

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION COMMISSION

BEFORE THE OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

Submitted by: Goodnight Midstream Permian, LLC

Hearing Date: September 23, 2024

Case Nos. 23614-23617, 23775, 24018 – 24020, 24025, 24123

MCBEATH TESTIMONY AND EXHIBIT PACKET

PART 5 OF 5

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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| LAND OFFICE | |
| OPERATOR | |

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

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. OIL WELL GAS WELL OTHER- Water Supply

2. Name of Operator
CHEVRON U.S.A. INC.

3. Address of Operator
P.O. BOX 670, Hobbs, NM 88240

4. Location of Well
UNIT LETTER L 2590 FEET FROM THE South LINE AND 50 FEET FROM
THE West LINE, SECTION 9 TOWNSHIP 21S RANGE 36E NMPM.

7. Unit Agreement Name
Eunice Monument South Unit

8. Farm or Lease Name

9. Well No.
462

10. Field and Pool, or Wildcat
Eunice Monument G/SA

11. Elevation (Show whether DF, RT, GR, etc.)
3589.8' GL

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING

TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT

PULL OR ALTER CASING OTHER CASING TEST AND CEMENT JOBS

OTHER completion

17. 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.

4-12-87 ND Blind flange and valves, NU ball valves and acme thread seaboard tubing head. NU adapter flange and hydril. function test ok. RU Gearhart and ran FDC/CNL/GR f/4998-4100, logger TD = 4998, repeat f/4998-4800, tied into Schlumberger LDT/CNL/GR dated 2/15/87. RU flowline to frac tank, unload and strap tubing, make upper pigtail splice, MU pump, x/o, check drain valve, , 4/12, pu motor section, make connection, ok. MU equalizer and fill w/oil, ok. MU stage pump, made motor flat conneciton, ok. RU & run 4 1/2" IPC torque to 1500ft-lbs, ran 2 superbands per joint. Install Seaboard hanger, install lower pigtail, make splice to lower pigtail, checked surface equip 2400 volts at ESCO panel balanced 3000V at j box balanced. Install lower pigtail, land tubing and hanger, check mandrel, ok. nd bop, nu seaboard cap, install pup jt, and IPC valve, make upper pigtail connection to j box, ok. Start pump and test well, voltage 2350. Turned well over to production department.

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

SIGNED M. E. Abwin TITLE STAFF DRILLING ENGINEER DATE MAY 20, 1987

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON TITLE DISTRICT I SUPERVISOR DATE JUN 17 1987

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HOBBS OFFICE

RECEIVED

JUN 9 1997

HOBBS OFFICE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

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5a. Indicate Type of Lease
State Fee
5. State Oil & Gas Lease No.

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. OIL WELL GAS WELL OTHER- Water Supply

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Chevron U.S.A. Inc.

3. Address of Operator
P.O. Box 670 Hobbs, NM 88240

4. Location of Well
UNIT LETTER L 2590 FEET FROM THE South LINE AND 50 FEET FROM
THE West LINE, SECTION 9 TOWNSHIP 21S RANGE 36E NMPM.

7. Unit Agreement Name
Eunice Monument South Un

8. Farm or Lease Name

9. Well No.
462

10. Field and Pool, or Wildcat
Eunice Monument G/SA

15. Elevation (Show whether DF, RT, GR, etc.)
3589.8' GL

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING

TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT

PULL OR ALTER CASING OTHER CASING TEST AND CEMENT JOB OTHER

17. 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.

TD 10 5/8" hole 3:00 AM 2/15/87 @ 4325'. Ran open hole logs. Ran 102 joints 8 5/8" 32# K55 ST&C set @ 4321'. Cemented with 550 sacks class "C" 16% Gel, 1.88#/sack salt, .2% WR2, 1/4#/sack Celloflake, 1/2#/sack Tuffplug, and 300 sacks class "C" 1.3% CF-1, 2% CACL2, 1/4#/sack Celloflake, 1/2#/sack Tuffplug. Plug down 2:00 AM 2/16/87. Circulated 128 sacks to surface. Tested casing to 2000 psi for 30 minutes (OK). Total WOC befor drill out = 12 hours. (Compressive strength of cement in 12 hours = 1900 psi.) TD 7 7/8" hole 10:00 AM 2/17/87 @ 5000'. Well is now closed-in pending open hole completion.

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

SIGNED M. E. Abain TITLE Staff Drilling Engineer DATE 2-23-1987

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR TITLE _____ DATE FEB 28 1987

RECEIVED
FEB 25 1927
OCD
MOORE DEUCE

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ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

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5a. Indicate Type of Lease
State Fee
5. State Oil & Gas Lease No.

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. OIL WELL GAS WELL OTHER- Water Supply

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Chevron U.S.A. Inc.

3. Address of Operator
P.O. Box 670 Hobbs, NM 88240

4. Location of Well
UNIT LETTER L 2590 FEET FROM THE South LINE AND 50 FEET FROM
THE West LINE, SECTION 9 TOWNSHIP 21S RANGE 36E NMPM.

7. Unit Agreement Name
Eunice Monument South Un

8. Farm or Lease Name

9. Well No.
462

10. Field and Pool, or Wildcat
Eunice Monument G/SA

15. Elevation (Show whether DF, RT, GR, etc.)
3589.8' GL

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK

TEMPORARILY ABANDON

PULL OR ALTER CASING

OTHER _____

PLUG AND ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

REMEDIAL WORK

COMMENCE DRILLING OPNS.

CASING TEST AND CEMENT JOB

OTHER _____

ALTERING CASING

PLUG AND ABANDONMENT

17. 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.

Spudded 20" hole 5:30 PM 2/7/87. Td 20" hole !:30 AM 2/8/87 @ 416'. Ran 10 joints 16" 65# H40 ST&C set @ 416'. Cemented with 475 sacks class "C" 2% CACL2. Plug down 8:30 AM 2/8/87. Circulated 86 sacks to surface. Tested casing to 1000 psi for 30 minutes (OK). Total WOC before drill out = 21 hours.

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

SIGNED M. E. Adams TITLE Staff Drilling Engineer DATE 2/23/1987

APPROVED BY DISTRICT SUPERVISOR TITLE _____ DATE FEB 26 1987

RECEIVED
FEB 25 1987
OCD
HOBBBS OFFICE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

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. OIL WELL GAS WELL OTHER- Water Supply

2. Name of Operator
Chevron U.S.A. Inc.

3. Address of Operator
P.O. Box 670 Hobbs, NM 88240

4. Location of Well
UNIT LETTER L 2590 FEET FROM THE South LINE AND 50 FEET FROM
THE West LINE, SECTION 9 TOWNSHIP 21S RANGE 36E NMPM.

7. Unit Agreement Name
Eunice Monument South Unit

8. Farm or Lease Name

9. Well No.
462

10. Field and Pool, or Wildcat
Eunice Monument G/SA

15. Elevation (Show whether DF, RT, GR, etc.)
3589.8' GL

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK

TEMPORARILY ABANDON

PULL OR ALTER CASING

OTHER _____

PLUG AND ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

REMEDIAL WORK

COMMENCE DRILLING OPNS.

CASING TEST AND CEMENT JOB

OTHER _____

ALTERING CASING

PLUG AND ABANDONMENT

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

TD 14 3/4" hole 4:00 PM 2/11/87 @ 2700'. Ran 60 joints 11 3/4" 54# K55 ST&C set @ 2700'. Cemented with 900 sacks class "C" 16% Gel, 2% Salt, .2% WR2 and 200 sacks class "C" 2% CACL2. Plug down 3:00 AM 2/12/87. Circulated 311 sacks to surface. Tested casing to 2000 psi for 30 minutes (OK). Total WOC before drill out = 14 1/2 hours. (Compressive strength of cement in 12 hours = 1450 psi.)

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

SIGNED M. E. Akwin TITLE Staff Drilling Engineer DATE 2-23-1987

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR TITLE _____ DATE FEB 26 1987

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FEB 25 1987
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OIL CONSERVATION DIVISION
P. O. BOX 2038
SANTA FE, NEW MEXICO 87501

Form C-101
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5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

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 TO DRILL" (FORM C-101) FOR SUCH PROPOSALS.)

1. Well Type: Oil Gas OTHER- Water Supply

7. Unit Agreement Name
Eunice Monument South Unit

2. Name of Operator
Chevron U.S.A. Inc.

8. Form or Lease Name

3. Address of Operator
P.O. Box 670 Hobbs, NM 88240

9. Well No.
462

4. Location of Well
NE 1/4 CORNER L 2590 FEET FROM THE South LINE AND 50 FEET FROM

10. Field and Pool, or Block
Eunice Monument, San Andres

West LINE, SECTION 9 TOWNSHIP 21S RANGE 36E NMPM.

11. Elevation (Show whether DF, RT, GR, etc.)
3589.8' GL

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

REMEDIAL WORK

EARLY ABANDON

ALTER CASING

PLUG AND ABANDON

CHANGE PLANS

OTHER

SUBSEQUENT REPORT OF:

REMEDIAL WORK

COMMENCE DRILLING OPNS.

CASING TEST AND CEMENT JOBS

OTHER

ALTERING CASING

PLUG AND ABANDONMENT

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.

We request an extension of the Application For Permit To Drill.

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

M. E. Ahern

TITLE: Staff Drilling Engineer

DATE 12-11-1986

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

DATE DEC 16 1986

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Location
STATE FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | |
|--|--|---|--|
| 1a. Type of Work | | Eunice Monument South Unit | |
| b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water Supply SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | 8. Firm or Lease Name | |
| 2. Name of Operator Chevron U.S.A. Inc. | | 9. Well No. 462 | |
| 3. Address of Operator P.O. Box 670 Hobbs, NM 88240 | | 10. Field and Block or Wildcat Eunice Monument South Unit 6B-8A | |
| 4. Location of Well UNIT LETTER L LOCATED 2590 FEET FROM THE South LINE AND 50 FEET FROM THE West LINE OF SEC. 9 TWP. 21S RGE. 36E NMPM | | 11. County Lea | |
| 18. Proposed Depth 5000 | | 19A. Formation San Andres | 20. Industry or C.T. Rotary |
| 21. Elevations (show whether DF, KI, etc.) 3589.8 GL | 21A. Kind & Status Plug. Bond Blanket | 21B. Drilling Contractor Unknown | 22. Approx. Date Work will start ASAP |

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 20" | 16 | 65 | 400 | 500 | Circ |
| 14 3/4" | 11 3/4 | 47 | 2800 | 1000 | Circ |
| 10 5/8" | 8 5/8 | 32 | 5000 | 700 | 2600 |

Mud Program: 0- 400 FW Spud 32-36 vis 8 ph
400-2800 Brine Water 10.0-10.2 ppg 29-31 vis 9ph
2800-5000 FW Gel 8.4-8.6 ppg 28-32 vis 9 ph

See attached BOP drawings: Diverter system to be used from 400-2800. Class Three Preventer to be used from 2800-TD.

The Eunice Monument South Unit #322, located in the same quarter-quarter section, is operated by Chevron U.S.A. Inc. and produces from the Eunice Monument.

Permit Expires 6 Months From Approval Date Unless Drilling Underway.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed P. H. Bullock Jr. Title Division Drilling Manager Date 2-5-1986

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT I SUPERVISOR TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

FEB 10 1986

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FEB - 6 1986
OFFICE
HOBBS

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

| | | | | |
|--|--|---|-------------------------|---------------------------------------|
| Operator CHEVRON U.S.A., INC. | | Lease EMSU | | Well No. 462 |
| Tract Letter L | Section 9 | Township 21 SOUTH | Range 36 EAST | County LEA |
| Actual Footage Location of Well: 2590 feet from the SOUTH line and 50 feet from the WEST line | | | | |
| Ground Level Elev. 3589.8' | Producing Formation San Andres | Pool Eunice Monument San Andres | | Dedicated Acreage: NA Acres |

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

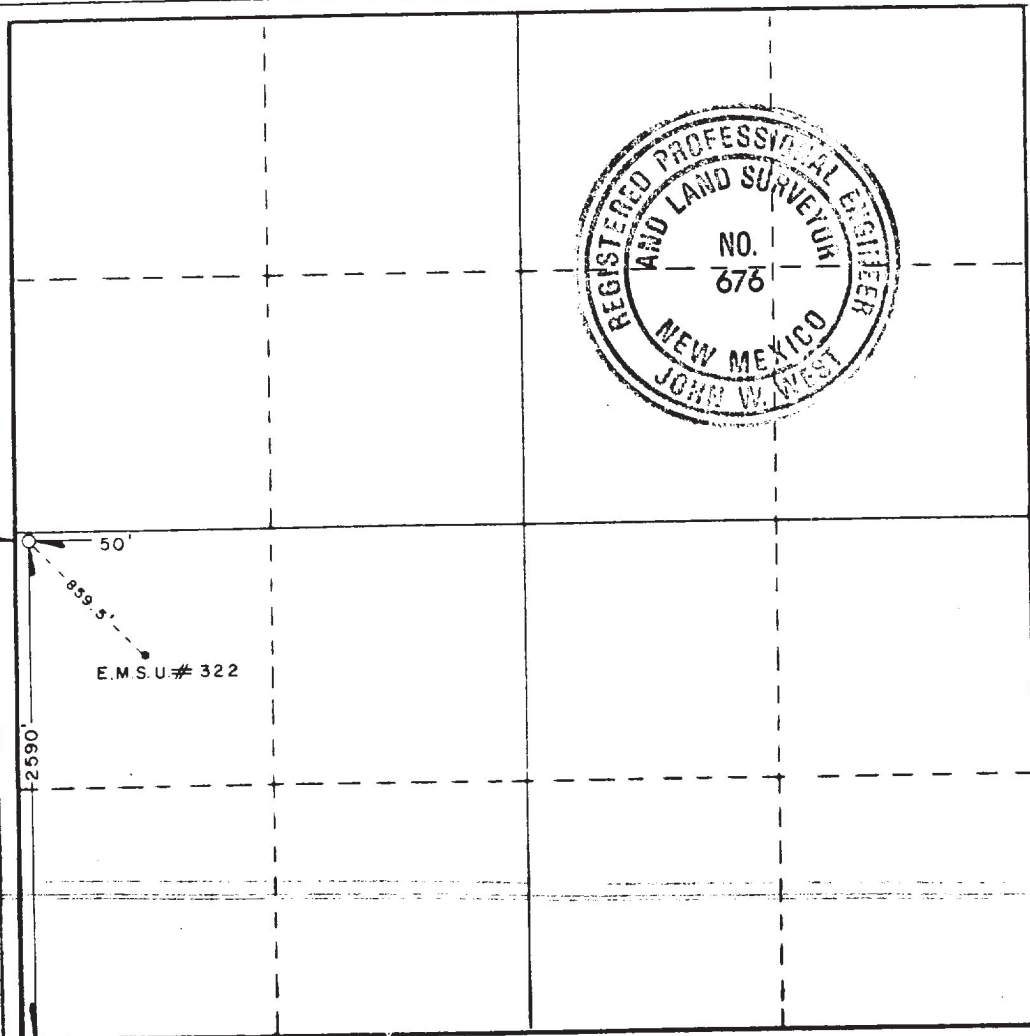
Name _____
 Position
Division Drilling Manager
 Company
Chevron U.S.A. Inc.
 Date
2-5-1986

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 Surveyed
JANUARY 11, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239



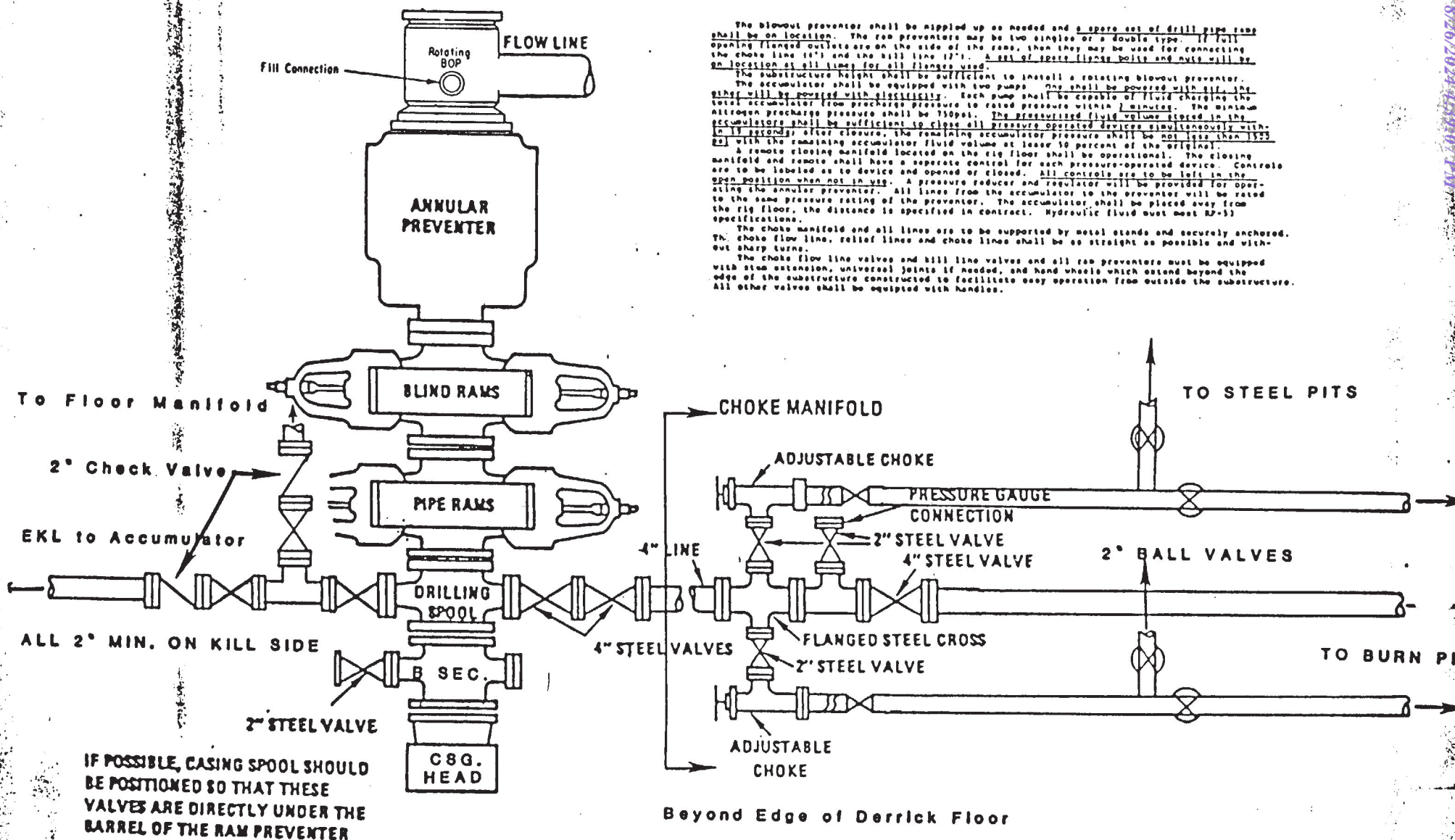
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HOBBBS OFFICE

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Figure 2

HOBBS DIVISION

CLASS THREE PREVENTER



The blowout preventer shall be supplied up as needed and a spare set of drill pipe rams shall be on location. The ram preventer may be two singles or a double type. If full opening flanged outlets are on the side of the rams, then they may be used for connecting the choke line 14" and the kill line 12". A set of spare flange bolts and nuts will be on location at all times for all flanges used.

The substructure height shall be sufficient to install a rotating blowout preventer. The accumulator shall be equipped with two pumps. One shall be powered with air, the other will be powered with electricity. Each pump shall be capable of fluid charging the total accumulator from precharge pressure to rated pressure within 1 minute. The minimum nitrogen precharge pressure shall be 750psi. The pressurized fluid volume stored in the accumulator shall be sufficient to close all pressure operated devices simultaneously within 11 seconds; after closure, the remaining accumulator pressure shall be not less than 1525 psi with the remaining accumulator fluid volume at least 50 percent of the original.

A remote closing manifold located on the rig floor shall be operational. The closing manifold and remote shall have a separate control for each pressure operated device. Controls are to be labeled as to device and opened or closed. All controls are to be left in the open position when not in use. A pressure reducer and regulator will be provided for operating the annular preventer. All lines from the accumulator to the preventer will be rated to the same pressure rating of the preventer. The accumulator shall be placed away from the rig floor, the distance is specified in contract. Hydraulic fluid must meet API-53 specifications.

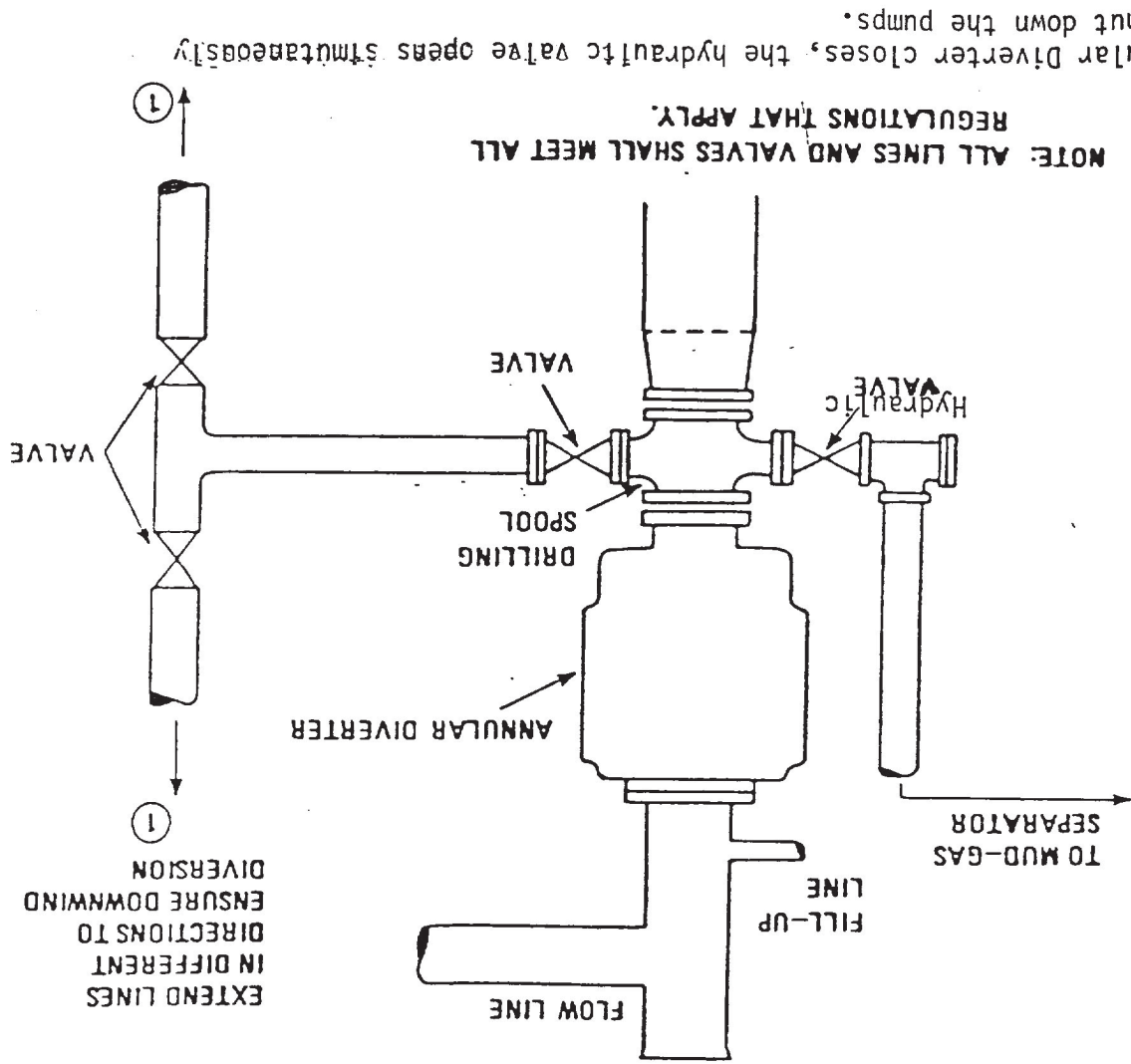
The choke manifold and all lines are to be supported by metal stands and securely anchored. The choke flow line, relief lines and choke lines shall be as straight as possible and without sharp turns.

The choke flow line valves and kill line valves and all ram preventers must be equipped with stem extension, universal joints if needed, and hand wheels which extend beyond the edge of the substructure constructed to facilitate easy operation from outside the substructure. All other valves shall be equipped with handles.

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DIVERTER-PREVENTER HOOKUP

FIGURE 1

EXTEND LINES IN DIFFERENT DIRECTIONS TO ENSURE DOWNWIND DIVERSION

NOTE: ALL LINES AND VALVES SHALL MEET ALL REGULATIONS THAT APPLY.

When Annular Diverter closes, the hydraulic valve opens simultaneously. Do not shut down the pumps.

28/22/2024

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HOBBS OFFICE

| WRS COMPLETION REPORT | | | | | |
|------------------------|----------------------------|-------------------|---------------|---------------|-------------------------|
| COMPLETIONS | SEC | 9 | TWP | 21S | RGE 36E |
| PI# 30-T-0007 | 06/29/87 | 30-025-29622-0000 | | PAGE 1 | |
| NMEX | LEA | 2590FSL | 50FWL | SEC | NW SW |
| STATE | COUNTY | FOOTAGE | SPOT | | |
| CHEVRON USA | | | | U | U |
| OPERATOR | WELL CLASS INIT | | | | FIN |
| WS-462 | EUNICE-MONUMENT SOUTH UNIT | | | | |
| WELL NO. | LEASE NAME | | | | |
| 3598KB | 3590GR | EUNICE-MONUMENT | | | |
| OPER ELEV | FIELD/POOL AREA | | | | |
| | | | | | API 30-025-29622-0000 |
| LEASE TYPE/NO. | | | | | PERMIT OR WELL I.D. NO. |
| 02/07/1987 | 04/13/1987 | ROTARY | SERVICE | | |
| SPUD DATE | COMP. DATE | TYPE TOOL | STATUS | | |
| 5000 | GRBG-SAD | EXETER DRLG | 4 | RIG SUB | 7 |
| PROJ. DEPTH | PROJ. FORM | CONTRACTOR | | | |
| DTD 5000 | FM/TD SN ANDRS | | | | |
| DRILLERS T.D. | LOG T.D. | PLUG BACK TD | OLD T.D. | FORM T.D. | |
| LOCATION DESCRIPTION | | | | | |
| 1 MI SW OIL CENTER, NM | | | | | |
| CASING/LINER DATA | | | | | |
| CSG 16 | @ | 416 | W/ | 472 | SACKS |
| CSG 11 3/4 | @ | 2700 | W/ | 1100 | SACKS |
| CSG 8 5/8 | @ | 4325 | W/ | 850 | SACKS |
| TUBING DATA | | | | | |
| NO TBG RUN | | | | | |
| TYPE | FORMATION | LTH | TOP DEPTH/SUB | BSE DEPTH/SUB | |
| LOG | RUSTLER | | 1155 2443 | | |
| LOG | SALT | | 1245 2353 | 2600 | 998 |
| LOG | YATES | | 2750 848 | | |
| LOG | QUEEN | | 3400 198 | | |
| LOG | GRAYBURG | | 3705 -107 | | |
| LOG | SN ANDRS | | 4200 -602 | | |
| PRODUCTION TEST DATA | | | | | |
| GRBG-SAD OPENHOLE | | | | | 4325- 5000 |
| OPEN | 4325- 5000 | | | | |
| NATURAL | | | | | |

CONTINUED IC# 300257006186

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Petroleum Information

PI-WRS-GE
 Form No 187

 a company of
 The Dun & Bradstreet Corporation

COMPLETIONS SEC 9 TWP 21S RGE 36E
PI# 30-T-0007 06/29/87 30-025-29622-0000 PAGE 2

CHEVRON USA U U
WS-462 EUNICE-MONUMENT SOUTH UNIT

LOGS AND SURVEYS /INTERVAL, TYPE/

| | | | |
|------|-----|------|-----|
| LOGS | FDC | CNL | GR |
| LOGS | DLL | MSFL | EPT |
| LOGS | CDL | | |

DRILLING PROGRESS DETAILS

CHEVRON USA
 BOX 670
 HOBBS, NM 88240
 505-393-4121
 02/07 WATER SUPPLY WELL
 LOC/1986/
 TD REACHED 02/17/87 RIG REL 02/18/87
 06/23 5000 TD
 COMP 4/13/87, WSW
 SUPPLY ZONE - GRAYBURG-SAN ANDRES
 4325-5000
 (OPEN HOLE)
 NO CORES OR DSTS RPTD

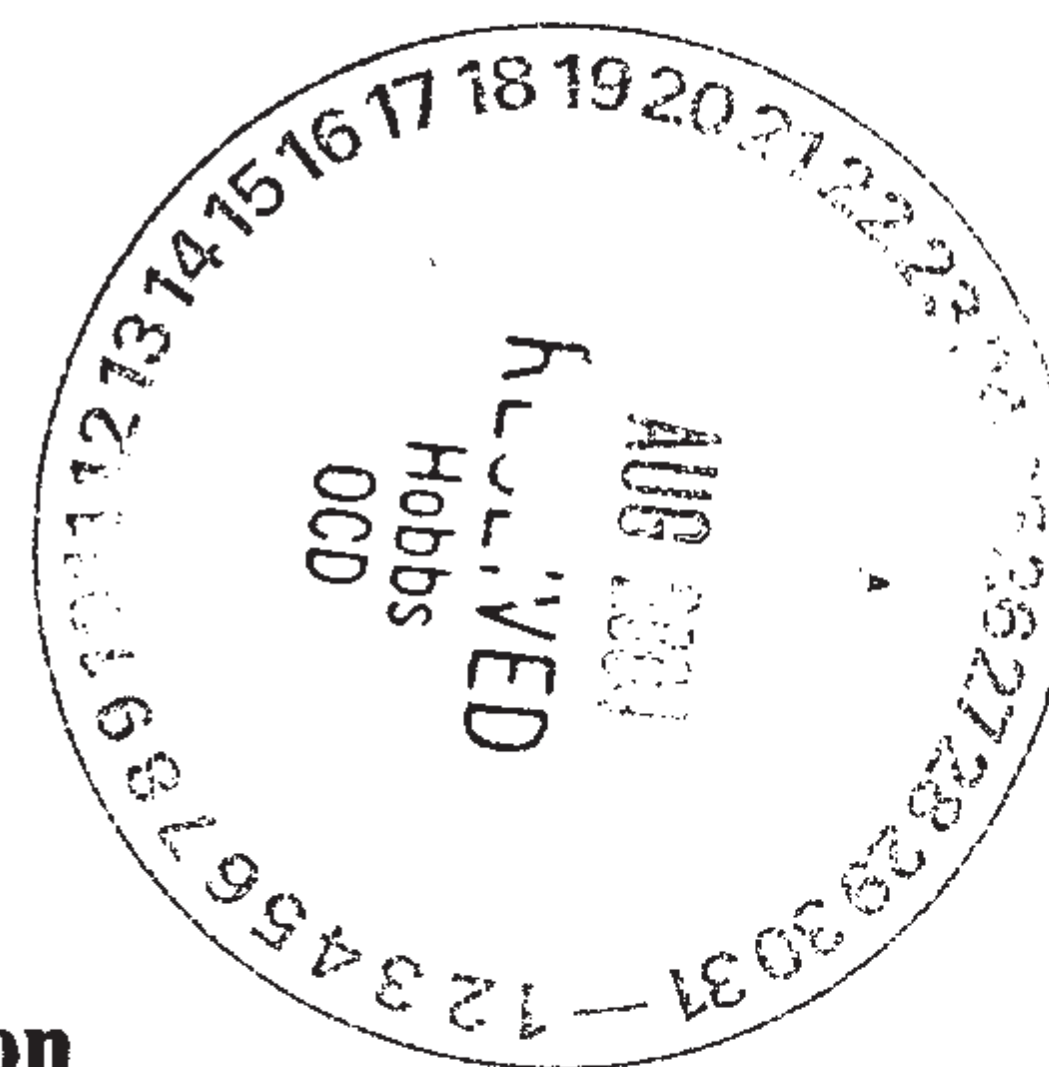
District I
1625 N. French Dr., Hobbs, NM
88240

State of New Mexico
Energy, Minerals and Natural Resources

Form C-104A
Permit 1277

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

Change of Operator



Previous Operator Information

OGRID: 4323
Name: CHEVRON U S A INC
Address: 15 Smith Road
Address: _____
City, State, Zip: Midland, TX 79705

New Operator Information

Effective Date: 08/01/2004
OGRID: 5380
Name: XTO ENERGY, INC
Address: 3000 N Garfield
Address: Suite 175
City, State, Zip: Midland, TX 79705

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

Previous Operator

Signature: *Denise Pinkerton*
Printed Name: DENISE PINKERTON
Title: Regulatory Specialist
Date: 8-01-2004 Phone: 432-687-7375

New Operator

Signature: *Edwin S. Ryan, Jr.*
Printed Name: Edwin S. Ryan, Jr.
Title: Sr. Vice President - Land
Date: 8/16/2004 Phone: 432-682-8873

NMOCD Approval

Electronic Signature: Chris Williams, District I
Electronic Signature: Tim Gum, District II
Date: September 21, 2004

State of New Mexico
Energy, Minerals and Natural Resources

Office
District I
7625 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

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

| |
|--|
| WELL API NO. 30-025-29622 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23000 |
| 7. Lease Name or Unit Agreement Name Eunice Monument South Unit |
| 8. Well Number 462 |
| 9. OGRID Number 5380 |
| 10. Pool name or Wildcat Eunice Monument; Grayburg-San Andres |

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 Convert to Producer

2. Name of Operator
XTO ENERGY INC.

3. Address of Operator
200 LORAIN STE 800 MIDLAND, TX 79701

4. Well Location
Unit Letter L : 2590 feet from the S line and 50 feet from the W line
Section 9 Township S21 Range 36E NMPM County LEA

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

Pit or Below-grade Tank Application or Closure

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

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

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.

PROCEDURE TO CONVERT TO PRODUCER

MIRU, NDWH, NUBOP, RIH W/CSG SCRPR
RIH, SET CIBP @4275', DUMP 35' ON TOP, TST CSG TO 500 PSI
PERF UPPER SAN ANDRES 4118-40, 4160-70, 4186-94
ACD W/4.5 BBLs ACD ACROSS PERFS, ACD W/3000 GALS 15% NEFE HCL 30 BALLS/EVERY 10 BBLs
SWB
RIH W/PROD EQPT.

