO HILLS GSF
LOCO HILLS, NM
STORAGE WELL NO. 3

SONARWIRE GLOBAL, LLC
Max Range vs Bearing

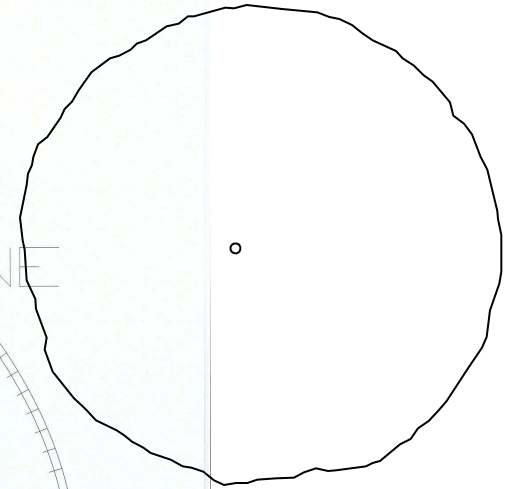
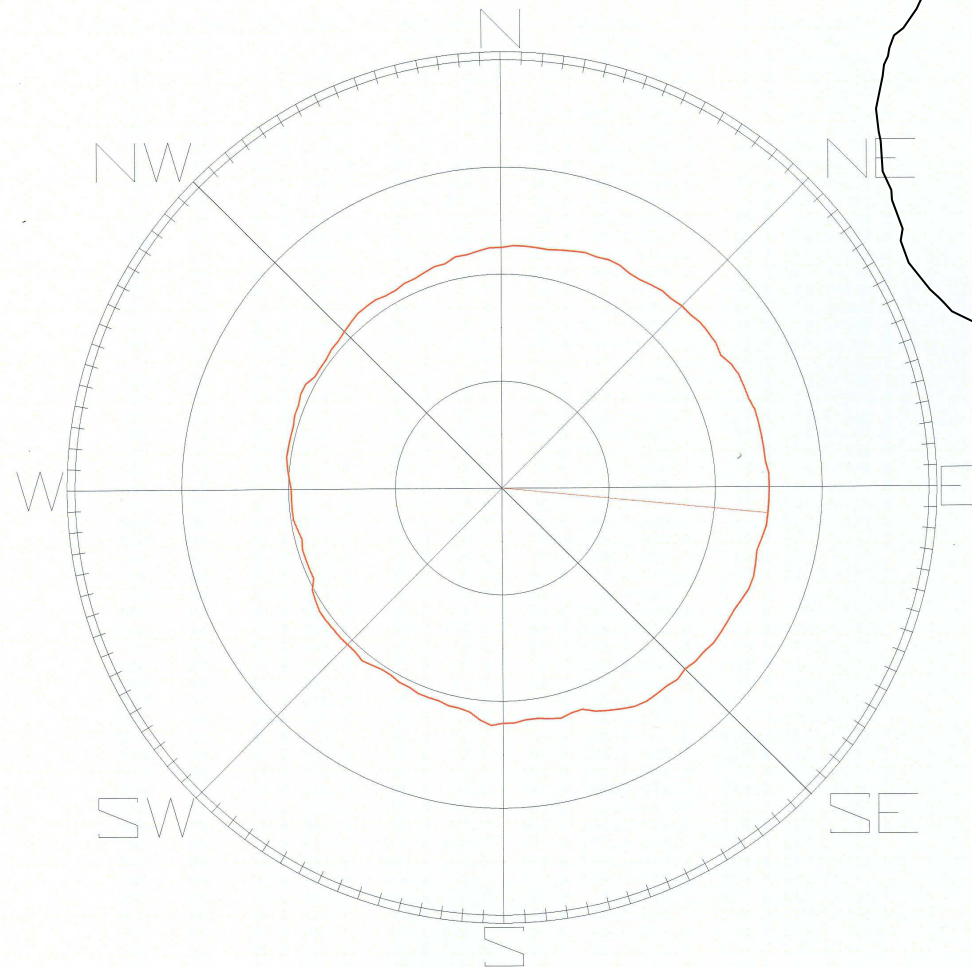
Max Radius=100.0 ft @ 95.6 deg
Depth= 584 ft. Tue, Jun 22, 2010

Max Diameter = 182 ft @ 581 ft
Shoe depth = 500 ft

D/H = 0.364

TD = 608.5 ft

Volume = 129,353 bbls
(6/22/10)



1 inch = 50.0 ft.

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

1.392" = 100 ft

LOCO HILLS GSF
LOCO HILLS, NM
PROPANE WELL #1

SONARWIRE, INC
Max Range vs Bearing

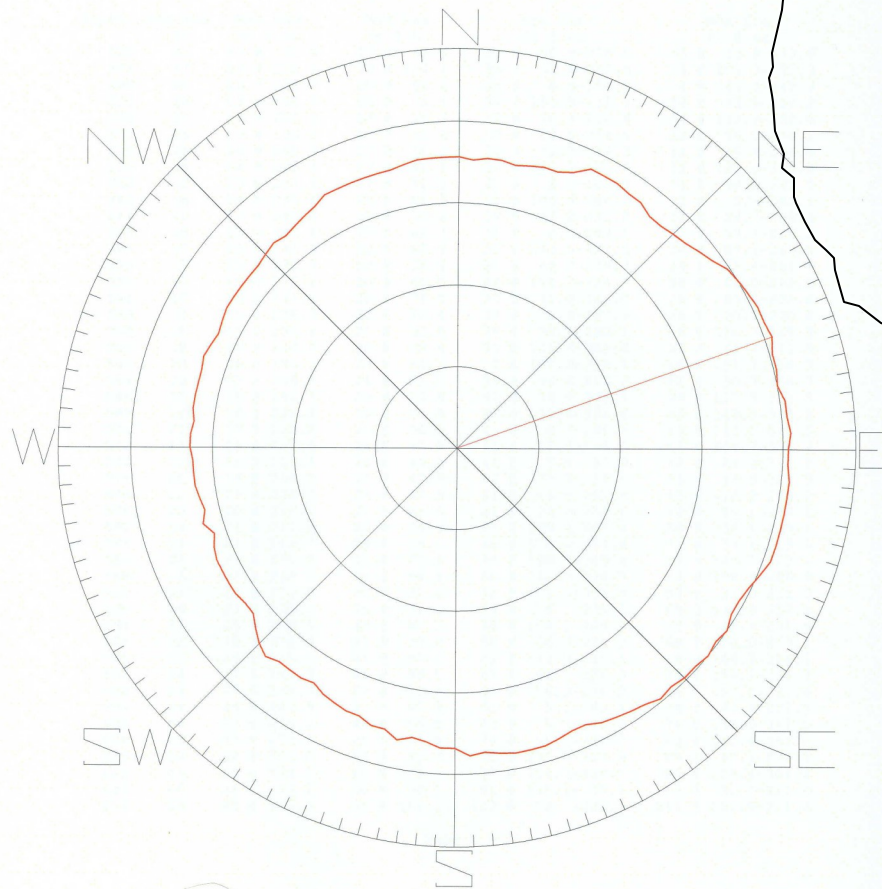
Max Radius= 81.9 ft @ 70.3 deg
Depth= 620 ft. Wed, Jun 03, 2009

Max Diameter = 147 ft @ 618 ft
Shoe depth = 525 ft

D/H = 0.282

TD = 649 ft

Volume = 77,436 bbls
(6/3/09)



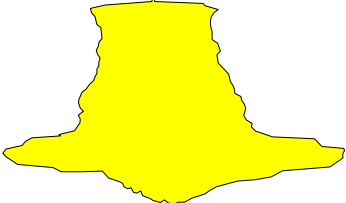
1 inch = 30.0 ft.

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

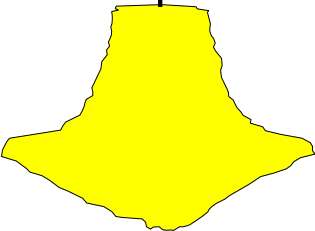
2.078" = 100 ft

WEST

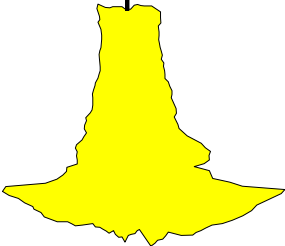
EAST



Leonard #3



Leonard #2



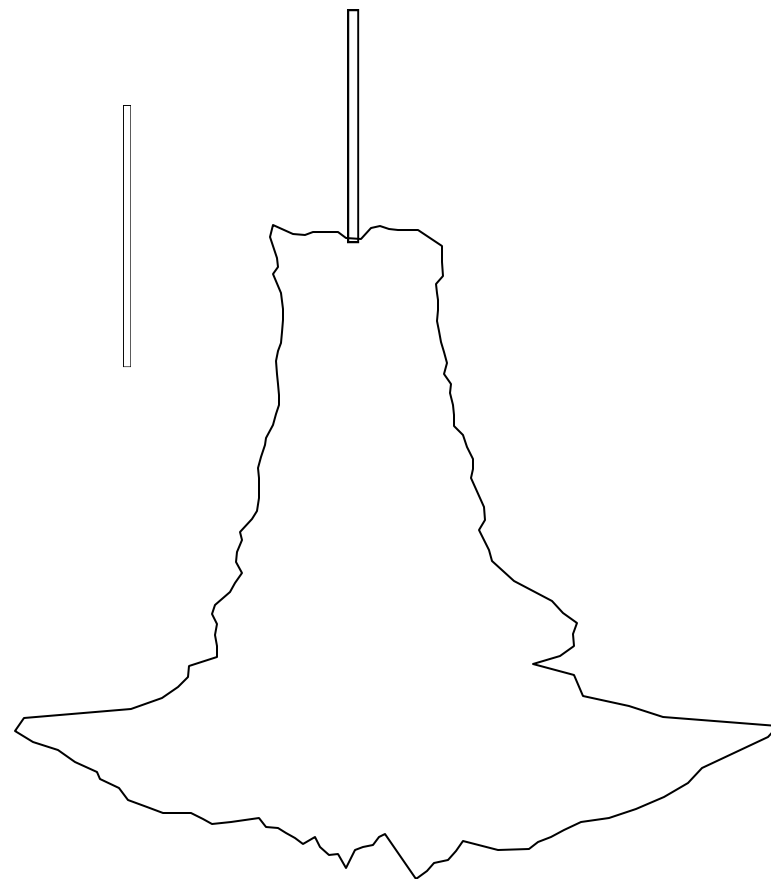
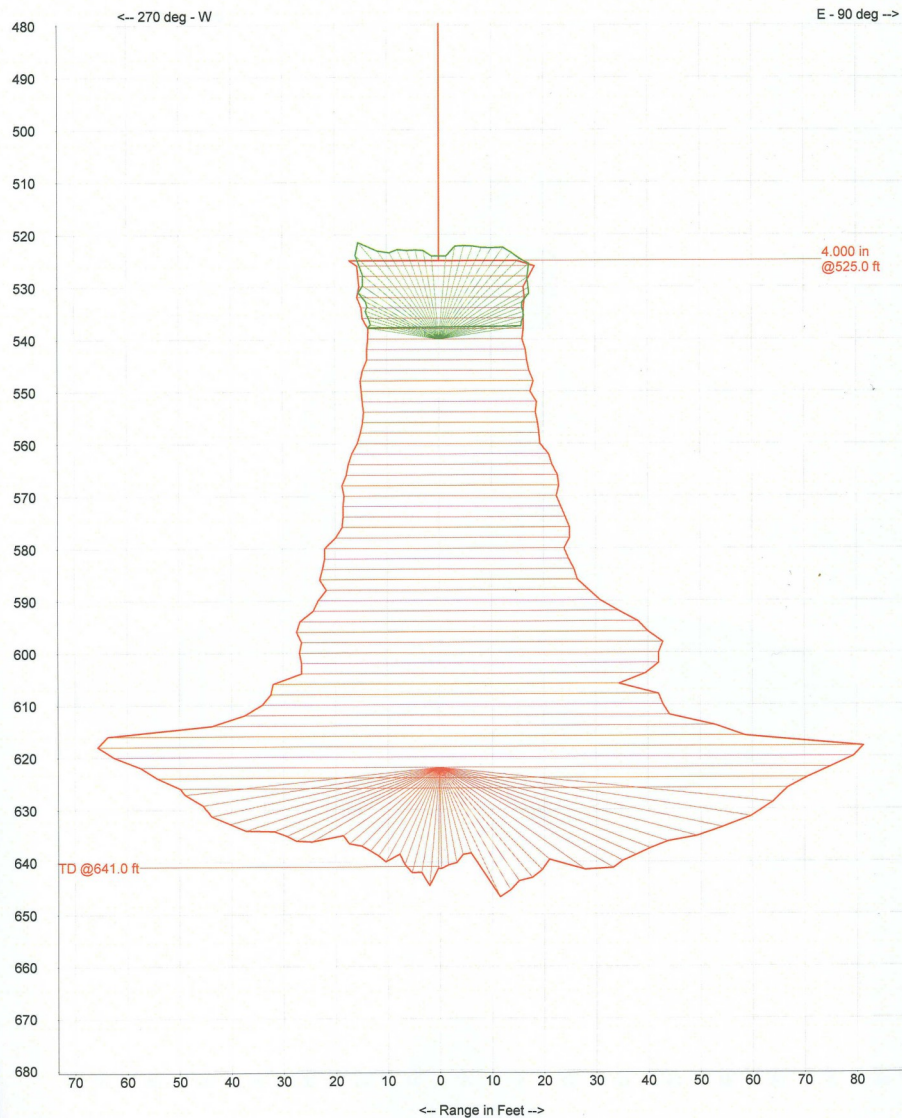
Leonard #1