SUPPLEMENTAL PROCEDURE FOR RUNNING LINER

POOH W/PKR AND RBP
RIH TO CIBP W/5 1/2" FLOAT SHOE, 1 JT 5 1/2" CSG, LND COLLAR 1000' 5 1/2" CSG AND LNR, CMT LNR, POH, WOC
D/O CMT TOP OF LNR, TST LNR TOP TO 500 PSI, POH
C/O LNR, TST TO 500 PSI, POH
PERF/ACD AS ABOVE

SUPPLEMENTAL PROCEDURE FOR SQUEEZING LEAK

ISOLATE LEAK, TST INJ RATE/PSI, POH W/PKR AND RBP
RIH W/CICR TO 50' ABOVE LEAK, CIRC THRU CICR, SQZ LEAK
RIH W/ BIT AND DO CICR AND CMT TO 4240', TST SQZ TO 500 PSI, POH
CONTINUE W/PERF & ACD FROM ABOVE PROCEDURE

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. Lyn Marr TITLE REGULATORY ANALYST DATE 11/18/2005

Type or print name M. LYN MARR E-mail address: Lyn_Marr@xtoenergy.com Telephone No. 432-620-6714

For State Use Only

APPROVED BY: Gary W. Wink TITLE FIELD REPRESENTATIVE II/STAFF MANAGER DATE DEC 09 2005

Conditions of Approval (if any):

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

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

WELL API NO. 30-025-29622
5. Indicate Type of Lease STATE x FEE
6. State Oil & Gas Lease No. 23000
7. Lease Name or Unit Agreement Name Eunice Monument South Unit
8. Well Number 462
9. OGRID Number 5380
10. Pool name or Wildcat Eunice Monument; Grayburg-San Andres

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 X Other Convert to Producer

2. Name of Operator XTO ENERGY INC.

3. Address of Operator 200 LORAIN STE 800 MIDLAND, TX 79701

4. Well Location
Unit Letter L : 259D feet from the S line and 50 feet from the W line
Section 9 Township S21 Range 36E NMPM County LEA

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

Pit or Below-grade Tank Application or Closure
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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK PLUG AND ABANDON
TEMPORARILY ABANDON CHANGE PLANS
PULL OR ALTER CASING MULTIPLE COMPL
OTHER: X CONVERT TO PRODUCER

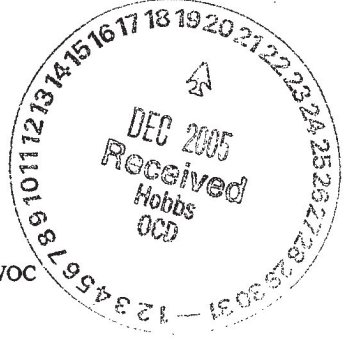
SUBSEQUENT REPORT OF:
REMEDIAL WORK ALTERING CASING
COMMENCE DRILLING OPNS. P AND A
CASING/CEMENT JOB
OTHER:

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.

PROCEDURE TO CONVERT TO PRODUCER
MIRU, NDWH, NUBOP, RIH W/CSG SCRPR
RIH, SET CIBP @4275', DUMP 35' ON TOP, TST CSG TO 500 PSI
PERF UPPER SAN ANDRES 4118-40, 4160-70, 4186-94
ACD W/4.5 BBLs ACD ACROSS PERFS, ACD W/3000 GALS 15% NEFE HCL 30 BALLS/EVERY 10 BBLs
SWB
RIH W/PROD EQPT.

SUPPLEMENTAL PROCEDURE FOR RUNNING LINER
POOH W/PKR AND RBP
RIH TO CIBP W/5 1/2" FLOAT SHOE, 1 JT 5 1/2" CSG, LND COLLAR 1000' 5 1/2" CSG AND LNR, CMT LNR, POH, WOC
D/O CMT TOP OF LNR, TST LNR TOP TO 500 PSI, POH
C/O LNR, TST TO 500 PSI, POH
PERF/ACD AS ABOVE

SUPPLEMENTAL PROCEDURE FOR SQUEEZING LEAK
ISOLATE LEAK, TST INJ RATE/PSI, POH W/PKR AND RBP
RIH W/CICR TO 50' ABOVE LEAK, CIRC THRU CICR, SQZ LEAK
RIH W/ BIT AND DO CICR AND CMT TO 4240', TST SQZ TO 500 PSI, POH
CONTINUE W/PERF & ACD FROM ABOVE PROCEDURE



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 Lyn Marr TITLE REGULATORY ANALYST DATE 11/18/2005

Type or print name M. LYN MARR E-mail address: Lyn_Marr@xtoenergy.com Telephone No. 432-620-6714

For State Use Only
APPROVED BY: Gary W. Wink OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE DEC 21 2005

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

HOBBS OCD
APR 30 2012
RECEIVED

State of New Mexico
Energy, Minerals & Natural Resources

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

Submit to appropriate District Office

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|--|--|---|
| ¹ Operator Name and Address XTO Energy, Inc. 200 N. Loraine, Ste. 800 Midland, TX 79701 | | ² OGRID Number 005380 |
| ⁴ Property Code 300717 | | ³ API Number 30- 025-29622 |
| ⁵ Property Name Eunice Monument South Unit | | ⁶ Well No. 462 |
| ⁹ Proposed Pool 1 EUNICE MONUMENT; GRAYBURG-SAN ANDRES | | ¹⁰ Proposed Pool 2 EUNICE MONUMENT; GRAYBURG-SAN ANDRES |

7 Surface Location

| UL or lot no | Section | Township | Range | Lot Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L | 9 | 21S | 36E | | 2590 | SOUTH | 50 | WEST | Lea |

8 Proposed 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 |
|--------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

Additional Well Location

| | | | | |
|---|--------------------------------------|--|------------------------------------|--|
| ¹¹ Work Type Code p | ¹² Well Type Code W O | ¹³ Cable/Rotary | ¹⁴ Lease Type Code S | ¹⁵ Ground Level Elevation 3590' GL |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 4998 | ¹⁸ Formation Grayb-SA | ¹⁹ Contractor N/A | ²⁰ Spud Date 7/1987 |
| Depth to ground water | | Distance from nearest fresh water well | | Distance from nearest surface water |
| Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method. | | | | |
| Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> | | | | |

21 Proposed Casing and Cement Program

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| 20" | 16" | 65 | 416' | 472 sxs C1 C | surface |
| 14-3/4" | 11-3/4" | 54 | 2700' | 1100 sxs C1 C | surface |
| 10-5/8" | 8-5/8" | 32 | 4325' | 550 sxs C1 C | 2600' |
| 10-5/8" | 5-1/2" | 17 | 4200 | 760 sxs | |

²² Describe the proposed program If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any Use additional sheets if necessary.

XTO Energy, Inc requests to convert EMSU #462 from a Water Source Well to an Oil Producer with the following proposition:
(1) Set CIBP @ 4260' closing off current Grayb-SA OH (2) Run 5-1/2" prod csg to 4200' (3) cmt w/ 760 sxs, (4) Perf Grayb from 3794'-3900', 2spf, 80 shots total, (5) Acidize Grayb Perfs w/ 3650 gals of 20% 90/10 Acid, (6) Put Well on Prod

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

| | | |
|--|-----------------------------------|-----------------------------------|
| ²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input checked="" type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> | OIL CONSERVATION DIVISION | |
| Signature: <i>Stephanie Rabadue</i> | Approved by: <i>[Signature]</i> | |
| Printed name: STEPHANIE RABADUE | Title: <i>PETROLEUM ENGINEER</i> | |
| Title: Regulatory Analyst | Approval Date: MAY 02 2012 | Expiration Date: |
| E-mail Address: stephanie.rabadue@xtoenergy.com | Conditions of Approval: | |
| Date: 04/26/2012 | Phone: 432-620-6714 | Attached <input type="checkbox"/> |

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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | |
|---|--|--|--|--|------------------------------------|
| ¹ API Number 30-025-29622 | | ² Pool Code 2300 | | ³ Pool Name Eunice Monument; Grayburg-San Andres | |
| ⁴ Property Code 300717 | | ⁵ Property Name Eunice Monument South Unit | | | ⁶ Well Number 462 |
| ⁷ OGRID No. 005380 | | ⁸ Operator Name XTO Energy, Inc | | | ⁹ Elevation 3590' GL |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|--------|
| L | 9 | 21S | 36E | | 2590' | South | 50 | West | Lea |

¹¹ 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 |
|---------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

| | | | |
|-------------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 40 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|-------------------------------------|-------------------------------|----------------------------------|-------------------------|

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

| | | | |
|----------------------|---|--|--|
| <p>¹⁶</p> | <p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p><i>Stephanie Rabadue</i> 4/26/2012 Signature Date</p> <p>STEPHANIE RABADUE Printed Name REGULATORY ANALYST</p> | | |
| | <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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 belief</p> <p>Date of Survey Signature and Seal of Professional Surveyer</p> <p>Certificate Number</p> | | |



**Eunice Monument South Unit #462 WSW
Convert Well from WSW to Oil Producer in Grayburg
Lea County, New Mexico
December 1, 2011**

RECOMMENDED PROCEDURE

*(Verify that anchors have been set and tested per NMOCD and OSHA guidelines)
This is a STATE well.*

1. MIRU PU. MI and rack 4300' 2-7/8" 6.5ppf, N-80, EUE, 8rd work string.
2. ND WH. NU BOP with 2-7/8" rams.
3. RU wireline company. RIH with gauge ring to 4280'. POOH and LD gauge ring.
4. RIH with 8-5/8" CIBP on wireline and **set CIBP at 4260'**. POOH and RD wireline.
5. RIH with 8-5/8" packer on 2-7/8" WS and **set packer at 4250'**.
6. Load tubing and test CIBP with brine water to 1000 psig. POOH with 2-7/8" tubing and LD 8-5/8" packer.
7. MI and rack 4400' of 5-1/2" 17ppf, J-55, LTC casing. ND BOP with 2-7/8" rams. RU welder. Weld on new 5-1/2" casing bowl to WH. NU BOP with 5-1/2" rams.
8. RIH with 5-1/2" float shoe, 1jt of 5-1/2" 17ppf casing, float collar, 5-1/2" 17ppf casing to CIBP at 4260'. Space 5-1/2" centralizers from 4260' to 3600'.
9. RU cement company. Establish circulation out 8-5/8" x 5-1/2" annulus with 20 bbls fresh water with the following mixture:
 - Lead Slurry:** Mix and circulate 275 sx EconoCem-HLC (Halliburton) cement at 12.4ppg.
 - Tail Slurry:** Mix and circulate 260 sx VersaCem-C (Halliburton) cement at 14.4ppg

Circulate out 8-5/8 x 5-1/2" annulus at surface. Drop wiper plug and displace with ~~brine~~ ^{fresh?} water. RD cement company. WOC over night.
10. Set 5-1/2" casing slips. ND BOP with 5-1/2" rams. Cut off excess 5-1/2" 17ppf casing and weld on WH. NU BOP with 2-7/8" rams.
11. RIH with 4-3/4" bit on 2-7/8" WS and CO to 4210'. POOH with 2-7/8" WS and LD 4-3/4" bit.



**Eunice Monument South Unit #462 WSW
 Convert Well from WSW to Oil Producer in Grayburg
 Lea County, New Mexico
 December 1, 2011**

- 12. Load and test 5-1/2" 17ppf casing with ^{brine} ~~brine~~ water to 500 psig.
Fresh?
- 13. RU wireline company. RIH with 3-1/8" casing gun on wireline loaded with premium charges and perforate 2 SPF the following intervals:

| Top | Bottom | Length | Type | Formation | SPF | Shots | Date | Comments |
|----------------|--------|--------|------|-----------|-----|-----------|------|----------|
| 3794 | 3797 | 3 | Perf | Grayburg | 2 | 6 | 2011 | |
| 3811 | 3814 | 3 | Perf | Grayburg | 2 | 6 | 2011 | |
| 3818 | 3821 | 3 | Perf | Grayburg | 2 | 6 | 2011 | |
| 3826 | 3828 | 2 | Perf | Grayburg | 2 | 4 | 2011 | |
| 3835 | 3842 | 7 | Perf | Grayburg | 2 | 14 | 2011 | |
| 3859 | 3862 | 3 | Perf | Grayburg | 2 | 6 | 2011 | |
| 3873 | 3887 | 14 | Perf | Grayburg | 2 | 28 | 2011 | |
| 3890 | 3893 | 3 | Perf | Grayburg | 2 | 6 | 2011 | |
| 3898 | 3900 | 2 | Perf | Grayburg | 2 | 4 | 2011 | |
| Total = | | | | | | 80 | | |

- 14. RIH with 5-1/2" treating packer on 2-7/8" WS. **Set packer at 3730'.**
- 15. MIRU acid company. Test lines to 4000 psig. Load and test TCA with brine to 500 psig and monitor during job. Acidize Grayburg perforations from 3794' – 3900' with **3650 gal of 20% 90/10 acid** while spacing **120 - 1.3 SG ball sealers** at 5 BPM and a maximum pressure of 3000 psig with the following schedule.
 - a. Load tubing with brine.
 - b. Spot 150 gal acid across perforations and let sit 30 minutes.
 - c. Establish injection rate with brine water.
 - d. Pump 500 gal acid.
 - e. Pump 3000 gal acid while dropping 120 - 1.3 SG ball sealers evenly throughout stage.
 - f. Flush to bottom perf with brine.

Note: Record ISIP and 5-10-15 minute pressures.

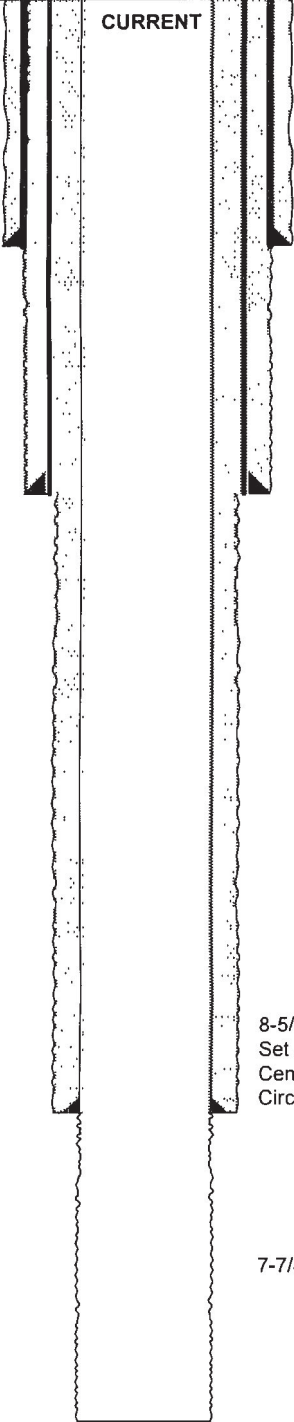
- 16. RDMO acid company. Shut well in for two hours for acid to spend. Release packer. RIH with 5-1/2" packer to 3900' to knock balls off of perforations. PUH with 5-1/2" packer and set at 3730'.
- 17. RU swab and swab back acid load. Determine flow rate and oil cut. Report results to Midland. POOH and LD 5-1/2" packer and 2-7/8" WS.

XTO ENERGY



Well: EMSU 462 WSW
 Location: Section 9-21S-36E
 2590' FSL & 50' FWL
 County: Lea
 Elevation: 3590' GL 3607' KB

WI:
 NRI:
 Spud: 7/87
 State: New Mexico



CURRENT

16" 65 ppf,
 Set at 416'.
 Cemented with 472 sx.
 Circulated

Int. Csg: 11 3/4", 54 ppf
 Set @ 2700'.
 Cmt'd w/ 1100 sx.
 Circulated

8-5/8" 32 ppf
 Set at 4315'.
 Cemented with 850 sx.
 Circulated.

7-7/8" openhole

CURRENT STATUS:
 Shut-in

PRODUCTION TUBING:
 None

TD 4998'

PREPARED BY: Jeff Gasch

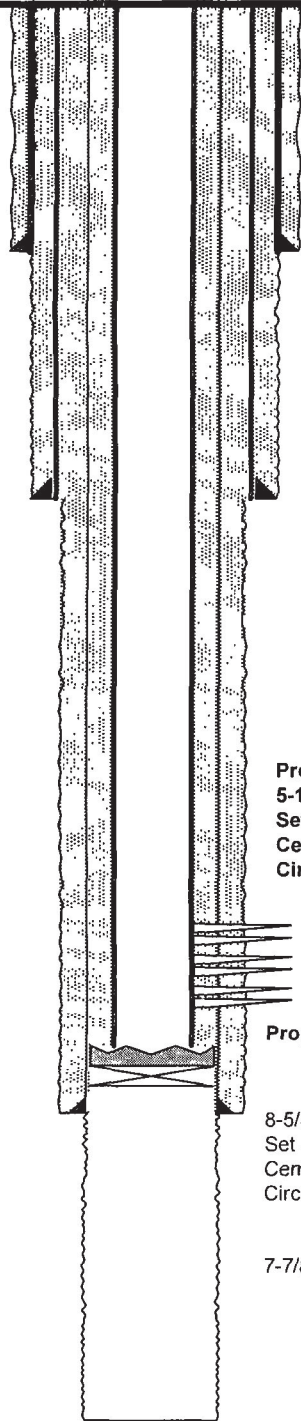
DATE: 10/26/05

XTO ENERGY



Well: EMSU 462 WSW
 Location: Section 9-21S-36E
 2590' FSL & 50' FWL
 County: Lea
 Elevation: 3590' GL 3607' KB

WI:
 NRI:
 Spud: 7/87
 State: New Mexico



PROPOSED

CURRENT STATUS:
Shut-in

PRODUCTION TUBING:
None

16" 65 ppf,
 Set at 416'.
 Cemented with 472 sx.
 Circulated

Int. Csg: 11 3/4", 54 ppf
 Set @ 2700'.
 Cmt'd w/ 1100 sx.
 Circulated

Proposed Production Casing:
 5-1/2" 17ppf
 Set at 4200'.
 Cemented with 760 sx.
 Circulated.

Grayburg
 Proposed Perfs:
 3794' - 3900'

Proposed CIBP at 4260'

8-5/8" 32 ppf
 Set at 4315'.
 Cemented with 850 sx.
 Circulated.

7-7/8" openhole

TD 4998'

PREPARED BY: JWP

DATE: 11/17/2011

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1000 Rio Brazos Road, Aztec, NM 87410
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HOBBS OCD
APR 30 2012
RECEIVED

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1

Operator: XTO Energy, Inc. OGRID #: 005380

Address: 200 N. Loraine, Suite 800, Midland, TX 79701

Facility or well name: Eunice Monument South Unit #462

API Number: 30-025-29622 OCD Permit Number: P104514

U/L or Qtr/Qtr E Section 9 Township 21S Range 36E County: Lea

Center of Proposed Design: Latitude _____ Longitude _____ NAD: 1927 1983

Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2

Closed-loop System: Subsection H of 19.15.17.11 NMAC

Operation: Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) P&A

Above Ground Steel Tanks or Haul-off Bins

3

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

4

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: _____

Previously Approved Operating and Maintenance Plan API Number: _____

5

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: CRI Disposal Facility Permit Number: NM01-0006

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?

Yes (If yes, please provide the information below) No

Required for impacted areas which will not be used for future service and operations:

Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): STEPHANIE RABADUE Title: Regulatory Analyst

Signature: Stephanie Rabadue Date: 04/26/2012

e-mail address: stephanie.rabadue@xtoenergy.com Telephone: 432-620-6714

7
OCD Approval: Permit Application (including closure plan) Closure Plan (only)
OCD Representative Signature: _____ **Approval Date:** 05/02/12
Title: ~~PETROLEUM ENGINEER~~ **OCD Permit Number:** 91-04514

8
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
 Closure Completion Date: _____

9
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____
 Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations:
 Site Reclamation (Photo Documentation)
 Soil Backfilling and Cover Installation
 Re-vegetation Application Rates and Seeding Technique

10
Operator Closure Certification:
 I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
 Name (Print): _____ Title: _____
 Signature: _____ Date: _____
 e-mail address: _____ Telephone: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-129
Revised May 13, 2020

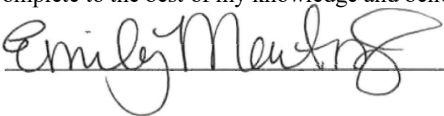
Submit one copy to appropriate
District Office

NFO Permit No. _____
(For Division Use Only)

APPLICATION FOR EXCEPTION TO NO-FLARE RULE 19.15.18.12

(See Rule 19.15.18.12 NMAC and Rule 19.15.7.37 NMAC)

- A. Applicant XTO ENERGY INC,
whose address is 6401 HOLIDAY HILL ROAD BUILDING 5 MIDLAND, TX 79707,
hereby requests an exception to Rule 19.15.18.12 for 90 DAYS (EFFECTIVE 8-17-2020) days or until
NOVEMBER 15, Yr 2020, for the following described tank battery (or LACT):
Name of Lease EMSU SAT 5 Name of Pool EUNICE MONUMENT; GRAYBURG-SAN ANDRES
Location of Battery: Unit Letter I Section 4 Township 21S Range 36E
Number of wells producing into battery 22 WELLS
- B. Based upon oil production of 80 barrels per day, the estimated * volume
of gas to be flared is 1000 MCF; Value _____ per day.
- C. Name and location of nearest gas gathering facility:
DCP MIDSTREAM
- D. Distance _____ Estimated cost of connection _____
- E. This exception is requested for the following reasons: DCP has experienced a mechanical failure at the Eunice
plant where the gas within the plant gathering system will have to be shut in immediatley
(SEE ATTACHED WELL LIST)

| | |
|---|---|
| <p>OPERATOR I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.</p> <p>Signature <u></u></p> <p>Printed Name & Title <u>EMILY MARTINEZ REGULATORY ANALYST</u></p> <p>E-mail Address <u>EMILY_MARTINEZ@XTOENERGY.COM</u></p> <p>Date <u>8/17/2020</u> Telephone No. <u>432-571-8255</u></p> | <p>OIL CONSERVATION DIVISION</p> <p>Approved Until <u>Aug. 17-No. 15, 2020 (90 days)</u></p> <p>By <u>Kurt Simmons</u></p> <p>Title <u>NMOCD, Santa Fe</u></p> <p>Date <u>08/18/2020</u></p> |
|---|---|

* Gas-Oil ratio test may be required to verify estimated gas volume.

EMSU SAT 5 WELL LIST

EUNICE MONUMENT SOUTH UNIT 238 API# 30-025-04466

EUNICE MONUMENT SOUTH UNIT 256 API# 30-025-04495

EUNICE MONUMENT SOUTH UNIT 260 API# 30-025-04463

EUNICE MONUMENT SOUTH UNIT 278 API# 30-025-20133

EUNICE MONUMENT SOUTH UNIT 280 API# 30-025-04573

EUNICE MONUMENT SOUTH UNIT 282 API# 30-025-21902

EUNICE MONUMENT SOUTH UNIT 298 API# 30-025-04575

EUNICE MONUMENT SOUTH UNIT 300 API# 30-025-04579

EUNICE MONUMENT SOUTH UNIT 319 API# 30-025-04584

EUNICE MONUMENT SOUTH UNIT 321 API# 30-025-04570

EUNICE MONUMENT SOUTH UNIT 323 API# 30-025-04555

EUNICE MONUMENT SOUTH UNIT 462 API# 30-025-29622

EUNICE MONUMENT SOUTH UNIT 623 API# 30-025-35455

EUNICE MONUMENT SOUTH UNIT 624 API# 30-025-31408

EUNICE MONUMENT SOUTH UNIT 628 API# 30-025-37279

EUNICE MONUMENT SOUTH UNIT 638 API# 30-025-31426

EUNICE MONUMENT SOUTH UNIT 639 API# 30-025-31409

EUNICE MONUMENT SOUTH UNIT 640 API# 30-025-34212

EUNICE MONUMENT SOUTH UNIT 653 API# 30-025-34213

EUNICE MONUMENT SOUTH UNIT 673 API# 30-025-37320

EUNICE MONUMENT SOUTH UNIT 676 API# 30-025-35457

EUNICE MONUMENT SOUTH UNIT 695 API# 30-025-35162

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico
Energy, Minerals and Natural
Resources**

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

Change of Operator

Previous Operator Information

New Operator Information

| | | | |
|-------------------|-------------------------------|-------------------|---|
| OGRID: | <u>5380</u> | Effective Date: | <u>Effective on the date of approval by the OCD</u> |
| Name: | <u>XTO ENERGY, INC</u> | OGRID: | <u>330679</u> |
| Address: | <u>6401 Holiday Hill Road</u> | Name: | <u>Empire New Mexico LLC</u> |
| | <u>Building #5</u> | Address: | <u>2200 S. Utica Place</u> |
| City, State, Zip: | <u>Midland, TX 79707</u> | | <u>Suite 150</u> |
| | | City, State, Zip: | <u>Tulsa, OK 74114</u> |

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

Additionally, by signing below, Empire New Mexico LLC certifies that it has read and understands the following synopsis of applicable rules.

PREVIOUS OPERATOR certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells being transferred are either (1) in compliance with 19.15.17 NMAC, (2) have been closed pursuant to 19.15.17.13 NMAC or (3) have been retrofitted to comply with Paragraphs 1 through 4 of 19.15.17.11(l) NMAC.

Empire New Mexico LLC understands that the OCD's approval of this operator change:

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

As the operator of record of wells in New Mexico, Empire New Mexico LLC agrees to the following statements:

1. Initials TP I am responsible for ensuring that the wells and related facilities comply with applicable statutes and rules, and am responsible for all regulatory filings with the OCD. I am responsible for knowing all applicable statutes and rules, not just the rules referenced in this list. I understand that the OCD's rules are available on the OCD website under "Rules," and that the Water Quality Control Commission rules are available on the OCD website on the "Publications" page.
2. Initials TP I understand that if I acquire wells from another operator, the OCD must approve the operator change before I begin operating those wells. See Subsection B of 19.15.9.9 NMAC. I understand that if I acquire wells or facilities subject to a compliance order addressing inactive wells or environmental cleanup, before the OCD will approve the operator change it may require me to enter into an enforceable agreement to return those wells to compliance. See Paragraph (2) of Subsection C of 19.15.9.9 NMAC.
3. Initials TP I must file a monthly C-115 report showing production for each non-plugged well completion for which the OCD has approved an allowable and authorization to transport, and injection for each injection well. See 19.15.7.24 NMAC. I understand that the OCD may cancel my authority to transport from or inject into all the wells I operate if I fail to file C-115 reports. See Subsection C of 19.15.7.24 NMAC.
4. Initials TP I understand that New Mexico requires wells that have been inactive for certain time periods to be plugged or placed in approved temporary abandonment. See 19.15.25.8 NMAC. I understand the requirements for plugging and approved temporary abandonment in 19.15.25 NMAC. I understand that I can check my compliance with the basic requirements of 19.15.25.8 NMAC by using the "Inactive Well List" on OCD's website.
5. Initials TP I must keep current with financial assurances for well plugging. I understand that New Mexico requires each state or fee well that has been inactive for more than two years and has not been plugged and released to be covered by a single-well financial assurance or a "blanket plugging financial assurance for wells in temporarily abandoned statuses", even if the well is also covered by a blanket financial assurance and even if the well is on approved temporary abandonment status. See Subsection C of 19.15.8.9 NMAC. I understand that I can check my compliance with the financial assurance requirement by using the "Inactive Well Additional Financial Assurance Report" on the OCD's website.
6. Initials TP I am responsible for reporting and remediating releases pursuant to 19.15.29 NMAC. I understand the OCD will look to me as the operator of record to take corrective action for releases at my wells and related facilities, including releases that occurred before I became operator of record. I am responsible for conducting my own due diligence for any releases that have occurred prior to becoming operator of my wells and related facilities and am responsible for any open releases or unreported releases.
7. Initials TP I have read 19.15.5.9 NMAC, commonly known as "Part 5.9," and understand that to be in compliance with its requirements I must have the appropriate financial assurances in place, comply with orders requiring corrective action, pay penalties assessed by the courts or agreed to by me in a settlement agreement, and not have too many wells out of compliance with the inactive well rule (19.15.25.8 NMAC). If I am in violation of Part 5.9, I may not be allowed to drill, acquire or produce any additional wells, and will not be able to obtain any new injection permits. See 19.15.16.19 NMAC, 19.15.26.8 NMAC, 19.15.9.9 NMAC and 19.15.14.10 NMAC. If I am in violation of Part 5.9 the OCD may, after notice and hearing, revoke my existing injection permits and seek other relief. See 19.15.26.8 NMAC and 19.15.5.10 NMAC.
8. Initials TP For injection wells, I understand that I must report injection on my monthly C-115 report and must operate my wells in compliance with 19.15.26 NMAC and the terms of my injection permit. I understand that I must conduct mechanical integrity tests on my injection wells at least once every five years. See 19.15.26.11 NMAC. I understand that when there is a continuous one-year period of non-injection into all wells in an injection or storage project or into a saltwater disposal well or special purpose injection well, authority for that injection automatically terminates. See 19.15.26.12 NMAC. I understand that if I transfer operation of an injection well to another operator, the OCD must approve the transfer of authority to inject, and the OCD may require me to demonstrate the well's mechanical integrity prior to approving that transfer. See 19.15.26.15 NMAC.
9. Initials TP I am responsible for providing the OCD with my current address of record and emergency contact information, and I am responsible for updating that information when it changes. See Subsection C of 19.15.9.8 NMAC. I understand that I can update that information on the OCD's website under "Electronic Permitting."
10. Initials TP If I transfer well operations to another operator, the OCD must approve the change before the new operator can begin operations. See Subsection B of 19.15.9.9 NMAC. I remain responsible for the wells and related facilities and all related regulatory filings until the OCD approves the operator change. I understand that the transfer will not relieve me of responsibility or liability for any act or omission which occurred while I operated the wells and related facilities.
11. Initials TP No person with an interest exceeding 25% in the undersigned company is, or was within the last 5 years, an officer, director, partner or person with a 25% or greater interest in another entity that is not currently in compliance with Subsection A of 19.15.5.9 NMAC.
12. Initials TP NMOCD Rule Subsection E and F of 19.15.16.8 NMAC: An operator shall have 90 days from the effective date of an operator name change to change the operator name on the well sign unless the division grants an extension time, for good cause shown, along with a schedule for making the changes. Each sign shall show the (1) well number, (2) property name, (3) operator's name, (4) location by footage, quarter-quarter section, township and range (or unit letter can be substituted for the quarter-quarter section), and (5) API number.

I hereby certify I understand the above. The statements I have made are true and correct and a condition precedent to the Oil Conservation Division accepting this Change of Operator.

Previous Operator

Signature: Phyllis Hinze

Printed Name: Phyllis Hinze

Title: Land Manager – Acquisitions and Divestitures, as Agent and Attorney-in-Fact

Date: 5/14/2021 Phone: (832) 624-7629

New Operator

Signature: [Signature]

Printed Name: Thomas W Pritchard

Title: Chief Executive Officer

Date: 5/14/21 Phone: (539) 444-8002

Permit 295778

NMOCD Approval

Electronic Signature(s): Karen S Collins, District 1

Date: July 23, 2021

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Wells Selected for Transfer

Permit 295778

702 Wells Selected for Transfer

| | |
|------------------------------|------------------|
| From: XTO ENERGY, INC | OGRID: 5380 |
| To: Empire New Mexico LLC | OGRID: 330679 |

OCD District Hobbs (702 Wells selected.)

| Property | Well | Lease Type | ULSTR | OCD Unit | API | Pool ID | Pool Name | Well Type |
|----------|------------------------------------|------------|--------------|----------|--------------|---------|-----------------------------------|-----------|
| 331273 | A B REEVES #001 | P | L-29-20S-37E | L | 30-025-06277 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | A B REEVES #002 | P | E-29-20S-37E | E | 30-025-06278 | | | G |
| | A B REEVES #003 | P | G-29-20S-37E | G | 30-025-28436 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330853 | A J ADKINS #008 | P | K-10-21S-36E | K | 30-025-20700 | 47960 | OIL CENTER; BLINEBRY | O |
| 331225 | A J ADKINS COM #001 | P | L-10-21S-36E | L | 30-025-04591 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | A J ADKINS COM #009 | P | E-10-21S-36E | E | 30-025-20701 | | | G |
| | A J ADKINS COM #010 | P | M-10-21S-36E | M | 30-025-20702 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| 331226 | A L CHRISTMAS NCT C #007 | P | H-18-22S-37E | H | 30-025-10350 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |
| | A L CHRISTMAS NCT C #009 | P | G-18-22S-37E | G | 30-025-25499 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |
| | A L CHRISTMAS NCT C #012 | P | 2-18-22S-37E | E | 30-025-25624 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | A L CHRISTMAS NCT C #015 | P | 3-18-22S-37E | L | 30-025-25657 | | | O |
| | A L CHRISTMAS NCT C #016 | P | 4-18-22S-37E | M | 30-025-25670 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |
| | A L CHRISTMAS NCT C #017 | P | 1-18-22S-37E | D | 30-025-30649 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331227 | AMERICAN NATIONAL KEOHANE COM #001 | P | C-18-19S-37E | C | 30-025-05630 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | AMERICAN NATIONAL KEOHANE COM #002 | P | G-18-19S-37E | G | 30-025-30814 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | AMERICAN NATIONAL KEOHANE COM #003 | S | 2-18-19S-37E | E | 30-025-33391 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330998 | ARNOTT RAMSAY NCT D #003 | S | F-33-21S-36E | F | 30-025-04884 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | ARNOTT RAMSAY NCT D #004 | S | E-33-21S-36E | E | 30-025-04885 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |
| | ARNOTT RAMSAY NCT D #006 | S | K-33-21S-36E | K | 30-025-04887 | | | O |
| | ARNOTT RAMSAY NCT D #007 | S | M-33-21S-36E | M | 30-025-04888 | | | O |
| | ARNOTT RAMSAY NCT D #008 | S | N-33-21S-36E | N | 30-025-04889 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | | | | | 30-025-04889 | 33820 | JALMAT; TAN-YATES-7 RVRS (OIL) | |
| | ARNOTT RAMSAY NCT D #010 | S | O-33-21S-36E | O | 30-025-04891 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | ARNOTT RAMSAY NCT D #015 | S | B-33-21S-36E | B | 30-025-26167 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330839 | ARROWHEAD GRAYBURG UNIT #106 | S | G-25-21S-36E | G | 30-025-23324 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #107 | S | H-25-21S-36E | H | 30-025-21620 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #108 | P | I-25-21S-36E | I | 30-025-23949 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #110 | S | K-25-21S-36E | K | 30-025-31306 | | | I |
| | ARROWHEAD GRAYBURG UNIT #113 | F | M-25-21S-36E | M | 30-025-31519 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #114 | S | N-25-21S-36E | N | 30-025-24189 | | | O |
| | ARROWHEAD GRAYBURG UNIT #115 | P | O-25-21S-36E | O | 30-025-23939 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #116 | P | P-25-21S-36E | P | 30-025-23995 | | | O |
| | ARROWHEAD GRAYBURG UNIT #119 | S | C-36-21S-36E | C | 30-025-04932 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #120 | S | D-36-21S-36E | D | 30-025-29093 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #121 | S | A-35-21S-36E | A | 30-025-04914 | | | I |
| | ARROWHEAD GRAYBURG UNIT #124 | S | G-35-21S-36E | G | 30-025-04916 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #125 | S | H-35-21S-36E | H | 30-025-31433 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #126 | S | E-36-21S-36E | E | 30-025-04930 | | | I |
| | ARROWHEAD GRAYBURG UNIT #127 | S | F-36-21S-36E | F | 30-025-04933 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #128 | S | G-36-21S-36E | G | 30-025-24105 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #132 | S | K-36-21S-36E | K | 30-025-04929 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #133 | S | L-36-21S-36E | L | 30-025-04939 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #134 | S | I-35-21S-36E | I | 30-025-04920 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #139 | S | O-35-21S-36E | O | 30-025-31305 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #140 | S | P-35-21S-36E | P | 30-025-04921 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #141 | S | M-36-21S-36E | M | 30-025-04938 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #142 | S | N-36-21S-36E | N | 30-025-04928 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #143 | S | O-36-21S-36E | O | 30-025-04940 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #144 | S | P-36-21S-36E | P | 30-025-31633 | | | O |
| | ARROWHEAD GRAYBURG UNIT #146 | P | 1-01-22S-36E | A | 30-025-24021 | | | I |
| | ARROWHEAD GRAYBURG UNIT #148 | F | 3-01-22S-36E | C | 30-025-31393 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #149 | F | 4-01-22S-36E | D | 30-025-08733 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #150 | S | 1-02-22S-36E | A | 30-025-08741 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #151 | S | 2-02-22S-36E | B | 30-025-08738 | 3040 | ARROWHEAD; GRAYBURG | I |

| | | | | | | | | |
|--------|-------------------------------|---|---------------|---|--------------|-------|----------------------------------|---|
| | ARROWHEAD GRAYBURG UNIT #156 | S | G-02-22S-36E | G | 30-025-08748 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #157 | S | H-02-22S-36E | H | 30-025-08740 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #158 | F | E-01-22S-36E | E | 30-025-08721 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #159 | F | F-01-22S-36E | F | 30-025-08723 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #160 | F | G-01-22S-36E | G | 30-025-24272 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #166 | F | J-01-22S-36E | J | 30-025-08724 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #167 | P | K-01-22S-36E | K | 30-025-08728 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #168 | P | L-01-22S-36E | L | 30-025-08727 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #169 | S | I-02-22S-36E | I | 30-025-08739 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #170 | S | J-02-22S-36E | J | 30-025-31435 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #172 | S | L-02-22S-36E | L | 30-025-08735 | | | O |
| | ARROWHEAD GRAYBURG UNIT #175 | S | O-02-22S-36E | O | 30-025-08745 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #177 | P | M-01-22S-36E | M | 30-025-08729 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #179 | F | O-01-22S-36E | O | 30-025-08726 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #183 | P | C-07-22S-37E | C | 30-025-10095 | | | O |
| | ARROWHEAD GRAYBURG UNIT #185 | P | A-12-22S-36E | A | 30-025-08888 | | | I |
| | ARROWHEAD GRAYBURG UNIT #186 | P | B-12-22S-36E | B | 30-025-31722 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #187 | P | C-12-22S-36E | C | 30-025-08886 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #189 | S | A-11-22S-36E | A | 30-025-08872 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #190 | S | B-11-22S-36E | B | 30-025-31724 | | | O |
| | ARROWHEAD GRAYBURG UNIT #193 | S | H-11-22S-36E | H | 30-025-08876 | | | O |
| | ARROWHEAD GRAYBURG UNIT #194 | P | E-12-22S-36E | E | 30-025-08881 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #195 | P | F-12-22S-36E | F | 30-025-08882 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #196 | P | G-12-22S-36E | G | 30-025-08883 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #197 | P | H-12-22S-36E | H | 30-025-31631 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #198 | P | 2-07-22S-37E | E | 30-025-10092 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #199 | P | F-07-22S-37E | F | 30-025-31560 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #201 | S | K-07-22S-37E | K | 30-025-31675 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #203 | S | I-12-22S-36E | I | 30-025-31379 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #204 | S | J-12-22S-36E | J | 30-025-26478 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #205 | S | K-12-22S-36E | K | 30-025-26659 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #207 | S | I-11-22S-36E | I | 30-025-08875 | | | O |
| | ARROWHEAD GRAYBURG UNIT #210 | S | O-12-22S-36E | O | 30-025-26391 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #211 | S | P-12-22S-36E | P | 30-025-31534 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #212 | S | 4-07-22S-37E | M | 30-025-31388 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #213 | P | N-07-22S-37E | N | 30-025-31582 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #214 | P | O-07-22S-37E | O | 30-025-10096 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #215 | P | P-07-22S-37E | P | 30-025-31751 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #217 | F | B-18-22S-37E | B | 30-025-31562 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #218 | S | C-18-22S-37E | C | 30-025-31301 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #219 | P | 1-18-22S-37E | D | 30-025-31609 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #220 | S | A-13-22S-36E | A | 30-025-31437 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #221 | S | B-13-22S-36E | B | 30-025-08898 | | | O |
| | ARROWHEAD GRAYBURG UNIT #222 | S | C-13-22S-36E | C | 30-025-08899 | | | I |
| | ARROWHEAD GRAYBURG UNIT #225 | S | G-13-22S-36E | G | 30-025-31410 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #226 | S | H-13-22S-36E | H | 30-025-31674 | | | O |
| | ARROWHEAD GRAYBURG UNIT #227 | S | 2-18-22S-37E | E | 30-025-31245 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #229 | S | G-18-22S-37E | G | 30-025-31740 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #231 | S | I-18-22S-37E | I | 30-025-10355 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #233 | S | K-18-22S-37E | K | 30-025-25878 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #235 | S | I-13-22S-36E | I | 30-025-31390 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #239 | S | P-13-22S-36E | P | 30-025-31710 | | | O |
| | ARROWHEAD GRAYBURG UNIT #240 | S | 4-18-22S-37E | M | 30-025-31632 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #241 | S | N-18-22S-37E | N | 30-025-31535 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #242 | S | O-18-22S-37E | O | 30-025-31329 | 3040 | ARROWHEAD; GRAYBURG | I |
| | ARROWHEAD GRAYBURG UNIT #246 | P | C-19-22S-37E | C | 30-025-10358 | | | I |
| | ARROWHEAD GRAYBURG UNIT #247 | S | 1-19-22S-37E | D | 30-025-10362 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #328 | S | I-35-21S-36E | I | 30-025-37282 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #330 | S | M-36-21S-36E | M | 30-025-34843 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #335 | S | M-36-21S-36E | M | 30-025-34636 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #336 | S | 1-02-22S-36E | A | 30-025-34297 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #337Y | S | 1-02-22S-36E | A | 30-025-35543 | | | O |
| | ARROWHEAD GRAYBURG UNIT #342 | S | 2-02-22S-36E | B | 30-025-34637 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #343 | S | 1-02-22S-36E | A | 30-025-34844 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #390 | S | P-12-22S-36E | P | 30-025-34299 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #398 | S | P-12-22S-36E | P | 30-025-37285 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #404P | S | P-02-22S-36E | P | 30-025-39195 | | | O |
| | ARROWHEAD GRAYBURG UNIT #405G | S | G-12-22S-36E | G | 30-025-39196 | | | O |
| | ARROWHEAD GRAYBURG UNIT #408 | P | 2-18-22S-37E | E | 30-025-37286 | 3040 | ARROWHEAD; GRAYBURG | O |
| | ARROWHEAD GRAYBURG UNIT #410C | P | I-12-22S-36E | I | 30-025-41300 | | | O |
| | ARROWHEAD GRAYBURG UNIT #414C | S | O-12-22S-36E | O | 30-025-41301 | | | O |
| | ARROWHEAD GRAYBURG UNIT #600 | S | P-35-21S-36E | P | 30-025-31234 | 96221 | WSW; SAN ANDRES | W |
| 331232 | B V CULP NCT B #004 | P | P-31-19S-37E | P | 30-025-05765 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331228 | BELL RAMSAY NCT A #005 | S | M-04-21S-36E | M | 30-025-04488 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | BELL RAMSAY NCT A #008 | S | I2-04-21S-36E | D | 30-025-04491 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |

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| | BELL RAMSAY NCT A #012 | S | 5-04-21S-36E | E | 30-025-04487 | 47960 | OIL CENTER; BLINEBRY | O |
| 331229 | BELL RAMSAY NCT C COM #002 | F | F-34-20S-37E | F | 30-025-23178 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331230 | BELL RAMSAY NCT J #002 | S | M-25-20S-37E | M | 30-025-35023 | 96356 | HARDY; TUBB-DRINKARD, NORTH | O |
| 331231 | COOPER LOVE #002 | P | 1-05-20S-37E | A | 30-025-32956 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331233 | DAURON #001 | P | 5-01-21S-37E | D | 30-025-06338 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-06338 | 19190 | DRINKARD | |
| | | | | | 30-025-06338 | 60240 | TUBB OIL AND GAS (OIL) | |
| | DAURON #002 | P | 10-01-21S-37E | J | 30-025-29792 | 19190 | DRINKARD | O |
| | | | | | 30-025-29792 | 60240 | TUBB OIL AND GAS (OIL) | |
| | | | | | 30-025-29792 | 62700 | WANTZ; ABO | |
| | DAURON #003 | P | 9-01-21S-37E | I | 30-025-30005 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-30005 | 19190 | DRINKARD | |
| | | | | | 30-025-30005 | 60240 | TUBB OIL AND GAS (OIL) | |
| | DAURON #004 | P | 7-01-21S-37E | G | 30-025-30320 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-30320 | 19190 | DRINKARD | |
| | | | | | 30-025-30320 | 60240 | TUBB OIL AND GAS (OIL) | |
| | DAURON #005 | P | 6-01-21S-37E | F | 30-025-30835 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-30835 | 19190 | DRINKARD | |
| | | | | | 30-025-30835 | 60240 | TUBB OIL AND GAS (OIL) | |
| 331234 | E E BLINEBRY A FEDERAL NCT-1 COM #004 | F | 3-31-23S-37E | L | 30-025-33430 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | E E BLINEBRY A FEDERAL NCT-1 COM #005 | F | N-31-23S-37E | N | 30-025-33646 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| 331292 | E H B PHILLIPS #001 | P | D-10-20S-37E | D | 30-025-06054 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | E H B PHILLIPS #002 | P | F-10-20S-37E | F | 30-025-32519 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331293 | ELBERT SHIPP NCT A COM #001 | P | F-21-19S-37E | F | 30-025-05673 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331235 | EUGENE COATES #002 | P | N-03-24S-36E | N | 30-025-09506 | | | O |
| | EUGENE COATES #004 | P | P-03-24S-36E | P | 30-025-09508 | | | G |
| | EUGENE COATES #005 | P | I-03-24S-36E | I | 30-025-09509 | | | O |
| | EUGENE COATES #008 | P | J-03-24S-36E | J | 30-025-30821 | 33820 | JALMAT; TAN-YATES-7 RVRS (OIL) | O |
| 331236 | EUMONT 16 STATE #001 | S | E-16-19S-37E | E | 30-025-32965 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331297 | EUMONT 16 STATE COM #001 | S | M-16-19S-37E | M | 30-025-33024 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331237 | EUMONT GAS COM 2 #001 | S | I-29-21S-36E | I | 30-025-04823 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EUMONT GAS COM 2 #002 | S | K-29-21S-36E | K | 30-025-04825 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EUMONT GAS COM 2 #004 | S | P-29-21S-36E | P | 30-025-04824 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | EUMONT GAS COM 2 #005 | S | M-29-21S-36E | M | 30-025-04827 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331238 | EUMONT GAS COM NO 1 #001 | P | J-04-20S-37E | J | 30-025-05886 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EUMONT GAS COM NO 1 #003 | P | N-04-20S-37E | N | 30-025-31811 | | | G |
| | EUMONT GAS COM NO 1 #004 | P | 4-04-20S-37E | D | 30-025-31812 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EUMONT GAS COM NO 1 #005 | P | P-04-20S-37E | P | 30-025-31813 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331239 | EUNICE COM #001 | S | K-19-21S-37E | K | 30-025-06667 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330840 | EUNICE MONUMENT SOUTH UNIT #001 | F | O-04-21S-36E | W | 30-025-04484 | 96121 | SWD; SAN ANDRES | S |
| | EUNICE MONUMENT SOUTH UNIT #101 | S | C-30-20S-37E | C | 30-025-30220 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #103 | F | B-25-20S-36E | B | 30-025-04331 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #104 | S | C-25-20S-36E | C | 30-025-04321 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #107 | S | F-25-20S-36E | F | 30-025-04320 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #108 | F | G-25-20S-36E | G | 30-025-04330 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #109 | P | H-25-20S-36E | H | 30-025-04324 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #116 | S | K-30-20S-37E | K | 30-025-06290 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #117 | S | 3-30-20S-37E | L | 30-025-29396 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #118 | P | I-25-20S-36E | I | 30-025-29598 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #119 | P | J-25-20S-36E | J | 30-025-04327 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #120 | F | K-25-20S-36E | K | 30-025-04332 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #122 | F | M-25-20S-36E | M | 30-025-30277 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #123 | F | N-25-20S-36E | N | 30-025-29957 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #124 | P | O-25-20S-36E | O | 30-025-04325 | | | I |
| | EUNICE MONUMENT SOUTH UNIT #125 | P | P-25-20S-36E | P | 30-025-04322 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #127 | S | N-30-20S-37E | N | 30-025-29819 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #128 | S | O-30-20S-37E | O | 30-025-06285 | | | I |
| | EUNICE MONUMENT SOUTH UNIT #129 | S | P-30-20S-37E | P | 30-025-29397 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #133 | S | D-32-20S-37E | D | 30-025-06314 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #134 | S | A-31-20S-37E | A | 30-025-06306 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT #135 | S | B-31-20S-37E | B | 30-025-29910 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #136 | S | C-31-20S-37E | C | 30-025-06303 | | | I |

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| EUNICE MONUMENT SOUTH UNIT #138 | S | A-36-20S-36E | A | 30-025-04432 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #139 | S | B-36-20S-36E | B | 30-025-12544 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #140 | S | C-36-20S-36E | C | 30-025-04425 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #141 | S | D-36-20S-36E | D | 30-025-04429 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #144 | S | G-36-20S-36E | G | 30-025-12543 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #145 | S | H-36-20S-36E | H | 30-025-12545 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #146 | S | 2-31-20S-37E | E | 30-025-06304 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #147 | S | F-31-20S-37E | F | 30-025-29913 | | | O |
| EUNICE MONUMENT SOUTH UNIT #148 | S | G-31-20S-37E | G | 30-025-29946 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #149 | S | H-31-20S-37E | H | 30-025-29394 | | | O |
| EUNICE MONUMENT SOUTH UNIT #150 | S | E-32-20S-37E | E | 30-025-29668 | | | I |
| EUNICE MONUMENT SOUTH UNIT #151 | S | F-32-20S-37E | F | 30-025-06317 | | | O |
| EUNICE MONUMENT SOUTH UNIT #152 | S | G-32-20S-37E | G | 30-025-06318 | | | I |
| EUNICE MONUMENT SOUTH UNIT #156 | S | K-32-20S-37E | K | 30-025-06324 | | | I |
| EUNICE MONUMENT SOUTH UNIT #158 | S | I-31-20S-37E | I | 30-025-06311 | | | I |
| EUNICE MONUMENT SOUTH UNIT #161 | S | 3-31-20S-37E | L | 30-025-06305 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #162 | S | I-36-20S-36E | I | 30-025-04419 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #163 | S | J-36-20S-36E | J | 30-025-04420 | | | O |
| EUNICE MONUMENT SOUTH UNIT #164 | S | K-36-20S-36E | K | 30-025-29820 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #166 | S | M-36-20S-36E | M | 30-025-04426 | | | O |
| EUNICE MONUMENT SOUTH UNIT #167 | S | N-36-20S-36E | N | 30-025-04421 | | | O |
| EUNICE MONUMENT SOUTH UNIT #169 | S | P-36-20S-36E | P | 30-025-29583 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #170 | S | 4-31-20S-37E | M | 30-025-06297 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #171 | S | N-31-20S-37E | N | 30-025-06296 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #172 | S | O-31-20S-37E | O | 30-025-29912 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #173 | S | P-31-20S-37E | P | 30-025-29395 | | | O |
| EUNICE MONUMENT SOUTH UNIT #174 | S | M-32-20S-37E | M | 30-025-06206 | | | I |
| EUNICE MONUMENT SOUTH UNIT #175 | S | N-32-20S-37E | N | 30-025-06321 | | | O |
| EUNICE MONUMENT SOUTH UNIT #176 | S | O-32-20S-37E | O | 30-025-06322 | | | I |
| EUNICE MONUMENT SOUTH UNIT #177 | S | P-32-20S-37E | P | 30-025-06323 | | | O |
| EUNICE MONUMENT SOUTH UNIT #179 | S | 4-03-21S-36E | D | 30-025-04447 | | | O |
| EUNICE MONUMENT SOUTH UNIT #181 | F | 2-04-21S-36E | B | 30-025-04479 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #183 | S | 4-04-21S-36E | D | 30-025-04493 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #184 | S | 1-05-21S-36E | A | 30-025-04513 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #185 | S | 2-05-21S-36E | B | 30-025-04512 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #187 | S | 4-05-21S-36E | D | 30-025-04515 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #188 | S | 1-06-21S-36E | A | 30-025-04533 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #189 | S | 2-06-21S-36E | B | 30-025-29614 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #190 | S | 3-06-21S-36E | C | 30-025-04536 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #193 | S | 14-06-21S-36E | F | 30-025-04535 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #195 | S | 8-06-21S-36E | A | 30-025-04532 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #196 | S | 5-05-21S-36E | E | 30-025-04514 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #198 | S | 7-05-21S-36E | G | 30-025-29682 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #199 | S | 16-05-21S-36E | H | 30-025-04510 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #200H | S | 5-04-21S-36E | D | 30-025-04492 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #201 | F | 6-04-21S-36E | C | 30-025-04472 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #202 | F | 7-04-21S-36E | G | 30-025-29866 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #203 | F | 16-04-21S-36E | H | 30-025-04476 | | | I |
| EUNICE MONUMENT SOUTH UNIT #204 | S | 5-03-21S-36E | E | 30-025-04453 | | | O |

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| EUNICE MONUMENT SOUTH UNIT #207 | S | 12-03-21S-36E | L | 30-025-04450 | | | I |
| EUNICE MONUMENT SOUTH UNIT #211 | S | L-04-21S-36E | L | 30-025-29615 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #212 | S | 9-05-21S-36E | I | 30-025-04504 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #213 | S | J-05-21S-36E | J | 30-025-04503 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #214 | S | 11-05-21S-36E | C | 30-025-04507 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #215 | S | L-05-21S-36E | L | 30-025-04508 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #216 | S | I-06-21S-36E | I | 30-025-08704 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #217 | P | J-06-21S-36E | J | 30-025-29911 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #218 | S | 11-06-21S-36E | K | 30-025-04657 | | | O |
| EUNICE MONUMENT SOUTH UNIT #219 | S | 12-06-21S-36E | L | 30-025-30225 | | | O |
| EUNICE MONUMENT SOUTH UNIT #221 | S | N-06-21S-36E | N | 30-025-08706 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #222 | S | 15-06-21S-36E | O | 30-025-04531 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #223 | S | P-06-21S-36E | P | 30-025-04530 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #225 | S | N-05-21S-36E | N | 30-025-29683 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #226 | S | 15-05-21S-36E | G | 30-025-04501 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #228 | S | M-04-21S-36E | M | 30-025-04490 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #229 | F | N-04-21S-36E | N | 30-025-04467 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #231 | F | P-04-21S-36E | P | 30-025-04464 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #236 | P | K-03-21S-36E | S | 30-025-04458 | | | O |
| EUNICE MONUMENT SOUTH UNIT #237 | P | L-03-21S-36E | T | 30-025-29905 | | | I |
| EUNICE MONUMENT SOUTH UNIT #238 | F | I-04-21S-36E | I | 30-025-04466 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #239 | F | J-04-21S-36E | J | 30-025-04468 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #240 | F | K-04-21S-36E | K | 30-025-29867 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #241 | S | L-04-21S-36E | L | 30-025-04489 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #242 | S | I-05-21S-36E | I | 30-025-04519 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #243 | S | J-05-21S-36E | R | 30-025-04518 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #244 | S | K-05-21S-36E | S | 30-025-04497 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #245 | S | I-05-21S-36E | I | 30-025-04498 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #246 | S | I-06-21S-36E | I | 30-025-04527 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #247 | S | J-06-21S-36E | J | 30-025-29575 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #248 | S | K-06-21S-36E | S | 30-025-04521 | | | O |
| EUNICE MONUMENT SOUTH UNIT #249 | S | 17-06-21S-36E | L | 30-025-04525 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #250 | S | 18-06-21S-36E | U | 30-025-04526 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #251 | S | N-06-21S-36E | N | 30-025-04520 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #252 | S | O-06-21S-36E | W | 30-025-04528 | | | I |
| EUNICE MONUMENT SOUTH UNIT #253 | S | 1-06-21S-36E | X | 30-025-08702 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #255 | S | N-05-21S-36E | N | 30-025-20072 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #257 | S | 1-05-21S-36E | X | 30-025-04496 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #259 | F | N-04-21S-36E | N | 30-025-04462 | | | I |
| EUNICE MONUMENT SOUTH UNIT #260 | F | O-04-21S-36E | W | 30-025-04463 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #261 | F | P-04-21S-36E | P | 30-025-04471 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #265 | P | P-03-21S-36E | P | 30-025-04459 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #267 | S | N-02-21S-36E | V | 30-025-04440 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #270 | P | A-11-21S-36E | A | 30-025-04611 | | | O |
| EUNICE MONUMENT SOUTH UNIT #271 | P | B-11-21S-36E | B | 30-025-04612 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |

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| EUNICE MONUMENT SOUTH UNIT #272 | S | C-11-21S-36E | C | 30-025-04610 | | | O |
| EUNICE MONUMENT SOUTH UNIT #273 | S | D-11-21S-36E | D | 30-025-04609 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #274 | P | A-10-21S-36E | A | 30-025-04602 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #275 | P | B-10-21S-36E | B | 30-025-04598 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #276 | P | C-10-21S-36E | C | 30-025-04603 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #277 | P | D-10-21S-36E | D | 30-025-04593 | | | I |
| EUNICE MONUMENT SOUTH UNIT #279 | P | B-09-21S-36E | B | 30-025-04581 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #280 | F | C-09-21S-36E | C | 30-025-04573 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #281 | S | D-09-21S-36E | D | 30-025-04577 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #283 | S | B-08-21S-36E | B | 30-025-04569 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #284 | F | C-08-21S-36E | C | 30-025-04561 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #285 | F | D-08-21S-36E | D | 30-025-24563 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #286 | P | A-07-21S-36E | A | 30-025-04540 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #287 | P | B-07-21S-36E | B | 30-025-29909 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #288 | P | C-07-21S-36E | C | 30-025-04552 | | | O |
| EUNICE MONUMENT SOUTH UNIT #289 | P | 1-07-21S-36E | D | 30-025-08707 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #290 | P | 2-07-21S-36E | E | 30-025-04543 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #292 | P | G-07-21S-36E | G | 30-025-04542 | | | O |
| EUNICE MONUMENT SOUTH UNIT #294 | F | E-08-21S-36E | E | 30-025-04562 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #295 | F | F-08-21S-36E | F | 30-025-04560 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #296 | S | G-08-21S-36E | G | 30-025-04566 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #297 | S | H-08-21S-36E | H | 30-025-04568 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #298 | S | E-09-21S-36E | E | 30-025-04575 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #299 | F | F-09-21S-36E | F | 30-025-04571 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #300 | P | G-09-21S-36E | G | 30-025-04579 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #301 | P | H-09-21S-36E | H | 30-025-04587 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #303 | P | F-10-21S-36E | F | 30-025-04594 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #304 | P | G-10-21S-36E | G | 30-025-04601 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #305 | P | H-10-21S-36E | H | 30-025-04597 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #306 | S | E-11-21S-36E | E | 30-025-04604 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #307 | S | F-11-21S-36E | F | 30-025-08708 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #308 | P | G-11-21S-36E | G | 30-025-04618 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #309 | P | H-11-21S-36E | H | 30-025-04617 | | | O |
| EUNICE MONUMENT SOUTH UNIT #311 | P | I-11-21S-36E | I | 30-025-29600 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #312 | P | J-11-21S-36E | J | 30-025-04616 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #313 | S | K-11-21S-36E | K | 30-025-04608 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #315 | P | I-10-21S-36E | I | 30-025-04600 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #316 | P | J-10-21S-36E | J | 30-025-29882 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #317 | P | K-10-21S-36E | K | 30-025-04590 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #318 | F | L-10-21S-36E | L | 30-025-29901 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #319 | P | I-09-21S-36E | I | 30-025-04584 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #320 | P | J-09-21S-36E | J | 30-025-04578 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #321 | F | K-09-21S-36E | K | 30-025-04570 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |

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| EUNICE MONUMENT SOUTH UNIT #322 | S | L-09-21S-36E | L | 30-025-04574 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #323 | S | I-08-21S-36E | I | 30-025-04555 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #324 | S | J-08-21S-36E | J | 30-025-04554 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #325 | F | K-08-21S-36E | K | 30-025-04556 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #326 | F | L-08-21S-36E | L | 30-025-04559 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #327 | P | I-07-21S-36E | I | 30-025-04546 | | | O |
| EUNICE MONUMENT SOUTH UNIT #328 | P | J-07-21S-36E | J | 30-025-29586 | | | I |
| EUNICE MONUMENT SOUTH UNIT #329 | P | K-07-21S-36E | K | 30-025-29576 | | | O |
| EUNICE MONUMENT SOUTH UNIT #330 | P | 3-07-21S-36E | L | 30-025-04549 | | | O |
| EUNICE MONUMENT SOUTH UNIT #331 | P | 4-07-21S-36E | M | 30-025-04550 | | | O |
| EUNICE MONUMENT SOUTH UNIT #332 | P | N-07-21S-36E | N | 30-025-04545 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #333 | P | O-07-21S-36E | O | 30-025-04547 | | | O |
| EUNICE MONUMENT SOUTH UNIT #334 | P | P-07-21S-36E | P | 30-025-04544 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #336 | F | N-08-21S-36E | N | 30-025-04557 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #337 | S | O-08-21S-36E | O | 30-025-04565 | | | O |
| EUNICE MONUMENT SOUTH UNIT #338 | S | P-08-21S-36E | P | 30-025-29601 | | | I |
| EUNICE MONUMENT SOUTH UNIT #339 | S | M-09-21S-36E | M | 30-025-04576 | | | O |
| EUNICE MONUMENT SOUTH UNIT #340 | F | N-09-21S-36E | N | 30-025-04572 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #341 | P | O-09-21S-36E | O | 30-025-04580 | | | O |
| EUNICE MONUMENT SOUTH UNIT #342 | P | P-09-21S-36E | P | 30-025-04583 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #343 | P | M-10-21S-36E | M | 30-025-04589 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #344 | P | N-10-21S-36E | N | 30-025-04592 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #345 | P | O-10-21S-36E | O | 30-025-29823 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #346 | P | P-10-21S-36E | P | 30-025-29881 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #347 | S | M-11-21S-36E | M | 30-025-04606 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #348 | S | N-11-21S-36E | N | 30-025-04607 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #350 | P | P-11-21S-36E | P | 30-025-04614 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #351 | P | M-12-21S-36E | M | 30-025-04622 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #352 | F | D-13-21S-36E | D | 30-025-04625 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #353 | F | A-14-21S-36E | A | 30-025-04630 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #354 | P | B-14-21S-36E | B | 30-025-04640 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #355 | P | C-14-21S-36E | C | 30-025-04636 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #356 | F | D-14-21S-36E | D | 30-025-04629 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #357 | S | A-15-21S-36E | A | 30-025-04643 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #358 | S | B-15-21S-36E | B | 30-025-04642 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #359 | S | C-15-21S-36E | C | 30-025-04651 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #360 | S | D-15-21S-36E | D | 30-025-04649 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #361 | S | A-16-21S-36E | A | 30-025-04655 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #362 | S | B-16-21S-36E | B | 30-025-04662 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #363 | S | C-16-21S-36E | C | 30-025-04661 | | | O |
| EUNICE MONUMENT SOUTH UNIT #364 | S | D-16-21S-36E | D | 30-025-04659 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #365 | P | A-17-21S-36E | A | 30-025-21871 | | | O |
| EUNICE MONUMENT SOUTH UNIT #366 | P | B-17-21S-36E | B | 30-025-04699 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #367 | P | C-17-21S-36E | C | 30-025-20202 | | | O |
| EUNICE MONUMENT SOUTH UNIT #368 | P | D-17-21S-36E | D | 30-025-04697 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #369 | F | A-18-21S-36E | A | 30-025-04676 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |

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| EUNICE MONUMENT SOUTH UNIT #370 | F | B-18-21S-36E | B | 30-025-04684 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #371 | F | C-18-21S-36E | C | 30-025-29966 | | | O |
| EUNICE MONUMENT SOUTH UNIT #372 | F | 1-18-21S-36E | D | 30-025-04682 | | | O |
| EUNICE MONUMENT SOUTH UNIT #375 | F | G-18-21S-36E | G | 30-025-29837 | | | O |
| EUNICE MONUMENT SOUTH UNIT #377 | F | E-17-21S-36E | E | 30-025-04689 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #378 | F | F-17-21S-36E | F | 30-025-04687 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #380 | P | H-17-21S-36E | H | 30-025-04701 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #383 | S | G-16-21S-36E | G | 30-025-04658 | | | O |
| EUNICE MONUMENT SOUTH UNIT #384 | S | H-16-21S-36E | H | 30-025-04656 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #386 | S | F-15-21S-36E | F | 30-025-04652 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #388 | S | H-15-21S-36E | H | 30-025-04641 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #390 | P | F-14-21S-36E | F | 30-025-04635 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #395 | P | K-14-21S-36E | K | 30-025-29821 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #396 | F | L-14-21S-36E | L | 30-025-04633 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #397 | S | I-15-21S-36E | I | 30-025-04646 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #398 | S | J-15-21S-36E | J | 30-025-04647 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #399 | S | K-15-21S-36E | K | 30-025-08710 | | | O |
| EUNICE MONUMENT SOUTH UNIT #400 | S | L-15-21S-36E | L | 30-025-04653 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #401 | S | I-16-21S-36E | I | 30-025-04667 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #402 | S | J-16-21S-36E | J | 30-025-04665 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #403 | S | K-16-21S-36E | K | 30-025-29779 | | | O |
| EUNICE MONUMENT SOUTH UNIT #404 | S | L-16-21S-36E | L | 30-025-04688 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #406 | P | J-17-21S-36E | J | 30-025-04696 | | | I |
| EUNICE MONUMENT SOUTH UNIT #407 | F | K-17-21S-36E | K | 30-025-24588 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #408 | F | L-17-21S-36E | L | 30-025-04692 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #409 | F | I-18-21S-36E | I | 30-025-04678 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #410 | F | J-18-21S-36E | J | 30-025-30281 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #412 | F | 3-18-21S-36E | L | 30-025-04675 | | | O |
| EUNICE MONUMENT SOUTH UNIT #413 | F | 4-18-21S-36E | M | 30-025-04673 | | | O |
| EUNICE MONUMENT SOUTH UNIT #415 | F | O-18-21S-36E | O | 30-025-04671 | | | O |
| EUNICE MONUMENT SOUTH UNIT #417 | F | M-17-21S-36E | M | 30-025-04686 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #418 | F | N-17-21S-36E | N | 30-025-04691 | | | O |
| EUNICE MONUMENT SOUTH UNIT #423 | S | O-16-21S-36E | O | 30-025-04666 | | | O |
| EUNICE MONUMENT SOUTH UNIT #425 | S | M-15-21S-36E | M | 30-025-30452 | | | O |
| EUNICE MONUMENT SOUTH UNIT #426 | S | N-15-21S-36E | N | 30-025-08711 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #427 | S | O-15-21S-36E | O | 30-025-04644 | | | O |
| EUNICE MONUMENT SOUTH UNIT #429 | F | M-14-21S-36E | M | 30-025-04634 | | | O |
| EUNICE MONUMENT SOUTH UNIT #434 | S | B-22-21S-36E | B | 30-025-29602 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #435 | S | C-22-21S-36E | C | 30-025-29822 | | | O |
| EUNICE MONUMENT SOUTH UNIT #436 | S | D-22-21S-36E | D | 30-025-04750 | | | I |
| EUNICE MONUMENT SOUTH UNIT #440 | S | D-21-21S-36E | D | 30-025-04735 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #441 | S | E-21-21S-36E | E | 30-025-04737 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #444 | S | H-21-21S-36E | H | 30-025-04749 | | | I |
| EUNICE MONUMENT SOUTH UNIT #445 | S | E-22-21S-36E | E | 30-025-04752 | | | O |
| EUNICE MONUMENT SOUTH UNIT #447 | S | G-22-21S-36E | G | 30-025-29398 | | | O |
| EUNICE MONUMENT SOUTH UNIT #448 | S | H-22-21S-36E | H | 30-025-25487 | | | O |
| EUNICE MONUMENT SOUTH UNIT #456 | S | L-21-21S-36E | L | 30-025-04736 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #457 | S | I-05-21S-36E | I | 30-025-29149 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | W |
| EUNICE MONUMENT SOUTH UNIT #458 | P | I-04-21S-36E | I | 30-025-29618 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | W |
| EUNICE MONUMENT SOUTH UNIT #459 | S | 2-05-21S-36E | B | 30-025-29826 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | W |

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| EUNICE MONUMENT SOUTH UNIT #462 | S | L-09-21S-36E | L | 30-025-29622 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #554 | S | 3-31-20S-37E | L | 30-025-34845 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #560 | S | O-36-20S-36E | O | 30-025-35461 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #574 | S | N-31-20S-37E | N | 30-025-35160 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #575 | S | N-31-20S-37E | N | 30-025-34824 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #576 | S | 1-06-21S-36E | A | 30-025-34640 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #584 | S | 1-06-21S-36E | A | 30-025-34139 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #585 | S | 4-05-21S-36E | D | 30-025-35157 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #596 | S | 12-05-21S-36E | L | 30-025-34846 | | | O |
| EUNICE MONUMENT SOUTH UNIT #609 | S | 12-04-21S-36E | D | 30-025-31406 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #610 | S | 16-05-21S-36E | H | 30-025-31407 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #612 | S | 14-05-21S-36E | N | 30-025-35159 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #613 | S | 13-05-21S-36E | M | 30-025-35161 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #620 | P | J-06-21S-36E | R | 30-025-30511 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #622 | S | K-05-21S-36E | S | 30-025-35454 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #624 | S | J-05-21S-36E | R | 30-025-31408 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #625 | S | L-04-21S-36E | T | 30-025-31425 | | | O |
| EUNICE MONUMENT SOUTH UNIT #628 | P | 16-06-21S-36E | H | 30-025-37279 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #638 | F | P-05-21S-36E | X | 30-025-31426 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #639 | S | I-05-21S-36E | Q | 30-025-31409 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #640 | S | J-05-21S-36E | R | 30-025-34212 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #641 | S | L-05-21S-36E | T | 30-025-33189 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #642 | P | I-06-21S-36E | Q | 30-025-30958 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #643H | S | P-06-21S-36E | P | 30-025-30512 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #649 | S | P-06-21S-36E | X | 30-025-33187 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #650 | F | D-08-21S-36E | D | 30-025-33800 | | | O |
| EUNICE MONUMENT SOUTH UNIT #653 | S | M-04-21S-36E | M | 30-025-34213 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #658 | P | 4-03-21S-36E | M | 30-025-37280 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #660 | P | P-03-21S-36E | P | 30-025-37319 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #669 | S | G-10-21S-36E | G | 30-025-34138 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #670 | S | B-10-21S-36E | B | 30-025-34214 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #671 | S | C-10-21S-36E | C | 30-025-35456 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #673 | P | A-09-21S-36E | A | 30-025-37320 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #676 | S | A-08-21S-36E | A | 30-025-35457 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #677 | S | A-08-21S-36E | A | 30-025-37359 | | | O |
| EUNICE MONUMENT SOUTH UNIT #679 | F | D-08-21S-36E | D | 30-025-31009 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #680 | S | H-07-21S-36E | H | 30-025-33597 | | | O |
| EUNICE MONUMENT SOUTH UNIT #688 | F | L-08-21S-36E | L | 30-025-35205 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #689 | S | G-08-21S-36E | G | 30-025-37360 | | | O |
| EUNICE MONUMENT SOUTH UNIT #695 | S | I-09-21S-36E | I | 30-025-35162 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #696 | S | F-10-21S-36E | F | 30-025-34137 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| EUNICE MONUMENT SOUTH UNIT #698 | P | I-10-21S-36E | I | 30-025-34847 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| EUNICE MONUMENT SOUTH UNIT #699 | S | H-10-21S-36E | H | 30-025-34215 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |

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| | EUNICE MONUMENT SOUTH UNIT #707 | P | P-10-21S-36E | P | 30-025-35164 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #708 | P | I-10-21S-36E | I | 30-025-34848 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #709 | P | K-10-21S-36E | K | 30-025-34849 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #710 | P | N-10-21S-36E | N | 30-025-34825 | | | O |
| | EUNICE MONUMENT SOUTH UNIT #735 | S | D-15-21S-36E | D | 30-025-34826 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #736 | S | B-15-21S-36E | B | 30-025-34852 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #737 | S | B-15-21S-36E | B | 30-025-34853 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #738 | S | P-10-21S-36E | P | 30-025-35165 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #739 | S | N-11-21S-36E | N | 30-025-35458 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #746 | S | H-15-21S-36E | H | 30-025-37356 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #747 | S | A-15-21S-36E | A | 30-025-35167 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #748 | S | G-15-21S-36E | G | 30-025-34632 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #749 | S | C-15-21S-36E | C | 30-025-34641 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #750 | S | H-16-21S-36E | H | 30-025-35168 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT #774 | S | F-15-21S-36E | F | 30-025-35166 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| 330843 | EUNICE MONUMENT SOUTH UNIT B #851 | F | C-11-20S-36E | C | 30-025-04221 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #852 | P | D-11-20S-36E | D | 30-025-04222 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #853 | F | A-10-20S-36E | A | 30-025-04198 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #854 | F | H-10-20S-36E | H | 30-025-04204 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #855 | P | E-11-20S-36E | E | 30-025-31080 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #858 | F | I-11-20S-36E | I | 30-025-04212 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #859 | F | J-11-20S-36E | J | 30-025-04213 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #860 | P | K-11-20S-36E | K | 30-025-04223 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #862 | F | I-10-20S-36E | I | 30-025-04205 | | | I |
| | EUNICE MONUMENT SOUTH UNIT B #864 | F | M-11-20S-36E | M | 30-025-04217 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #866 | F | O-11-20S-36E | O | 30-025-04215 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #867 | F | P-11-20S-36E | P | 30-025-24297 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #868 | S | C-13-20S-36E | C | 30-025-04255 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #869 | S | D-13-20S-36E | D | 30-025-04256 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #872 | F | C-14-20S-36E | C | 30-025-04265 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #873 | F | D-14-20S-36E | D | 30-025-04276 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #877 | F | G-14-20S-36E | G | 30-025-04267 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #878 | F | H-14-20S-36E | H | 30-025-04263 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #879 | S | E-13-20S-36E | E | 30-025-12542 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #881 | S | K-13-20S-36E | K | 30-025-31112 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #882 | S | L-13-20S-36E | L | 30-025-04253 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #883 | F | I-14-20S-36E | I | 30-025-04264 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #884 | F | J-14-20S-36E | J | 30-025-04268 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #885 | F | K-14-20S-36E | K | 30-025-04272 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #886 | F | L-14-20S-36E | L | 30-025-04275 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #887 | F | M-14-20S-36E | M | 30-025-31126 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #888 | F | N-14-20S-36E | N | 30-025-04273 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #889 | F | O-14-20S-36E | O | 30-025-04271 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #890 | F | P-14-20S-36E | P | 30-025-04266 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #891 | S | M-13-20S-36E | M | 30-025-04254 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |

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| | EUNICE MONUMENT SOUTH UNIT B #893 | S | O-13-20S-36E | O | 30-025-04252 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #895 | F | A-24-20S-36E | A | 30-025-04308 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #896 | F | B-24-20S-36E | B | 30-025-26076 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #897 | F | C-24-20S-36E | C | 30-025-04312 | | | I |
| | EUNICE MONUMENT SOUTH UNIT B #898 | F | D-24-20S-36E | D | 30-025-04315 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #900 | F | B-23-20S-36E | B | 30-025-04297 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #901 | F | C-23-20S-36E | C | 30-025-04288 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #902 | F | D-23-20S-36E | D | 30-025-04292 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #903 | F | E-23-20S-36E | E | 30-025-04290 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #904 | F | F-23-20S-36E | F | 30-025-04291 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #905 | F | G-23-20S-36E | G | 30-025-04301 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #907 | F | E-24-20S-36E | E | 30-025-04317 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #910 | F | H-24-20S-36E | H | 30-025-04313 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #911 | F | J-24-20S-36E | J | 30-025-04311 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #912 | F | K-24-20S-36E | K | 30-025-04305 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #914 | F | I-23-20S-36E | I | 30-025-04298 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #915 | F | J-23-20S-36E | J | 30-025-04300 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #916 | F | K-23-20S-36E | K | 30-025-04289 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #917 | F | L-23-20S-36E | L | 30-025-04293 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #918 | F | M-23-20S-36E | M | 30-025-04302 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #919 | F | N-23-20S-36E | N | 30-025-04303 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #920 | F | O-23-20S-36E | O | 30-025-04299 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #921 | F | P-23-20S-36E | P | 30-025-04296 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | EUNICE MONUMENT SOUTH UNIT B #924 | P | O-24-20S-36E | O | 30-025-31119 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | I |
| | EUNICE MONUMENT SOUTH UNIT B #926L | S | L-13-20S-36E | L | 30-025-39194 | | | O |
| | EUNICE MONUMENT SOUTH UNIT B #927M | S | M-13-20S-36E | M | 30-025-39176 | | | O |
| 331290 | EXXON AGGIE STATE #004 | S | F-31-20S-37E | F | 30-025-06299 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EXXON AGGIE STATE #007 | S | B-31-20S-37E | B | 30-025-06302 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | EXXON AGGIE STATE #012 | S | H-31-20S-37E | H | 30-025-06307 | | | G |
| | EXXON AGGIE STATE #013 | S | N-31-20S-37E | N | 30-025-26325 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330851 | F F HARDISON B #007 | P | P-27-21S-37E | P | 30-025-06810 | 72480 | BLINEBRY OIL & GAS (PRO GAS) | G |
| 331295 | F W KUTTER NCT A COM #003 | S | J-20-19S-37E | J | 30-025-05660 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331240 | FANNING 4 #001 | P | 2-04-24S-37E | B | 30-025-35141 | 58330 | TEAGUE; DEVONIAN | O |
| | FANNING 4 #002 | P | G-04-24S-37E | G | 30-025-35731 | 58330 | TEAGUE; DEVONIAN | O |
| 331296 | FRED LUTHY COM #002 | S | D-29-19S-37E | D | 30-025-05728 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| 331284 | G C MATTHEWS #002 | P | J-06-20S-37E | J | 30-025-12721 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331241 | GOODWIN 10 STATE SWD #001 | S | 3-31-18S-37E | L | 30-025-34760 | 97699 | SWD; DEL-BS-TU-DR REEF | S |
| 331242 | GRAHAM ORCUTT GAS COM #001 | S | O-06-21S-36E | O | 30-025-30922 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | GRAHAM ORCUTT GAS COM #004 | P | 12-05-21S-36E | L | 30-025-31749 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331243 | GRAHAM STATE NCT C #001 | S | J-24-19S-36E | J | 30-025-04043 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | GRAHAM STATE NCT C #010 | S | B-24-19S-36E | B | 30-025-26771 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331244 | GRAHAM STATE NCT C COM #008 | S | J-25-19S-36E | J | 30-025-04061 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | GRAHAM STATE NCT C COM #009 | S | B-25-19S-36E | B | 30-025-27082 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331245 | GRAHAM STATE NCT F #003 | S | J-36-19S-36E | J | 30-025-12476 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | GRAHAM STATE NCT F #004 | S | O-36-19S-36E | O | 30-025-12477 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331289 | H C COLLINS #004 | P | K-14-21S-36E | K | 30-025-04638 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | H C COLLINS #006 | P | C-14-21S-36E | C | 30-025-32131 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | H C COLLINS #007 | P | G-14-21S-36E | G | 30-025-32780 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331279 | H T MATTERN #005 | P | L-20-19S-37E | L | 30-025-09885 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | H T MATTERN #006 | P | N-20-19S-37E | N | 30-025-30916 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331280 | H T MATTERN NCT A #002 | P | J-24-21S-36E | J | 30-025-04769 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | H T MATTERN NCT A #005 | S | M-24-21S-36E | M | 30-025-31013 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | H T MATTERN NCT A #006 | P | L-24-21S-36E | L | 30-025-34265 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | G |
| 330850 | H T MATTERN NCT D #006 | P | N-06-22S-37E | N | 30-025-10080 | | | G |
| | H T MATTERN NCT D #015 | P | 1-07-22S-37E | D | 30-025-25092 | | | O |
| | H T MATTERN NCT D #016 | P | 2-07-22S-37E | E | 30-025-25104 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| 331281 | H T MATTERN NCT E #003 | P | D-12-22S-36E | D | 30-025-08880 | | | G |
| | H T MATTERN NCT E #010 | P | N-01-22S-36E | N | 30-025-08730 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | H T MATTERN NCT E #014 | P | A-12-22S-36E | A | 30-025-29105 | 19190 | DRINKARD | O |
| | H T MATTERN NCT E #015 | S | E-12-22S-36E | E | 30-025-31032 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |

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| | H T MATTERN NCT E #016 | P | L-01-22S-36E | L | 30-025-34241 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331264 | H T ORCUTT NCT B COM #001 | S | 7-05-21S-36E | B | 30-025-04509 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331265 | H T ORCUTT NCT C COM #005 | S | P-36-20S-36E | P | 30-025-04430 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331266 | H T ORCUTT NCT C COM A #008 | S | 2-06-21S-36E | B | 30-025-04537 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331267 | H T ORCUTT NCT D COM #002 | S | G-13-20S-36E | G | 30-025-08715 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| 331282 | HARRY LEONARD NCT D #001 | S | H-03-22S-36E | H | 30-025-08752 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | G |
| | HARRY LEONARD NCT D #003 | S | K-03-22S-36E | K | 30-025-08754 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | O |
| | HARRY LEONARD NCT D #004 | S | I-03-22S-36E | I | 30-025-08755 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | HARRY LEONARD NCT D #005 | S | 2-03-22S-36E | B | 30-025-08762 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | HARRY LEONARD NCT D #007 | S | E-03-22S-36E | E | 30-025-08757 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | HARRY LEONARD NCT D #008 | S | M-03-22S-36E | M | 30-025-08758 | | | O |
| | HARRY LEONARD NCT D #009 | S | 4-03-22S-36E | D | 30-025-08759 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | HARRY LEONARD NCT D #013 | S | G-03-22S-36E | G | 30-025-08764 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | HARRY LEONARD NCT D #016 | S | O-03-22S-36E | O | 30-025-08767 | | | G |
| 331246 | J F JANDA NCT B #001 | S | J-32-21S-36E | J | 30-025-04873 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331247 | J F JANDA NCT D #002 | S | 14-02-21S-36E | F | 30-025-27523 | 29760 | HARDY; TUBB-DRINKARD | O |
| | J F JANDA NCT D #003 | P | L-02-21S-36E | T | 30-025-28446 | 23000 | EUNICE MONUMENT; GRAYBURG-SAN ANDRES | O |
| | J F JANDA NCT D #004 | S | 13-02-21S-36E | M | 30-025-28703 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | J F JANDA NCT D #005 | S | L-02-21S-36E | L | 30-025-29147 | 29760 | HARDY; TUBB-DRINKARD | G |
| 331248 | J F JANDA NCT D COM #001 | S | L-02-21S-36E | T | 30-025-04444 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331249 | J F JANDA NCT D COM CT #003 | S | C-11-21S-36E | C | 30-025-32419 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331250 | J F JANDA NCT F #011 | S | 2-04-22S-36E | B | 30-025-08778 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | G |
| | J F JANDA NCT F #013 | S | P-04-22S-36E | P | 30-025-08780 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | J F JANDA NCT F #014 | S | 1-04-22S-36E | A | 30-025-08781 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | J F JANDA NCT F #015 | S | I-04-22S-36E | I | 30-025-08782 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | J F JANDA NCT F #016 | S | H-04-22S-36E | H | 30-025-08783 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| 330852 | J L GREENWOOD #008 | P | K-09-22S-37E | K | 30-025-10129 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-10129 | 49210 | PADDOCK | |
| | J L GREENWOOD #009 | P | J-09-22S-37E | J | 30-025-10130 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-10130 | 60240 | TUBB OIL AND GAS (OIL) | |
| | J L GREENWOOD #011 | P | I-09-22S-37E | I | 30-025-10132 | 62700 | WANTZ; ABO | O |
| | J L GREENWOOD #012 | P | O-09-22S-37E | O | 30-025-10133 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | | | | | 30-025-10133 | 62700 | WANTZ; ABO | |
| | J L GREENWOOD #014 | P | L-09-22S-37E | L | 30-025-10135 | | | O |
| | J L GREENWOOD #016 | P | N-09-22S-37E | N | 30-025-30455 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| 331291 | J W SMITH #007 | P | H-34-19S-36E | H | 30-025-30923 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331251 | JOHN D KNOX #009 | P | A-10-21S-36E | A | 30-025-20166 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | JOHN D KNOX #010 | P | G-10-21S-36E | G | 30-025-20331 | 47960 | OIL CENTER; BLINEBRY | O |
| | JOHN D KNOX #011 | P | I-10-21S-36E | I | 30-025-20306 | | | O |
| | JOHN D KNOX #012 | P | O-10-21S-36E | O | 30-025-20706 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | JOHN D KNOX #013 | P | H-10-21S-36E | H | 30-025-26326 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | JOHN D KNOX #014 | P | J-10-21S-36E | J | 30-025-33778 | 47960 | OIL CENTER; BLINEBRY | I |
| 331252 | L W WHITE NCT A COM #002 | P | I-25-20S-36E | I | 30-025-04323 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331253 | MEREDITH COM #002 | S | P-19-21S-36E | P | 30-025-04715 | | | G |
| | MEREDITH COM #003 | P | I-19-21S-36E | I | 30-025-04716 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | MEREDITH COM #004 | S | A-19-21S-36E | A | 30-025-33694 | | | G |
| 331254 | MONSTATE #002 | S | I-13-19S-36E | I | 30-025-04000 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | MONSTATE #004 | S | N-13-19S-36E | N | 30-025-04002 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | MONSTATE #005 | S | H-13-19S-36E | H | 30-025-04003 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | MONSTATE #006 | S | J-13-19S-36E | J | 30-025-30063 | | | G |
| 330854 | MONUMENT 36 STATE #003 | S | H-36-18S-36E | H | 30-025-34533 | 28370 | GOODWIN; ABO | O |
| 331269 | N G PENROSE #001 | P | B-13-22S-37E | B | 30-025-10250 | 6660 | BLINEBRY OIL AND GAS (OIL) | G |
| | | | | | 30-025-10250 | 7900 | BRUNSON; DRINKARD-ABO, SOUTH | |
| | | | | | 30-025-10250 | 86440 | TUBB OIL & GAS (PRO GAS) | |
| 331255 | NEW MEXICO B STATE #002 | S | F-29-21S-36E | F | 30-025-04818 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| 331256 | NEW MEXICO C STATE NCT-2 #009 | S | B-19-20S-37E | B | 30-025-06178 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331257 | NEW MEXICO FO STATE #001 | S | O-10-21S-37E | O | 30-025-06462 | 96601 | HARE; SAN ANDRES, EAST | O |
| 330866 | NEW MEXICO G STATE #002 | S | P-26-21S-36E | P | 30-025-04779 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO G STATE #010 | S | L-26-21S-36E | L | 30-025-04785 | | | G |
| | NEW MEXICO G STATE #021 | S | C-23-21S-36E | C | 30-025-30555 | 22800 | EUMONT; YATES-7 RVRS-QUEEN (OIL) | O |
| 331258 | NEW MEXICO G STATE COM #003 | S | 4-19-19S-37E | M | 30-025-26441 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO G STATE COM #004 | S | I-24-19S-36E | I | 30-025-04048 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331259 | NEW MEXICO H STATE NCT-1 #024 | S | I-31-20S-37E | I | 30-025-06312 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331260 | NEW MEXICO H STATE NCT-2 #026 | S | C-20-20S-37E | C | 30-025-06198 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO H STATE NCT-2 #030 | S | B-20-20S-37E | B | 30-025-27719 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO H STATE NCT-2 #031 | S | L-20-20S-37E | L | 30-025-27720 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO H STATE NCT-2 #032 | S | H-20-20S-37E | H | 30-025-32558 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO H STATE NCT-2 #033 | S | N-20-20S-37E | N | 30-025-32690 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331261 | NEW MEXICO H STATE NCT-3 #025 | S | 1-19-20S-37E | D | 30-025-06179 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO H STATE NCT-3 #035 | S | 4-19-20S-37E | E | 30-025-32561 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |

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| 331262 | NEW MEXICO J STATE #002 | S | N-24-19S-36E | N | 30-025-04051 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | NEW MEXICO J STATE #003 | S | F-24-19S-36E | F | 30-025-04052 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330997 | NEW MEXICO S STATE #007 | S | N-02-22S-37E | N | 30-025-09956 | 72480 | BLINEBRY OIL & GAS (PRO GAS) | G |
| | NEW MEXICO S STATE #013 | S | 2-02-22S-37E | B | 30-025-09962 | 19190 | DRINKARD | G |
| | | | | | 30-025-09962 | 86440 | TUBB OIL & GAS (PRO GAS) | |
| | NEW MEXICO S STATE #014 | S | 3-02-22S-37E | C | 30-025-09963 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | NEW MEXICO S STATE #020 | S | E-02-22S-37E | E | 30-025-09969 | 86440 | TUBB OIL & GAS (PRO GAS) | G |
| | NEW MEXICO S STATE #023 | S | P-02-22S-37E | P | 30-025-12555 | 72480 | BLINEBRY OIL & GAS (PRO GAS) | G |
| | | | | | 30-025-12555 | 86440 | TUBB OIL & GAS (PRO GAS) | |
| | NEW MEXICO S STATE #024 | S | J-02-22S-37E | J | 30-025-20390 | 6660 | BLINEBRY OIL AND GAS (OIL) | G |
| | | | | | 30-025-20390 | 62700 | WANTZ; ABO | |
| | NEW MEXICO S STATE #025 | S | N-02-22S-37E | N | 30-025-20283 | | | O |
| | NEW MEXICO S STATE #029 | S | L-02-22S-37E | L | 30-025-25276 | 62700 | WANTZ; ABO | O |
| | NEW MEXICO S STATE #031 | S | H-02-22S-37E | H | 30-025-25281 | 72480 | BLINEBRY OIL & GAS (PRO GAS) | G |
| | NEW MEXICO S STATE #034 | S | O-02-22S-37E | O | 30-025-25330 | 6660 | BLINEBRY OIL AND GAS (OIL) | O |
| | NEW MEXICO S STATE #036 | S | 2-02-22S-37E | B | 30-025-25456 | 6660 | BLINEBRY OIL AND GAS (OIL) | G |
| | | | | | 30-025-25456 | 62700 | WANTZ; ABO | |
| | NEW MEXICO S STATE #038 | S | E-02-22S-37E | E | 30-025-25508 | 72480 | BLINEBRY OIL & GAS (PRO GAS) | G |
| | NEW MEXICO S STATE #040 | S | M-02-22S-37E | M | 30-025-25514 | 86440 | TUBB OIL & GAS (PRO GAS) | G |
| 331263 | NEW MEXICO V STATE #007 | S | N-10-21S-37E | N | 30-025-06469 | 50350 | PENROSE SKELLY; GRAYBURG | O |
| | NEW MEXICO V STATE #009 | S | K-10-21S-37E | K | 30-025-06471 | 96110 | SWD; GRAYBURG-SAN ANDRES | S |
| | NEW MEXICO V STATE #010 | S | M-10-21S-37E | M | 30-025-06472 | 78080 | HARE; SAN ANDRES (GAS) | G |
| 331285 | R R BELL NCT A COM #002 | S | P-08-21S-36E | P | 30-025-04564 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | R R BELL NCT A COM #003 | S | J-08-21S-36E | J | 30-025-31577 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331286 | R R BELL NCT F #002 | S | K-36-20S-36E | K | 30-025-04423 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331287 | R R BELL NCT G COM #001 | S | P-13-20S-36E | P | 30-025-04251 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331288 | R.R. BELL (NCT-F) #003 | S | F-36-20S-36E | F | 30-025-30990 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331274 | SAUNDERS K GAS COM #001 | S | O-18-19S-37E | O | 30-025-05633 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | SAUNDERS K GAS COM #002 | F | K-18-19S-37E | K | 30-025-32645 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | SAUNDERS K GAS COM #003 | S | I-18-19S-37E | I | 30-025-33392 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330999 | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #001 | S | M-04-22S-36E | M | 30-025-08775 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #002 | S | L-04-22S-36E | L | 30-025-08768 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #003 | S | F-04-22S-36E | F | 30-025-08769 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #004 | S | G-04-22S-36E | G | 30-025-08770 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #005 | S | E-04-22S-36E | E | 30-025-08771 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #008 | S | N-04-22S-36E | N | 30-025-08777 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #009 | S | O-04-22S-36E | O | 30-025-08779 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | O |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #010 | S | F-04-22S-36E | F | 30-025-28923 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | I |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #011 | S | G-04-22S-36E | G | 30-025-28924 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | I |
| | SEVEN RIVERS QUEEN WATERFLOOD, NORTH #013 | S | K-04-22S-36E | K | 30-025-28926 | 24130 | EUNICE; SEVEN RIVERS-QUEEN, SOUTH | I |
| 331294 | SKELLY F STATE COM #001 | S | P-17-20S-37E | P | 30-025-06149 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | SKELLY F STATE COM #002 | S | O-17-20S-37E | O | 30-025-06150 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | SKELLY F STATE COM #003 | S | I-17-20S-37E | I | 30-025-32992 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331275 | STATE H #003 | S | L-32-19S-37E | L | 30-025-30932 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | STATE H #004 | S | K-32-19S-37E | K | 30-025-32897 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331277 | STATE K COM #001 | S | K-13-20S-36E | K | 30-025-04260 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331278 | STATE T #002 | S | O-02-24S-36E | O | 30-025-32682 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | O |
| 330859 | TEAGUE 2 STATE #001 | S | 4-02-24S-37E | D | 30-025-33056 | 58300 | TEAGUE; PADDOCK-BLINEBRY | O |
| 331270 | W A RAMSAY NCT A #007 | S | N-35-21S-36E | N | 30-025-04918 | | | G |
| | W A RAMSAY NCT A #010 | S | K-35-21S-36E | K | 30-025-04915 | | | G |
| | W A RAMSAY NCT A #012 | S | M-35-21S-36E | M | 30-025-04913 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #013 | S | B-35-21S-36E | B | 30-025-04912 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #014 | S | F-34-21S-36E | F | 30-025-04898 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #017 | S | J-27-21S-36E | J | 30-025-08718 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #018 | S | C-35-21S-36E | C | 30-025-04925 | | | G |
| | W A RAMSAY NCT A #020 | S | E-35-21S-36E | E | 30-025-04927 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #024 | S | H-34-21S-36E | H | 30-025-04909 | | | G |
| | W A RAMSAY NCT A #028 | S | O-34-21S-36E | O | 30-025-04906 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #029 | S | P-27-21S-36E | P | 30-025-04797 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #035 | S | N-27-21S-36E | N | 30-025-08719 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #037 | S | H-27-21S-36E | H | 30-025-04795 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #038 | S | L-34-21S-36E | L | 30-025-04902 | | | O |
| | W A RAMSAY NCT A #040 | S | A-27-21S-36E | A | 30-025-04799 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #042 | S | B-27-21S-36E | B | 30-025-04804 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #043 | S | C-27-21S-36E | C | 30-025-04802 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | O |
| | W A RAMSAY NCT A #044 | S | D-27-21S-36E | D | 30-025-04801 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |

| | | | | | | | | |
|--------|---------------------------|---|---------------|---|--------------|-------|----------------------------------|---|
| | W A RAMSAY NCT A #046 | S | E-27-21S-36E | E | 30-025-04805 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #048 | S | D-34-21S-36E | D | 30-025-04900 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #051 | S | H-35-21S-36E | H | 30-025-25626 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT A #052 | P | P-35-21S-36E | P | 30-025-34242 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 331271 | W A RAMSAY NCT A COM #002 | S | I-33-21S-36E | I | 30-025-04894 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | W A RAMSAY NCT A COM #003 | S | 3-03-22S-36E | C | 30-025-08763 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| | W A RAMSAY NCT A COM #036 | S | N-34-21S-36E | N | 30-025-04899 | 79240 | JALMAT; TAN-YATES-7 RVRS (GAS) | G |
| 331272 | W A RAMSAY NCT B #001 | S | F-25-21S-36E | F | 30-025-04772 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | W A RAMSAY NCT B #007 | S | G-25-21S-36E | G | 30-025-25439 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| 330858 | WANTZ FEDERAL #002 | F | 15-01-21S-37E | O | 30-025-29597 | 62700 | WANTZ; ABO | O |
| | WANTZ FEDERAL #004 | F | I-01-21S-37E | Q | 30-025-29728 | 62700 | WANTZ; ABO | O |
| | WANTZ FEDERAL #005 | F | 16-01-21S-37E | P | 30-025-29715 | 62700 | WANTZ; ABO | O |
| 330857 | WILLIAM WEIR #001 | P | E-25-19S-36E | E | 30-025-04067 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |
| | WILLIAM WEIR #005 | P | P-23-19S-36E | P | 30-025-30818 | 76480 | EUMONT; YATES-7 RVRS-QUEEN (GAS) | G |

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 295778

COMMENTS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 295778 |
| | Action Type: [C-145] EP Change of Operator |

Comments

| Created By | Comment | Comment Date |
|------------|--|--------------|
| emathes | There are 19 non-compliant wells included in this transfer. These wells will need to be removed and the remaining compliant wells may be transferred together. The other non compliant wells will need to be transferred individually. There is \$642,806.00 Single Well Bonds or TA blanket bonding required for these non compliant wells. The bonding must be in place prior to the resubmittals of the remaining individual transfers for non-compliant wells. | 6/17/2021 |
| emathes | All non compliant wells must be removed API number 30-025-35419 Has not produced since: 02/17 A single well bond of \$32776 is required | 7/6/2021 |

15009 1207E
 SHUMENI U.S.A. INC.
 EUNICE MONUMENT SOUTH UNIT # 447

30-025-25149

Acoustic Cement Evaluation Log
 GAMMA RAY

Company: Shumeni U.S.A. Inc.
 Well: EUNICE MONUMENT SOUTH - 457
 Date: 08/21/2024

Well Name: EUNICE MONUMENT SOUTH UNIT # 447
 Well ID: 30-025-25149
 Well Type: OIL
 Well Status: ACTIVE

Operator: Shumeni U.S.A. Inc.
 Location: EUNICE MONUMENT SOUTH UNIT # 447
 Date of Operation: 08/21/2024

Well Depth: 4100 ft
 Cement Depth: 3950 ft
 Cement Type: G-100
 Cement Volume: 100 bbl

Wellhead: 100 ft
 Wellbore Diameter: 8.5 in
 Cement Annulus Width: 0.5 in

Well Completion: Open Hole
 Well Completion Date: 08/21/2024

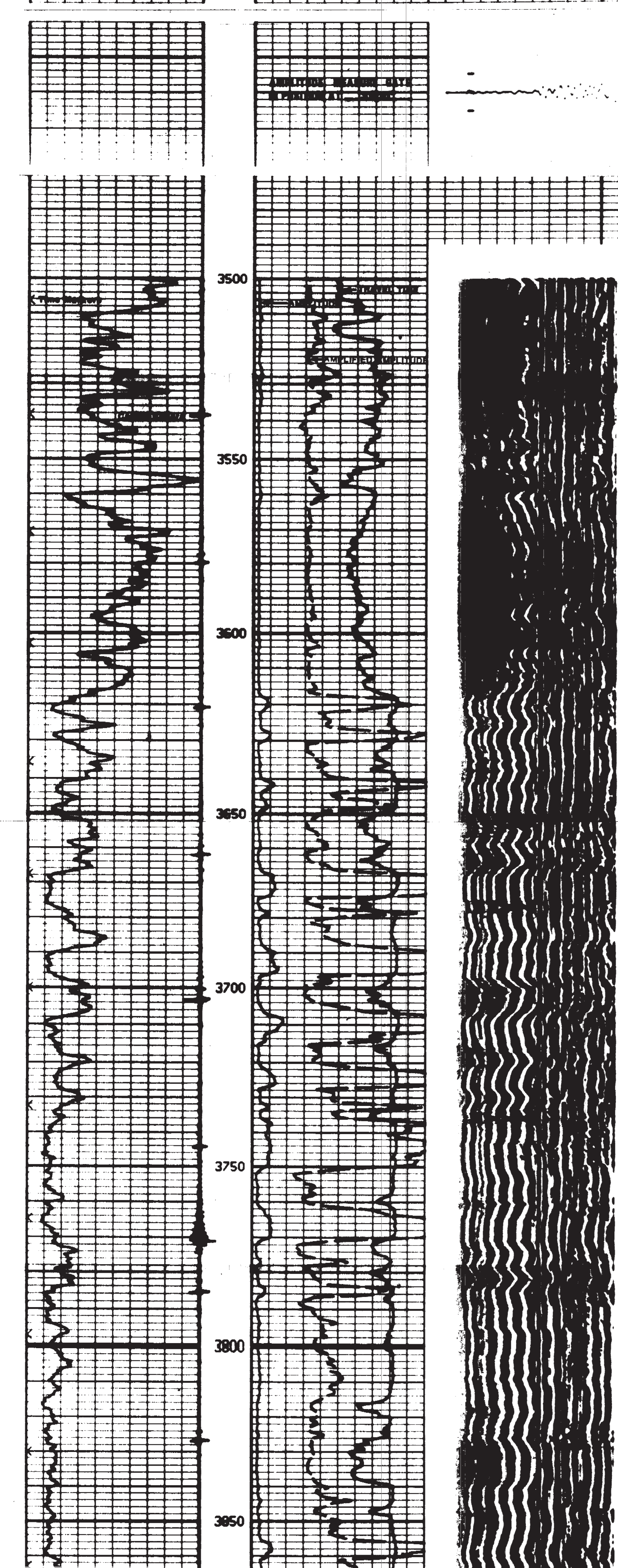
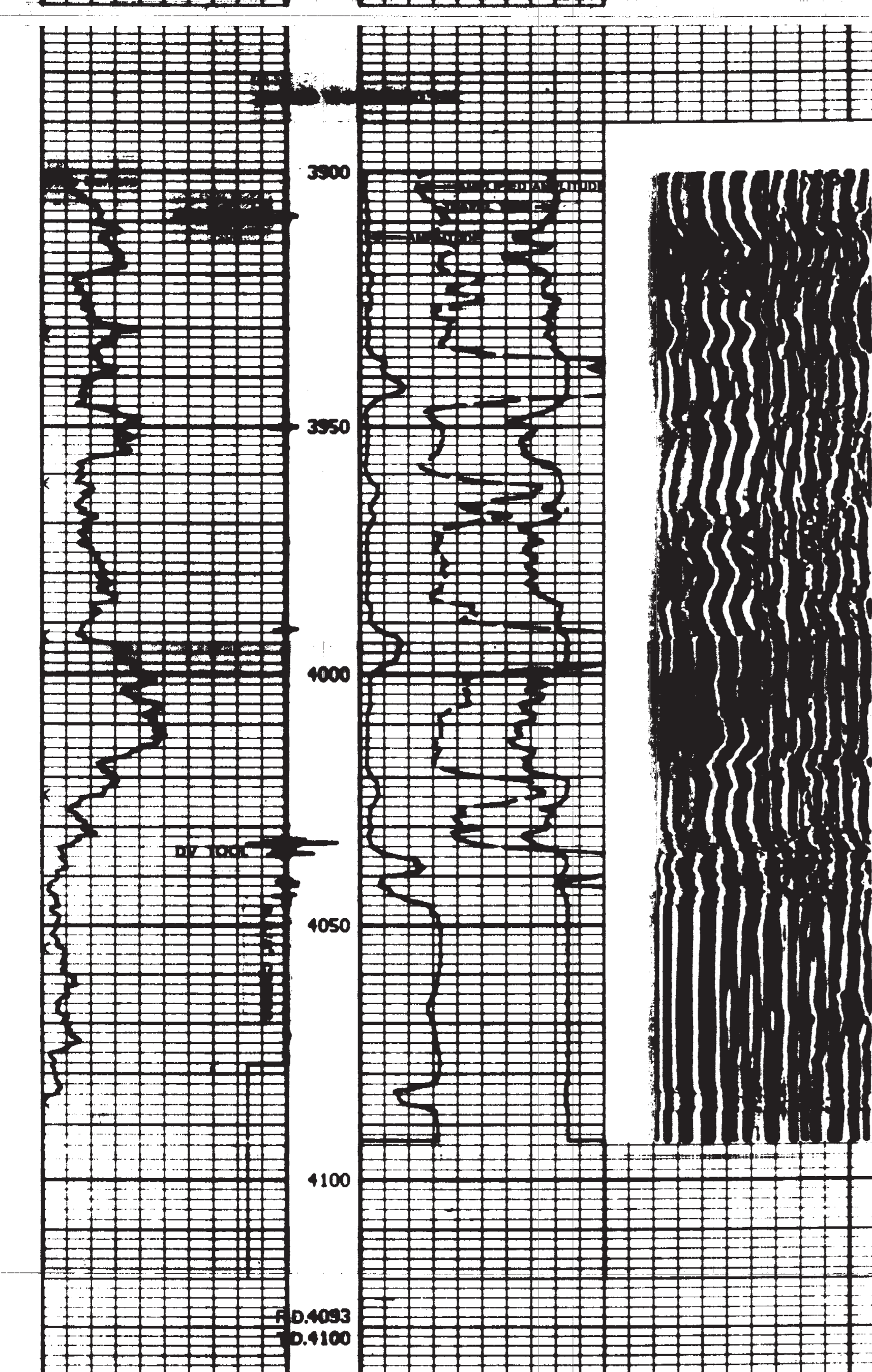
Well Completion Details: Open Hole, Cemented Annulus

Well Completion Diagram: [Diagram showing well completion details]

The test data, methods and form have been reviewed. This work furnished by the customer.

| PRIMARY CEMENTING PROCEDURE | | EQUIPMENT DATA | |
|-----------------------------------|--------------|-------------------|---------------|
| Hour - Date | 11:30 - 10-5 | Tool Type & No. | DC 2" 030-027 |
| Started Pumping Cement | 11:30 - 10-5 | Panel Type & No. | 1-P-012-013 |
| Released Pressure | 12:30 - 10-5 | Logging Speed | 30 FPH |
| Final ACE Log | 12:30 - 10-5 | Panel Size | 12 x 12 |
| Cement Pumped | 100 bbl | Panel Sensitivity | 250 (0-100%) |
| Pipe reciprocated during pumping | yes | Delay Setting | 300 sec |
| Pipe reciprocated after plug down | yes | Warm Setting | 50 sec |
| | | T-R Spacing | 6" |