1 inch = 100 feet

LOCO HILLS GSF
PROPANE WELL #1

SONARWIRE, INC
Vertical Cross Section

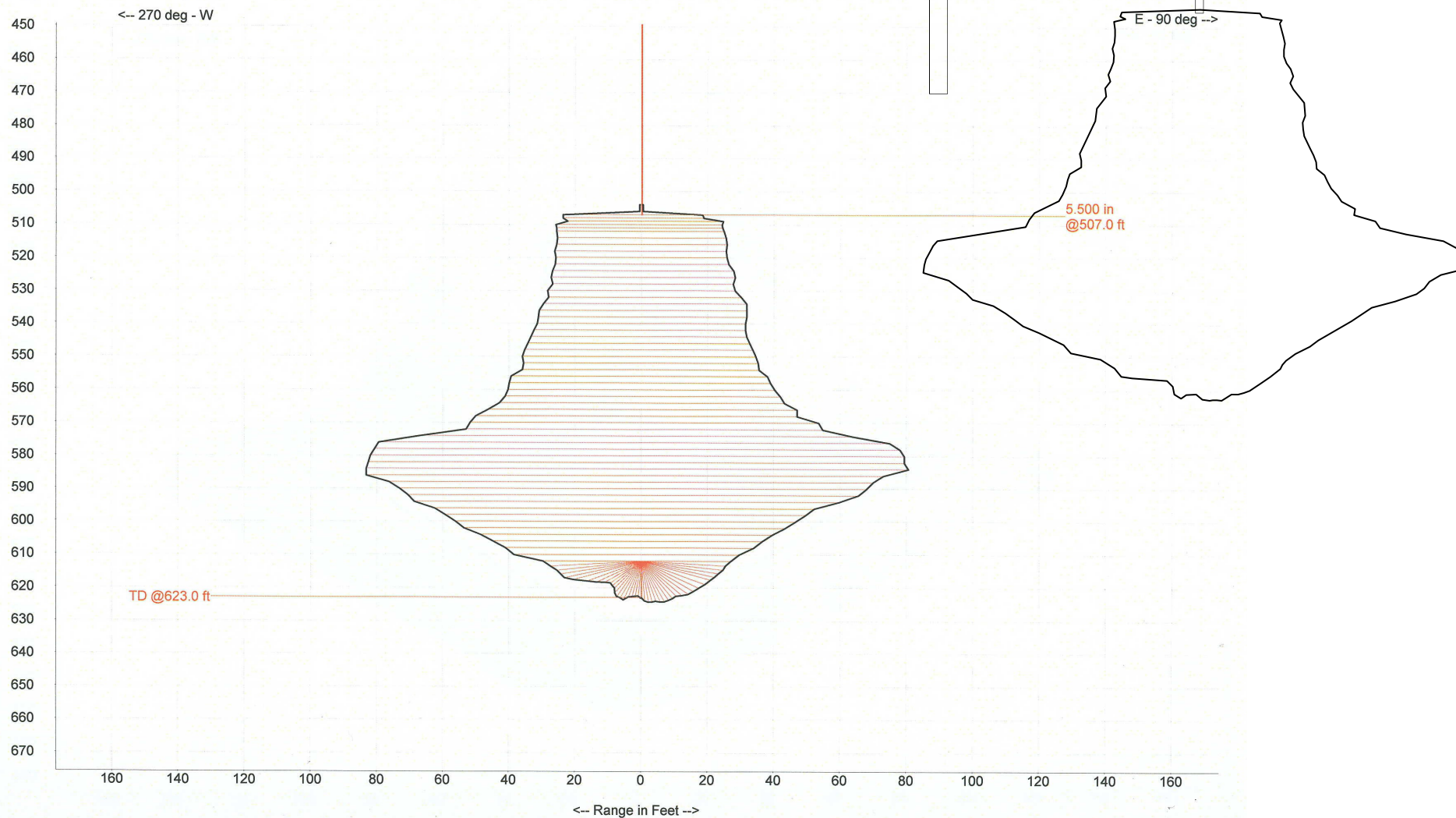
LOCO HILLS, NM
Wed, Jun 03, 2009
Wed, Jun 03, 2009



LOCO HILLS GSF
WELL NO. 2

SONARWIRE GLOBAL, LLC
Vertical Cross Section

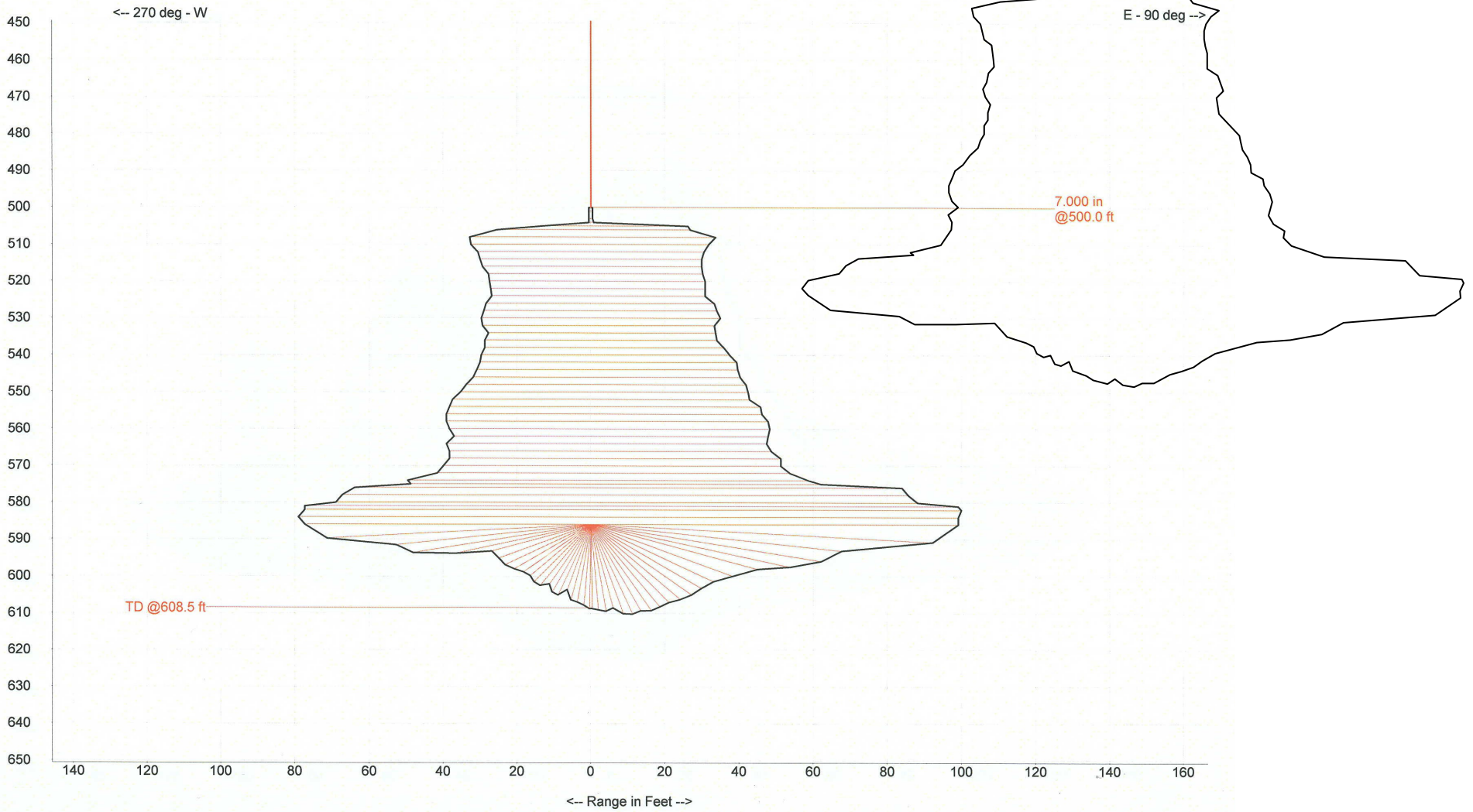
LOCO HILLS, NM
Mon, Mar 29, 2010

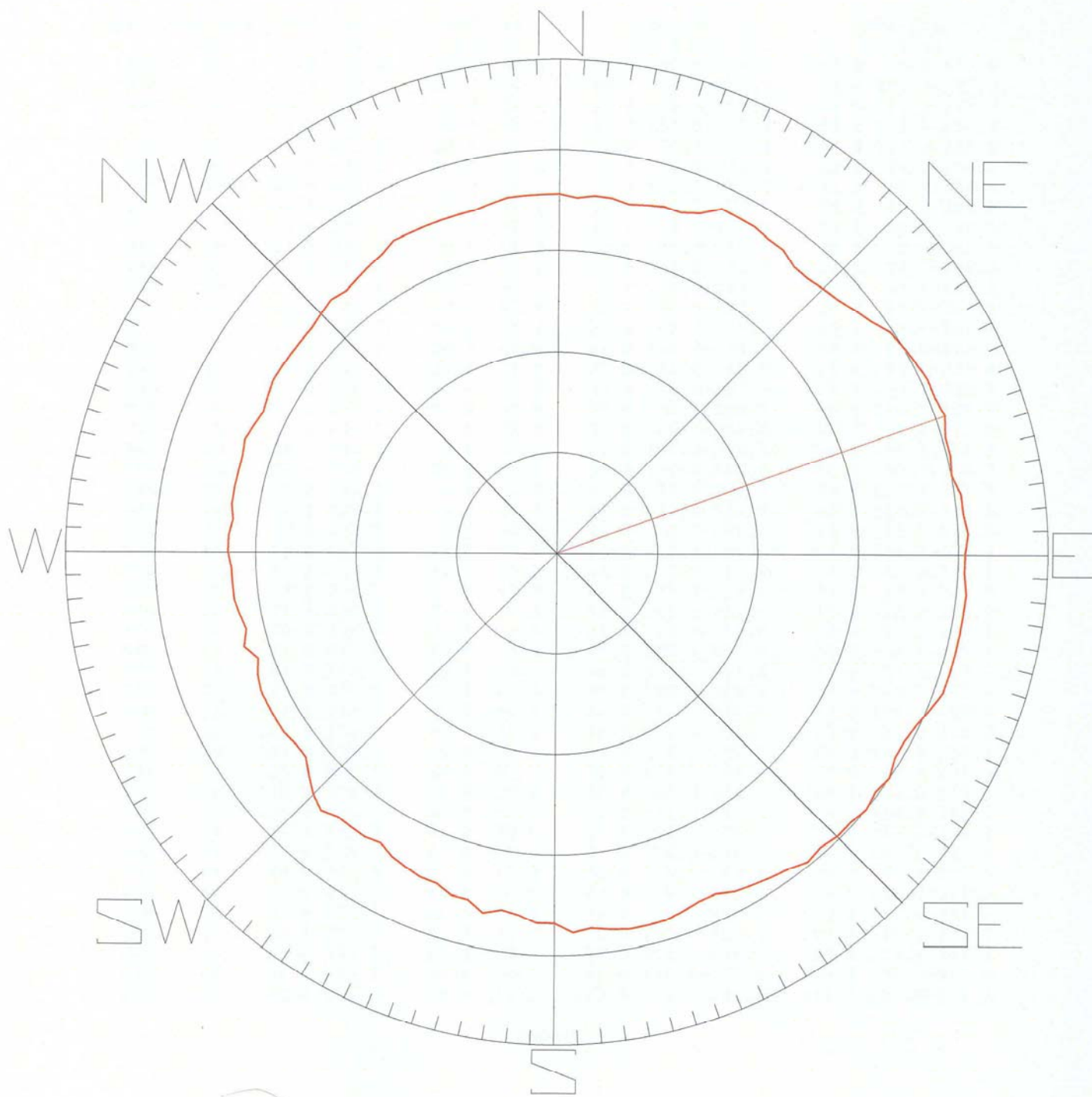


LOCO HILLS GSF
STORAGE WELL NO. 3

SONARWIRE GLOBAL, LLC
Vertical Cross Section

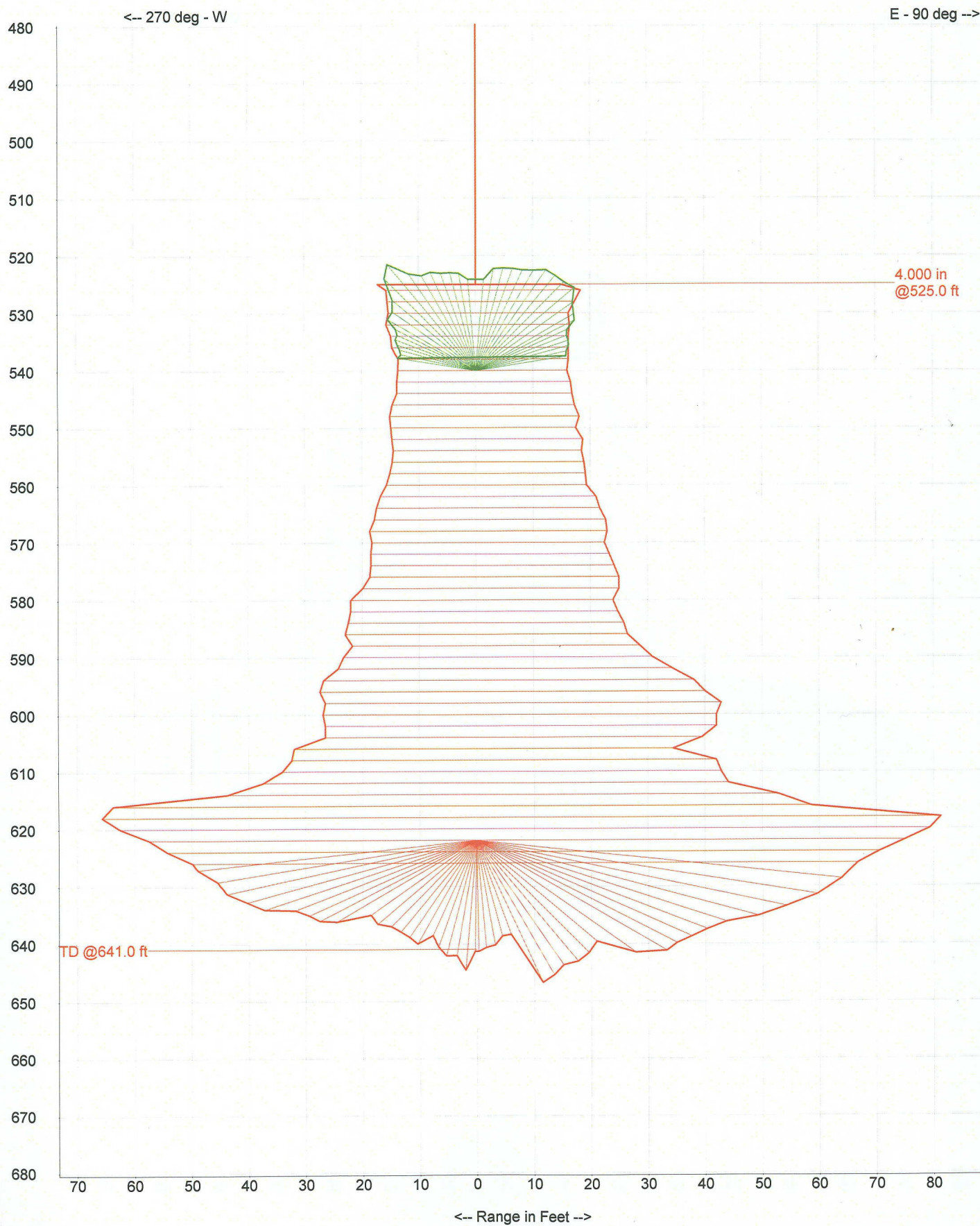
LOCO HILLS, NM
Tue, Jun 22, 2010





1 inch = 30.0 ft.

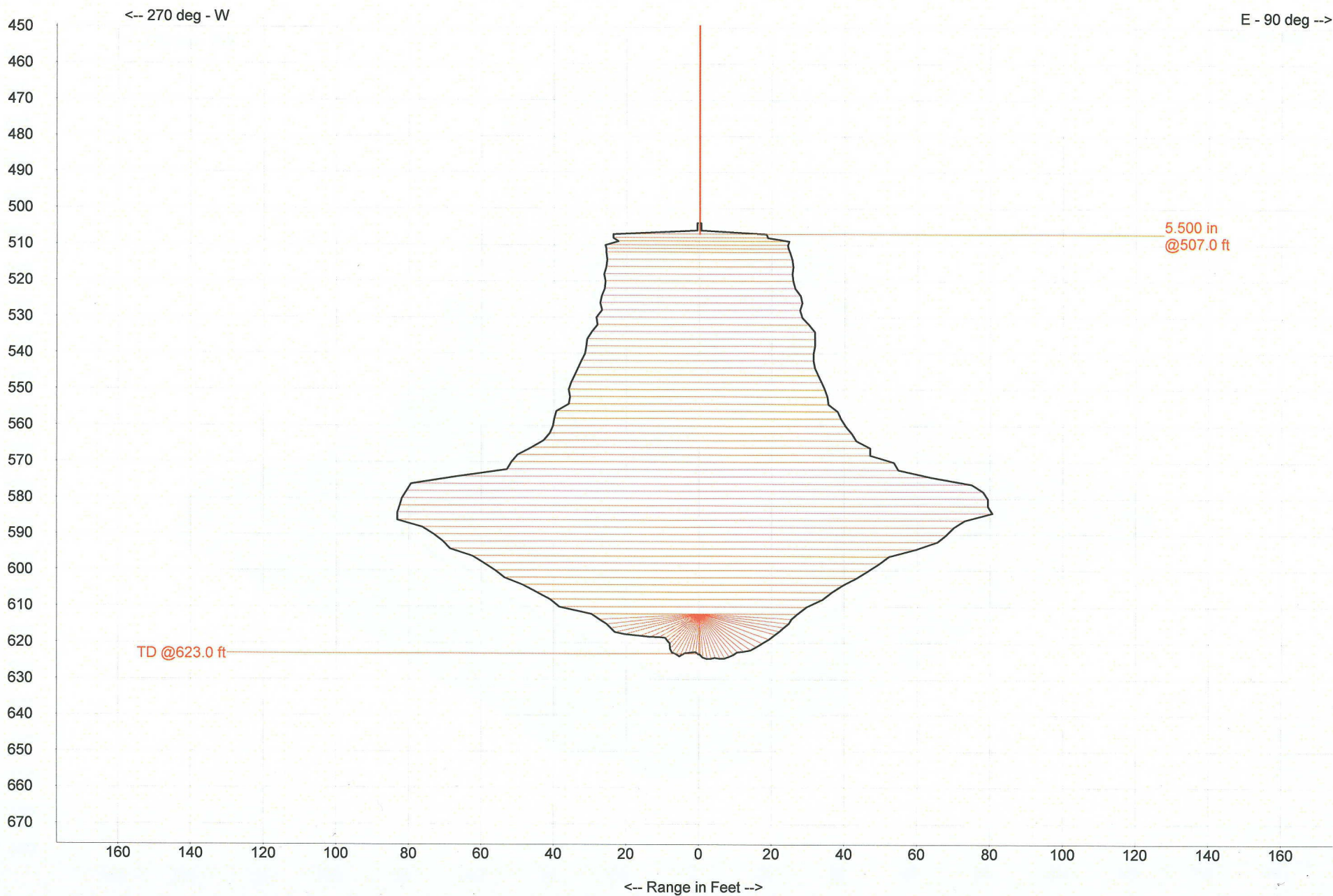
90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90



LOCO HILLS GSF
WELL NO. 2

SONARWIRE GLOBAL, LLC
Vertical Cross Section

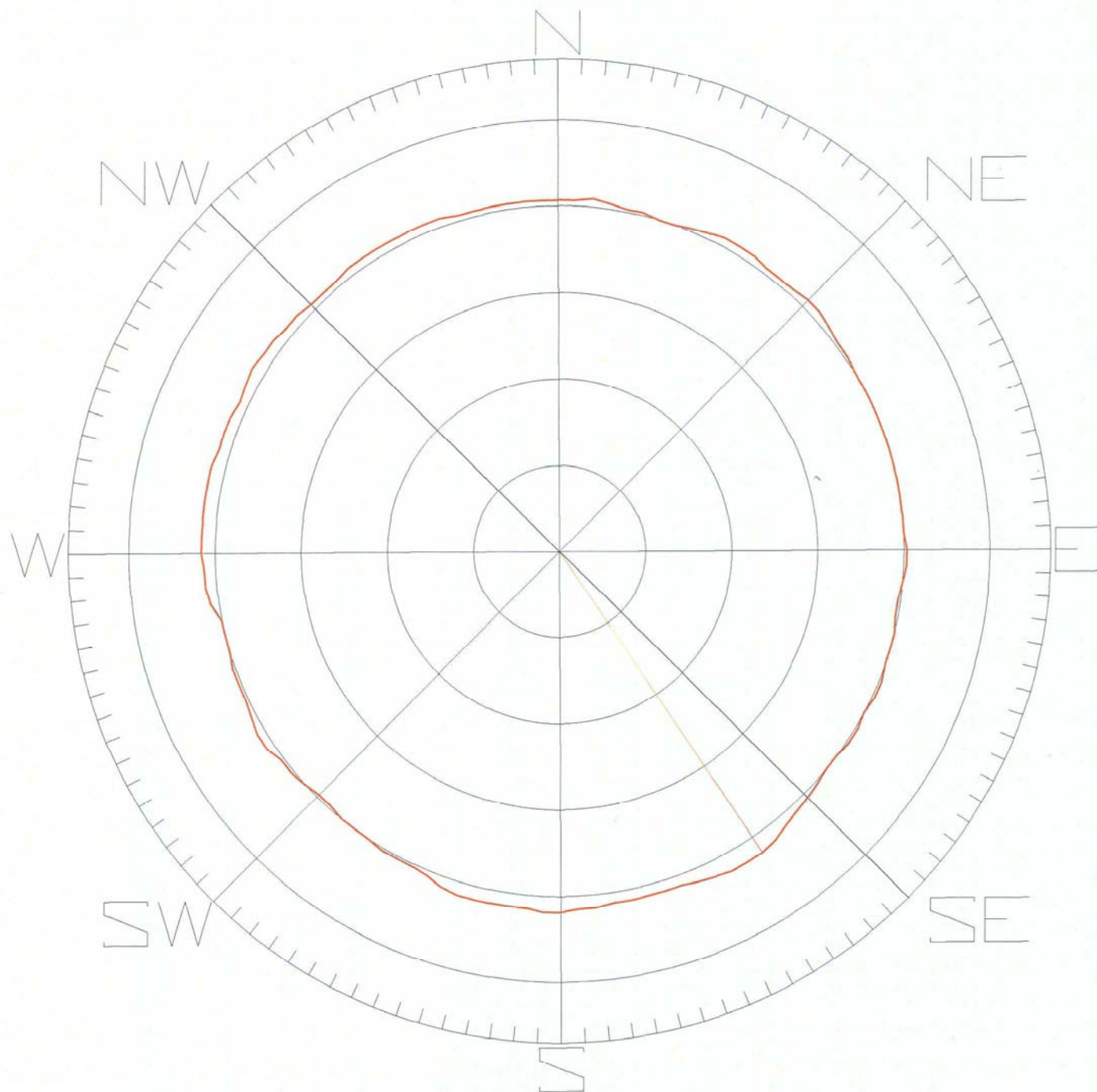
LOCO HILLS, NM
Mon, Mar 29, 2010



LOCO HILLS GSF
LOCO HILLS, NM
WELL NO. 2

SONARWIRE GLOBAL, LLC
Max Range vs Bearing

Max Radius= 84.4 ft @ 146.3 deg
Depth= 584 ft. Mon, Mar 29, 2010



1 inch = 35.0 ft.

100 80 60 40 20 0 20 40 60 80 100

1. APRIL 10, 1953

APPLICATION OF SACRA BROTHERS COMPANY
FOR PERMISSION TO DRILL A WELL FOR THE
STORAGE OF LIQUEFIED PETROLEUM GAS IN NW/4
SW/4 SECTION 22, TOWNSHIP 17 SOUTH, RANGE
29 EAST, NMPM, EDDY COUNTY, NEW MEXICO.

ORDER NO. LPG-5

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Order No. B-313 in Case 523, and Rule 705 of the Commission's Rules and Regulations established thereunder, Sacra Brothers Company made application to the Commission on October 29, 1953, for authority to drill an LPG-storage well in NW/4 SW/4 Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, and

The Secretary - Director Finds:

- (1) That application has been duly filed in proper form under the provisions of Rule 705;
- (2) That satisfactory information has been provided that all operators of offset acreage within a one-half mile radius of the proposed well have been notified of the operators intention; and
- (3) That no objections have been received within the ten-day waiting period as prescribed by said rule.

IT IS THEREFORE ORDERED:

That the applicant herein, Sacra Brothers Company, be and it hereby is authorized to complete its projected LPG storage well in NW/4 SW/4 Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, as a storage well for liquefied petroleum gas;

That the effectiveness of this order is conditional upon the stipulation that the well be drilled to an approximate depth of 675', as set forth in operator's application, at which point a storage cavity will be washed out in the salt section for the specified use; further, that the Commission's approval be secured through Form O-101, Notice of Intention to Drill, and subsequent actual inspections of the casing operations on said well.

No part of this order shall be construed as relieving Sacra Brothers Company from liability to any person, firm or corporation as a result of the drilling or operation of such storage project.

By authority granted under provisions of Rule 705 of the Commission's Rules and Regulations, this order is issued and approved this 10th day of November, 1953.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

R. R. Spurrier, Secretary-Director

S E A L

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL OR RECOMPLETE

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in **QUINTUPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Artesia N. M.

(Place)

October 5, 1953

(Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the (Drilling) (Recompletion) of a well to be known as

Sacra Brothers Co.

(Company or Operator)

State

(Lease)

Well No. 3

in (Unit)

The well is

located 560 feet from the West line and 1975 feet from the

South

line of Section 22, T. 17, R. 29, NMPM.

(GIVE LOCATION FROM SECTION LINE)

Pool, Eddy County

If State Land the Oil and Gas Lease is No.

If patented land the owner is

Address

We propose to drill well with drilling equipment as follows: Cable tools.

The status of plugging bond is

Drilling Contractor A. E. Smith

We intend to complete this well in the Salt formation at an approximate depth of 700 feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
8 5/8	7" OD	20#	New	500'	75

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

This well to be drilled for the purpose of creating underground storage in the salt section for LPG.

Approved NOV 10 1953, 19
Except as follows:

By OCC Order No. LPG-5

By L. A. L. L. L.
OIL CONSERVATION COMMISSION

Title OIL AND GAS INSPECTION

Sincerely yours,

Sacra Brothers Co.

(Company or Operator)

By B. N. Muncy, Jr.

Position Manager

Send Communications regarding well to

Name B. N. Muncy, Jr.

Address 402 North First Artesia, N. M.

OIL CONSERVATION COMMISSION	
ARTESIA DISTRICT OFFICE	
No. of Wells Drilled	6
DATE	
FURNISHED	
Operator	1
State Co.	1
Producing Wells	
State Land Comm.	1
U. S. G. S.	2
Transporter	
File	1

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED

MAY 7 1955

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	☒

May 6, 1955
(Date)Artesia, N. M.
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Sacra Brothers Co. Leonard State
(Company or Operator) (Lease)
A. F. Smith, Well No. 3 in the NW 1/4 SW 1/4 of Sec. 22
(Contractor)
T. 17, R. 29, NMPM, Pool, Eddy County

The Dates of this work were as follows: October 10, 1953 November 15, 1953

Notice of intention to do the work (was) (~~was not~~) submitted on Form C-102 on October 5, 1953
(Cross out incorrect words)
and approval of the proposed plan (was) (~~was not~~) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilled 8 5/8 hole into Cowden anhydrite and set 7" OD casing at 505' 7" and circulated cement to top. Drilled to bottom of salt section at 675', ran 3" tubing.