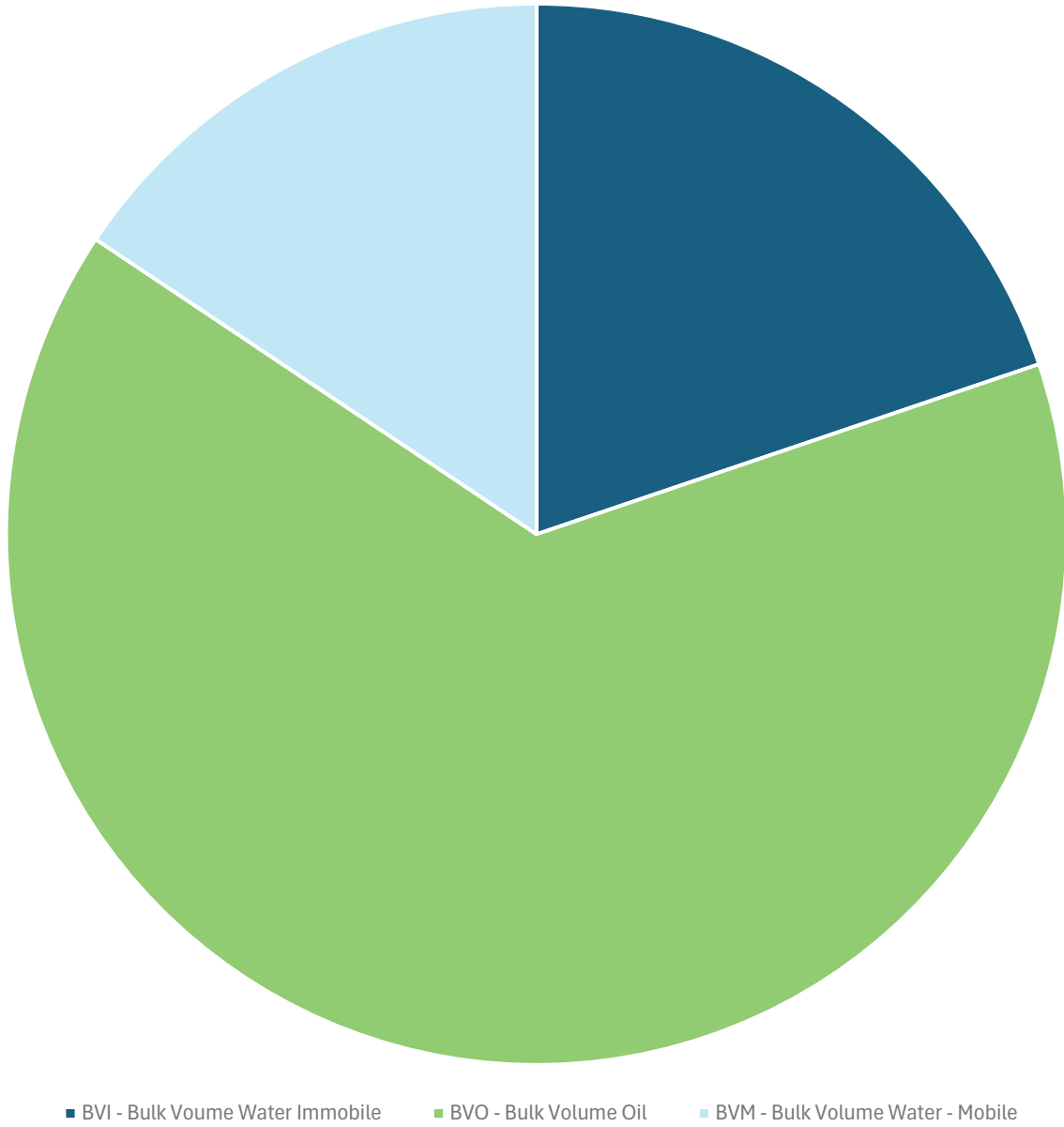
| CEMENTING DATA | | TOOL SKETCH | | GAMMA RAY | |
|------------------------|----------|------------------|---------|------------------|---------|
| SOCKET NO. | 1 | TOOL NO. | 001 | TOOL MODEL NO. | 001 |
| DATE | 10/5/24 | TOOL DIAMETER | 2.000 | TOOL LENGTH | 12.000 |
| TYPE OF CEMENT | G-100 | TOOL TYPE | DC | TOOL SOURCE | 071-023 |
| VOLUME OF CEMENT | 100 bbl | TOOL SETTING | 300 sec | TOOL STRENGTH | 100 |
| APPLICATOR | SHUMENI | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| PREVIOUS FLUID | Oil | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| BREAKDOWN PRESSURE | 1000 psi | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| MAX PRESSURE - STAGE 1 | 1000 psi | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| MAX PRESSURE - STAGE 2 | 1000 psi | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| MAX PRESSURE - STAGE 3 | 1000 psi | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| FINAL MIXING PRESSURE | 1000 psi | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| STARTED PUMPING CEMENT | 11:30 | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| RELEASED PRESSURE | 12:30 | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| START ACE LOG | 12:30 | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| FINISH ACE LOG | 12:30 | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |
| AVERAGE WELL DRAFFT | 0.000 | TOOL T-R SPACING | 6" | TOOL T-R SPACING | 6" |



| ~A | DEPTI PHIE | SW | BVW | BVI - Bulk Voume Water | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
|--------|------------|--------|--------|------------------------|--------|------------|------------|----------|----------|
| 4234 | 0.0204 | 0.5537 | 0.0113 | 0.0093 | 0.4463 | 0.009105 | 0.002 | 0.020405 | 0.00 |
| 4234.5 | 0.0196 | 0.5464 | 0.0107 | 0.0092 | 0.4536 | 0.008891 | 0.0015 | 0.019591 | (0.00) |
| 4235 | 0.02 | 0.4578 | 0.0092 | 0.0092 | 0.5422 | 0.010844 | 0 | 0.020044 | 0.00 |
| 4235.5 | 0.0272 | 0.3585 | 0.0097 | 0.0097 | 0.6415 | 0.017449 | 0 | 0.027149 | (0.00) |
| 4236 | 0.0383 | 0.2775 | 0.0106 | 0.0106 | 0.7225 | 0.027672 | 0 | 0.038272 | (0.00) |
| 4236.5 | 0.058 | 0.229 | 0.0133 | 0.0133 | 0.771 | 0.044718 | 0 | 0.058018 | 0.00 |
| 4237 | 0.0805 | 0.2643 | 0.0213 | 0.0213 | 0.7357 | 0.059224 | 0 | 0.080524 | 0.00 |
| 4237.5 | 0.0964 | 0.3287 | 0.0317 | 0.0268 | 0.6713 | 0.064713 | 0.0049 | 0.096413 | 0.00 |
| 4238 | 0.1231 | 0.3592 | 0.0442 | 0.0311 | 0.6408 | 0.078882 | 0.0131 | 0.123082 | (0.00) |
| 4238.5 | 0.158 | 0.3405 | 0.0538 | 0.0358 | 0.6595 | 0.104201 | 0.018 | 0.158001 | 0.00 |
| 4239 | 0.1857 | 0.303 | 0.0563 | 0.0382 | 0.697 | 0.129433 | 0.0181 | 0.185733 | 0.00 |
| 4239.5 | 0.1913 | 0.2926 | 0.056 | 0.0379 | 0.7074 | 0.135326 | 0.0181 | 0.191326 | 0.00 |
| 4240 | 0.1647 | 0.3312 | 0.0545 | 0.0335 | 0.6688 | 0.110151 | 0.021 | 0.164651 | (0.00) |
| 4240.5 | 0.1361 | 0.3884 | 0.0529 | 0.0289 | 0.6116 | 0.083239 | 0.024 | 0.136139 | 0.00 |
| 4241 | 0.1428 | 0.4049 | 0.0578 | 0.0301 | 0.5951 | 0.08498 | 0.0277 | 0.14278 | (0.00) |
| 4241.5 | 0.1789 | 0.3497 | 0.0626 | 0.0361 | 0.6503 | 0.116339 | 0.0265 | 0.178939 | 0.00 |
| 4242 | 0.208 | 0.3022 | 0.0629 | 0.0409 | 0.6978 | 0.145142 | 0.022 | 0.208042 | 0.00 |
| 4242.5 | 0.2315 | 0.261 | 0.0604 | 0.0448 | 0.739 | 0.171079 | 0.0156 | 0.231479 | (0.00) |
| 4243 | 0.217 | 0.2601 | 0.0564 | 0.0422 | 0.7399 | 0.160558 | 0.0142 | 0.216958 | (0.00) |
| 4243.5 | 0.1861 | 0.2873 | 0.0535 | 0.0366 | 0.7127 | 0.132633 | 0.0169 | 0.186133 | 0.00 |
| 4244 | 0.1598 | 0.3266 | 0.0522 | 0.0318 | 0.6734 | 0.107609 | 0.0204 | 0.159809 | 0.00 |
| 4244.5 | 0.1594 | 0.3286 | 0.0524 | 0.0316 | 0.6714 | 0.107021 | 0.0208 | 0.159421 | 0.00 |
| 4245 | 0.1821 | 0.2915 | 0.0531 | 0.0355 | 0.7085 | 0.129018 | 0.0176 | 0.182118 | 0.00 |
| 4245.5 | 0.1844 | 0.2835 | 0.0523 | 0.0364 | 0.7165 | 0.132123 | 0.0159 | 0.184423 | 0.00 |
| 4246 | 0.1732 | 0.2949 | 0.0511 | 0.0345 | 0.7051 | 0.122123 | 0.0166 | 0.173223 | 0.00 |
| 4246.5 | 0.1571 | 0.3184 | 0.05 | 0.0317 | 0.6816 | 0.107079 | 0.0183 | 0.157079 | (0.00) |
| 4247 | 0.149 | 0.33 | 0.0492 | 0.0301 | 0.67 | 0.09983 | 0.0191 | 0.14903 | 0.00 |
| 4247.5 | 0.1491 | 0.3279 | 0.0489 | 0.0299 | 0.6721 | 0.10021 | 0.019 | 0.14911 | 0.00 |
| 4248 | 0.1389 | 0.3612 | 0.0502 | 0.028 | 0.6388 | 0.088729 | 0.0222 | 0.138929 | 0.00 |
| 4248.5 | 0.1056 | 0.4932 | 0.0521 | 0.0223 | 0.5068 | 0.053518 | 0.0298 | 0.105618 | 0.00 |
| 4249 | 0.1054 | 0.5464 | 0.0576 | 0.0219 | 0.4536 | 0.047809 | 0.0357 | 0.105409 | 0.00 |
| 4249.5 | 0.1137 | 0.5592 | 0.0636 | 0.023 | 0.4408 | 0.050119 | 0.0406 | 0.113719 | 0.00 |
| 4250 | 0.1439 | 0.4862 | 0.07 | 0.0278 | 0.5138 | 0.073936 | 0.0422 | 0.143936 | 0.00 |
| 4250.5 | 0.1718 | 0.4081 | 0.0701 | 0.0324 | 0.5919 | 0.101688 | 0.0377 | 0.171788 | (0.00) |
| 4251 | 0.1775 | 0.3837 | 0.0681 | 0.0336 | 0.6163 | 0.109393 | 0.0345 | 0.177493 | (0.00) |
| 4251.5 | 0.177 | 0.359 | 0.0635 | 0.034 | 0.641 | 0.113457 | 0.0295 | 0.176957 | (0.00) |
| 4252 | 0.1682 | 0.3281 | 0.0552 | 0.0333 | 0.6719 | 0.113014 | 0.0219 | 0.168214 | 0.00 |
| 4252.5 | 0.1518 | 0.3073 | 0.0467 | 0.0313 | 0.6927 | 0.105152 | 0.0154 | 0.151852 | 0.00 |
| 4253 | 0.1306 | 0.2969 | 0.0388 | 0.0283 | 0.7031 | 0.091825 | 0.0105 | 0.130625 | 0.00 |
| 4253.5 | 0.1273 | 0.2768 | 0.0352 | 0.0281 | 0.7232 | 0.092063 | 0.0071 | 0.127263 | (0.00) |
| 4254 | 0.1325 | 0.2498 | 0.0331 | 0.03 | 0.7502 | 0.099402 | 0.0031 | 0.132502 | 0.00 |
| 4254.5 | 0.1271 | 0.2531 | 0.0322 | 0.0303 | 0.7469 | 0.094931 | 0.0019 | 0.127131 | 0.00 |
| 4255 | 0.121 | 0.2728 | 0.033 | 0.0301 | 0.7272 | 0.087991 | 0.0029 | 0.120991 | (0.00) |
| 4255.5 | 0.128 | 0.2861 | 0.0366 | 0.0303 | 0.7139 | 0.091379 | 0.0063 | 0.127979 | (0.00) |
| 4256 | 0.1512 | 0.2706 | 0.0409 | 0.0323 | 0.7294 | 0.110285 | 0.0086 | 0.151185 | (0.00) |
| 4256.5 | 0.1741 | 0.259 | 0.0451 | 0.0341 | 0.741 | 0.129008 | 0.011 | 0.174108 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume Water | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|----------|----------|----------|----------|------------|-------------|----------|------------|------------|----------|----------|
| | | | | | | | | | | Sum BV's | Phie-BVT |
| 4257 | 0.1787 | 0.2694 | 0.0481 | 0.0342 | | 0.7306 | 0.130558 | 0.0139 | 0.178658 | (0.00) | |
| 4257.5 | 0.1859 | 0.2924 | 0.0544 | 0.0349 | | 0.7076 | 0.131543 | 0.0195 | 0.185943 | 0.00 | |
| 4258 | 0.1997 | 0.2959 | 0.0591 | 0.0369 | | 0.7041 | 0.140609 | 0.0222 | 0.199709 | 0.00 | |
| 4258.5 | 0.2123 | 0.3076 | 0.0653 | 0.0387 | | 0.6924 | 0.146997 | 0.0266 | 0.212297 | (0.00) | |
| 4259 | 0.2213 | 0.3176 | 0.0703 | 0.0399 | | 0.6824 | 0.151015 | 0.0304 | 0.221315 | 0.00 | |
| 4259.5 | 0.2184 | 0.329 | 0.0718 | 0.039 | | 0.671 | 0.146546 | 0.0328 | 0.218346 | (0.00) | |
| 4260 | 0.2069 | 0.3548 | 0.0734 | 0.037 | | 0.6452 | 0.133492 | 0.0364 | 0.206892 | (0.00) | |
| 4260.5 | 0.1501 | 0.5082 | 0.0763 | 0.0281 | | 0.4918 | 0.073819 | 0.0482 | 0.150119 | 0.00 | |
| 4261 | 0.1497 | 0.5501 | 0.0824 | 0.028 | | 0.4499 | 0.06735 | 0.0544 | 0.14975 | 0.00 | |
| 4261.5 | 0.1517 | 0.5949 | 0.0902 | 0.028 | | 0.4051 | 0.061454 | 0.0622 | 0.151654 | (0.00) | |
| 4262 | 0.1812 | 0.5215 | 0.0945 | 0.0325 | | 0.4785 | 0.086704 | 0.062 | 0.181204 | 0.00 | |
| 4262.5 | 0.189 | 0.4825 | 0.0912 | 0.0339 | | 0.5175 | 0.097808 | 0.0573 | 0.189008 | 0.00 | |
| 4263 | 0.1865 | 0.4203 | 0.0784 | 0.0341 | | 0.5797 | 0.108114 | 0.0443 | 0.186514 | 0.00 | |
| 4263.5 | 0.1645 | 0.4018 | 0.0661 | 0.0313 | | 0.5982 | 0.098404 | 0.0348 | 0.164504 | 0.00 | |
| 4264 | 0.1436 | 0.3947 | 0.0567 | 0.0283 | | 0.6053 | 0.086921 | 0.0284 | 0.143621 | 0.00 | |
| 4264.5 | 0.1448 | 0.3839 | 0.0556 | 0.0286 | | 0.6161 | 0.089211 | 0.027 | 0.144811 | 0.00 | |
| 4265 | 0.1706 | 0.3559 | 0.0607 | 0.0327 | | 0.6441 | 0.109883 | 0.028 | 0.170583 | (0.00) | |
| 4265.5 | 0.2098 | 0.3071 | 0.0644 | 0.0386 | | 0.6929 | 0.14537 | 0.0258 | 0.20977 | (0.00) | |
| 4266 | 0.2344 | 0.2746 | 0.0644 | 0.0419 | | 0.7254 | 0.170034 | 0.0225 | 0.234434 | 0.00 | |
| 4266.5 | 0.2347 | 0.2622 | 0.0615 | 0.0415 | | 0.7378 | 0.173162 | 0.02 | 0.234662 | (0.00) | |
| 4267 | 0.2253 | 0.2484 | 0.056 | 0.0402 | | 0.7516 | 0.169335 | 0.0158 | 0.225335 | 0.00 | |
| 4267.5 | 0.2165 | 0.2371 | 0.0513 | 0.0393 | | 0.7629 | 0.165168 | 0.012 | 0.216468 | (0.00) | |
| 4268 | 0.2035 | 0.2364 | 0.0481 | 0.0384 | | 0.7636 | 0.155393 | 0.0097 | 0.203493 | (0.00) | |
| 4268.5 | 0.1881 | 0.2485 | 0.0467 | 0.0369 | | 0.7515 | 0.141357 | 0.0098 | 0.188057 | (0.00) | |
| 4269 | 0.1763 | 0.2781 | 0.049 | 0.0355 | | 0.7219 | 0.127271 | 0.0135 | 0.176271 | (0.00) | |
| 4269.5 | 0.1634 | 0.3624 | 0.0592 | 0.0329 | | 0.6376 | 0.104184 | 0.0263 | 0.163384 | (0.00) | |
| 4270 | 0.1514 | 0.4528 | 0.0685 | 0.0297 | | 0.5472 | 0.082846 | 0.0388 | 0.151346 | (0.00) | |
| 4270.5 | 0.1546 | 0.4903 | 0.0758 | 0.0294 | | 0.5097 | 0.0788 | 0.0464 | 0.1546 | (0.00) | |
| 4271 | 0.1746 | 0.4512 | 0.0788 | 0.0324 | | 0.5488 | 0.09582 | 0.0464 | 0.17462 | 0.00 | |
| 4271.5 | 0.1751 | 0.4209 | 0.0737 | 0.0326 | | 0.5791 | 0.1014 | 0.0411 | 0.1751 | 0.00 | |
| 4272 | 0.1683 | 0.3933 | 0.0662 | 0.0315 | | 0.6067 | 0.102108 | 0.0347 | 0.168308 | 0.00 | |
| 4272.5 | 0.1677 | 0.38 | 0.0637 | 0.0315 | | 0.62 | 0.103974 | 0.0322 | 0.167674 | (0.00) | |
| 4273 | 0.1746 | 0.3775 | 0.0659 | 0.033 | | 0.6225 | 0.108689 | 0.0329 | 0.174589 | (0.00) | |
| 4273.5 | 0.1807 | 0.4131 | 0.0746 | 0.0348 | | 0.5869 | 0.106053 | 0.0398 | 0.180653 | (0.00) | |
| 4274 | 0.1825 | 0.4667 | 0.0852 | 0.0358 | | 0.5333 | 0.097327 | 0.0494 | 0.182527 | 0.00 | |
| 4274.5 | 0.1916 | 0.4906 | 0.094 | 0.0373 | | 0.5094 | 0.097601 | 0.0567 | 0.191601 | 0.00 | |
| 4275 | 0.2068 | 0.4794 | 0.0992 | 0.0386 | | 0.5206 | 0.10766 | 0.0606 | 0.20686 | 0.00 | |
| 4275.5 | 0.2055 | 0.4592 | 0.0944 | 0.0374 | | 0.5408 | 0.111134 | 0.057 | 0.205534 | 0.00 | |
| 4276 | 0.1843 | 0.4382 | 0.0807 | 0.0339 | | 0.5618 | 0.10354 | 0.0468 | 0.18424 | (0.00) | |
| | 0.159622 | 0.361687 | 0.056542 | 0.031615 | | 0.638313 | 0.103082 | 0.024927 | | | |

EMSU 628 Empire Log Analysis 4238 - 4276 ft.



| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 4060 | 0.0777 | 0.4443 | 0.0345 | 0.0182 | | | | 0.5557 | 0.043178 | 0.0163 | 0.077678 | (0.00) |
| 4060.5 | 0.0683 | 0.4834 | 0.033 | 0.0165 | | | | 0.5166 | 0.035284 | 0.0165 | 0.068284 | (0.00) |
| 4061 | 0.0648 | 0.49 | 0.0318 | 0.0158 | | | | 0.51 | 0.033048 | 0.016 | 0.064848 | 0.00 |
| 4061.5 | 0.0673 | 0.4462 | 0.03 | 0.0162 | | | | 0.5538 | 0.037271 | 0.0138 | 0.067271 | (0.00) |
| 4062 | 0.0681 | 0.4253 | 0.0289 | 0.0162 | | | | 0.5747 | 0.039137 | 0.0127 | 0.068037 | (0.00) |
| 4062.5 | 0.0658 | 0.4394 | 0.0289 | 0.0158 | | | | 0.5606 | 0.036887 | 0.0131 | 0.065787 | (0.00) |
| 4063 | 0.0615 | 0.4623 | 0.0284 | 0.0153 | | | | 0.5377 | 0.033069 | 0.0131 | 0.061469 | (0.00) |
| 4063.5 | 0.0527 | 0.5172 | 0.0273 | 0.014 | | | | 0.4828 | 0.025444 | 0.0133 | 0.052744 | 0.00 |
| 4064 | 0.0423 | 0.6196 | 0.0262 | 0.0123 | | | | 0.3804 | 0.016091 | 0.0139 | 0.042291 | (0.00) |
| 4064.5 | 0.0367 | 0.6873 | 0.0252 | 0.0115 | | | | 0.3127 | 0.011476 | 0.0137 | 0.036676 | (0.00) |
| 4065 | 0.0365 | 0.6388 | 0.0233 | 0.0118 | | | | 0.3612 | 0.013184 | 0.0115 | 0.036484 | (0.00) |
| 4065.5 | 0.0355 | 0.5997 | 0.0213 | 0.012 | | | | 0.4003 | 0.014211 | 0.0093 | 0.035511 | 0.00 |
| 4066 | 0.0343 | 0.5867 | 0.0201 | 0.0121 | | | | 0.4133 | 0.014176 | 0.008 | 0.034276 | (0.00) |
| 4066.5 | 0.0315 | 0.6129 | 0.0193 | 0.0116 | | | | 0.3871 | 0.012194 | 0.0077 | 0.031494 | (0.00) |
| 4067 | 0.0273 | 0.6854 | 0.0187 | 0.0107 | | | | 0.3146 | 0.008589 | 0.008 | 0.027289 | (0.00) |
| 4067.5 | 0.023 | 0.7866 | 0.0181 | 0.0098 | | | | 0.2134 | 0.004908 | 0.0083 | 0.023008 | 0.00 |
| 4068 | 0.0235 | 0.7959 | 0.0187 | 0.0098 | | | | 0.2041 | 0.004796 | 0.0089 | 0.023496 | (0.00) |
| 4068.5 | 0.0272 | 0.6919 | 0.0188 | 0.0106 | | | | 0.3081 | 0.00838 | 0.0082 | 0.02718 | (0.00) |
| 4069 | 0.0319 | 0.6091 | 0.0195 | 0.0116 | | | | 0.3909 | 0.01247 | 0.0079 | 0.03197 | 0.00 |
| 4069.5 | 0.0397 | 0.5663 | 0.0225 | 0.0127 | | | | 0.4337 | 0.017218 | 0.0098 | 0.039718 | 0.00 |
| 4070 | 0.0455 | 0.5653 | 0.0257 | 0.0131 | | | | 0.4347 | 0.019779 | 0.0126 | 0.045479 | (0.00) |
| 4070.5 | 0.0509 | 0.5403 | 0.0275 | 0.0136 | | | | 0.4597 | 0.023399 | 0.0139 | 0.050899 | (0.00) |
| 4071 | 0.0591 | 0.4689 | 0.0277 | 0.015 | | | | 0.5311 | 0.031388 | 0.0127 | 0.059088 | (0.00) |
| 4071.5 | 0.0639 | 0.43 | 0.0275 | 0.016 | | | | 0.57 | 0.036423 | 0.0115 | 0.063923 | 0.00 |
| 4072 | 0.0668 | 0.4105 | 0.0274 | 0.0166 | | | | 0.5895 | 0.039379 | 0.0108 | 0.066779 | (0.00) |
| 4072.5 | 0.0661 | 0.4047 | 0.0267 | 0.0167 | | | | 0.5953 | 0.039349 | 0.01 | 0.066049 | (0.00) |
| 4073 | 0.0713 | 0.3807 | 0.0271 | 0.018 | | | | 0.6193 | 0.044156 | 0.0091 | 0.071256 | (0.00) |
| 4073.5 | 0.0835 | 0.3794 | 0.0317 | 0.0202 | | | | 0.6206 | 0.05182 | 0.0115 | 0.08352 | 0.00 |
| 4074 | 0.0986 | 0.3687 | 0.0363 | 0.0224 | | | | 0.6313 | 0.062246 | 0.0139 | 0.098546 | (0.00) |
| 4074.5 | 0.1095 | 0.3626 | 0.0397 | 0.0237 | | | | 0.6374 | 0.069795 | 0.016 | 0.109495 | (0.00) |
| 4075 | 0.1142 | 0.3543 | 0.0405 | 0.0243 | | | | 0.6457 | 0.073739 | 0.0162 | 0.114239 | 0.00 |
| 4075.5 | 0.1136 | 0.3414 | 0.0388 | 0.0241 | | | | 0.6586 | 0.074817 | 0.0147 | 0.113617 | 0.00 |
| 4076 | 0.1089 | 0.3303 | 0.036 | 0.0235 | | | | 0.6697 | 0.07293 | 0.0125 | 0.10893 | 0.00 |
| 4076.5 | 0.1053 | 0.3254 | 0.0343 | 0.0227 | | | | 0.6746 | 0.071035 | 0.0116 | 0.105335 | 0.00 |
| 4077 | 0.1053 | 0.3242 | 0.0341 | 0.0223 | | | | 0.6758 | 0.071162 | 0.0118 | 0.105262 | (0.00) |
| 4077.5 | 0.109 | 0.3172 | 0.0346 | 0.0229 | | | | 0.6828 | 0.074425 | 0.0117 | 0.109025 | 0.00 |
| 4078 | 0.1137 | 0.3006 | 0.0342 | 0.0239 | | | | 0.6994 | 0.079522 | 0.0103 | 0.113722 | 0.00 |
| 4078.5 | 0.1104 | 0.2918 | 0.0322 | 0.0238 | | | | 0.7082 | 0.078185 | 0.0084 | 0.110385 | (0.00) |
| 4079 | 0.097 | 0.2963 | 0.0287 | 0.0218 | | | | 0.7037 | 0.068259 | 0.0069 | 0.096959 | (0.00) |
| 4079.5 | 0.0878 | 0.3129 | 0.0275 | 0.0206 | | | | 0.6871 | 0.060327 | 0.0069 | 0.087827 | 0.00 |
| 4080 | 0.0921 | 0.2965 | 0.0273 | 0.0216 | | | | 0.7035 | 0.064792 | 0.0057 | 0.092092 | (0.00) |
| 4080.5 | 0.1025 | 0.2723 | 0.0279 | 0.0232 | | | | 0.7277 | 0.074589 | 0.0047 | 0.102489 | (0.00) |
| 4081 | 0.1085 | 0.2599 | 0.0282 | 0.0241 | | | | 0.7401 | 0.080301 | 0.0041 | 0.108501 | 0.00 |
| 4081.5 | 0.1023 | 0.2675 | 0.0274 | 0.0236 | | | | 0.7325 | 0.074935 | 0.0038 | 0.102335 | 0.00 |
| 4082 | 0.0904 | 0.2792 | 0.0253 | 0.0229 | | | | 0.7208 | 0.06516 | 0.0024 | 0.09046 | 0.00 |
| 4082.5 | 0.0883 | 0.2672 | 0.0236 | 0.0236 | | | | 0.7328 | 0.064706 | 0 | 0.088306 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4083 | 0.1032 | 0.2506 | 0.0259 | 0.0259 | | | | 0.7494 | 0.077338 | 0 | 0.103238 | 0.00 |
| 4083.5 | 0.1293 | 0.2728 | 0.0353 | 0.0319 | | | | 0.7272 | 0.094027 | 0.0034 | 0.129327 | 0.00 |
| 4084 | 0.1539 | 0.2951 | 0.0454 | 0.0354 | | | | 0.7049 | 0.108484 | 0.01 | 0.153884 | (0.00) |
| 4084.5 | 0.1732 | 0.3039 | 0.0526 | 0.0391 | | | | 0.6961 | 0.120565 | 0.0135 | 0.173165 | (0.00) |
| 4085 | 0.1834 | 0.3009 | 0.0552 | 0.0419 | | | | 0.6991 | 0.128215 | 0.0133 | 0.183415 | 0.00 |
| 4085.5 | 0.1806 | 0.2901 | 0.0524 | 0.0421 | | | | 0.7099 | 0.128208 | 0.0103 | 0.180608 | 0.00 |
| 4086 | 0.1722 | 0.2716 | 0.0468 | 0.0391 | | | | 0.7284 | 0.12543 | 0.0077 | 0.17223 | 0.00 |
| 4086.5 | 0.1675 | 0.2443 | 0.0409 | 0.0362 | | | | 0.7557 | 0.12658 | 0.0047 | 0.16748 | (0.00) |
| 4087 | 0.1656 | 0.2174 | 0.036 | 0.0349 | | | | 0.7826 | 0.129599 | 0.0011 | 0.165599 | (0.00) |
| 4087.5 | 0.1601 | 0.2069 | 0.0331 | 0.0331 | | | | 0.7931 | 0.126975 | 0 | 0.160075 | (0.00) |
| 4088 | 0.1546 | 0.2066 | 0.0319 | 0.0319 | | | | 0.7934 | 0.12266 | 0 | 0.15456 | (0.00) |
| 4088.5 | 0.1494 | 0.2041 | 0.0305 | 0.0305 | | | | 0.7959 | 0.118907 | 0 | 0.149407 | 0.00 |
| 4089 | 0.1479 | 0.197 | 0.0291 | 0.0291 | | | | 0.803 | 0.118764 | 0 | 0.147864 | (0.00) |
| 4089.5 | 0.15 | 0.1895 | 0.0284 | 0.0284 | | | | 0.8105 | 0.121575 | 0 | 0.149975 | (0.00) |
| 4090 | 0.1535 | 0.1861 | 0.0286 | 0.0286 | | | | 0.8139 | 0.124934 | 0 | 0.153534 | 0.00 |
| 4090.5 | 0.1477 | 0.1912 | 0.0282 | 0.0282 | | | | 0.8088 | 0.11946 | 0 | 0.14766 | (0.00) |
| 4091 | 0.1303 | 0.2131 | 0.0278 | 0.0278 | | | | 0.7869 | 0.102533 | 0 | 0.130333 | 0.00 |
| 4091.5 | 0.1083 | 0.2478 | 0.0268 | 0.0253 | | | | 0.7522 | 0.081463 | 0.0015 | 0.108263 | (0.00) |
| 4092 | 0.0921 | 0.2878 | 0.0265 | 0.0222 | | | | 0.7122 | 0.065594 | 0.0043 | 0.092094 | (0.00) |
| 4092.5 | 0.0858 | 0.3205 | 0.0275 | 0.0205 | | | | 0.6795 | 0.058301 | 0.007 | 0.085801 | 0.00 |
| 4093 | 0.0878 | 0.3414 | 0.03 | 0.0206 | | | | 0.6586 | 0.057825 | 0.0094 | 0.087825 | 0.00 |
| 4093.5 | 0.0907 | 0.3466 | 0.0314 | 0.0212 | | | | 0.6534 | 0.059263 | 0.0102 | 0.090663 | (0.00) |
| 4094 | 0.0899 | 0.3554 | 0.032 | 0.0212 | | | | 0.6446 | 0.05795 | 0.0108 | 0.08995 | 0.00 |
| 4094.5 | 0.0875 | 0.3605 | 0.0316 | 0.021 | | | | 0.6395 | 0.055956 | 0.0106 | 0.087556 | 0.00 |
| 4095 | 0.0827 | 0.3655 | 0.0302 | 0.0205 | | | | 0.6345 | 0.052473 | 0.0097 | 0.082673 | (0.00) |
| 4095.5 | 0.0806 | 0.3557 | 0.0287 | 0.0209 | | | | 0.6443 | 0.051931 | 0.0078 | 0.080631 | 0.00 |
| 4096 | 0.0827 | 0.3336 | 0.0276 | 0.0221 | | | | 0.6664 | 0.055111 | 0.0055 | 0.082711 | 0.00 |
| 4096.5 | 0.089 | 0.2989 | 0.0266 | 0.0245 | | | | 0.7011 | 0.062398 | 0.0021 | 0.088998 | (0.00) |
| 4097 | 0.0908 | 0.274 | 0.0249 | 0.0249 | | | | 0.726 | 0.065921 | 0 | 0.090821 | 0.00 |
| 4097.5 | 0.0805 | 0.2792 | 0.0225 | 0.0225 | | | | 0.7208 | 0.058024 | 0 | 0.080524 | 0.00 |
| 4098 | 0.0631 | 0.3044 | 0.0192 | 0.0192 | | | | 0.6956 | 0.043892 | 0 | 0.063092 | (0.00) |
| 4098.5 | 0.0543 | 0.3141 | 0.017 | 0.017 | | | | 0.6859 | 0.037244 | 0 | 0.054244 | (0.00) |
| 4099 | 0.0519 | 0.3202 | 0.0166 | 0.0166 | | | | 0.6798 | 0.035282 | 0 | 0.051882 | (0.00) |
| 4099.5 | 0.0477 | 0.3317 | 0.0158 | 0.0158 | | | | 0.6683 | 0.031878 | 0 | 0.047678 | (0.00) |
| 4100 | 0.0439 | 0.3581 | 0.0157 | 0.0157 | | | | 0.6419 | 0.028179 | 0 | 0.043879 | (0.00) |
| 4100.5 | 0.0399 | 0.3946 | 0.0157 | 0.0157 | | | | 0.6054 | 0.024155 | 0 | 0.039855 | (0.00) |
| 4101 | 0.0314 | 0.4591 | 0.0144 | 0.0133 | | | | 0.5409 | 0.016984 | 0.0011 | 0.031384 | (0.00) |
| 4101.5 | 0.021 | 0.4894 | 0.0103 | 0.0103 | | | | 0.5106 | 0.010723 | 0 | 0.021023 | 0.00 |
| 4102 | 0.0152 | 0.46 | 0.007 | 0.007 | | | | 0.54 | 0.008208 | 0 | 0.015208 | 0.00 |
| 4102.5 | 0.0145 | 0.4526 | 0.0066 | 0.0066 | | | | 0.5474 | 0.007937 | 0 | 0.014537 | 0.00 |
| 4103 | 0.0139 | 0.492 | 0.0068 | 0.0068 | | | | 0.508 | 0.007061 | 0 | 0.013861 | (0.00) |
| 4103.5 | 0.0132 | 0.5125 | 0.0068 | 0.0068 | | | | 0.4875 | 0.006435 | 0 | 0.013235 | 0.00 |
| 4104 | 0.0124 | 0.4373 | 0.0054 | 0.0054 | | | | 0.5627 | 0.006977 | 0 | 0.012377 | (0.00) |
| 4104.5 | 0.0128 | 0.3696 | 0.0047 | 0.0047 | | | | 0.6304 | 0.008069 | 0 | 0.012769 | (0.00) |
| 4105 | 0.0243 | 0.3489 | 0.0085 | 0.0085 | | | | 0.6511 | 0.015822 | 0 | 0.024322 | 0.00 |
| 4105.5 | 0.0324 | 0.3372 | 0.0109 | 0.0109 | | | | 0.6628 | 0.021475 | 0 | 0.032375 | (0.00) |