Witnessed by B. N. Muncy, Jr. Sacra Bros. Co. Manager
(Name) (Company) (Title)

Approved: OIL CONSERVATION COMMISSION

B. N. Muncy, Jr.
(Name)

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

Name: *B. N. Muncy, Jr.*
Position: *Manager*
Representing: *Sacra Brothers Co.*
Address: *P.O. Box 1294, Artesia, N.M.*

OIL AND GAS INSPECTION
(Title)

MAY 11 1955
(Date)

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

Journal of Interpersonal Violence 26(10) 1978–1997
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1. INFORMATION COMMISSION

2. INFORMATION OFFICE

4

2

1

1

RECEIVED
OCT 18 1953

Company Sacra Bros. OH Cons. Comm.

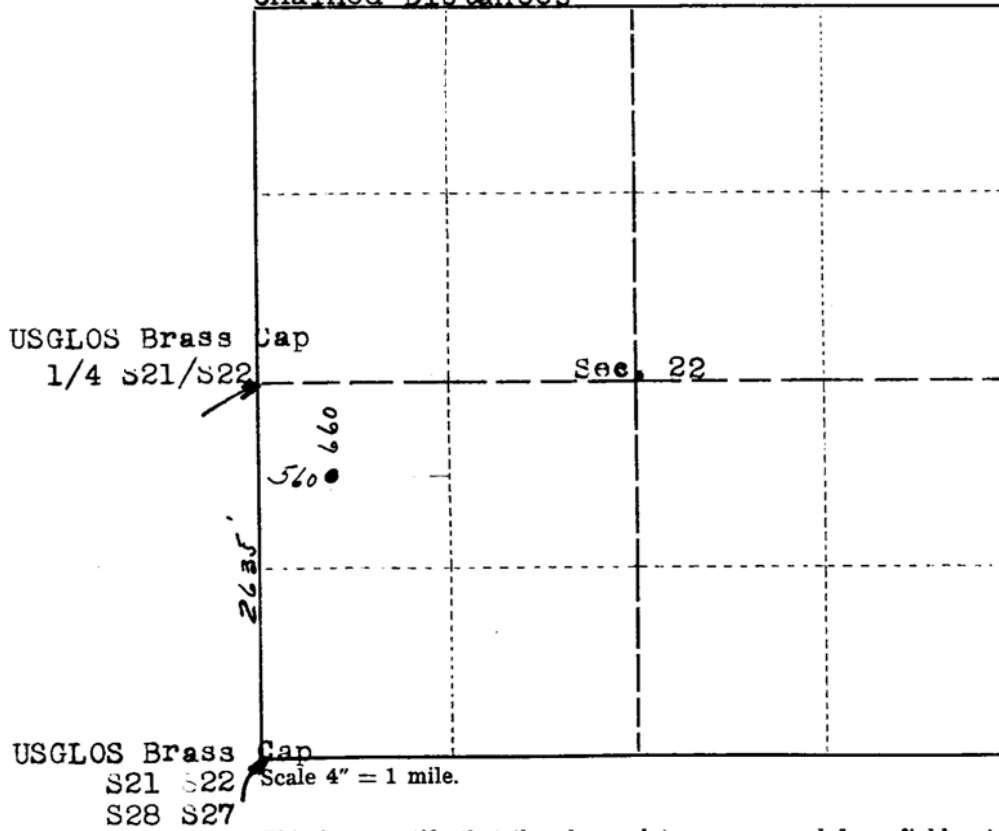
Lease Leonard-state Well No. 3 Artesia Office

Sec. 22 T. 17 S., R. 29 E., N.M.P.M.

Location 560 ft. fr WL & 1975 ft. fr SL

County Eddy New Mexico

Chained Distances



T17S-R29E

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

Artesia, New Mexico

John A. Martin Jr.
Registered Professional
Engineer and Land Surveyor.

Surveyed October 8, 19 53

17532 Advocate Print

AREA 640 ACRES
LOCATE WELL CORRECTLY

Oil Cons. Comm.
ARTESIA OFFICE

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

Leonardi State

(Company or Operator)

.....
(Lease)

Well No. 3, in NW $\frac{1}{4}$ of SW $\frac{1}{4}$, of Sec. 22, T. 17, R. 29, NMPM.

Pool, Eddy County.

Well is 560 feet from West line and 1975 feet from South line.

of Section 22 If State Land the Oil and Gas Lease No. is.....

Drilling Commenced October 10, 1953, 19..... Drilling was Completed October 31, 1953

Name of Drilling Contractor..... A. F. Smith

Address.....Artesia, N. M.

Elevation above sea level at Top of Tubing Head.....3549.60..... The information given is to be kept confidential until
....., 19.....

No. 1, from.....to..... No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 100 to 105 feet.

No. 2, from 115 to 120 feet.

No. 3, from.....to.....feet.

No. 4, from _____ to _____ feet. _____

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8 5/8 OD	27	New	130# 7"	none		none	water
7 OD	20	New	505# 7"	Texas Pat.		none	

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
8 5/8	7	505' 4"	398	Halliburton		

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

PRODUCTION

Put to Producing....., 19.....

OIL WELL: The production during the first 24 hours was.....barrels of liquid of which.....% was
was oil;% was emulsion;% water; and.....% was sediment. A.P.I.
Gravity.....

GAS WELL: The production during the first 24 hours was.....M.C.F. plus.....barrels of
liquid Hydrocarbon. Shut in Pressure.....lbs.

Length of Time Shut in.....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico

Northwestern New Mexico

T. Anhy.....	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	T. Montoya.....	T. Farmington.....
T. Yates.....	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....	T. McKee.....	T. Menefee.....
T. Queen.....	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....	T. Gr. Wash.....	T. Mancos.....
T. San Andres.....	T. Granite.....	T. Dakota.....
T. Glorieta.....	T.	T. Morrison.....
T. Drinkard.....	T.	T. Penn.....
T. Tubbs.....	T.	T.
T. Abo.....	T.	T.
T. Penn.....	T.	T.
T. Miss.....	T.	T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	5	5	Sand				
5	60	55	Red Beds				
60	80	20	Anhydrite				
80	115	35	Anhydrite				
115	120	5	Blue Clay				
120	135	15	Anhydrite				
135	250	115	Red Bed				
250	260	10	Anhydrite				
260	265	5	Red Bed				
265	275	10	Salt				
275	280	5	Anhydrite				
280	445	165	Salt				
445	452	7	Anhydrite				
452	497	45	Salt				
497	525	28	Anhydrite				
525	675	150	Salt				
675	677	2	Polyhalite				
677	680	3	Anhydrite				

OIL CONSERVATION COMMISSION
DISTRICT OFFICE
6
1
1
2
1
1
B. 17 miles

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

12 NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form 6-116 ED
Revised 7/1/55
DEC 8 1959

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

O. C. C.
ARTESIA, OFFICE

Company or Operator Arrow Gas Company Lease # BL - 96

Well No. 22-3 Storage Unit Letter 22 S 17S T 29 ER Pool for LPG

County Eddy Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit S T R

Authorized Transporter of Oil or Condensate _____

Address Box 1294, Roswell, N. M.

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____ Date Connected _____

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Under Ground Storage for Liquefied Petroleum Gas.

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership (XX) Other ()

Remarks: (Give explanation below)

Change in ownership from Sacra Brothers Co. to Arrow Gas Company
\$10,000 Blanket Plugging Bond # 17196

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 7th day of December 1959

Approved DEC 8 1959 1959

By T. J. Murray *T. J. Murray*

Title Secretary

OIL CONSERVATION COMMISSION

Company Arrow Gas Company

By M. L. Armstrong

Address Box 1294, Roswell, N. M.

OIL AND GAS INSPECTOR

Title _____

MAR 29, 2002

PAGE 1

WELLS INVOLVED IN NAME CHANGE
FINAL LIST WITH G104B

OPERATOR: 186724 COLUMBIA PROPANE LP

OCD DISTRICT: ARTESIA

PROP-
ERTY
29495
WELL NAME
LEONARD #001
LEONARD #002
LEONARD #003

ULSTR	OCD UNIT LTR	API
L-22-178-29E	L	30-015-06192
L-22-178-29E	L	30-015-06193
L-22-178-29E	L	30-015-06194

OPERATOR INITIALES *RMC*



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, 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-104B

March 19, 2001

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected
wells list along with 1 copy of this form
per number of wells on that list to
appropriate District Office

Change of Operator Name

OGRID: 186724

Effective Date: August 21, 2001

Previous Operator Name and Information:

Name: Columbia Propane, L.P.
Address: 10710 Midlothian Turnpike
Address: Suite 200
City, State, Zip: Richmond, VA 23235

New Operator Name and Information:

New Name: AmeriGas Eagle Propane, L.P.
Address: 460 North Gulph Road
Address: _____
City, State, Zip: King of Prussia, PA 19406

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

Signature: Robert H. Knauss

Printed
name: Robert H. Knauss

Title: Vice President - Law of AmeriGas Eagle Holdings, Inc.,
the general partner of AmeriGas Eagle Propane, L.P.

Date: April 8, 2002 Phone: (610) 337 - 1000, ext. 3393

* , upon the filing and approval of this Form C-104B,



NMOCD Approval

Signature: Jim W. Green

Printed Name: District Supervisor

District: _____

Date: APR 22 2002

Jun 25 02 10:42a

JUN-25-2002 TUE 11:20 AM

FAX NO.

RECEIVED

JUL 1 10:42 02 P. 3

MAW

Form C-104A
March 19, 2001

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 186724
Name: AmeriGas Eagle Propane, L.P.
Address: 460 NorthGulph Road
Address: _____
City, State, Zip: King of Prussia, PA 19406

New Operator Information:

Effective Date: 7-15-02
New Ogrid: 214766
New Name: Loco Hills GSF Ltd.
Address: 158 Deer Creek Drive
Address: _____
City, State, Zip: Aledo, TX 76008

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: _____

Printed name: _____

Title: _____

Date: _____

Phone: _____



Previous operator complete below:

Previous Operator: AmeriGas Eagle Propane, L.P.
Previous OGRID: 186724

Signature: _____

Printed

Name: _____

Robert H. Knauss, Esq.

Vice President - Law of AmeriGas

Eagle Holdings, Inc. the general

partner of AmeriGas Eagle Propane, L.P.

NMOCD Approval

Signature: _____

Printed

Name: _____

District: _____

Date: _____

1-28-03

NEW PROPERTY CODE - 31981

This C-104A is for the Loco Hills GSF LTD
LEONARD #3 ONLY

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

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

WELL API NO.

06194

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

RL-635

7. Lease Name or Unit Agreement Name:

LEONARD

Leona Hills G.S.P. LTD

8. Well No.

3

9. Pool name or Wildcat

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 Salt Water Storage

2. Name of Operator

Leona Hills G.S.P. LTD

3. Address of Operator

P.O. Box 37 Leona Hills, New Mexico 88255

4. Well Location

Unit Letter L : 1925 feet from the South line and 560 feet from the West line

Section 22

Township 17S Range 29E

NMPM

County Eddy

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

ER

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. 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 recompilation.

Sonar Test of well for Capacity and configuration

After Sonar Test will run a M.T. test

on casing (300 psi for 30 minutes)

Open hole cavern test (1 1/2 times normal operating pressure)

for 4 hours

Estimated start date April 21, 2003



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

SIGNATURE

John B. Smith

TITLE

Terminal Operator

DATE

3/24/03

Type or print name

John B. Smith

Telephone No. 505-672-233

(This space for State use)

APPROVED BY

males

TITLE

Enviro. Eng. Spec.

DATE

3/25/2003

Conditions of approval, if any:

* Please notify N.M.O.C.D. to witness.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88201
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
Revised June 10, 2003

RECEIVED
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
FEB 27 2006
DOU-ARTESIA

WELL API NO. <u>30-15-06194</u>
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. <u>BL-635</u>
7. Lease Name or Unit Agreement Name <u>Leonard</u>
8. Well Number <u>Leonard State #3</u>
9. OGRID Number
10. Pool name or Wildcat

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 <u>Salt Dome Storage</u>
2. Name of Operator <u>Loco Hills GSF LTD</u>
3. Address of Operator <u>1231 Old Anne HA Rd. Alamo, Texas 76008</u>
4. Well Location

Unit Letter L : 1975 feet from the South line and 560 feet from the West line

Section 22 Township 17S Range 29E NMPM County Eddy

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

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPLETION ☐
OTHER: ☐	

SUBSEQUENT REPORT OF:	
REMEDIAL WORK ☒	ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐	
OTHER: ☐	

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.

02/15/06 Sonarred well, Ran MIT on casing using high pressure chart recorder (400# - 30 min) Packer set at 492'

02/16/06 Ran 600' 5-55 plastic coated 2 7/8" tubing, Hydro static test done on tubing (1500#) Nipped up.

02/21/06 Inspected Nitrogen for open hole Nitrogen test. (Approx 400#)

02/23/06 Ran 4hr open hole Nitrogen test using high pressure chart recorder (400#)

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

SIGNATURE John B Smith TITLE Terminal Operator DATE 02/24/06
Type or print name John B. Smith E-mail address: Telephone No. (505) 677-2333
(This space for State use)

APPROVED BY Accepted for record - NMOC TITLE DATE
Conditions of approval, if any:

SONARWIRE, INC
Vertical Cross Section

STORAGE WELL NO. 3
Wed, Feb 15, 2006

LOCO HILLS G.S.F.
LOCO HILLS, NM

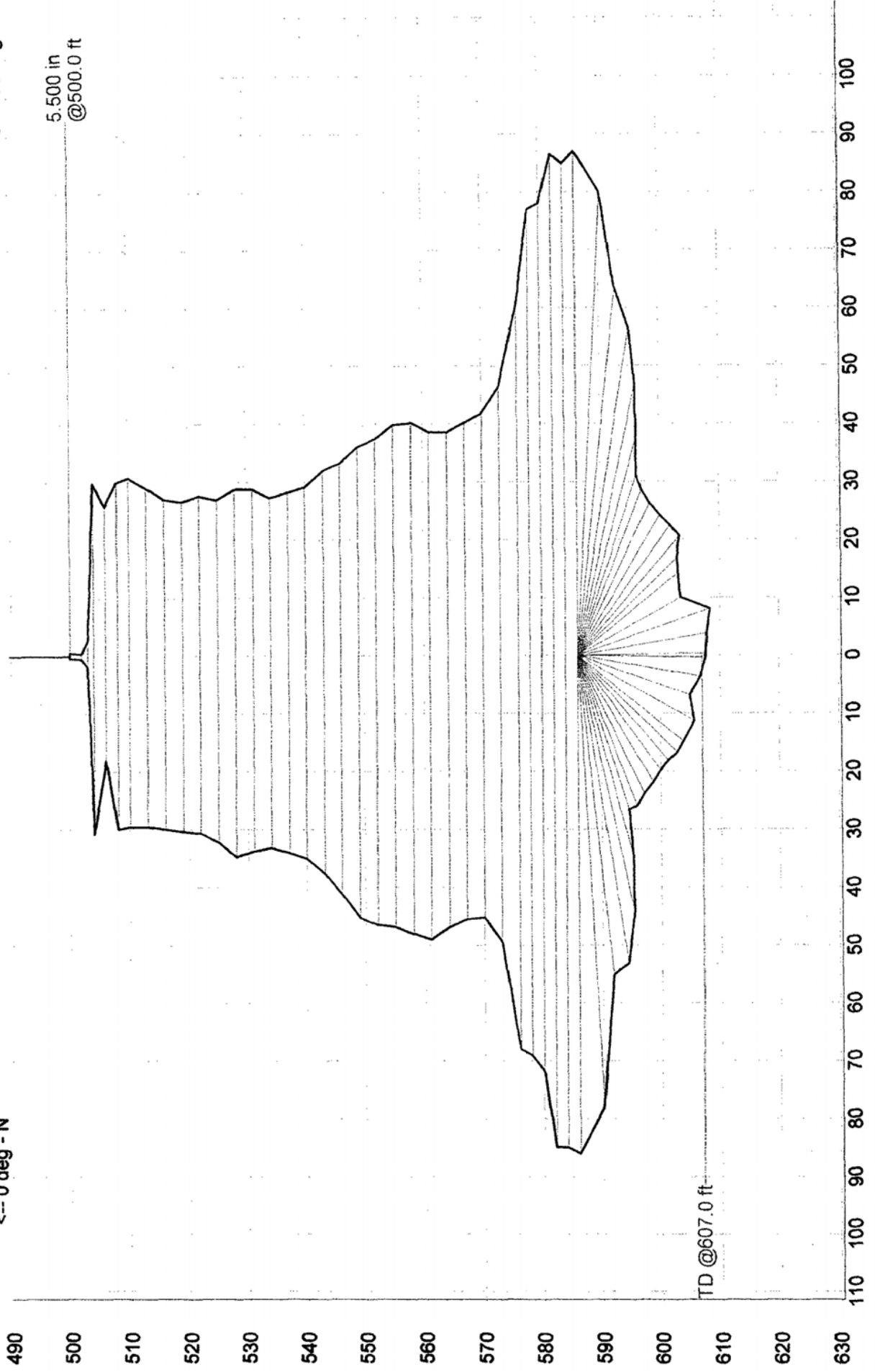
S - 180 deg -->

<-- 0 deg - N

5.500 in
@500.0 ft

TD @607.0 ft

<-- Range in Feet -->



SONARWIRE INC.
Depth versus Volume

LOCO HILLS G.S.F.
LOCO HILLS, NM

STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
501	0.1	0.1	5.3	5.3
502	0.1	0.3	5.4	10.7
503	0.1	0.4	5.7	16.4
504	1.8	2.2	74.7	91.1
505	421.1	423.2	17685.3	17776.4
506	386.6	809.9	16237.7	34014.1
507	401.5	1211.4	16862.9	50877.0
508	462.3	1673.7	19416.8	70293.8
509	531.3	2204.9	22312.9	92606.7
510	520.1	2725.1	21846.3	114453.0
511	509.3	3234.4	21389.9	135842.8
512	497.7	3732.1	20905.4	156748.2
513	486.4	4218.5	20429.7	177178.0
514	475.3	4693.8	19962.9	197140.8
515	467.0	5160.8	19612.3	216753.1
516	458.8	5619.6	19270.2	236023.3
517	450.9	6070.5	18936.5	254959.8
518	450.1	6520.6	18906.0	273865.9
519	449.5	6970.1	18877.9	292743.8
520	448.9	7419.0	18852.3	311596.1
521	451.7	7870.7	18972.5	330568.6
522	454.7	8325.3	19095.9	349664.5
523	457.7	8783.0	19222.4	368886.9
524	466.9	9249.9	19610.1	388497.0
525	476.3	9726.2	20005.1	408502.2
526	485.9	10212.1	20407.4	428909.5
527	504.1	10716.2	21172.6	450082.2
528	522.7	11238.9	21953.5	472035.6
529	541.7	11780.6	22749.9	494785.6
530	546.4	12327.0	22949.0	517734.6
531	551.2	12878.2	23150.3	540884.8
532	556.0	13434.3	23353.8	564238.7
533	546.8	13981.0	22964.0	587202.7
534	537.6	14518.6	22579.9	609782.6
535	528.6	15047.2	22201.7	631984.3
536	540.6	15587.9	22706.5	654690.7
537	552.8	16140.7	23218.9	677909.6
538	565.2	16705.9	23739.0	701648.7
539	578.1	17284.0	24281.3	725930.0
540	591.3	17875.3	24832.9	750762.9
541	604.6	18479.9	25393.7	776156.6
542	625.9	19105.8	26285.8	802442.4
543	647.6	19753.3	27198.1	829640.5
544	669.8	20423.1	28130.7	857771.2
545	685.9	21109.0	28806.2	886577.4
546	702.2	21811.2	29492.5	916069.9

LOCO HILLS G.S.F.
LOCO HILLS, NM

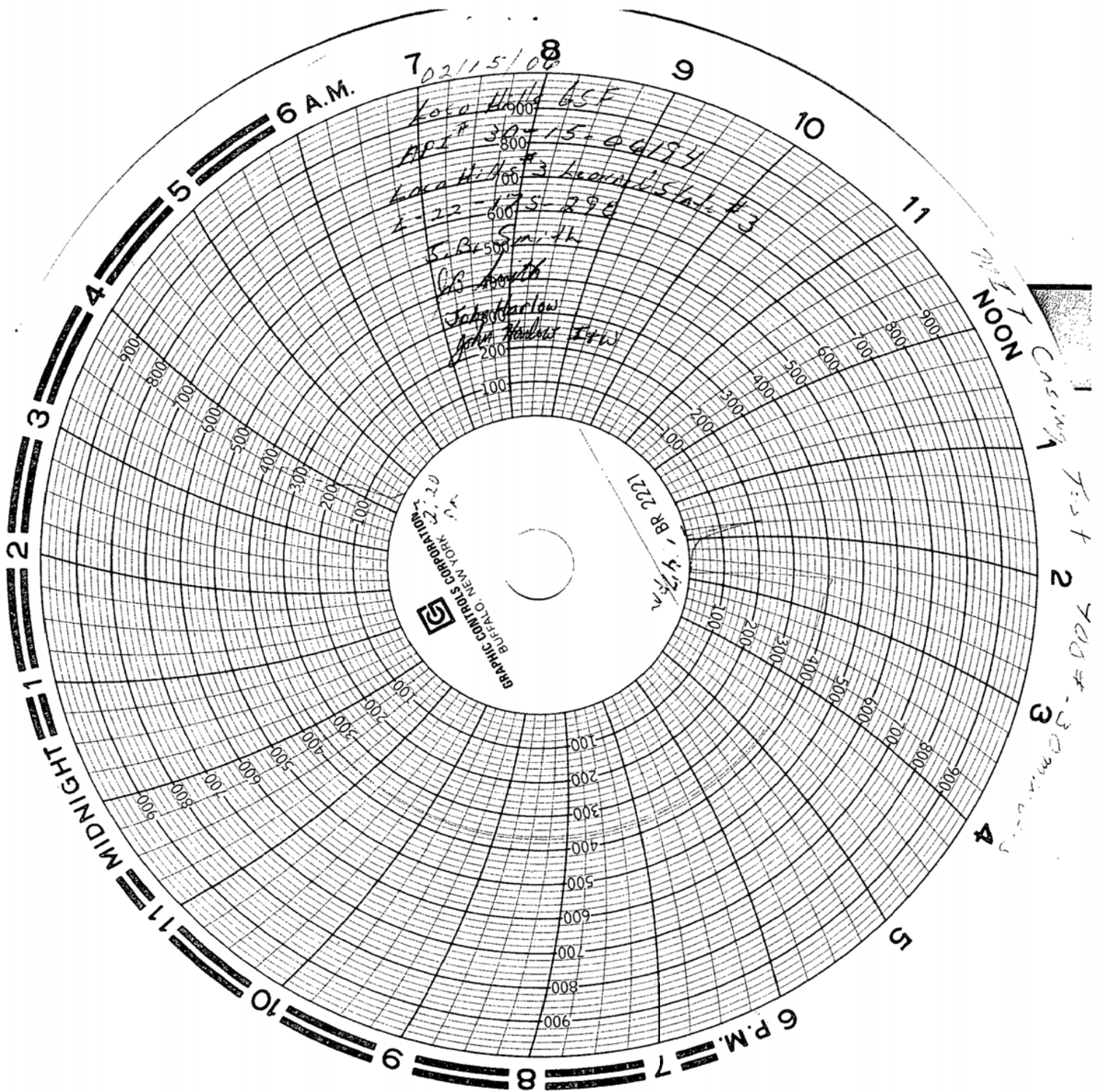
STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
547	718.8	22530.0	30189.6	946259.4
548	754.2	23284.2	31675.3	977934.7
549	790.5	24074.7	33202.1	1011136.8
550	827.9	24902.5	34769.9	1045906.7
551	844.9	25747.4	35484.2	1081390.8
552	862.1	26609.5	36209.8	1117600.6
553	879.7	27489.2	36946.9	1154547.5
554	904.9	28394.1	38006.1	1192553.6
555	930.7	29324.8	39087.7	1231641.3
556	956.9	30281.7	40191.6	1271833.0
557	973.2	31254.9	40873.8	1312706.8
558	989.6	32244.6	41564.5	1354271.3
559	1006.3	33250.8	42263.7	1396535.0
560	1008.5	34259.3	42355.4	1438890.4
561	1010.8	35270.1	42454.6	1481344.9
562	1013.4	36283.5	42561.2	1523906.1
563	1009.9	37293.4	42415.4	1566321.5
564	1006.7	38300.1	42283.4	1608604.9
565	1003.9	39304.1	42165.2	1650770.1
566	1018.9	40323.0	42794.7	1693564.8
567	1034.5	41357.5	43450.9	1737015.7
568	1050.8	42408.3	44134.0	1781149.7
569	1103.5	43511.8	46346.4	1827496.2
570	1158.4	44670.2	48653.8	1876149.9
571	1215.6	45885.9	51056.0	1927205.9
572	1268.5	47154.3	53276.2	1980482.1
573	1324.6	48478.9	55632.4	2036114.5
574	1383.9	49862.8	58124.8	2094239.3
575	1727.0	51589.9	72535.0	2166774.3
576	2115.0	53704.9	88830.5	2255604.7
577	2547.9	56252.8	107011.3	2362616.1
578	2806.7	59059.4	117880.4	2480496.4
579	3092.7	62152.1	129891.5	2610387.9
580	3149.3	65301.4	132270.6	2742658.6
581	3206.8	68508.2	134685.0	2877343.5
582	3725.3	72233.5	156462.2	3033805.7
583	4283.6	76517.1	179913.0	3213718.7
584	4292.4	80809.5	180281.7	3394000.4
585	4301.5	85111.0	180662.4	3574662.8
586	4290.1	89401.1	180185.0	3754847.7
587	4279.1	93680.3	179724.2	3934572.0
588	4096.7	97777.0	172060.3	4106632.3
589	3918.2	101695.2	164565.6	4271197.9
590	3744.0	105439.2	157248.7	4428446.6
591	4084.0	109523.2	171528.5	4599975.1
592	3349.4	112872.6	140673.1	4740648.2
593	2426.3	115298.9	101905.2	4842553.4
594	2041.1	117340.0	85727.0	4928280.4

LOCO HILLS G.S.F.
LOCO HILLS, NM

STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
595	1859.8	119199.8	78112.6	5006393.0
596	1471.9	120671.7	61818.2	5068211.2
597	1262.5	121934.2	53026.0	5121237.2
598	825.7	122760.0	34681.3	5155918.5
599	629.9	123389.9	26456.6	5182375.2
600	512.8	123902.6	21536.0	5203911.1
601	429.7	124332.3	18047.0	5221958.2
602	315.0	124647.4	13230.6	5235188.8
603	268.6	124915.9	11279.8	5246468.6
604	218.4	125134.4	9174.9	5255643.5
605	183.4	125317.7	7701.5	5263345.0
606	147.4	125465.1	6190.6	5269535.6
607	112.1	125577.3	4709.0	5274244.5
608	84.0	125661.3	3528.0	5277772.5
609	49.8	125711.0	2089.8	5279862.3
610	17.8	125728.8	749.2	5280611.5
611	1.7	125730.6	72.8	5280684.3



BOP In place when tested

Wildcat Measurement

Calibration Certificate

Pressure Recorder

Serial Number: 6068

Pressure Range 1000# p.s.i. accuracy +/- 0.2% % Full Scale _____ p.s.i. _____

Increasing Pressure			Decreasing Pressure		
Applied Pressure	Indicated Pressure	Difference	Applied Pressure	Indicated Pressure	Difference
0.0#	0.0#	0.0#	800.0#	800.0#	0.0#
100.0#	100.0#	0.0#	600.0#	600.0#	0.0#
300.0#	300.0#	0.0#	400.0#	400.0#	0.0#
500.0#	500.0#	0.0#	200.0#	200.0#	0.0#
700.0#	700.0#	0.0#	0.0#	0.0#	0.0#
1000.0#	1000.0#	0.0#			

Calibrated By: Crystal Gauge _____ Deadweight _____

This Is To Certify That This Recorder Has Been Inspected And Tested.