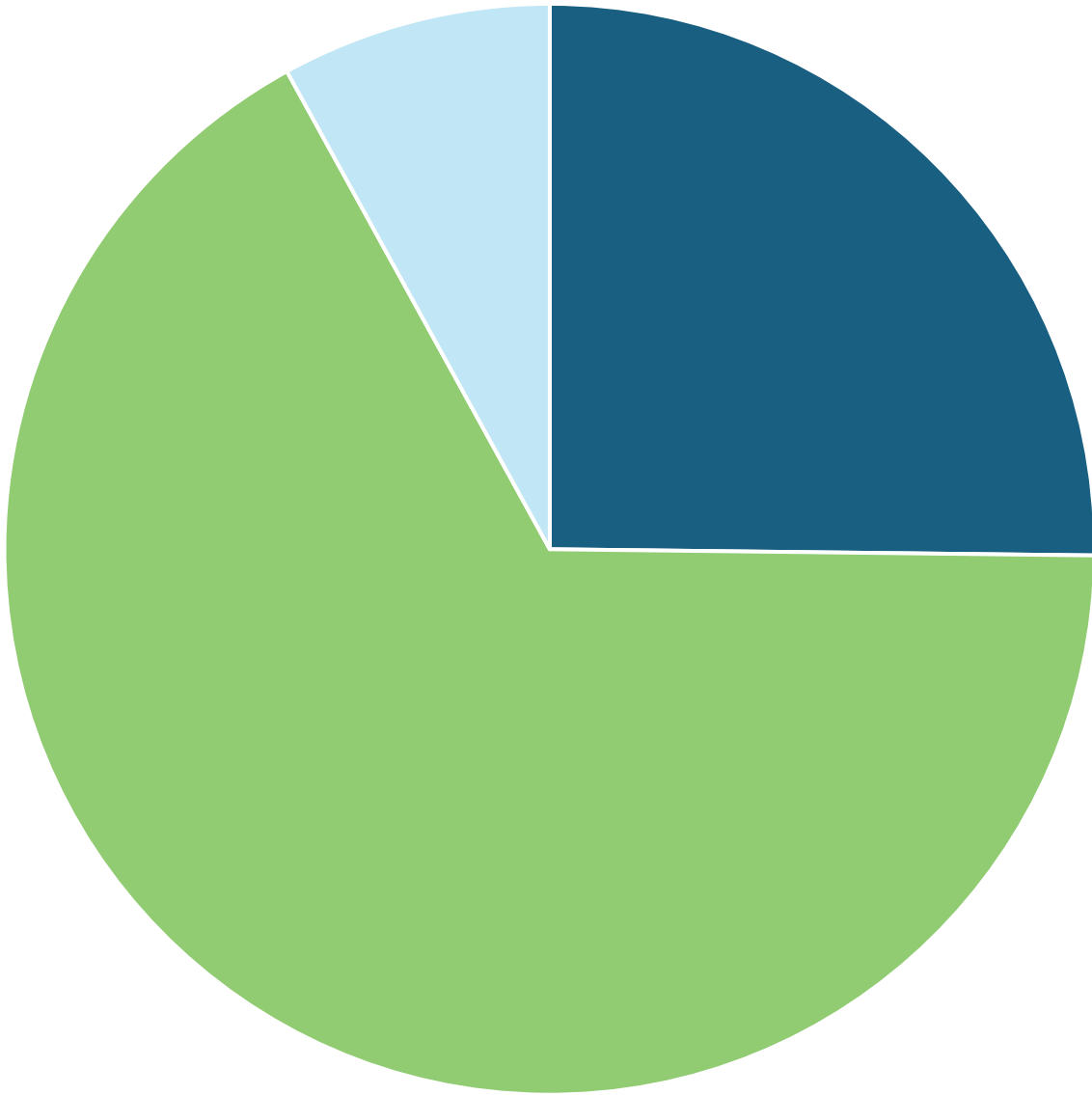
| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4106 | 0.0262 | 0.3444 | 0.009 | 0.009 | | | | 0.6556 | 0.017177 | 0 | 0.026177 | (0.00) |
| 4106.5 | 0.0153 | 0.379 | 0.0058 | 0.0058 | | | | 0.621 | 0.009501 | 0 | 0.015301 | 0.00 |
| 4107 | 0.0193 | 0.4817 | 0.0093 | 0.0093 | | | | 0.5183 | 0.010003 | 0 | 0.019303 | 0.00 |
| 4107.5 | 0.03 | 0.5079 | 0.0153 | 0.0124 | | | | 0.4921 | 0.014763 | 0.0029 | 0.030063 | 0.00 |
| 4108 | 0.0426 | 0.4259 | 0.0181 | 0.015 | | | | 0.5741 | 0.024457 | 0.0031 | 0.042557 | (0.00) |
| 4108.5 | 0.0518 | 0.3464 | 0.0179 | 0.0179 | | | | 0.6536 | 0.033856 | 0 | 0.051756 | (0.00) |
| 4109 | 0.0586 | 0.2998 | 0.0176 | 0.0176 | | | | 0.7002 | 0.041032 | 0 | 0.058632 | 0.00 |
| 4109.5 | 0.0628 | 0.293 | 0.0184 | 0.0184 | | | | 0.707 | 0.0444 | 0 | 0.0628 | (0.00) |
| 4110 | 0.0662 | 0.3082 | 0.0204 | 0.0204 | | | | 0.6918 | 0.045797 | 0 | 0.066197 | (0.00) |
| 4110.5 | 0.0724 | 0.3211 | 0.0232 | 0.0232 | | | | 0.6789 | 0.049152 | 0 | 0.072352 | (0.00) |
| 4111 | 0.0818 | 0.3266 | 0.0267 | 0.0252 | | | | 0.6734 | 0.055084 | 0.0015 | 0.081784 | (0.00) |
| 4111.5 | 0.0895 | 0.3237 | 0.029 | 0.0267 | | | | 0.6763 | 0.060529 | 0.0023 | 0.089529 | 0.00 |
| 4112 | 0.0906 | 0.3169 | 0.0287 | 0.0287 | | | | 0.6831 | 0.061889 | 0 | 0.090589 | (0.00) |
| 4112.5 | 0.0873 | 0.3106 | 0.0271 | 0.0271 | | | | 0.6894 | 0.060185 | 0 | 0.087285 | (0.00) |
| 4113 | 0.0906 | 0.3029 | 0.0274 | 0.0274 | | | | 0.6971 | 0.063157 | 0 | 0.090557 | (0.00) |
| 4113.5 | 0.082 | 0.2806 | 0.023 | 0.023 | | | | 0.7194 | 0.058991 | 0 | 0.081991 | (0.00) |
| 4114 | 0.0691 | 0.2565 | 0.0177 | 0.0177 | | | | 0.7435 | 0.051376 | 0 | 0.069076 | (0.00) |
| 4114.5 | 0.0585 | 0.2657 | 0.0155 | 0.0155 | | | | 0.7343 | 0.042957 | 0 | 0.058457 | (0.00) |
| 4115 | 0.0516 | 0.2967 | 0.0153 | 0.0153 | | | | 0.7033 | 0.03629 | 0 | 0.05159 | (0.00) |
| 4115.5 | 0.046 | 0.3476 | 0.016 | 0.016 | | | | 0.6524 | 0.03001 | 0 | 0.04601 | 0.00 |
| 4116 | 0.0397 | 0.4057 | 0.0161 | 0.0153 | | | | 0.5943 | 0.023594 | 0.0008 | 0.039694 | (0.00) |
| 4116.5 | 0.0335 | 0.4727 | 0.0158 | 0.0133 | | | | 0.5273 | 0.017665 | 0.0025 | 0.033465 | (0.00) |
| 4117 | 0.0348 | 0.5368 | 0.0187 | 0.0126 | | | | 0.4632 | 0.016119 | 0.0061 | 0.034819 | 0.00 |
| 4117.5 | 0.0418 | 0.5289 | 0.0221 | 0.0132 | | | | 0.4711 | 0.019692 | 0.0089 | 0.041792 | (0.00) |
| 4118 | 0.0519 | 0.4525 | 0.0235 | 0.0151 | | | | 0.5475 | 0.028415 | 0.0084 | 0.051915 | 0.00 |
| 4118.5 | 0.0553 | 0.3991 | 0.0221 | 0.0165 | | | | 0.6009 | 0.03323 | 0.0056 | 0.05533 | 0.00 |
| 4119 | 0.0532 | 0.3665 | 0.0195 | 0.0174 | | | | 0.6335 | 0.033702 | 0.0021 | 0.053202 | 0.00 |
| 4119.5 | 0.0517 | 0.3561 | 0.0184 | 0.0178 | | | | 0.6439 | 0.03329 | 0.0006 | 0.05169 | (0.00) |
| 4120 | 0.0534 | 0.3724 | 0.0199 | 0.0172 | | | | 0.6276 | 0.033514 | 0.0027 | 0.053414 | 0.00 |
| 4120.5 | 0.0559 | 0.3905 | 0.0218 | 0.0168 | | | | 0.6095 | 0.034071 | 0.005 | 0.055871 | (0.00) |
| 4121 | 0.059 | 0.3834 | 0.0226 | 0.0171 | | | | 0.6166 | 0.036379 | 0.0055 | 0.058979 | (0.00) |
| 4121.5 | 0.065 | 0.3541 | 0.023 | 0.0184 | | | | 0.6459 | 0.041984 | 0.0046 | 0.064984 | (0.00) |
| 4122 | 0.0704 | 0.3369 | 0.0237 | 0.0193 | | | | 0.6631 | 0.046682 | 0.0044 | 0.070382 | (0.00) |
| 4122.5 | 0.0714 | 0.3435 | 0.0245 | 0.019 | | | | 0.6565 | 0.046874 | 0.0055 | 0.071374 | (0.00) |
| 4123 | 0.0642 | 0.3725 | 0.0239 | 0.0177 | | | | 0.6275 | 0.040286 | 0.0062 | 0.064186 | (0.00) |
| 4123.5 | 0.0529 | 0.4156 | 0.022 | 0.0159 | | | | 0.5844 | 0.030915 | 0.0061 | 0.052915 | 0.00 |
| 4124 | 0.0446 | 0.4538 | 0.0203 | 0.0146 | | | | 0.5462 | 0.024361 | 0.0057 | 0.044661 | 0.00 |
| 4124.5 | 0.0467 | 0.4464 | 0.0209 | 0.0149 | | | | 0.5536 | 0.025853 | 0.006 | 0.046753 | 0.00 |
| 4125 | 0.0614 | 0.3776 | 0.0232 | 0.0174 | | | | 0.6224 | 0.038215 | 0.0058 | 0.061415 | 0.00 |
| 4125.5 | 0.0777 | 0.3203 | 0.0249 | 0.0202 | | | | 0.6797 | 0.052813 | 0.0047 | 0.077713 | 0.00 |
| 4126 | 0.0926 | 0.2823 | 0.0261 | 0.0226 | | | | 0.7177 | 0.066459 | 0.0035 | 0.092559 | (0.00) |
| 4126.5 | 0.1025 | 0.2681 | 0.0275 | 0.0235 | | | | 0.7319 | 0.07502 | 0.004 | 0.10252 | 0.00 |
| 4127 | 0.1073 | 0.2913 | 0.0313 | 0.0238 | | | | 0.7087 | 0.076044 | 0.0075 | 0.107344 | 0.00 |
| 4127.5 | 0.1138 | 0.3162 | 0.036 | 0.0249 | | | | 0.6838 | 0.077816 | 0.0111 | 0.113816 | 0.00 |
| 4128 | 0.1181 | 0.3288 | 0.0388 | 0.0258 | | | | 0.6712 | 0.079269 | 0.013 | 0.118069 | (0.00) |
| 4128.5 | 0.1188 | 0.3334 | 0.0396 | 0.0262 | | | | 0.6666 | 0.079192 | 0.0134 | 0.118792 | (0.00) |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 4129 | 0.1156 | 0.3253 | 0.0376 | 0.0263 | | | | 0.6747 | 0.077995 | 0.0113 | 0.115595 | (0.00) |
| 4129.5 | 0.0993 | 0.3192 | 0.0317 | 0.0255 | | | | 0.6808 | 0.067603 | 0.0062 | 0.099303 | 0.00 |
| 4130 | 0.0801 | 0.2945 | 0.0236 | 0.0236 | | | | 0.7055 | 0.056511 | 0 | 0.080111 | 0.00 |
| 4130.5 | 0.077 | 0.2442 | 0.0188 | 0.0188 | | | | 0.7558 | 0.058197 | 0 | 0.076997 | (0.00) |
| 4131 | 0.0844 | 0.2361 | 0.0199 | 0.0199 | | | | 0.7639 | 0.064473 | 0 | 0.084373 | (0.00) |
| 4131.5 | 0.0855 | 0.2694 | 0.023 | 0.023 | | | | 0.7306 | 0.062466 | 0 | 0.085466 | (0.00) |
| 4132 | 0.0876 | 0.3 | 0.0263 | 0.0214 | | | | 0.7 | 0.06132 | 0.0049 | 0.08762 | 0.00 |
| 4132.5 | 0.0816 | 0.3315 | 0.0271 | 0.0196 | | | | 0.6685 | 0.05455 | 0.0075 | 0.08165 | 0.00 |
| 4133 | 0.0661 | 0.3913 | 0.0258 | 0.0171 | | | | 0.6087 | 0.040235 | 0.0087 | 0.066035 | (0.00) |
| 4133.5 | 0.0485 | 0.4839 | 0.0234 | 0.0143 | | | | 0.5161 | 0.025031 | 0.0091 | 0.048431 | (0.00) |
| 4134 | 0.0357 | 0.583 | 0.0208 | 0.0122 | | | | 0.417 | 0.014887 | 0.0086 | 0.035687 | (0.00) |
| 4134.5 | 0.0348 | 0.5934 | 0.0207 | 0.012 | | | | 0.4066 | 0.01415 | 0.0087 | 0.03485 | 0.00 |
| 4135 | 0.0378 | 0.5764 | 0.0218 | 0.0124 | | | | 0.4236 | 0.016012 | 0.0094 | 0.037812 | 0.00 |
| 4135.5 | 0.0441 | 0.5392 | 0.0238 | 0.0133 | | | | 0.4608 | 0.020321 | 0.0105 | 0.044121 | 0.00 |
| 4136 | 0.0548 | 0.4712 | 0.0258 | 0.0148 | | | | 0.5288 | 0.028978 | 0.011 | 0.054778 | (0.00) |
| 4136.5 | 0.0686 | 0.4001 | 0.0274 | 0.0169 | | | | 0.5999 | 0.041153 | 0.0105 | 0.068553 | (0.00) |
| 4137 | 0.0808 | 0.3434 | 0.0277 | 0.0192 | | | | 0.6566 | 0.053053 | 0.0085 | 0.080753 | (0.00) |
| 4137.5 | 0.0818 | 0.3513 | 0.0287 | 0.0208 | | | | 0.6487 | 0.053064 | 0.0079 | 0.081764 | (0.00) |
| 4138 | 0.0777 | 0.3524 | 0.0274 | 0.0227 | | | | 0.6476 | 0.050319 | 0.0047 | 0.077719 | 0.00 |
| 4138.5 | 0.0847 | 0.3161 | 0.0268 | 0.0268 | | | | 0.6839 | 0.057926 | 0 | 0.084726 | 0.00 |
| 4139 | 0.1003 | 0.271 | 0.0272 | 0.0272 | | | | 0.729 | 0.073119 | 0 | 0.100319 | 0.00 |
| 4139.5 | 0.1053 | 0.2675 | 0.0282 | 0.0282 | | | | 0.7325 | 0.077132 | 0 | 0.105332 | 0.00 |
| 4140 | 0.1043 | 0.2971 | 0.031 | 0.031 | | | | 0.7029 | 0.073312 | 0 | 0.104312 | 0.00 |
| 4140.5 | 0.1032 | 0.3393 | 0.035 | 0.027 | | | | 0.6607 | 0.068184 | 0.008 | 0.103184 | (0.00) |
| 4141 | 0.1038 | 0.3664 | 0.038 | 0.0253 | | | | 0.6336 | 0.065768 | 0.0127 | 0.103768 | (0.00) |
| 4141.5 | 0.1056 | 0.3542 | 0.0374 | 0.0271 | | | | 0.6458 | 0.068196 | 0.0103 | 0.105596 | (0.00) |
| 4142 | 0.0982 | 0.3277 | 0.0322 | 0.0305 | | | | 0.6723 | 0.06602 | 0.0017 | 0.09822 | 0.00 |
| 4142.5 | 0.088 | 0.2977 | 0.0262 | 0.0262 | | | | 0.7023 | 0.061802 | 0 | 0.088002 | 0.00 |
| 4143 | 0.0869 | 0.2593 | 0.0225 | 0.0225 | | | | 0.7407 | 0.064367 | 0 | 0.086867 | (0.00) |
| 4143.5 | 0.0886 | 0.2361 | 0.0209 | 0.0209 | | | | 0.7639 | 0.067682 | 0 | 0.088582 | (0.00) |
| 4144 | 0.0863 | 0.2623 | 0.0226 | 0.0226 | | | | 0.7377 | 0.063664 | 0 | 0.086264 | (0.00) |
| 4144.5 | 0.0854 | 0.2972 | 0.0254 | 0.0216 | | | | 0.7028 | 0.060019 | 0.0038 | 0.085419 | 0.00 |
| 4145 | 0.0917 | 0.3001 | 0.0275 | 0.0213 | | | | 0.6999 | 0.064181 | 0.0062 | 0.091681 | (0.00) |
| 4145.5 | 0.1038 | 0.2837 | 0.0294 | 0.0226 | | | | 0.7163 | 0.074352 | 0.0068 | 0.103752 | (0.00) |
| 4146 | 0.1092 | 0.2873 | 0.0314 | 0.0235 | | | | 0.7127 | 0.077827 | 0.0079 | 0.109227 | 0.00 |
| 4146.5 | 0.1085 | 0.2881 | 0.0313 | 0.0237 | | | | 0.7119 | 0.077241 | 0.0076 | 0.108541 | 0.00 |
| 4147 | 0.1009 | 0.2925 | 0.0295 | 0.0228 | | | | 0.7075 | 0.071387 | 0.0067 | 0.100887 | (0.00) |
| 4147.5 | 0.0899 | 0.2919 | 0.0263 | 0.0219 | | | | 0.7081 | 0.063658 | 0.0044 | 0.089958 | 0.00 |
| 4148 | 0.0757 | 0.32 | 0.0242 | 0.0202 | | | | 0.68 | 0.051476 | 0.004 | 0.075676 | (0.00) |
| 4148.5 | 0.0631 | 0.3618 | 0.0228 | 0.018 | | | | 0.6382 | 0.04027 | 0.0048 | 0.06307 | (0.00) |
| 4149 | 0.0596 | 0.3892 | 0.0232 | 0.017 | | | | 0.6108 | 0.036404 | 0.0062 | 0.059604 | 0.00 |
| 4149.5 | 0.0625 | 0.3977 | 0.0249 | 0.0168 | | | | 0.6023 | 0.037644 | 0.0081 | 0.062544 | 0.00 |
| 4150 | 0.0693 | 0.3782 | 0.0262 | 0.0176 | | | | 0.6218 | 0.043091 | 0.0086 | 0.069291 | (0.00) |
| 4150.5 | 0.0779 | 0.3393 | 0.0264 | 0.0192 | | | | 0.6607 | 0.051469 | 0.0072 | 0.077869 | (0.00) |
| 4151 | 0.0815 | 0.311 | 0.0253 | 0.0207 | | | | 0.689 | 0.056154 | 0.0046 | 0.081454 | (0.00) |
| 4151.5 | 0.0809 | 0.2865 | 0.0232 | 0.0224 | | | | 0.7135 | 0.057722 | 0.0008 | 0.080922 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 4152 | 0.077 | 0.2834 | 0.0218 | 0.0218 | | | | 0.7166 | 0.055178 | 0 | 0.076978 | (0.00) |
| 4152.5 | 0.0716 | 0.323 | 0.0231 | 0.02 | | | | 0.677 | 0.048473 | 0.0031 | 0.071573 | (0.00) |
| 4153 | 0.06 | 0.4157 | 0.0249 | 0.0162 | | | | 0.5843 | 0.035058 | 0.0087 | 0.059958 | (0.00) |
| 4153.5 | 0.0498 | 0.4924 | 0.0245 | 0.0142 | | | | 0.5076 | 0.025278 | 0.0103 | 0.049778 | (0.00) |
| 4154 | 0.0469 | 0.4778 | 0.0224 | 0.0143 | | | | 0.5222 | 0.024491 | 0.0081 | 0.046891 | (0.00) |
| 4154.5 | 0.0527 | 0.3876 | 0.0204 | 0.0167 | | | | 0.6124 | 0.032273 | 0.0037 | 0.052673 | (0.00) |
| 4155 | 0.0653 | 0.2915 | 0.019 | 0.019 | | | | 0.7085 | 0.046265 | 0 | 0.065265 | (0.00) |
| 4155.5 | 0.0841 | 0.2383 | 0.02 | 0.02 | | | | 0.7617 | 0.064059 | 0 | 0.084059 | (0.00) |
| 4156 | 0.1031 | 0.2363 | 0.0244 | 0.0244 | | | | 0.7637 | 0.078737 | 0 | 0.103137 | 0.00 |
| 4156.5 | 0.1112 | 0.2536 | 0.0282 | 0.0245 | | | | 0.7464 | 0.083 | 0.0037 | 0.1112 | (0.00) |
| 4157 | 0.113 | 0.2772 | 0.0313 | 0.0238 | | | | 0.7228 | 0.081676 | 0.0075 | 0.112976 | (0.00) |
| 4157.5 | 0.1187 | 0.3313 | 0.0393 | 0.0253 | | | | 0.6687 | 0.079375 | 0.014 | 0.118675 | (0.00) |
| 4158 | 0.1371 | 0.3516 | 0.0482 | 0.0289 | | | | 0.6484 | 0.088896 | 0.0193 | 0.137096 | (0.00) |
| 4158.5 | 0.1589 | 0.3626 | 0.0576 | 0.0321 | | | | 0.6374 | 0.101283 | 0.0255 | 0.158883 | (0.00) |
| 4159 | 0.1743 | 0.373 | 0.065 | 0.0338 | | | | 0.627 | 0.109286 | 0.0312 | 0.174286 | (0.00) |
| 4159.5 | 0.1701 | 0.3956 | 0.0673 | 0.0325 | | | | 0.6044 | 0.102808 | 0.0348 | 0.170108 | 0.00 |
| 4160 | 0.1627 | 0.4018 | 0.0654 | 0.031 | | | | 0.5982 | 0.097327 | 0.0344 | 0.162727 | 0.00 |
| 4160.5 | 0.1583 | 0.3798 | 0.0601 | 0.0301 | | | | 0.6202 | 0.098178 | 0.03 | 0.158278 | (0.00) |
| 4161 | 0.1588 | 0.3353 | 0.0532 | 0.0303 | | | | 0.6647 | 0.105554 | 0.0229 | 0.158754 | (0.00) |
| 4161.5 | 0.163 | 0.2965 | 0.0483 | 0.0314 | | | | 0.7035 | 0.114671 | 0.0169 | 0.162971 | (0.00) |
| 4162 | 0.1668 | 0.272 | 0.0454 | 0.0325 | | | | 0.728 | 0.12143 | 0.0129 | 0.16683 | 0.00 |
| 4162.5 | 0.1715 | 0.2554 | 0.0438 | 0.0332 | | | | 0.7446 | 0.127699 | 0.0106 | 0.171499 | (0.00) |
| 4163 | 0.1701 | 0.2456 | 0.0418 | 0.033 | | | | 0.7544 | 0.128323 | 0.0088 | 0.170123 | 0.00 |
| 4163.5 | 0.1622 | 0.2267 | 0.0368 | 0.0322 | | | | 0.7733 | 0.125429 | 0.0046 | 0.162229 | 0.00 |
| 4164 | 0.1317 | 0.2208 | 0.0291 | 0.028 | | | | 0.7792 | 0.102621 | 0.0011 | 0.131721 | 0.00 |
| 4164.5 | 0.0924 | 0.2913 | 0.0269 | 0.0219 | | | | 0.7087 | 0.065484 | 0.005 | 0.092384 | (0.00) |
| 4165 | 0.052 | 0.4539 | 0.0236 | 0.015 | | | | 0.5461 | 0.028397 | 0.0086 | 0.051997 | (0.00) |
| 4165.5 | 0.0293 | 0.7015 | 0.0205 | 0.0108 | | | | 0.2985 | 0.008746 | 0.0097 | 0.029246 | (0.00) |
| 4166 | 0.0213 | 0.8565 | 0.0182 | 0.0093 | | | | 0.1435 | 0.003057 | 0.0089 | 0.021257 | (0.00) |
| 4166.5 | 0.0227 | 0.7931 | 0.018 | 0.0097 | | | | 0.2069 | 0.004697 | 0.0083 | 0.022697 | (0.00) |
| 4167 | 0.0314 | 0.6497 | 0.0204 | 0.0113 | | | | 0.3503 | 0.010999 | 0.0091 | 0.031399 | (0.00) |
| 4167.5 | 0.0464 | 0.5089 | 0.0236 | 0.0138 | | | | 0.4911 | 0.022787 | 0.0098 | 0.046387 | (0.00) |
| 4168 | 0.0629 | 0.4039 | 0.0254 | 0.0166 | | | | 0.5961 | 0.037495 | 0.0088 | 0.062895 | (0.00) |
| 4168.5 | 0.0742 | 0.3552 | 0.0264 | 0.0185 | | | | 0.6448 | 0.047844 | 0.0079 | 0.074244 | 0.00 |
| 4169 | 0.0766 | 0.3469 | 0.0266 | 0.0189 | | | | 0.6531 | 0.050027 | 0.0077 | 0.076627 | 0.00 |
| 4169.5 | 0.0757 | 0.3385 | 0.0256 | 0.0192 | | | | 0.6615 | 0.050076 | 0.0064 | 0.075676 | (0.00) |
| 4170 | 0.0723 | 0.321 | 0.0232 | 0.0201 | | | | 0.679 | 0.049092 | 0.0031 | 0.072292 | (0.00) |
| 4170.5 | 0.0602 | 0.32 | 0.0193 | 0.0193 | | | | 0.68 | 0.040936 | 0 | 0.060236 | 0.00 |
| 4171 | 0.0457 | 0.3513 | 0.016 | 0.016 | | | | 0.6487 | 0.029646 | 0 | 0.045646 | (0.00) |
| 4171.5 | 0.0375 | 0.416 | 0.0156 | 0.0148 | | | | 0.584 | 0.0219 | 0.0008 | 0.0375 | - |
| 4172 | 0.0348 | 0.5219 | 0.0182 | 0.0128 | | | | 0.4781 | 0.016638 | 0.0054 | 0.034838 | 0.00 |
| 4172.5 | 0.0373 | 0.5856 | 0.0218 | 0.0123 | | | | 0.4144 | 0.015457 | 0.0095 | 0.037257 | (0.00) |
| 4173 | 0.0511 | 0.4833 | 0.0247 | 0.0144 | | | | 0.5167 | 0.026403 | 0.0103 | 0.051103 | 0.00 |
| 4173.5 | 0.0802 | 0.3348 | 0.0268 | 0.0194 | | | | 0.6652 | 0.053349 | 0.0074 | 0.080149 | (0.00) |
| 4174 | 0.1111 | 0.2518 | 0.028 | 0.0247 | | | | 0.7482 | 0.083125 | 0.0033 | 0.111125 | 0.00 |
| 4174.5 | 0.1252 | 0.2665 | 0.0334 | 0.0271 | | | | 0.7335 | 0.091834 | 0.0063 | 0.125234 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume Water | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|----------|----------|----------|----------|------------|-------------|----------|------------|------------|----------|----------|
| | | | | | | | | | | Sum BV's | Phie-BVT |
| 4175 | 0.1318 | 0.2854 | 0.0376 | 0.0287 | | 0.7146 | 0.094184 | 0.0089 | 0.131784 | (0.00) | |
| 4175.5 | 0.1354 | 0.2973 | 0.0403 | 0.0303 | | 0.7027 | 0.095146 | 0.01 | 0.135446 | 0.00 | |
| 4176 | 0.1314 | 0.3121 | 0.041 | 0.0303 | | 0.6879 | 0.09039 | 0.0107 | 0.13139 | (0.00) | |
| 4176.5 | 0.1157 | 0.3353 | 0.0388 | 0.0285 | | 0.6647 | 0.076906 | 0.0103 | 0.115706 | 0.00 | |
| 4177 | 0.0921 | 0.3589 | 0.0331 | 0.0251 | | 0.6411 | 0.059045 | 0.008 | 0.092145 | 0.00 | |
| 4177.5 | 0.0633 | 0.3667 | 0.0232 | 0.021 | | 0.6333 | 0.040088 | 0.0022 | 0.063288 | (0.00) | |
| 4178 | 0.0398 | 0.3363 | 0.0134 | 0.0134 | | 0.6637 | 0.026415 | 0 | 0.039815 | 0.00 | |
| 4178.5 | 0.0389 | 0.3442 | 0.0134 | 0.0134 | | 0.6558 | 0.025511 | 0 | 0.038911 | 0.00 | |
| 4179 | 0.0664 | 0.323 | 0.0214 | 0.0199 | | 0.677 | 0.044953 | 0.0015 | 0.066353 | (0.00) | |
| 4179.5 | 0.0907 | 0.2944 | 0.0267 | 0.0217 | | 0.7056 | 0.063998 | 0.005 | 0.090698 | (0.00) | |
| 4180 | 0.095 | 0.3167 | 0.0301 | 0.0216 | | 0.6833 | 0.064914 | 0.0085 | 0.095014 | 0.00 | |
| 4180.5 | 0.0847 | 0.355 | 0.0301 | 0.0205 | | 0.645 | 0.054632 | 0.0096 | 0.084732 | 0.00 | |
| 4181 | 0.0795 | 0.3282 | 0.0261 | 0.0216 | | 0.6718 | 0.053408 | 0.0045 | 0.079508 | 0.00 | |
| 4181.5 | 0.0906 | 0.2566 | 0.0232 | 0.0232 | | 0.7434 | 0.067352 | 0 | 0.090552 | (0.00) | |
| 4182 | 0.1032 | 0.2466 | 0.0254 | 0.0254 | | 0.7534 | 0.077751 | 0 | 0.103151 | (0.00) | |
| 4182.5 | 0.1165 | 0.2467 | 0.0287 | 0.025 | | 0.7533 | 0.087759 | 0.0037 | 0.116459 | (0.00) | |
| 4183 | 0.1254 | 0.2417 | 0.0303 | 0.0252 | | 0.7583 | 0.095091 | 0.0051 | 0.125391 | (0.00) | |
| 4183.5 | 0.1252 | 0.2437 | 0.0305 | 0.025 | | 0.7563 | 0.094689 | 0.0055 | 0.125189 | (0.00) | |
| 4184 | 0.1268 | 0.2629 | 0.0333 | 0.0256 | | 0.7371 | 0.093464 | 0.0077 | 0.126764 | (0.00) | |
| 4184.5 | 0.1358 | 0.2753 | 0.0374 | 0.0279 | | 0.7247 | 0.098414 | 0.0095 | 0.135814 | 0.00 | |
| 4185 | 0.1436 | 0.2803 | 0.0403 | 0.03 | | 0.7197 | 0.103349 | 0.0103 | 0.143649 | 0.00 | |
| 4185.5 | 0.1353 | 0.2972 | 0.0402 | 0.0296 | | 0.7028 | 0.095089 | 0.0106 | 0.135289 | (0.00) | |
| 4186 | 0.103 | 0.35 | 0.0361 | 0.0257 | | 0.65 | 0.06695 | 0.0104 | 0.10305 | 0.00 | |
| 4186.5 | 0.063 | 0.4335 | 0.0273 | 0.0204 | | 0.5665 | 0.03569 | 0.0069 | 0.06299 | (0.00) | |
| 4187 | 0.0345 | 0.5151 | 0.0178 | 0.0151 | | 0.4849 | 0.016729 | 0.0027 | 0.034529 | 0.00 | |
| 4187.5 | 0.0264 | 0.6457 | 0.0171 | 0.0117 | | 0.3543 | 0.009354 | 0.0054 | 0.026454 | 0.00 | |
| 4188 | 0.0213 | 0.9305 | 0.0198 | 0.0096 | | 0.0695 | 0.00148 | 0.0102 | 0.02128 | (0.00) | |
| 4188.5 | 0.0171 | 1 | 0.0171 | 0.0085 | | 0 | 0 | 0.0086 | 0.0171 | - | |
| 4189 | 0.017 | 1 | 0.017 | 0.0085 | | 0 | 0 | 0.0085 | 0.017 | - | |
| 4189.5 | 0.0176 | 1 | 0.0176 | 0.0085 | | 0 | 0 | 0.0091 | 0.0176 | - | |
| 4190 | 0.0207 | 1 | 0.0207 | 0.0089 | | 0 | 0 | 0.0118 | 0.0207 | - | |
| | 0.080829 | 0.379109 | 0.026822 | 0.020352 | | 0.620891 | 0.054004 | 0.00647 | | | |

EMSU 658 Empire Log Analysis 4060 - 4190 ft.