Remarks _____

Date Of Calibration 07-21-2005

Inspector 

Bus: (432) 683-3033
Fax: (432) 570-5253

P.O. Box 8715
Midland, Tx 79708-8715

MIDLAND

pipe
&
equipment

(DATE)

PAGE 1 OF 1 PAGE(S)

9/18 used 125' (WEIGHT)
T.R. EUE (COUPLING)

To: 19
TU Ft. 594.70' From Stock 27/8 125' EUE used w/ T.R. long
Shipped To: Logo Hills Gas Storage Trucking Co. M.D.E.
Part of: Logo Hills Gas Storage
594.70' - 27/8 125' EUE used w/ T.R. long

1	JT#	FEET	TOTAL	JT#	FEET	TOTAL	JT#	FEET	TOTAL
	1	32.90	32.90						
	2	32.00	64.90						
	3	32.00	96.90						
	4	31.60	128.50						
	5	33.00	161.50						
	6	31.40	192.90						
	7	31.30	224.20						
	8	30.80	255.00						
	9	30.90	285.90						
	10	28.80	314.70						
	11	29.20	343.90						
	12	31.80	375.70						
	13	32.00	407.70						
	14	31.60	439.30						
	15	32.10	471.40						
	16	31.80	503.20						
	17	31.60	534.80						
	18	31.80	566.60						
	19	33.10	599.70						

5'93' + 4' preferred sub

NEW LIMITED SERVICE/REJECT AND USED MATERIALS
ARE SOLD "AS IS, WITHOUT WARRANTY OF MERCHANTABILITY
OR FITNESS" ALL SALES MADE IN MIDLAND CO. TX. AND
REMAIN THE PROPERTY OF MIDLAND PIPE UNTIL PAID IN
FULL.

DRIVER

PURCHASER

Pine Yard - 2840 S. D. - L. - 11

6 AM

02/23/64

Looco Hills 651

ARI# 3015-06194

Looco Hills 651

22-175-292

S. G. Smith

for Smith

Looco Hills 651

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-500

METER

CHART PUT ON

2:30 A.M.

TAKEN OFF

11:35 A.M.

LOCATION

Looco Hills 651

REMARKS

Open hole 11.10 am

chart Recorder set

on 12 hr

11.11

MADE IN U.S.A.

Wildcat Measurement

Calibration Certificate

Pressure Recorder

Serial Number: 265-50140

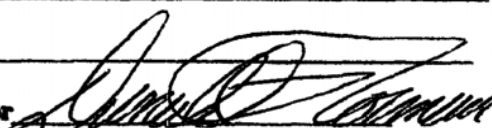
Pressure Range 500# p.s.i. accuracy +/- 0.2 % Full Scale _____ p.s.i. _____

Increasing Pressure			Decreasing Pressure		
<i>Applied Pressure</i>	<i>Indicated Pressure</i>	<i>Difference</i>	<i>Applied Pressure</i>	<i>Indicated Pressure</i>	<i>Difference</i>
0.0#	0.0#	0.0	400#	400#	0.0
50#	50#	0.0	300#	300#	0.0
150#	150#	0.0	200#	200#	0.0
250#	250#	0.0	100#	100#	0.0
350#	350#	0.0	0.0#	0.0#	0.0
500#	500#	0.0			

Calibrated By: Crystal Gauge Deadweight _____

This Is To Certify That This Recorder Has Been Inspected And Tested.

Remarks _____

Date Of Calibration 02/21/2006 Inspector 

JOB LOG					TICKET # 4228851		TICKET DATE 02/21/06	
REGION NORTH AMERICA LAND		NWA / COUNTRY Permian Basin / USA			BDA / STATE Midland		COUNTY EDDY	
MBU ID / EMPL # OD22102/ 301905		H.E.S EMPLOYEE NAME F. Castillo			PBL DEPARTMENT P.E./ Stimulation			
LOCATION Odessa, Tx.		COMPANY Loco Hills			CUSTOMER REP JB Smith		PHONE 505.677.2331	
TICKET AMOUNT 12,310.00 / 9,919.60		WELL TYPE gas			APPROVALS			
WELL LOCATION Loco Hills N.M.		DEPARTMENT Nitrogen Services			JOB PURPOSE CODE 14104			
LEASE / WELL # Leonard State #3		SEC / TWP / RNG N/A						
Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Pmps T C	Press.(PSI) Tbg Csg	Job Description / Remarks		
CST	08:45					ARRIVE ON LOCATION 02-21-06		
	08:50					CONDUCT LOCATION ASSESSMENT SAFETY MEETING		
	08:55					Spot & Set-up N2 Equip		
09:50	09:00					Cool down		
	10:15					Safety Meeting		
	10:20					TEST LINE		
	10:26	300		✓	1,000	START N2		
	10:31	300		✓	70	5 min N2		
	10:33	400		✓	245	INCREASE N2 Rate		
	10:41	400	5200	✓	305	15 min N2		
	10:42	400	5800	✓	310	SHUT DOWN N2 WELL HEAD		
	03:04	400		✓	130	START N2		
	03:09	450	8,000	✓	210	5 min N2		
	03:19	450	10,500	✓	240	15 min N2		
	03:34	450	20,200	✓	260	30 min N2		
	03:44	450	24,700	✓	300	40 min N2		
	03:46	700	25,600	✓	350	INCREASE N2		
	04:15	700	41,000	✓	480	SHUT DOWN		
						20,000 scf Nitrogen Hole		
						20,000 scf Cool down		
						40,000 scf N2 Total		
						8 - hours on loc		

Submit 3 Copies To Appropriate District Office
 District I
 1635 N. French Dr., Hobbs, NM 88240
 District II
 1501 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Grande Rd., Aztec, NM 87440
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

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

Form C-103
 Revised June 10, 2003

WELL API NO. 30-15-04194
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. BL-635
7. Lease Name or Unit Agreement Name Leaswell
8. Well Number 3
9. OGRID Number
10. Pool name or Wildcat

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 D-10) FOR SUCH PROPOSALS.)

1. Type of Well
 Oil Well ☐ Gas Well ☐ Other **Salt Water Storage**

2. Name of Operator
Loco Hills GSF LTD

3. Address of Operator
1231 Old Santa Fe Rd. Santa Fe, NM 87505

4. Well Location

Unit Letter **L** **19.25** feet from the **South** line and **560** feet from the **East** line
 Section **22** Township **12 S Range 2 E** NMPM County **El Paso**

11. Elevation (Show whether DR, RKE, NF, GR, etc.)
GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☒ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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. **Pull 2 3/8" tubing, cement well. Set 10' cement packer within 10' of bottom of casing shoe. Run MET (300' for 30 min) using calibrated pressure chart recorder. Run new 2 3/8" J 55 tubing, nipple up + run open hole with 10' test (300' for 4 hr) using a calibrated pressure chart recorder.**

IF MET ON CASING FAILS. Run CBL - set CIBP - spot 5 sacks cement. Run PLYS 10' 4" casing. Circulate cement up backside to surface. Run RBE + MET on new casing. Install 2 3/8" FL 4R tubing nipple up + run open hole with 10' test. Will notify OCA before work and before any test is run.

Estimate start date, depth, and casing unit.

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

SIGNATURE **John B. Smith** TITLE **Terminal Operator** DATE **Feb 4, 2006**
 Type of print name **John B. Smith** E-mail address: Telephone No. **505-622-73**
 (This space for State use)

APPROVED BY: **Accepted for record** TITLE DATE
 Conditions of approval, if any: **NMOCD**

MAR 07 2006
 MA 006

1" 2145 casing

Exposing 5" casing

Exposed casing to top
between 5" and 4" casing

500



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
Revised June 10, 2003

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

WELL API NO. <u>30-15-06194</u>
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. <u>BL-635</u>
7. Lease Name or Unit Agreement Name <u>Leonard</u>
8. Well Number <u>3</u>
9. OGRID Number <u>000-ARTESIA</u>
10. Pool name or Wildcat

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 Salt dome storage

2. Name of Operator
Leas Hill GSF LTD

3. Address of Operator
1231 Old Arnette Rd. Alamo, Texas

4. Well Location
56008

Unit Letter L : 1925 feet from the South line and 560 feet from the West line

Section 22 Township 17S Range 29E NMPM County Eddy

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

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

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☒ MULTIPLE COMPLETION ☐
if needed
OTHER: ☐

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

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. Pull 2 3/8" tubing, sonar well. Set tension packer within 1' of bottom of casing shoe. Run MIT (300# for 30 min) using calibrated pressure chart recorder. Run new 2 3/8" J55 tubing, nipple up + run open hole nitrogen test (300# for 4 hr.) using a calibrated pressure chart recorder.

IF MIT ON casing fails. Run CBL - set CIBP - spot 5 sacks cement - Run FLYS 10# 4" casing. Circulate cement up backside to surface. Run EBL + MIT on new casing. Install 2 3/8" FLYS tubing nipple up and run open hole nitrogen test. Will notify OCA once works and before any test is run.

Estimated start date dependent upon pulling unit

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

SIGNATURE John B. Smith TITLE Terminal Operator DATE Feb 1, 2006

Type or print name John B. Smith E-mail address: Telephone No. 505-622-2157
(This space for State use)

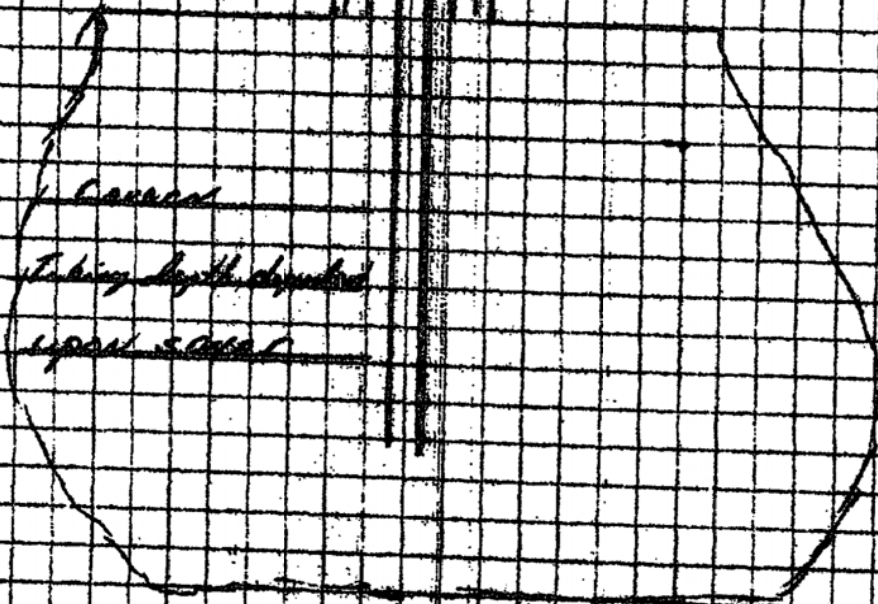
APPROVED BY _____ Accepted for record _____ TITLE _____ DATE MAR 07 2006
Conditions of approval, if any: NWOC

4" F145 Casing

Existing 5 1/2" Casing

Extend from shoe to Top
between 5 1/2" and 4" Casing

540'



Cave
Piling depth depends
upon sand

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 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

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

WELL API NO. <u>30-15-06194</u>
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. <u>BL-635</u>
7. Lease Name or Unit Agreement Name <u>Leonard</u>
8. Well Number <u>Leonard State #3</u>
9. OGRID Number
10. Pool name or Wildcat

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 <u>Salt Dome Storage</u>
2. Name of Operator <u>Looco Hills GSF LTD</u>
3. Address of Operator <u>1231 Old Avenue HA Rd. Alamo, Texas 76008</u>
4. Well Location

Unit Letter L : 1975 feet from the South line and 560 feet from the West line

Section 22 Township 17S Range 29E NMPM County Eddy

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

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

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.

02/15/06 Sonared well, RAN MIT on casing using high pressure chart recorder (400# - 30 min) Packer set at 492'
02/16/06 RAN 600' 5-55 plastic coated 2 7/8" tubing. Hydro static test done on tubing (1500#) Nipped up.
02/21/06 Expected Nitrogen for open hole Nitrogen test. (Appro 400#)
02/23/06 RAN 4hr open hole Nitrogen test using high pressure chart recorder (400#)

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

SIGNATURE John B. Smith TITLE Terminal Operator DATE 02/24/06
Type or print name John B. Smith E-mail address: Telephone No. (505) 677-
(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____
Conditions of approval, if any:

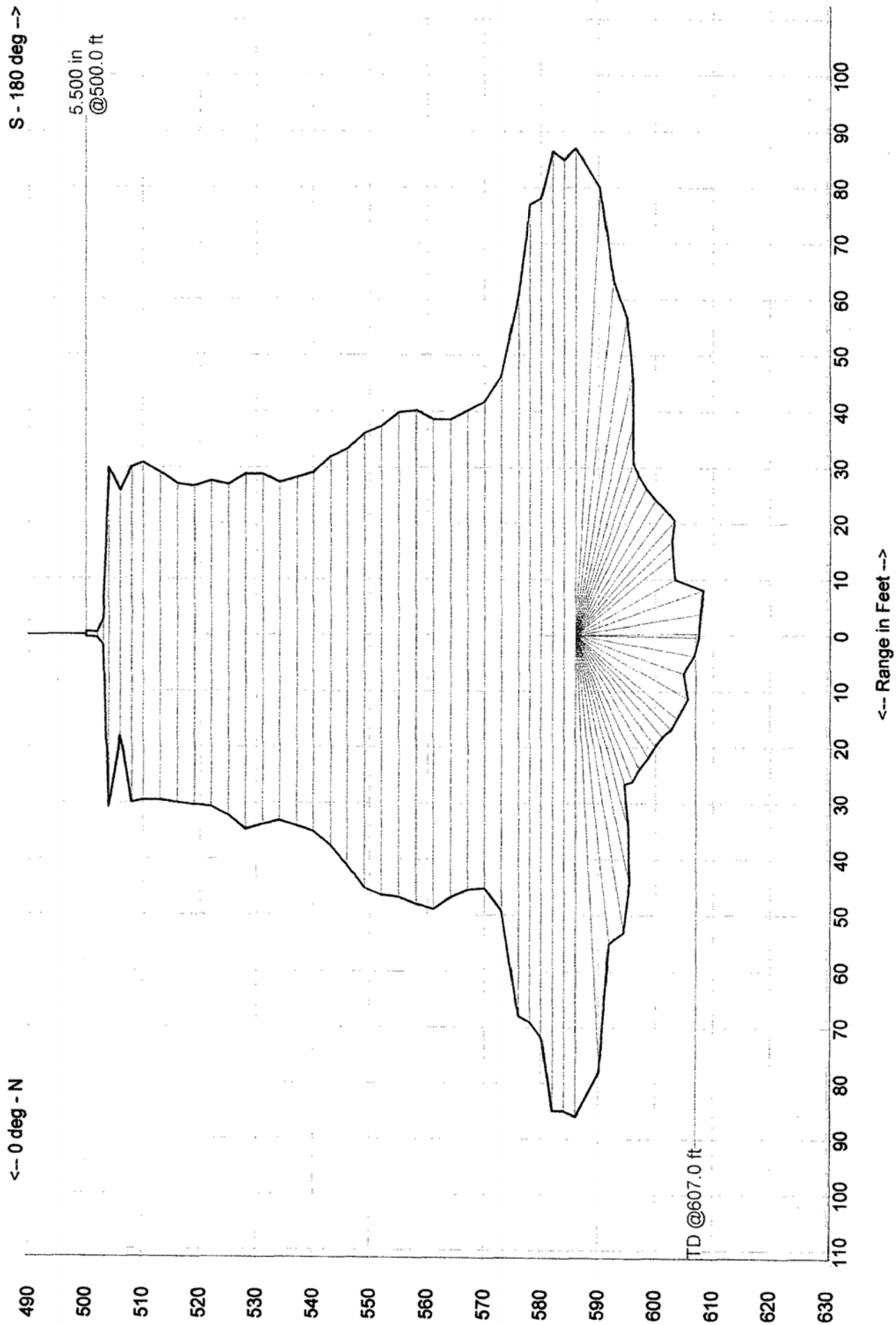
Accepted for record - NMOCD

MAR 14 2006

LOCO HILLS G.S.F.
LOCO HILLS, NM

SONARWIRE, INC
Vertical Cross Section

STORAGE WELL NO. 3
Wed, Feb 15, 2006



SONARWIRE INC.
Depth versus Volume

LOCO HILLS G.S.F.
LOCO HILLS, NM

STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
501	0.1	0.1	5.3	5.3
502	0.1	0.3	5.4	10.7
503	0.1	0.4	5.7	16.4
504	1.8	2.2	74.7	91.1
505	421.1	423.2	17685.3	17776.4
506	386.6	809.9	16237.7	34014.1
507	401.5	1211.4	16862.9	50877.0
508	462.3	1673.7	19416.8	70293.8
509	531.3	2204.9	22312.9	92606.7
510	520.1	2725.1	21846.3	114453.0
511	509.3	3234.4	21389.9	135842.8
512	497.7	3732.1	20905.4	156748.2
513	486.4	4218.5	20429.7	177178.0
514	475.3	4693.8	19962.9	197140.8
515	467.0	5160.8	19612.3	216753.1
516	458.8	5619.6	19270.2	236023.3
517	450.9	6070.5	18936.5	254959.8
518	450.1	6520.6	18906.0	273865.9
519	449.5	6970.1	18877.9	292743.8
520	448.9	7419.0	18852.3	311596.1
521	451.7	7870.7	18972.5	330568.6
522	454.7	8325.3	19095.9	349664.5
523	457.7	8783.0	19222.4	368886.9
524	466.9	9249.9	19610.1	388497.0
525	476.3	9726.2	20005.1	408502.2
526	485.9	10212.1	20407.4	428909.5
527	504.1	10716.2	21172.6	450082.2
528	522.7	11238.9	21953.5	472035.6
529	541.7	11780.6	22749.9	494785.6
530	546.4	12327.0	22949.0	517734.6
531	551.2	12878.2	23150.3	540884.8
532	556.0	13434.3	23353.8	564238.7
533	546.8	13981.0	22964.0	587202.7
534	537.6	14518.6	22579.9	609782.6
535	528.6	15047.2	22201.7	631984.3
536	540.6	15587.9	22706.5	654690.7
537	552.8	16140.7	23218.9	677909.6
538	565.2	16705.9	23739.0	701648.7
539	578.1	17284.0	24281.3	725930.0
540	591.3	17875.3	24832.9	750762.9
541	604.6	18479.9	25393.7	776156.6
542	625.9	19105.8	26285.8	802442.4
543	647.6	19753.3	27198.1	829640.5
544	669.8	20423.1	28130.7	857771.2
545	685.9	21109.0	28806.2	886577.4
546	702.2	21811.2	29492.5	916069.9

LOCO HILLS G.S.F.
LOCO HILLS, NM

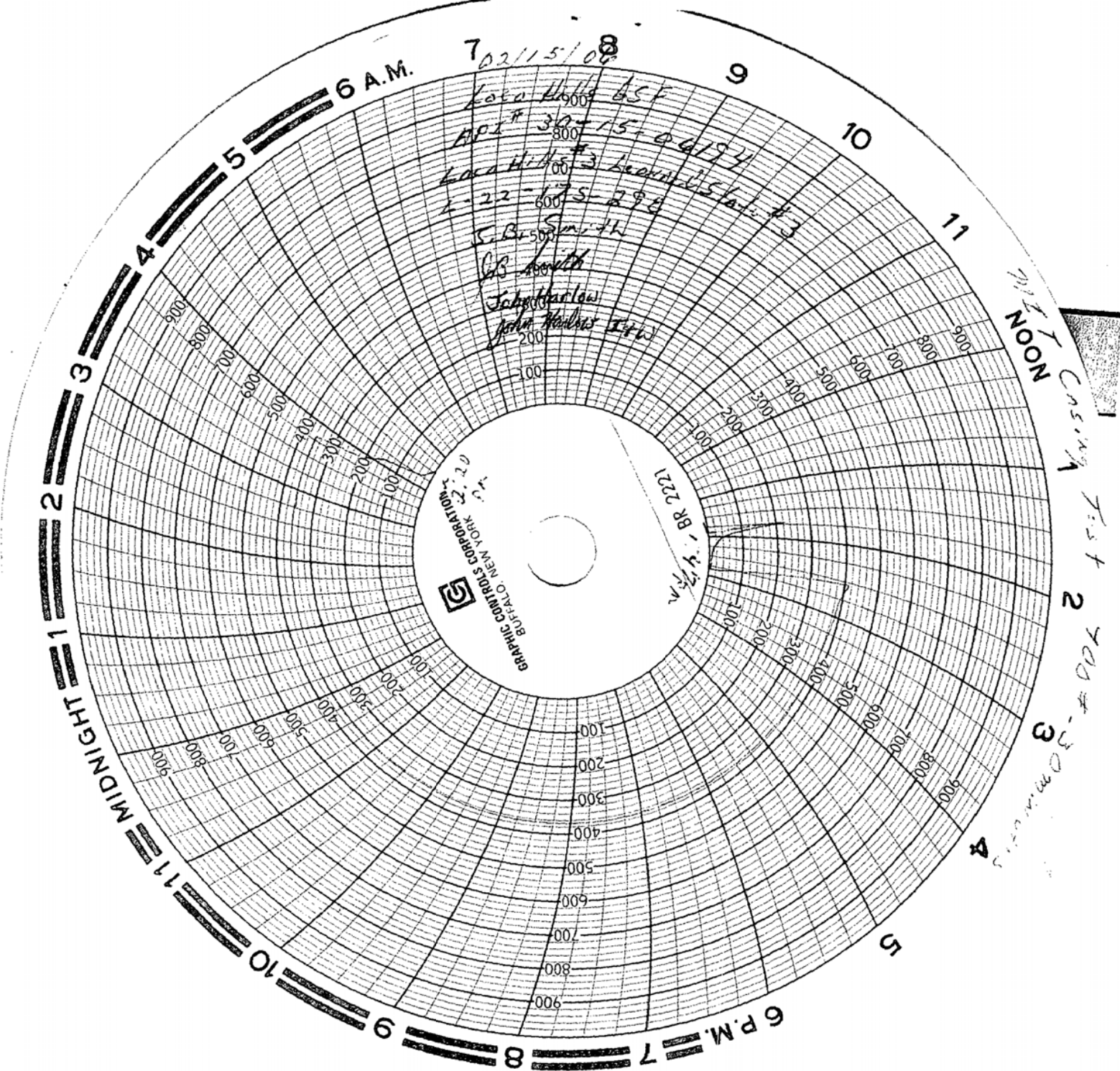
STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
547	718.8	22530.0	30189.6	946259.4
548	754.2	23284.2	31675.3	977934.7
549	790.5	24074.7	33202.1	1011136.8
550	827.9	24902.5	34769.9	1045906.7
551	844.9	25747.4	35484.2	1081390.8
552	862.1	26609.5	36209.8	1117600.6
553	879.7	27489.2	36946.9	1154547.5
554	904.9	28394.1	38006.1	1192553.6
555	930.7	29324.8	39087.7	1231641.3
556	956.9	30281.7	40191.6	1271833.0
557	973.2	31254.9	40873.8	1312706.8
558	989.6	32244.6	41564.5	1354271.3
559	1006.3	33250.8	42263.7	1396535.0
560	1008.5	34259.3	42355.4	1438890.4
561	1010.8	35270.1	42454.6	1481344.9
562	1013.4	36283.5	42561.2	1523906.1
563	1009.9	37293.4	42415.4	1566321.5
564	1006.7	38300.1	42283.4	1608604.9
565	1003.9	39304.1	42165.2	1650770.1
566	1018.9	40323.0	42794.7	1693564.8
567	1034.5	41357.5	43450.9	1737015.7
568	1050.8	42408.3	44134.0	1781149.7
569	1103.5	43511.8	46346.4	1827496.2
570	1158.4	44670.2	48653.8	1876149.9
571	1215.6	45885.9	51056.0	1927205.9
572	1268.5	47154.3	53276.2	1980482.1
573	1324.6	48478.9	55632.4	2036114.5
574	1383.9	49862.8	58124.8	2094239.3
575	1727.0	51589.9	72535.0	2166774.3
576	2115.0	53704.9	88830.5	2255604.7
577	2547.9	56252.8	107011.3	2362616.1
578	2806.7	59059.4	117880.4	2480496.4
579	3092.7	62152.1	129891.5	2610387.9
580	3149.3	65301.4	132270.6	2742658.6
581	3206.8	68508.2	134685.0	2877343.5
582	3725.3	72233.5	156462.2	3033805.7
583	4283.6	76517.1	179913.0	3213718.7
584	4292.4	80809.5	180281.7	3394000.4
585	4301.5	85111.0	180662.4	3574662.8
586	4290.1	89401.1	180185.0	3754847.7
587	4279.1	93680.3	179724.2	3934572.0
588	4096.7	97777.0	172060.3	4106632.3
589	3918.2	101695.2	164565.6	4271197.9
590	3744.0	105439.2	157248.7	4428446.6
591	4084.0	109523.2	171528.5	4599975.1
592	3349.4	112872.6	140673.1	4740648.2
593	2426.3	115298.9	101905.2	4842553.4
594	2041.1	117340.0	85727.0	4928280.4

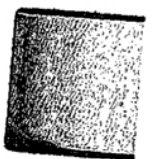
LOCO HILLS G.S.F.
LOCO HILLS, NM

STORAGE WELL NO. 3
Wed, Feb 15, 2006

Depth	Barrels per ft.	Barrels total	Gallons per ft.	Gallons total
595	1859.8	119199.8	78112.6	5006393.0
596	1471.9	120671.7	61818.2	5068211.2
597	1262.5	121934.2	53026.0	5121237.2
598	825.7	122760.0	34681.3	5155918.5
599	629.9	123389.9	26456.6	5182375.2
600	512.8	123902.6	21536.0	5203911.1
601	429.7	124332.3	18047.0	5221958.2
602	315.0	124647.4	13230.6	5235188.8
603	268.6	124915.9	11279.8	5246468.6
604	218.4	125134.4	9174.9	5255643.5
605	183.4	125317.7	7701.5	5263345.0
606	147.4	125465.1	6190.6	5269535.6
607	112.1	125577.3	4709.0	5274244.5
608	84.0	125661.3	3528.0	5277772.5
609	49.8	125711.0	2089.8	5279862.3
610	17.8	125728.8	749.2	5280611.5
611	1.7	125730.6	72.8	5280684.3



BOP in place when tested



Wildcat Measurement

Calibration Certificate

Pressure Recorder

Serial Number: 6068

Pressure Range 1000# p.s.i. accuracy +/- 0.2% % Full Scale _____ p.s.i. _____

Increasing Pressure			Decreasing Pressure		
Applied Pressure	Indicated Pressure	Difference	Applied Pressure	Indicated Pressure	Difference
0.0#	0.0#	0.0#	800.0#	800.0#	0.0#
100.0#	100.0#	0.0#	600.0#	600.0#	0.0#
300.0#	300.0#	0.0#	400.0#	400.0#	0.0#
500.0#	500.0#	0.0#	200.0#	200.0#	0.0#
700.0#	700.0#	0.0#	0.0#	0.0#	0.0#
1000.0#	1000.0#	0.0#			

Calibrated By: Crystal Gauge _____ Deadweight _____

This Is To Certify That This Recorder Has Been Inspected And Tested.