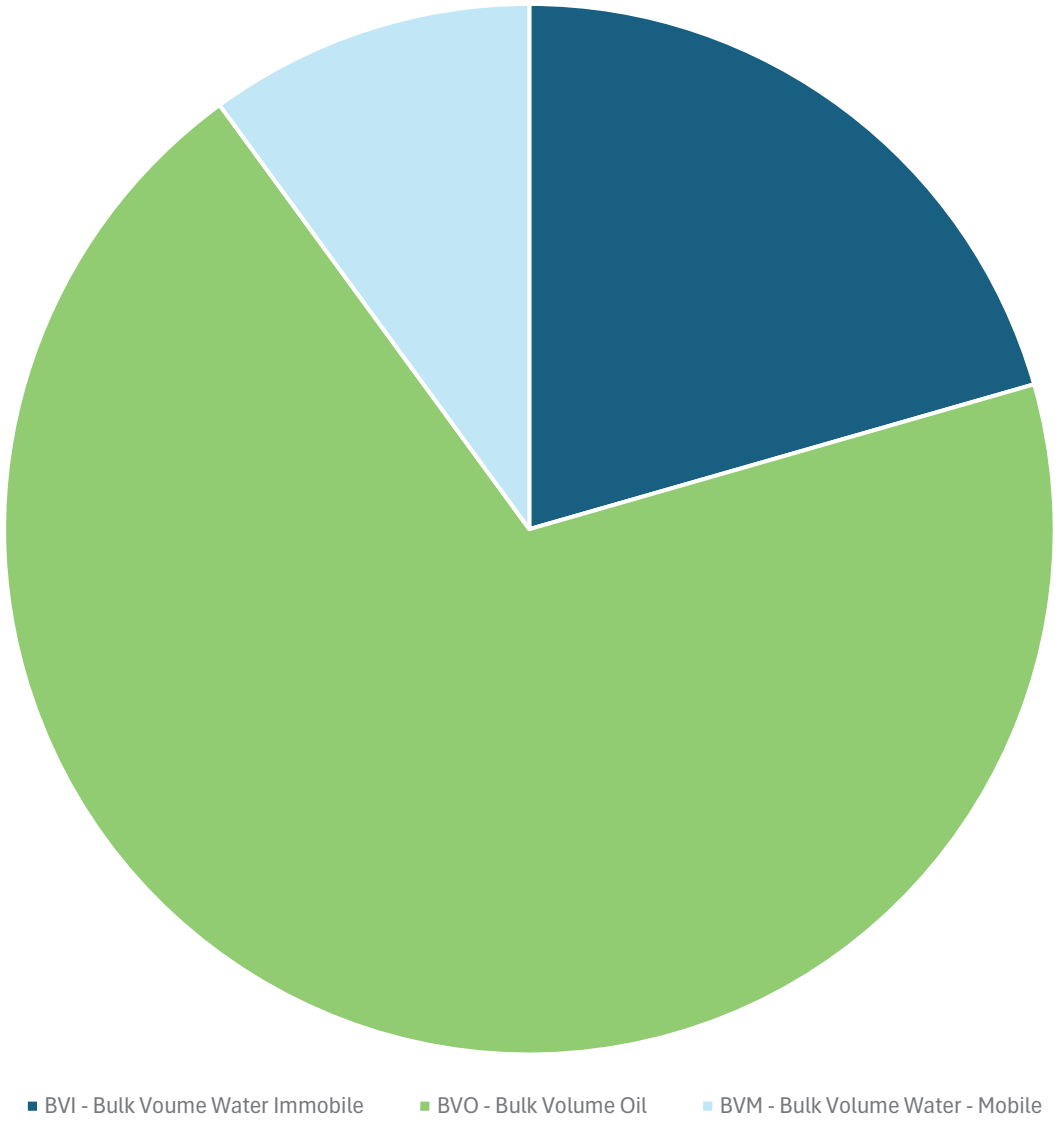


■ BVI - Bulk Voume Water Immobile ■ BVO - Bulk Volume Oil ■ BVM - Bulk Volume Water - Mobile

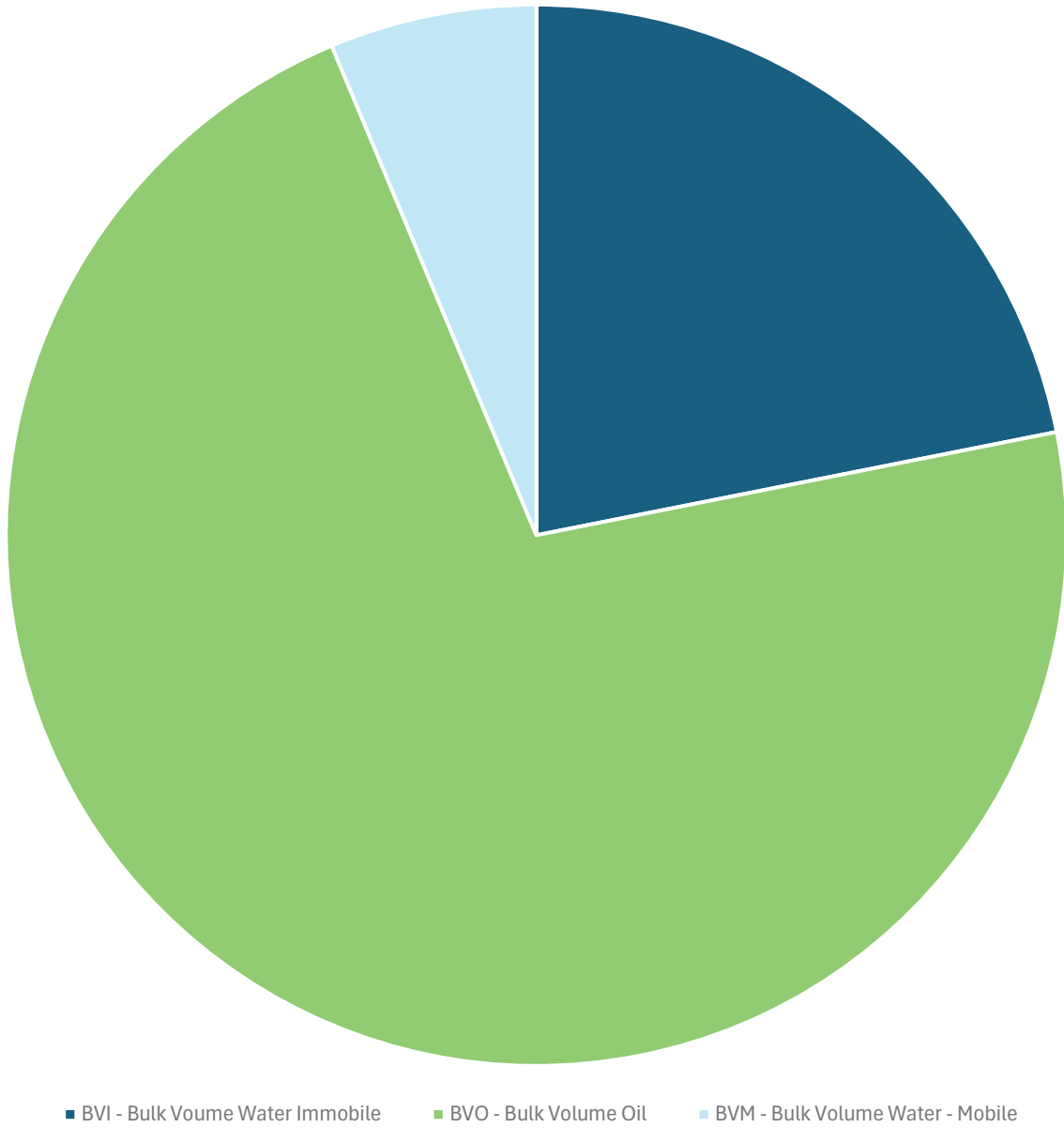
| ~A | DEPTH | PHIE | SW | BVW | BVI - Bulk Volume Water | So | BVO - Bulk | BVM - Bulk | Checks | |
|----|--------|----------|----------|----------|-------------------------|----------|------------|------------|----------|----------|
| | | | | | | | | | Sum BV's | Phie-BVT |
| | 4126 | 0.0993 | 0.3534 | 0.0351 | 0.0236 | 0.6466 | 0.064207 | 0.0115 | 0.099307 | 0.00 |
| | 4126.5 | 0.0937 | 0.3153 | 0.0295 | 0.0218 | 0.6847 | 0.064156 | 0.0077 | 0.093656 | (0.00) |
| | 4127 | 0.0957 | 0.2984 | 0.0286 | 0.0215 | 0.7016 | 0.067143 | 0.0071 | 0.095743 | 0.00 |
| | 4127.5 | 0.0954 | 0.3014 | 0.0287 | 0.0213 | 0.6986 | 0.066646 | 0.0074 | 0.095346 | (0.00) |
| | 4128 | 0.0986 | 0.2929 | 0.0289 | 0.0218 | 0.7071 | 0.06972 | 0.0071 | 0.09862 | 0.00 |
| | 4128.5 | 0.1125 | 0.2623 | 0.0295 | 0.0239 | 0.7377 | 0.082991 | 0.0056 | 0.112491 | (0.00) |
| | 4129 | 0.1253 | 0.2381 | 0.0298 | 0.0259 | 0.7619 | 0.095466 | 0.0039 | 0.125266 | (0.00) |
| | 4129.5 | 0.1293 | 0.2461 | 0.0318 | 0.0269 | 0.7539 | 0.097479 | 0.0049 | 0.129279 | (0.00) |
| | 4130 | 0.1273 | 0.2628 | 0.0335 | 0.0271 | 0.7372 | 0.093846 | 0.0064 | 0.127346 | 0.00 |
| | | 0.108567 | 0.285633 | 0.0306 | 0.023756 | 0.714367 | 0.077962 | 0.006844 | | |
| | 4151 | 0.1348 | 0.3396 | 0.0458 | 0.0274 | 0.6604 | 0.089022 | 0.0184 | 0.134822 | 0.00 |
| | 4151.5 | 0.1474 | 0.339 | 0.05 | 0.0292 | 0.661 | 0.097431 | 0.0208 | 0.147431 | 0.00 |
| | 4152 | 0.158 | 0.321 | 0.0507 | 0.031 | 0.679 | 0.107282 | 0.0197 | 0.157982 | (0.00) |
| | 4152.5 | 0.1579 | 0.3024 | 0.0477 | 0.0307 | 0.6976 | 0.110151 | 0.017 | 0.157851 | (0.00) |
| | 4153 | 0.1459 | 0.291 | 0.0424 | 0.0284 | 0.709 | 0.103443 | 0.014 | 0.145843 | (0.00) |
| | 4153.5 | 0.1277 | 0.2902 | 0.0371 | 0.0253 | 0.7098 | 0.090641 | 0.0118 | 0.127741 | 0.00 |
| | 4154 | 0.1145 | 0.2888 | 0.0331 | 0.0233 | 0.7112 | 0.081432 | 0.0098 | 0.114532 | 0.00 |
| | 4154.5 | 0.1089 | 0.2968 | 0.0323 | 0.0226 | 0.7032 | 0.076578 | 0.0097 | 0.108878 | (0.00) |
| | 4155 | 0.1067 | 0.3327 | 0.0355 | 0.0226 | 0.6673 | 0.071201 | 0.0129 | 0.106701 | 0.00 |
| | 4155.5 | 0.1166 | 0.355 | 0.0414 | 0.0246 | 0.645 | 0.075207 | 0.0168 | 0.116607 | 0.00 |
| | 4156 | 0.1396 | 0.3516 | 0.0491 | 0.0282 | 0.6484 | 0.090517 | 0.0209 | 0.139617 | 0.00 |
| | 4156.5 | 0.1703 | 0.3274 | 0.0558 | 0.0329 | 0.6726 | 0.114544 | 0.0229 | 0.170344 | 0.00 |
| | 4157 | 0.1896 | 0.3114 | 0.059 | 0.0359 | 0.6886 | 0.130559 | 0.0231 | 0.189559 | (0.00) |
| | 4157.5 | 0.1937 | 0.3047 | 0.059 | 0.0366 | 0.6953 | 0.13468 | 0.0224 | 0.19368 | (0.00) |
| | 4158 | 0.1867 | 0.3002 | 0.0561 | 0.0354 | 0.6998 | 0.130653 | 0.0207 | 0.186753 | 0.00 |
| | | 0.146553 | 0.316787 | 0.046333 | 0.02894 | 0.683213 | 0.100223 | 0.017689 | | |
| | 4170 | 0.1505 | 0.2483 | 0.0374 | 0.0288 | 0.7517 | 0.113131 | 0.0086 | 0.150531 | 0.00 |
| | 4170.5 | 0.1495 | 0.2326 | 0.0348 | 0.0288 | 0.7674 | 0.114726 | 0.006 | 0.149526 | 0.00 |
| | 4171 | 0.1396 | 0.2427 | 0.0339 | 0.0274 | 0.7573 | 0.105719 | 0.0065 | 0.139619 | 0.00 |
| | 4171.5 | 0.1379 | 0.2667 | 0.0368 | 0.0274 | 0.7333 | 0.101122 | 0.0094 | 0.137922 | 0.00 |
| | 4172 | 0.1529 | 0.267 | 0.0408 | 0.0298 | 0.733 | 0.112076 | 0.011 | 0.152876 | (0.00) |
| | 4172.5 | 0.1636 | 0.2714 | 0.0444 | 0.0312 | 0.7286 | 0.119199 | 0.0132 | 0.163599 | (0.00) |
| | 4173 | 0.1613 | 0.2851 | 0.046 | 0.0307 | 0.7149 | 0.115313 | 0.0153 | 0.161313 | 0.00 |
| | 4173.5 | 0.147 | 0.2955 | 0.0434 | 0.0288 | 0.7045 | 0.103562 | 0.0146 | 0.146962 | (0.00) |
| | 4174 | 0.1173 | 0.3285 | 0.0385 | 0.0249 | 0.6715 | 0.078767 | 0.0136 | 0.117267 | (0.00) |
| | | 0.146622 | 0.270867 | 0.039556 | 0.028644 | 0.729133 | 0.107068 | 0.010911 | | |
| | 4180 | 0.0564 | 0.5077 | 0.0286 | 0.0143 | 0.4923 | 0.027766 | 0.0143 | 0.056366 | (0.00) |
| | 4180.5 | 0.0583 | 0.4784 | 0.0279 | 0.0149 | 0.5216 | 0.030409 | 0.013 | 0.058309 | 0.00 |
| | 4181 | 0.0692 | 0.4037 | 0.0279 | 0.0169 | 0.5963 | 0.041264 | 0.011 | 0.069164 | (0.00) |
| | 4181.5 | 0.0932 | 0.3135 | 0.0292 | 0.0206 | 0.6865 | 0.063982 | 0.0086 | 0.093182 | (0.00) |
| | 4182 | 0.1172 | 0.2566 | 0.0301 | 0.0242 | 0.7434 | 0.087126 | 0.0059 | 0.117226 | 0.00 |
| | 4182.5 | 0.1289 | 0.2504 | 0.0323 | 0.0259 | 0.7496 | 0.096623 | 0.0064 | 0.128923 | 0.00 |
| | 4183 | 0.1244 | 0.2764 | 0.0344 | 0.0252 | 0.7236 | 0.090016 | 0.0092 | 0.124416 | 0.00 |

| ~A | DEPTH | PHIE | SW | BVW | BVI - Bulk Volume Water | So | BVO - Bulk | BVM - Bulk | Checks | |
|-----|--------|----------|----------|----------|-------------------------|----------|------------|------------|----------|----------|
| | | | | | | | | | Sum BV's | Phie-BVT |
| | 4183.5 | 0.1291 | 0.2769 | 0.0357 | 0.0261 | 0.7231 | 0.093352 | 0.0096 | 0.129052 | (0.00) |
| | 4184 | 0.1386 | 0.2608 | 0.0361 | 0.0283 | 0.7392 | 0.102453 | 0.0078 | 0.138553 | (0.00) |
| | | 0.1017 | 0.336044 | 0.031356 | 0.021822 | 0.663956 | 0.070332 | 0.009533 | | |
| | 4216 | 0.1084 | 0.4086 | 0.0443 | 0.0235 | 0.5914 | 0.064108 | 0.0208 | 0.108408 | 0.00 |
| | 4216.5 | 0.134 | 0.3731 | 0.05 | 0.0271 | 0.6269 | 0.084005 | 0.0229 | 0.134005 | 0.00 |
| | 4217 | 0.1438 | 0.3559 | 0.0512 | 0.0285 | 0.6441 | 0.092622 | 0.0227 | 0.143822 | 0.00 |
| | 4217.5 | 0.1459 | 0.3342 | 0.0487 | 0.0291 | 0.6658 | 0.09714 | 0.0196 | 0.14584 | (0.00) |
| | 4218 | 0.1406 | 0.3206 | 0.0451 | 0.0286 | 0.6794 | 0.095524 | 0.0165 | 0.140624 | 0.00 |
| | 4218.5 | 0.1257 | 0.3301 | 0.0415 | 0.0263 | 0.6699 | 0.084206 | 0.0152 | 0.125706 | 0.00 |
| | 4219 | 0.1084 | 0.3645 | 0.0395 | 0.0235 | 0.6355 | 0.068888 | 0.016 | 0.108388 | (0.00) |
| | 4219.5 | 0.103 | 0.3816 | 0.0393 | 0.0225 | 0.6184 | 0.063695 | 0.0168 | 0.102995 | (0.00) |
| | 4220 | 0.1056 | 0.3687 | 0.0389 | 0.0227 | 0.6313 | 0.066665 | 0.0162 | 0.105565 | (0.00) |
| | | 0.123933 | 0.3597 | 0.044278 | 0.025756 | 0.6403 | 0.07965 | 0.018522 | | |
| | 4237 | 0.1078 | 0.3003 | 0.0324 | 0.0228 | 0.6997 | 0.075428 | 0.0096 | 0.107828 | 0.00 |
| | 4237.5 | 0.1133 | 0.3044 | 0.0345 | 0.0245 | 0.6956 | 0.078811 | 0.01 | 0.113311 | 0.00 |
| | 4238 | 0.1179 | 0.2886 | 0.034 | 0.0259 | 0.7114 | 0.083874 | 0.0081 | 0.117874 | (0.00) |
| | 4238.5 | 0.1185 | 0.2657 | 0.0315 | 0.026 | 0.7343 | 0.087015 | 0.0055 | 0.118515 | 0.00 |
| | 4239 | 0.1037 | 0.275 | 0.0285 | 0.0234 | 0.725 | 0.075183 | 0.0051 | 0.103683 | (0.00) |
| | | 0.11224 | 0.2868 | 0.03218 | 0.02452 | 0.7132 | 0.080062 | 0.011228 | 0.112242 | |
| All | | 0.126552 | 0.311714 | 0.038714 | 0.026009 | 0.688286 | 0.087835 | 0.012705 | | |

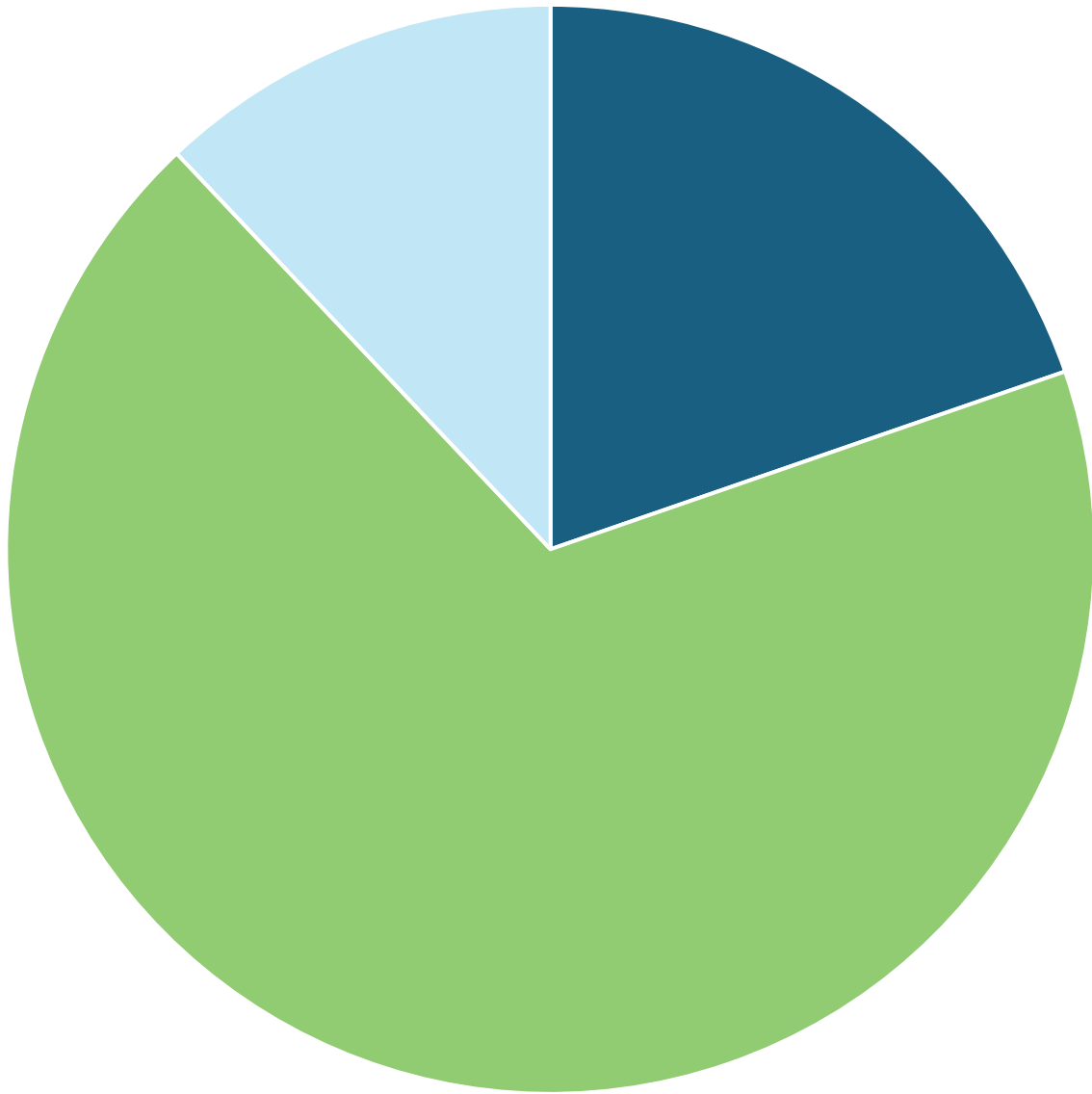
EMSU 660 Empire Log Analysis 4126 - 4239 ft.



EMSU 660 Empire Log Analysis 4126 - 4130 ft.

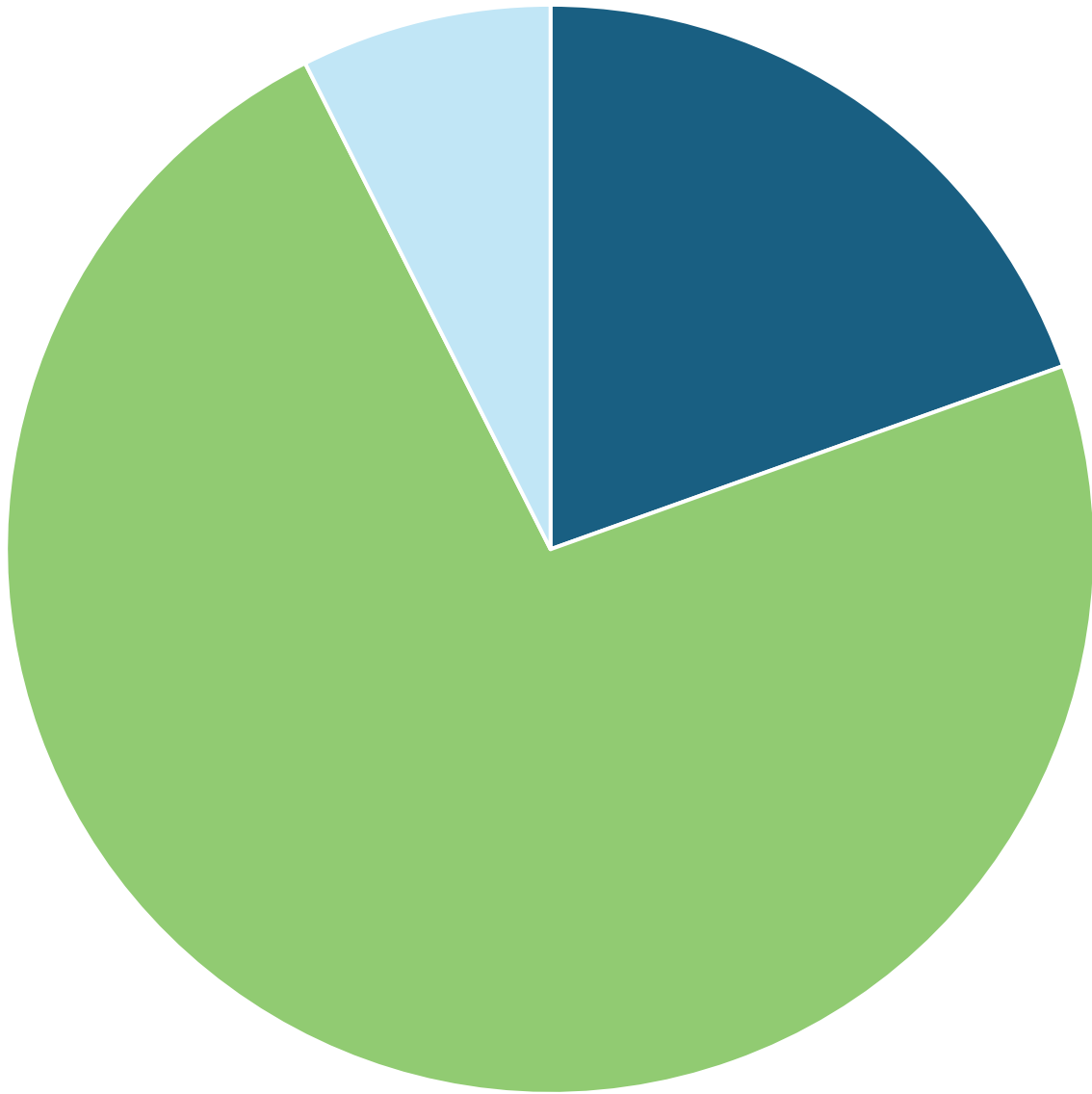


EMSU 660 Empire Log Analysis 4151 - 4158 ft.



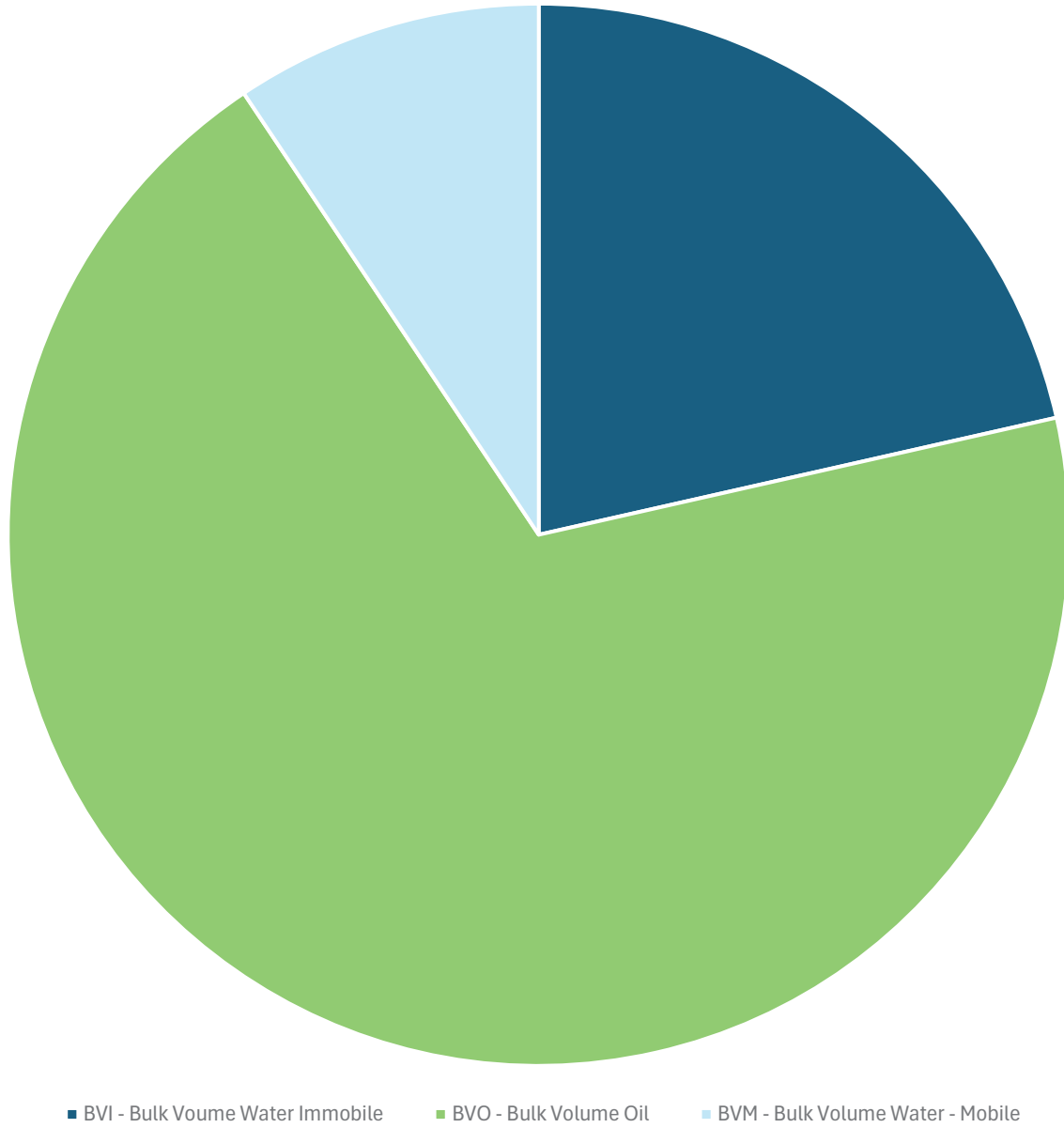
■ BVI - Bulk Voume Water Immobile ■ BVO - Bulk Volume Oil ■ BVM - Bulk Volume Water - Mobile

EMSU 660 Empire Log Analysis 4170 - 4174 ft.

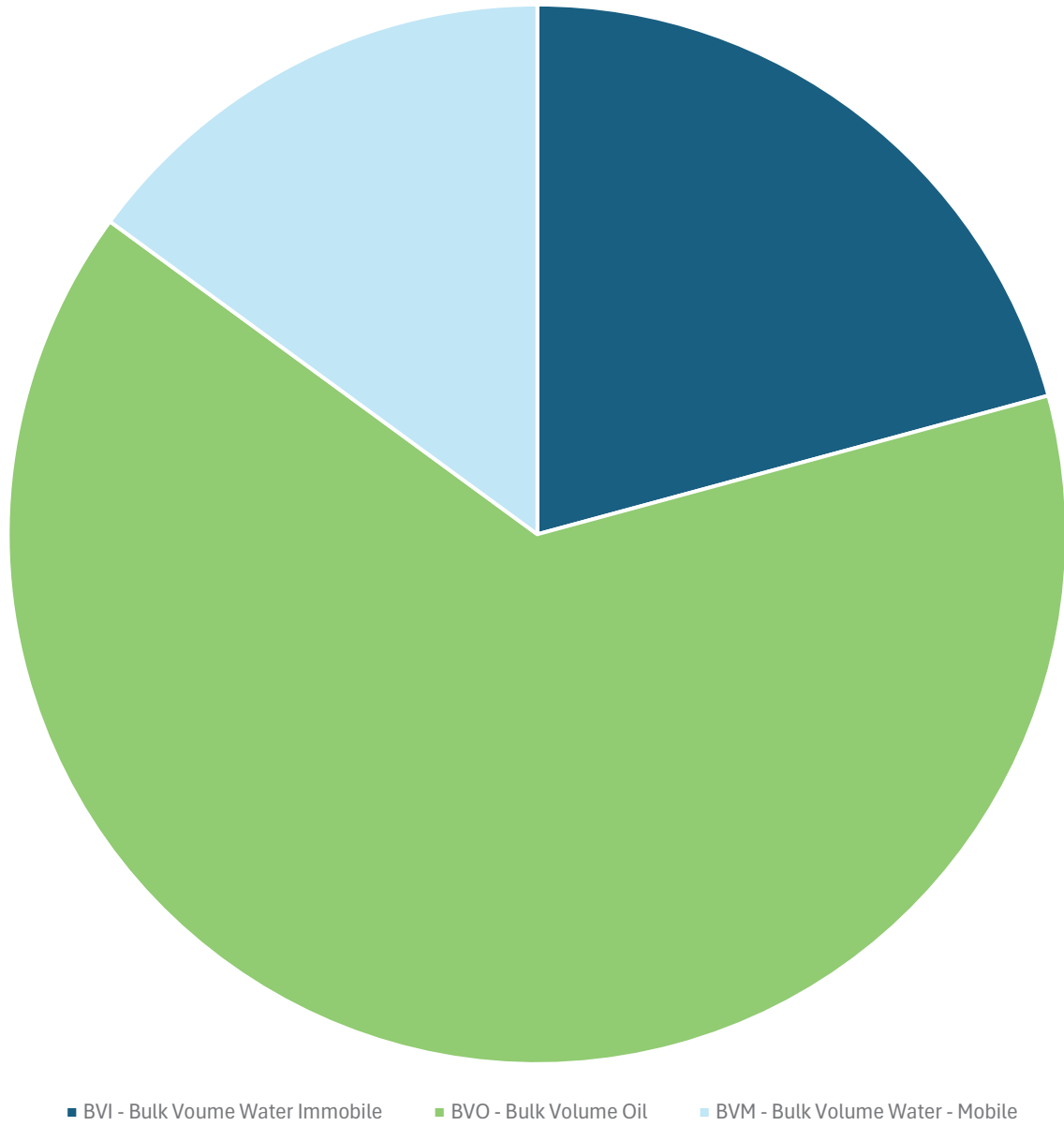


■ BVI - Bulk Voume Water Immobile ■ BVO - Bulk Volume Oil ■ BVM - Bulk Volume Water - Mobile

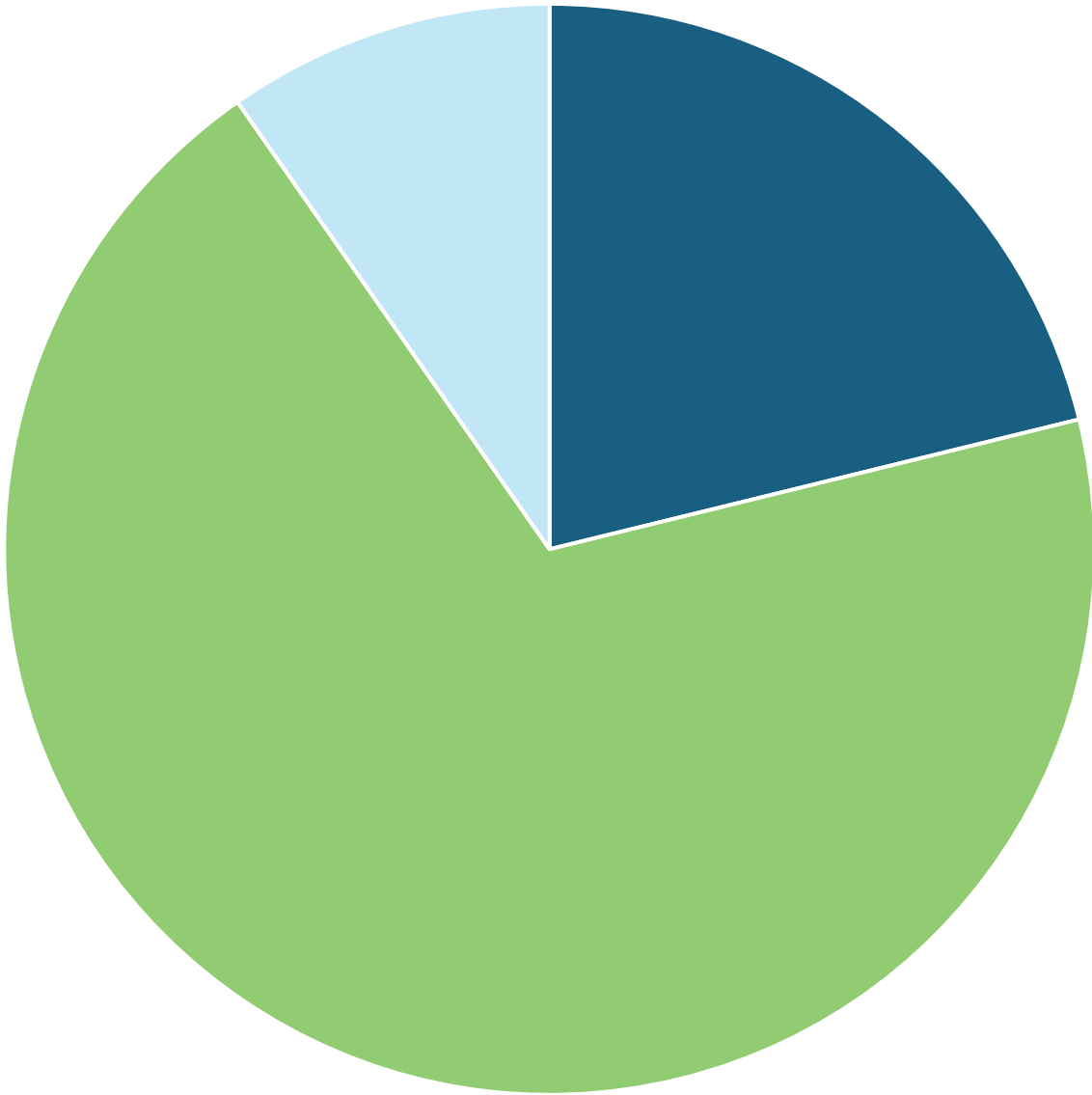
EMSU 660 Empire Log Analysis 4180 - 4184 ft.



EMSU 660 Empire Log Analysis 4216 - 4220 ft.



EMSU 660 Empire Log Analysis 4237- 4139 ft.