Remarks _____

Date Of Calibration 07-21-2005

Inspector 

Bus: (432) 683-3033
Fax: (432) 570-5253

9/15 used 125V
SIZE (WEIGHT)
TRC EUE
(GRADE) (COUPLING)

MIDLAND
pipe
&
equipment

P.O. Box 8715
Midland, Tx 79708-8715
(DATE) 9-15-11
PAGE 1 OF 1 PAGE(S)

Tu. 19
Tr Ft. 599.70' From Stock 0 Shipped To Local Hillsboro Storage Trucking Co. RTF
Part of 19 ft 599.70' - 27/8" 12.5" EUE used with
same TRC lining

1	JT#	FEET	TOTAL	JT#	FEET	TOTAL	JT#	FEET	TOTAL
	1	32.90	32.90						
	2	32.00	64.90						
	3	32.00	96.90						
	4	31.60	128.50						
	5	33.00	161.50						
	6	31.40	192.90						
	7	31.30	224.20						
	8	30.80	255.00						
	9	30.90	285.90						
	10	28.80	314.70						
	11	29.20	343.90						
	12	31.80	375.70						
	13	32.00	407.70						
	14	31.60	439.30						
	15	32.10	471.40						
	16	31.80	503.20						
	17	31.60	534.80						
	18	31.80	566.60						
	19	33.10	599.70						

5'93' + 4' preferred sub

NEW LIMITED SERVICE/REJECT AND USED MATERIALS
ARE SOLD "AS IS, WITHOUT WARRANTY OF MERCHANTABILITY
OR FITNESS" ALL SALES MADE IN MIDLAND CO. TX. AND
REMAIN THE PROPERTY OF MIDLAND PIPE UNTIL PAID IN
FULL.

DRIVER

PURCHASER

Pine Yard - 2840 S. D. - L. 11

6 AM

02/23/64

Loco Hills BSEF

APL 30-15-06194

Loco Hills 113 Locust St. #3

1-22-125-292

S. B. Smith

for Smith

Open hole

Nitrogen Test

400 NOU



GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-500

METER

Open hole Nitrogen Test

TAKEN OFF
11:35 A.M.

CHART PUT ON
7:30 A.M.

LOCATION Loco Hills BSEF Well #3

REMARKS Chart Recorder set on 12hr.

11:35 A.M.

6 PM

Wildcat Measurement
Calibration Certificate
Pressure Recorder

Serial Number: 265-50140

Pressure Range 500# p.s.i. accuracy +/- 0.2 % Full Scale _____ p.s.i. _____

Increasing Pressure			Decreasing Pressure		
<i>Applied Pressure</i>	<i>Indicated Pressure</i>	<i>Difference</i>	<i>Applied Pressure</i>	<i>Indicated Pressure</i>	<i>Difference</i>
0.0#	0.0#	0.0	400#	400#	0.0
50#	50#	0.0	300#	300#	0.0
150#	150#	0.0	200#	200#	0.0
250#	250#	0.0	100#	100#	0.0
350#	350#	0.0	0.0#	0.0#	0.0
500#	500#	0.0			

Calibrated By: Crystal Gauge Deadweight _____

This Is To Certify That This Recorder Has Been Inspected And Tested.

Remarks _____

Date Of Calibration 02/21/2006 Inspector 

JOB LOG					TICKET # 4228851		TICKET DATE 02/21/06	
REGION NORTH AMERICA LAND		NWA / COUNTRY Permian Basin / USA			BDA / STATE Midland		COUNTY EDDY	
NBSU ID / EMPL # OD22102/ 301905		N.E.S EMPLOYEE NAME F. Castillo			PSL DEPARTMENT P.E./ Stimulation			
LOCATION Odessa, Tx.		COMPANY Loco Hills			CUSTOMER REP JB Smith		PHONE 505.677.2331	
TICKET AMOUNT 10,310.00 / 9,919.60		WELL TYPE gas			API#			
WELL LOCATION Loco Hills N.M.		DEPARTMENT Nitrogen Services			JOB PURPOSE CODE 14104			
LEASE / WELL # Leonard State #3		SEC / TWP / RNG N/A						
Chart No.	Time	Rate (BPM)	Volume (BBL/GAL)	Pmps T C	Press:(PSI) Tbg Csg	Job Description / Remarks		
CST	08:45					ARRIVE ON LOCATION 02-21-06		
	08:50					CONDUCT LOCATION ASSESSMENT SAFETY MEETING		
	08:55					Spot & Set-up N2 Equip.		
09:50	09:00					Cool down		
	10:15					Safety Meeting		
	10:20				1,000	TEST LINE		
	10:26	300			70	START N2		
	10:31	300			245	5 min N2		
	10:33	400			265	INCREASE N2 Rate		
	10:41	400	5200		305	15 min N2		
	10:47	400	5800		310	SHUT DOWN N2 WELL HEAD LEAK		
	03:04	400			130	START N2		
	03:09	450	8,000		210	5 min N2		
	03:19	450	10,500		240	15 min N2		
	03:34	450	20,200		260	30 min N2		
	03:44	450	24,700		300	40 min N2		
	03:46	700	25,600		350	INCREASE N2		
	04:15	700	41,000		480	SHUT DOWN		
						20,000 scf Nitrogen Note		
						20,000 scf Cool down		
						40,000 scf N2 Total		
						8 - hours on loc		

Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy, Minerals and Natural Resources

Revised March 25, 1999

RECEIVED

JUN 18 2010

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

NMOCD ARTESIA

WELL API NO.

30-15-06194

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

64-635

7. Lease Name or Unit Agreement Name:

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

Salt Dome Storage

2. Name of Operator

Loca Hills LSF LTD

3. Address of Operator

1231 Old Anna Ha Rd Alhedo, Texas 76008

4. Well Location

Unit Letter L : 192.5 feet from the South line and 560 feet from the West lineSection 22Township 12S Range 29E

NMPM

County El Paso

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

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☐OTHER: ☐

12. 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.

Sonar Well for capacity and configuration
MIT Test (run 300' for 30 min) chart recorded
If we can't get a good MIT Nipple up and notify OCO

Estimated start date June 22 2010

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

SIGNATURE

John B. Smith

TITLE

Terminal Operator

DATE 6/18/10

Type or print name

Telephone No.

(This space for State use)

APPROVED BY

Signed By

Mike Brannan

TITLE

DISTRICT

DATE

6/18/10

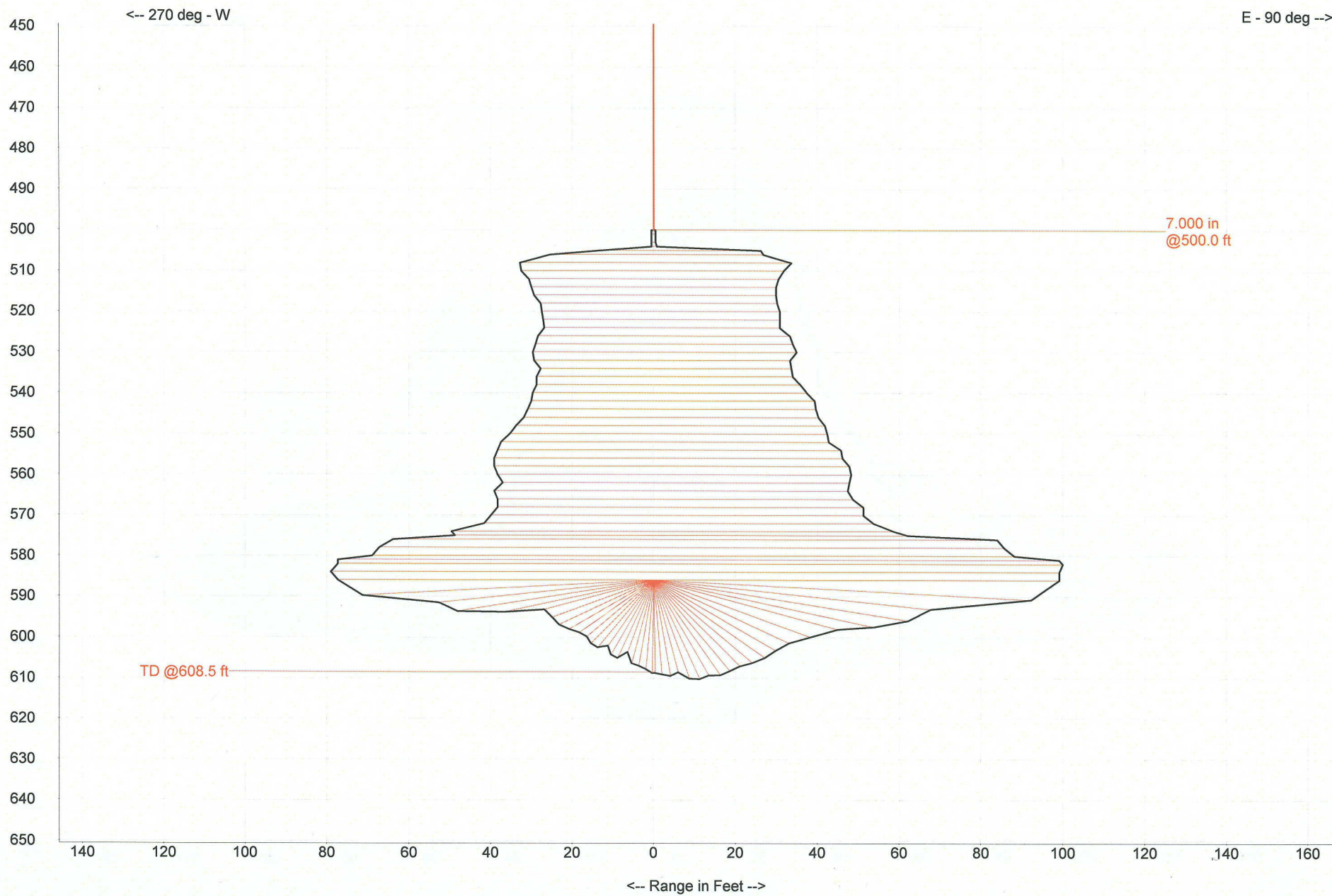
Conditions of approval, if any:

Notify OCO 20 hrs. prior to running tests

LOCO HILLS GSF
STORAGE WELL NO. 3

SONARWIRE GLOBAL, LLC
Vertical Cross Section

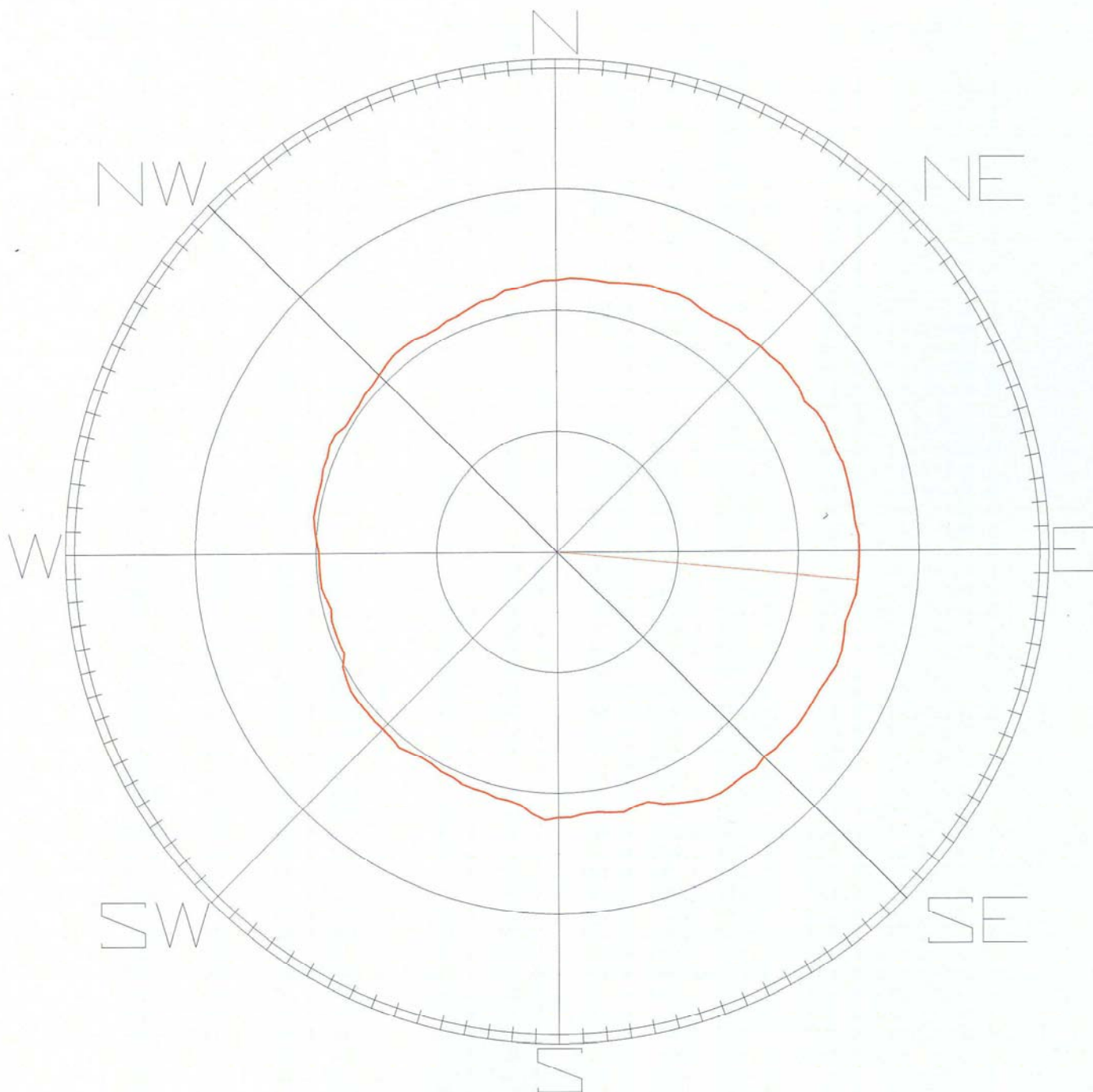
LOCO HILLS, NM
Tue, Jun 22, 2010



LOCO HILLS GSF
LOCO HILLS, NM
STORAGE WELL NO. 3

SONARWIRE GLOBAL, LLC
Max Range vs Bearing

Max Radius=100.0 ft @ 95.6 deg
Depth= 584 ft. Tue, Jun 22, 2010



1 inch = 50.0 ft.

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160