■ BVI - Bulk Voume Water Immobile ■ BVO - Bulk Volume Oil ■ BVM - Bulk Volume Water - Mobile

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|----------|----------|----------|----------|------------|-------|------|----------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 3986 | 0.0765 | 0.5587 | 0.0428 | 0.0177 | | | | 0.4413 | 0.033759 | 0.0251 | 0.076559 | 0.00 |
| 3986.5 | 0.1003 | 0.4063 | 0.0408 | 0.0235 | | | | 0.5937 | 0.059548 | 0.0173 | 0.100348 | 0.00 |
| 3987 | 0.1332 | 0.304 | 0.0405 | 0.0311 | | | | 0.696 | 0.092707 | 0.0094 | 0.133207 | 0.00 |
| 3987.5 | 0.1753 | 0.2453 | 0.043 | 0.0368 | | | | 0.7547 | 0.132299 | 0.0062 | 0.175299 | (0.00) |
| 3988 | 0.206 | 0.2219 | 0.0457 | 0.0386 | | | | 0.7781 | 0.160289 | 0.0071 | 0.205989 | (0.00) |
| 3988.5 | 0.2181 | 0.2199 | 0.048 | 0.0384 | | | | 0.7801 | 0.17014 | 0.0096 | 0.21814 | 0.00 |
| 3989 | 0.2196 | 0.2297 | 0.0504 | 0.0382 | | | | 0.7703 | 0.169158 | 0.0122 | 0.219558 | (0.00) |
| 3989.5 | 0.2183 | 0.2422 | 0.0529 | 0.0382 | | | | 0.7578 | 0.165428 | 0.0147 | 0.218328 | 0.00 |
| 3990 | 0.2206 | 0.2454 | 0.0541 | 0.0387 | | | | 0.7546 | 0.166465 | 0.0154 | 0.220565 | (0.00) |
| 3990.5 | 0.2245 | 0.2323 | 0.0521 | 0.0392 | | | | 0.7677 | 0.172349 | 0.0129 | 0.224449 | (0.00) |
| 3991 | 0.2172 | 0.2146 | 0.0466 | 0.0382 | | | | 0.7854 | 0.170589 | 0.0084 | 0.217189 | (0.00) |
| 3991.5 | 0.2006 | 0.1935 | 0.0388 | 0.0357 | | | | 0.8065 | 0.161784 | 0.0031 | 0.200584 | (0.00) |
| 3992 | 0.1792 | 0.186 | 0.0333 | 0.0323 | | | | 0.814 | 0.145869 | 0.001 | 0.179169 | (0.00) |
| 3992.5 | 0.1704 | 0.2029 | 0.0346 | 0.0308 | | | | 0.7971 | 0.135826 | 0.0038 | 0.170426 | 0.00 |
| 3993 | 0.1752 | 0.2326 | 0.0408 | 0.0315 | | | | 0.7674 | 0.134448 | 0.0093 | 0.175248 | 0.00 |
| 3993.5 | 0.2001 | 0.2496 | 0.0499 | 0.0353 | | | | 0.7504 | 0.150155 | 0.0146 | 0.200055 | (0.00) |
| 3994 | 0.2437 | 0.2412 | 0.0588 | 0.0418 | | | | 0.7588 | 0.18492 | 0.017 | 0.24372 | 0.00 |
| 3994.5 | 0.2651 | 0.2476 | 0.0656 | 0.0449 | | | | 0.7524 | 0.199461 | 0.0207 | 0.265061 | (0.00) |
| 3995 | 0.2725 | 0.2565 | 0.0699 | 0.0461 | | | | 0.7435 | 0.202604 | 0.0238 | 0.272504 | 0.00 |
| 3995.5 | 0.2582 | 0.2745 | 0.0709 | 0.0441 | | | | 0.7255 | 0.187324 | 0.0268 | 0.258224 | 0.00 |
| 3996 | 0.2293 | 0.3021 | 0.0693 | 0.0398 | | | | 0.6979 | 0.160028 | 0.0295 | 0.229328 | 0.00 |
| 3996.5 | 0.1972 | 0.3393 | 0.0669 | 0.0348 | | | | 0.6607 | 0.13029 | 0.0321 | 0.19719 | (0.00) |
| 3997 | 0.1758 | 0.3729 | 0.0656 | 0.0315 | | | | 0.6271 | 0.110244 | 0.0341 | 0.175844 | 0.00 |
| 3997.5 | 0.1603 | 0.4236 | 0.0679 | 0.0292 | | | | 0.5764 | 0.092397 | 0.0387 | 0.160297 | (0.00) |
| 3998 | 0.1546 | 0.4771 | 0.0738 | 0.0282 | | | | 0.5229 | 0.08084 | 0.0456 | 0.15464 | 0.00 |
| 3998.5 | 0.1599 | 0.5161 | 0.0825 | 0.029 | | | | 0.4839 | 0.077376 | 0.0535 | 0.159876 | (0.00) |
| 3999 | 0.1716 | 0.526 | 0.0903 | 0.0307 | | | | 0.474 | 0.081338 | 0.0596 | 0.171638 | 0.00 |
| 3999.5 | 0.196 | 0.4776 | 0.0936 | 0.0344 | | | | 0.5224 | 0.10239 | 0.0592 | 0.19599 | (0.00) |
| 4000 | 0.2123 | 0.4305 | 0.0914 | 0.0369 | | | | 0.5695 | 0.120905 | 0.0545 | 0.212305 | 0.00 |
| 4000.5 | 0.1853 | 0.4694 | 0.087 | 0.0328 | | | | 0.5306 | 0.09832 | 0.0542 | 0.18532 | 0.00 |
| 4001 | 0.1377 | 0.6017 | 0.0829 | 0.0257 | | | | 0.3983 | 0.054846 | 0.0572 | 0.137746 | 0.00 |
| 4001.5 | 0.0987 | 0.8152 | 0.0804 | 0.02 | | | | 0.1848 | 0.01824 | 0.0604 | 0.09864 | (0.00) |
| 4002 | 0.0827 | 0.9435 | 0.0781 | 0.0178 | | | | 0.0565 | 0.004673 | 0.0603 | 0.082773 | 0.00 |
| | 0.185939 | 0.360597 | 0.060885 | 0.033694 | | | | 0.639403 | 0.125061 | 0.027191 | | |
| 4084 | 0.0176 | 0.9657 | 0.017 | 0.0086 | | | | 0.0343 | 0.000604 | 0.0084 | 0.017604 | 0.00 |
| 4084.5 | 0.0306 | 0.7326 | 0.0224 | 0.0107 | | | | 0.2674 | 0.008182 | 0.0117 | 0.030582 | (0.00) |
| 4085 | 0.0541 | 0.4921 | 0.0266 | 0.0143 | | | | 0.5079 | 0.027477 | 0.0123 | 0.054077 | (0.00) |
| 4085.5 | 0.0822 | 0.345 | 0.0284 | 0.0186 | | | | 0.655 | 0.053841 | 0.0098 | 0.082241 | 0.00 |
| 4086 | 0.1062 | 0.2731 | 0.029 | 0.0224 | | | | 0.7269 | 0.077197 | 0.0066 | 0.106197 | (0.00) |
| 4086.5 | 0.119 | 0.2459 | 0.0293 | 0.0244 | | | | 0.7541 | 0.089738 | 0.0049 | 0.119038 | 0.00 |
| 4087 | 0.1239 | 0.2372 | 0.0294 | 0.0251 | | | | 0.7628 | 0.094511 | 0.0043 | 0.123911 | 0.00 |
| 4087.5 | 0.1329 | 0.2213 | 0.0294 | 0.0266 | | | | 0.7787 | 0.103489 | 0.0028 | 0.132889 | (0.00) |
| 4088 | 0.1479 | 0.1996 | 0.0295 | 0.0291 | | | | 0.8004 | 0.118379 | 0.0004 | 0.147879 | (0.00) |
| 4088.5 | 0.1556 | 0.1907 | 0.0297 | 0.0297 | | | | 0.8093 | 0.125927 | 0 | 0.155627 | 0.00 |
| 4089 | 0.1418 | 0.2091 | 0.0297 | 0.0279 | | | | 0.7909 | 0.11215 | 0.0018 | 0.14185 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4089.5 | 0.1172 | 0.249 | 0.0292 | 0.0241 | | | | 0.751 | 0.088017 | 0.0051 | 0.117217 | 0.00 |
| 4090 | 0.0952 | 0.2985 | 0.0284 | 0.0209 | | | | 0.7015 | 0.066783 | 0.0075 | 0.095183 | (0.00) |
| 4090.5 | 0.0823 | 0.3358 | 0.0276 | 0.019 | | | | 0.6642 | 0.054664 | 0.0086 | 0.082264 | (0.00) |
| 4091 | 0.08 | 0.3429 | 0.0274 | 0.0187 | | | | 0.6571 | 0.052568 | 0.0087 | 0.079968 | (0.00) |
| 4091.5 | 0.0872 | 0.3132 | 0.0273 | 0.0201 | | | | 0.6868 | 0.059889 | 0.0072 | 0.087189 | (0.00) |
| 4092 | 0.0927 | 0.2912 | 0.027 | 0.0214 | | | | 0.7088 | 0.065706 | 0.0056 | 0.092706 | 0.00 |
| 4092.5 | 0.082 | 0.3188 | 0.0261 | 0.0199 | | | | 0.6812 | 0.055858 | 0.0062 | 0.081958 | (0.00) |
| 4093 | 0.0677 | 0.3702 | 0.0251 | 0.0175 | | | | 0.6298 | 0.042637 | 0.0076 | 0.067737 | 0.00 |
| 4093.5 | 0.0607 | 0.3906 | 0.0237 | 0.0167 | | | | 0.6094 | 0.036991 | 0.007 | 0.060691 | (0.00) |
| 4094 | 0.0583 | 0.379 | 0.0221 | 0.017 | | | | 0.621 | 0.036204 | 0.0051 | 0.058304 | 0.00 |
| 4094.5 | 0.0628 | 0.3477 | 0.0218 | 0.0183 | | | | 0.6523 | 0.040964 | 0.0035 | 0.062764 | (0.00) |
| 4095 | 0.0779 | 0.3116 | 0.0243 | 0.0203 | | | | 0.6884 | 0.053626 | 0.004 | 0.077926 | 0.00 |
| 4095.5 | 0.1009 | 0.2659 | 0.0268 | 0.0232 | | | | 0.7341 | 0.074071 | 0.0036 | 0.100871 | (0.00) |
| 4096 | 0.1295 | 0.2202 | 0.0285 | 0.027 | | | | 0.7798 | 0.100984 | 0.0015 | 0.129484 | (0.00) |
| 4096.5 | 0.1547 | 0.2221 | 0.0343 | 0.0306 | | | | 0.7779 | 0.120341 | 0.0037 | 0.154641 | (0.00) |
| 4097 | 0.1688 | 0.2313 | 0.039 | 0.0327 | | | | 0.7687 | 0.129757 | 0.0063 | 0.168757 | (0.00) |
| 4097.5 | 0.1717 | 0.2455 | 0.0421 | 0.0329 | | | | 0.7545 | 0.129548 | 0.0092 | 0.171648 | (0.00) |
| 4098 | 0.1686 | 0.2617 | 0.0441 | 0.0323 | | | | 0.7383 | 0.124477 | 0.0118 | 0.168577 | (0.00) |
| 4098.5 | 0.1679 | 0.2771 | 0.0465 | 0.0319 | | | | 0.7229 | 0.121375 | 0.0146 | 0.167875 | (0.00) |
| 4099 | 0.1688 | 0.2947 | 0.0498 | 0.032 | | | | 0.7053 | 0.119055 | 0.0178 | 0.168855 | 0.00 |
| 4099.5 | 0.1627 | 0.3251 | 0.0529 | 0.031 | | | | 0.6749 | 0.109806 | 0.0219 | 0.162706 | 0.00 |
| 4100 | 0.157 | 0.3484 | 0.0547 | 0.0302 | | | | 0.6516 | 0.102301 | 0.0245 | 0.157001 | 0.00 |
| 4100.5 | 0.1493 | 0.358 | 0.0535 | 0.0296 | | | | 0.642 | 0.095851 | 0.0239 | 0.149351 | 0.00 |
| 4101 | 0.1328 | 0.3579 | 0.0475 | 0.0288 | | | | 0.6421 | 0.085271 | 0.0187 | 0.132771 | (0.00) |
| 4101.5 | 0.1039 | 0.3677 | 0.0382 | 0.0259 | | | | 0.6323 | 0.065696 | 0.0123 | 0.103896 | (0.00) |
| 4102 | 0.0764 | 0.354 | 0.027 | 0.0234 | | | | 0.646 | 0.049354 | 0.0036 | 0.076354 | (0.00) |
| 4102.5 | 0.066 | 0.2922 | 0.0193 | 0.0193 | | | | 0.7078 | 0.046715 | 0 | 0.066015 | 0.00 |
| 4103 | 0.0717 | 0.2804 | 0.0201 | 0.0201 | | | | 0.7196 | 0.051595 | 0 | 0.071695 | (0.00) |
| 4103.5 | 0.0922 | 0.3145 | 0.029 | 0.0273 | | | | 0.6855 | 0.063203 | 0.0017 | 0.092203 | 0.00 |
| 4104 | 0.1229 | 0.3378 | 0.0415 | 0.0313 | | | | 0.6622 | 0.081384 | 0.0102 | 0.122884 | (0.00) |
| 4104.5 | 0.1624 | 0.3224 | 0.0524 | 0.039 | | | | 0.6776 | 0.110042 | 0.0134 | 0.162442 | 0.00 |
| 4105 | 0.2066 | 0.2955 | 0.061 | 0.0443 | | | | 0.7045 | 0.14555 | 0.0167 | 0.20655 | (0.00) |
| 4105.5 | 0.224 | 0.2823 | 0.0632 | 0.0464 | | | | 0.7177 | 0.160765 | 0.0168 | 0.223965 | (0.00) |
| 4106 | 0.2181 | 0.2757 | 0.0601 | 0.0456 | | | | 0.7243 | 0.15797 | 0.0145 | 0.21807 | (0.00) |
| 4106.5 | 0.2107 | 0.2671 | 0.0563 | 0.044 | | | | 0.7329 | 0.154422 | 0.0123 | 0.210722 | 0.00 |
| 4107 | 0.2049 | 0.2594 | 0.0531 | 0.0426 | | | | 0.7406 | 0.151749 | 0.0105 | 0.204849 | (0.00) |
| 4107.5 | 0.1949 | 0.258 | 0.0503 | 0.0415 | | | | 0.742 | 0.144616 | 0.0088 | 0.194916 | 0.00 |
| 4108 | 0.1823 | 0.2586 | 0.0472 | 0.0413 | | | | 0.7414 | 0.135157 | 0.0059 | 0.182357 | 0.00 |
| 4108.5 | 0.172 | 0.2408 | 0.0414 | 0.0414 | | | | 0.7592 | 0.130582 | 0 | 0.171982 | (0.00) |
| 4109 | 0.1677 | 0.2015 | 0.0338 | 0.0338 | | | | 0.7985 | 0.133908 | 0 | 0.167708 | 0.00 |
| 4109.5 | 0.1664 | 0.1618 | 0.0269 | 0.0269 | | | | 0.8382 | 0.139476 | 0 | 0.166376 | (0.00) |
| 4110 | 0.1623 | 0.1516 | 0.0246 | 0.0246 | | | | 0.8484 | 0.137695 | 0 | 0.162295 | (0.00) |
| 4110.5 | 0.1517 | 0.1601 | 0.0243 | 0.0243 | | | | 0.8399 | 0.127413 | 0 | 0.151713 | 0.00 |
| 4111 | 0.1384 | 0.1736 | 0.024 | 0.024 | | | | 0.8264 | 0.114374 | 0 | 0.138374 | (0.00) |
| 4111.5 | 0.1234 | 0.1926 | 0.0238 | 0.0238 | | | | 0.8074 | 0.099633 | 0 | 0.123433 | 0.00 |
| 4112 | 0.1081 | 0.2174 | 0.0235 | 0.0235 | | | | 0.7826 | 0.084599 | 0 | 0.108099 | (0.00) |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4112.5 | 0.0977 | 0.2399 | 0.0234 | 0.0234 | | | | 0.7601 | 0.074262 | 0 | 0.097662 | (0.00) |
| 4113 | 0.0971 | 0.2464 | 0.0239 | 0.0239 | | | | 0.7536 | 0.073175 | 0 | 0.097075 | (0.00) |
| 4113.5 | 0.1056 | 0.2347 | 0.0248 | 0.0248 | | | | 0.7653 | 0.080816 | 0 | 0.105616 | 0.00 |
| 4114 | 0.1109 | 0.2268 | 0.0252 | 0.0252 | | | | 0.7732 | 0.085748 | 0 | 0.110948 | 0.00 |
| 4114.5 | 0.1137 | 0.225 | 0.0256 | 0.0256 | | | | 0.775 | 0.088118 | 0 | 0.113718 | 0.00 |
| 4115 | 0.1138 | 0.2299 | 0.0262 | 0.0262 | | | | 0.7701 | 0.087637 | 0 | 0.113837 | 0.00 |
| 4115.5 | 0.1135 | 0.233 | 0.0264 | 0.0261 | | | | 0.767 | 0.087055 | 0.0003 | 0.113455 | (0.00) |
| 4116 | 0.1092 | 0.2393 | 0.0261 | 0.0256 | | | | 0.7607 | 0.083068 | 0.0005 | 0.109168 | (0.00) |
| 4116.5 | 0.0906 | 0.2776 | 0.0252 | 0.0224 | | | | 0.7224 | 0.065449 | 0.0028 | 0.090649 | 0.00 |
| 4117 | 0.0691 | 0.3492 | 0.0241 | 0.0184 | | | | 0.6508 | 0.04497 | 0.0057 | 0.06907 | (0.00) |
| 4117.5 | 0.0628 | 0.3903 | 0.0245 | 0.0168 | | | | 0.6097 | 0.038289 | 0.0077 | 0.062789 | (0.00) |
| 4118 | 0.0712 | 0.3554 | 0.0253 | 0.0181 | | | | 0.6446 | 0.045896 | 0.0072 | 0.071196 | (0.00) |
| 4118.5 | 0.0808 | 0.3118 | 0.0252 | 0.0203 | | | | 0.6882 | 0.055607 | 0.0049 | 0.080807 | 0.00 |
| 4119 | 0.0801 | 0.3078 | 0.0247 | 0.0214 | | | | 0.6922 | 0.055445 | 0.0033 | 0.080145 | 0.00 |
| 4119.5 | 0.0698 | 0.325 | 0.0227 | 0.0213 | | | | 0.675 | 0.047115 | 0.0014 | 0.069815 | 0.00 |
| 4120 | 0.0637 | 0.3109 | 0.0198 | 0.0198 | | | | 0.6891 | 0.043896 | 0 | 0.063696 | (0.00) |
| 4120.5 | 0.0681 | 0.272 | 0.0185 | 0.0185 | | | | 0.728 | 0.049577 | 0 | 0.068077 | (0.00) |
| 4121 | 0.0711 | 0.2551 | 0.0181 | 0.0181 | | | | 0.7449 | 0.052962 | 0 | 0.071062 | (0.00) |
| 4121.5 | 0.0639 | 0.264 | 0.0169 | 0.0169 | | | | 0.736 | 0.04703 | 0 | 0.06393 | 0.00 |
| 4122 | 0.0563 | 0.2663 | 0.015 | 0.015 | | | | 0.7337 | 0.041307 | 0 | 0.056307 | 0.00 |
| 4122.5 | 0.0629 | 0.2536 | 0.0159 | 0.0159 | | | | 0.7464 | 0.046949 | 0 | 0.062849 | (0.00) |
| 4123 | 0.0842 | 0.2349 | 0.0198 | 0.0198 | | | | 0.7651 | 0.064421 | 0 | 0.084221 | 0.00 |
| 4123.5 | 0.0995 | 0.2211 | 0.022 | 0.022 | | | | 0.7789 | 0.077501 | 0 | 0.099501 | 0.00 |
| 4124 | 0.1016 | 0.2231 | 0.0227 | 0.0227 | | | | 0.7769 | 0.078933 | 0 | 0.101633 | 0.00 |
| 4124.5 | 0.1006 | 0.2329 | 0.0234 | 0.0234 | | | | 0.7671 | 0.07717 | 0 | 0.10057 | (0.00) |
| 4125 | 0.1045 | 0.246 | 0.0257 | 0.0257 | | | | 0.754 | 0.078793 | 0 | 0.104493 | (0.00) |
| 4125.5 | 0.1132 | 0.2601 | 0.0294 | 0.0293 | | | | 0.7399 | 0.083757 | 1E-04 | 0.113157 | (0.00) |
| 4126 | 0.1122 | 0.266 | 0.0298 | 0.0282 | | | | 0.734 | 0.082355 | 0.0016 | 0.112155 | (0.00) |
| 4126.5 | 0.1079 | 0.265 | 0.0286 | 0.0275 | | | | 0.735 | 0.079307 | 0.0011 | 0.107907 | 0.00 |
| 4127 | 0.1039 | 0.2589 | 0.0269 | 0.0265 | | | | 0.7411 | 0.077 | 0.0004 | 0.1039 | 0.00 |
| 4127.5 | 0.0998 | 0.2576 | 0.0257 | 0.0245 | | | | 0.7424 | 0.074092 | 0.0012 | 0.099792 | (0.00) |
| 4128 | 0.0915 | 0.2832 | 0.0259 | 0.022 | | | | 0.7168 | 0.065587 | 0.0039 | 0.091487 | (0.00) |
| 4128.5 | 0.0834 | 0.3135 | 0.0261 | 0.0201 | | | | 0.6865 | 0.057254 | 0.006 | 0.083354 | (0.00) |
| 4129 | 0.0851 | 0.3154 | 0.0269 | 0.02 | | | | 0.6846 | 0.058259 | 0.0069 | 0.085159 | 0.00 |
| 4129.5 | 0.0896 | 0.307 | 0.0275 | 0.0204 | | | | 0.693 | 0.062093 | 0.0071 | 0.089593 | (0.00) |
| 4130 | 0.0942 | 0.3097 | 0.0292 | 0.0212 | | | | 0.6903 | 0.065026 | 0.008 | 0.094226 | 0.00 |
| 4130.5 | 0.0983 | 0.3181 | 0.0313 | 0.0224 | | | | 0.6819 | 0.067031 | 0.0089 | 0.098331 | 0.00 |
| 4131 | 0.1027 | 0.3087 | 0.0317 | 0.0241 | | | | 0.6913 | 0.070997 | 0.0076 | 0.102697 | (0.00) |
| 4131.5 | 0.1052 | 0.2803 | 0.0295 | 0.0258 | | | | 0.7197 | 0.075712 | 0.0037 | 0.105212 | 0.00 |
| 4132 | 0.0991 | 0.2566 | 0.0254 | 0.0254 | | | | 0.7434 | 0.073671 | 0 | 0.099071 | (0.00) |
| 4132.5 | 0.089 | 0.2576 | 0.0229 | 0.0229 | | | | 0.7424 | 0.066074 | 0 | 0.088974 | (0.00) |
| 4133 | 0.0825 | 0.2744 | 0.0226 | 0.0226 | | | | 0.7256 | 0.059862 | 0 | 0.082462 | (0.00) |
| 4133.5 | 0.0836 | 0.3187 | 0.0266 | 0.0231 | | | | 0.6813 | 0.056957 | 0.0035 | 0.083557 | (0.00) |
| 4134 | 0.0907 | 0.3456 | 0.0313 | 0.0248 | | | | 0.6544 | 0.059354 | 0.0065 | 0.090654 | (0.00) |
| 4134.5 | 0.0936 | 0.3664 | 0.0343 | 0.0264 | | | | 0.6336 | 0.059305 | 0.0079 | 0.093605 | 0.00 |
| 4135 | 0.0837 | 0.409 | 0.0342 | 0.0253 | | | | 0.591 | 0.049467 | 0.0089 | 0.083667 | (0.00) |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|------------|----------|------------|------------|----------|----------|
| | | | | | | | | | | Sum BV's | Phie-BVT |
| 4135.5 | 0.0644 | 0.4778 | 0.0308 | 0.0215 | | 0.5222 | 0.03363 | 0.0093 | 0.06443 | 0.00 | |
| 4136 | 0.043 | 0.5635 | 0.0242 | 0.0169 | | 0.4365 | 0.01877 | 0.0073 | 0.04297 | (0.00) | |
| 4136.5 | 0.0215 | 0.6171 | 0.0133 | 0.012 | | 0.3829 | 0.008232 | 0.0013 | 0.021532 | 0.00 | |
| 4137 | 0.0186 | 0.481 | 0.009 | 0.009 | | 0.519 | 0.009653 | 0 | 0.018653 | 0.00 | |
| 4137.5 | 0.0185 | 0.5399 | 0.01 | 0.01 | | 0.4601 | 0.008512 | 0 | 0.018512 | 0.00 | |
| 4138 | 0.0184 | 0.6772 | 0.0125 | 0.0096 | | 0.3228 | 0.00594 | 0.0029 | 0.01844 | 0.00 | |
| 4138.5 | 0.0386 | 0.5654 | 0.0218 | 0.0125 | | 0.4346 | 0.016776 | 0.0093 | 0.038576 | (0.00) | |
| 4139 | 0.0485 | 0.5086 | 0.0247 | 0.0138 | | 0.4914 | 0.023833 | 0.0109 | 0.048533 | 0.00 | |
| 4139.5 | 0.0454 | 0.5386 | 0.0244 | 0.0132 | | 0.4614 | 0.020948 | 0.0112 | 0.045348 | (0.00) | |
| 4140 | 0.042 | 0.5827 | 0.0245 | 0.0125 | | 0.4173 | 0.017527 | 0.012 | 0.042027 | 0.00 | |
| 4140.5 | 0.0395 | 0.5978 | 0.0236 | 0.0122 | | 0.4022 | 0.015887 | 0.0114 | 0.039487 | (0.00) | |
| 4141 | 0.0349 | 0.604 | 0.0211 | 0.0118 | | 0.396 | 0.01382 | 0.0093 | 0.03492 | 0.00 | |
| 4141.5 | 0.0265 | 0.6172 | 0.0164 | 0.011 | | 0.3828 | 0.010144 | 0.0054 | 0.026544 | 0.00 | |
| 4142 | 0.0225 | 0.5671 | 0.0128 | 0.0109 | | 0.4329 | 0.00974 | 0.0019 | 0.02254 | 0.00 | |
| 4142.5 | 0.019 | 0.5034 | 0.0096 | 0.0096 | | 0.4966 | 0.009435 | 0 | 0.019035 | 0.00 | |
| 4143 | 0.0151 | 0.4716 | 0.0071 | 0.0071 | | 0.5284 | 0.007979 | 0 | 0.015079 | (0.00) | |
| 4143.5 | 0.0146 | 0.4725 | 0.0069 | 0.0069 | | 0.5275 | 0.007702 | 0 | 0.014602 | 0.00 | |
| 4144 | 0.0153 | 0.5104 | 0.0078 | 0.0078 | | 0.4896 | 0.007491 | 0 | 0.015291 | (0.00) | |
| 4144.5 | 0.0157 | 0.5439 | 0.0085 | 0.0085 | | 0.4561 | 0.007161 | 0 | 0.015661 | (0.00) | |
| 4145 | 0.0152 | 0.5441 | 0.0082 | 0.0082 | | 0.4559 | 0.00693 | 0 | 0.01513 | (0.00) | |
| 4145.5 | 0.0173 | 0.5015 | 0.0087 | 0.0087 | | 0.4985 | 0.008624 | 0 | 0.017324 | 0.00 | |
| 4146 | 0.0355 | 0.3767 | 0.0134 | 0.0134 | | 0.6233 | 0.022127 | 0 | 0.035527 | 0.00 | |
| 4146.5 | 0.0469 | 0.3519 | 0.0165 | 0.0165 | | 0.6481 | 0.030396 | 0 | 0.046896 | (0.00) | |
| 4147 | 0.0492 | 0.344 | 0.0169 | 0.0169 | | 0.656 | 0.032275 | 0 | 0.049175 | (0.00) | |
| 4147.5 | 0.0472 | 0.3352 | 0.0158 | 0.0158 | | 0.6648 | 0.031379 | 0 | 0.047179 | (0.00) | |
| 4148 | 0.0471 | 0.3194 | 0.015 | 0.015 | | 0.6806 | 0.032056 | 0 | 0.047056 | (0.00) | |
| 4148.5 | 0.0549 | 0.3043 | 0.0167 | 0.0167 | | 0.6957 | 0.038194 | 0 | 0.054894 | (0.00) | |
| 4149 | 0.0723 | 0.2754 | 0.0199 | 0.0199 | | 0.7246 | 0.052389 | 0 | 0.072289 | (0.00) | |
| 4149.5 | 0.0929 | 0.2519 | 0.0234 | 0.0234 | | 0.7481 | 0.069498 | 0 | 0.092898 | (0.00) | |
| 4150 | 0.1047 | 0.2453 | 0.0257 | 0.0257 | | 0.7547 | 0.079017 | 0 | 0.104717 | 0.00 | |
| 4150.5 | 0.1148 | 0.2381 | 0.0273 | 0.0273 | | 0.7619 | 0.087466 | 0 | 0.114766 | (0.00) | |
| 4151 | 0.1197 | 0.2339 | 0.028 | 0.028 | | 0.7661 | 0.091702 | 0 | 0.119702 | 0.00 | |
| 4151.5 | 0.1157 | 0.2404 | 0.0278 | 0.0278 | | 0.7596 | 0.087886 | 0 | 0.115686 | (0.00) | |
| 4152 | 0.1036 | 0.2622 | 0.0272 | 0.0272 | | 0.7378 | 0.076436 | 0 | 0.103636 | 0.00 | |
| 4152.5 | 0.0934 | 0.2875 | 0.0268 | 0.0268 | | 0.7125 | 0.066548 | 0 | 0.093348 | (0.00) | |
| 4153 | 0.0961 | 0.2999 | 0.0288 | 0.0286 | | 0.7001 | 0.06728 | 0.0002 | 0.09608 | (0.00) | |
| 4153.5 | 0.108 | 0.2877 | 0.0311 | 0.0311 | | 0.7123 | 0.076928 | 0 | 0.108028 | 0.00 | |
| 4154 | 0.1145 | 0.2742 | 0.0314 | 0.0314 | | 0.7258 | 0.083104 | 0 | 0.114504 | 0.00 | |
| 4154.5 | 0.1082 | 0.2705 | 0.0293 | 0.0293 | | 0.7295 | 0.078932 | 0 | 0.108232 | 0.00 | |
| 4155 | 0.0906 | 0.2616 | 0.0237 | 0.0237 | | 0.7384 | 0.066899 | 0 | 0.090599 | (0.00) | |
| 4155.5 | 0.0653 | 0.2854 | 0.0186 | 0.0186 | | 0.7146 | 0.046663 | 0 | 0.065263 | (0.00) | |
| 4156 | 0.0443 | 0.358 | 0.0159 | 0.0159 | | 0.642 | 0.028441 | 0 | 0.044341 | 0.00 | |
| 4156.5 | 0.0352 | 0.4053 | 0.0143 | 0.0143 | | 0.5947 | 0.020933 | 0 | 0.035233 | 0.00 | |
| 4157 | 0.0421 | 0.3991 | 0.0168 | 0.0155 | | 0.6009 | 0.025298 | 0.0013 | 0.042098 | (0.00) | |
| 4157.5 | 0.0574 | 0.3836 | 0.022 | 0.0177 | | 0.6164 | 0.035381 | 0.0043 | 0.057381 | (0.00) | |
| 4158 | 0.0783 | 0.4233 | 0.0331 | 0.0211 | | 0.5767 | 0.045156 | 0.012 | 0.078256 | (0.00) | |

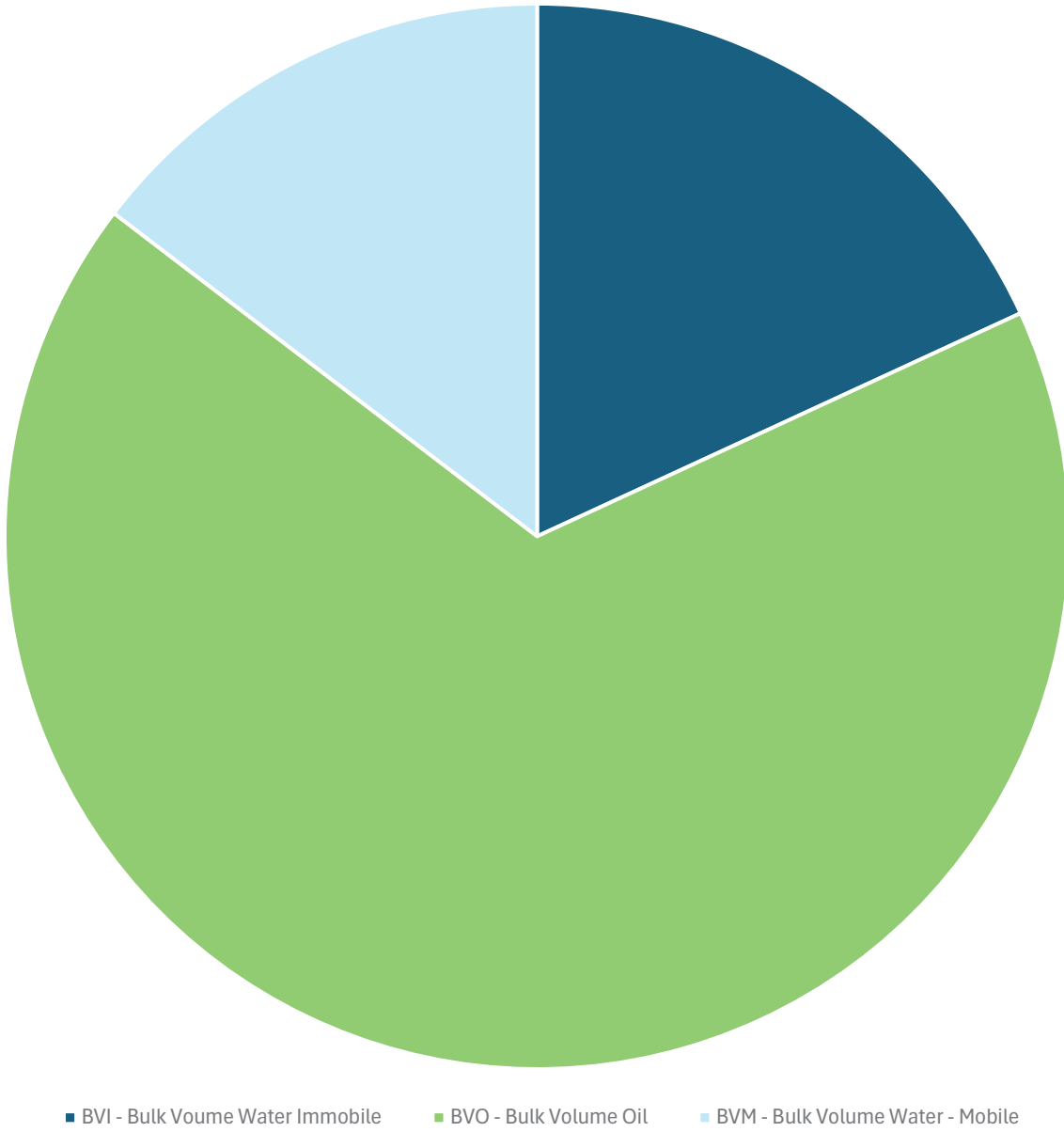
| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4158.5 | 0.1006 | 0.4155 | 0.0418 | 0.0253 | | | | 0.5845 | 0.058801 | 0.0165 | 0.100601 | 0.00 |
| 4159 | 0.1216 | 0.3906 | 0.0475 | 0.0292 | | | | 0.6094 | 0.074103 | 0.0183 | 0.121603 | 0.00 |
| 4159.5 | 0.1286 | 0.3842 | 0.0494 | 0.0299 | | | | 0.6158 | 0.079192 | 0.0195 | 0.128592 | (0.00) |
| 4160 | 0.1189 | 0.3942 | 0.0469 | 0.0276 | | | | 0.6058 | 0.07203 | 0.0193 | 0.11893 | 0.00 |
| 4160.5 | 0.0968 | 0.4073 | 0.0394 | 0.0236 | | | | 0.5927 | 0.057373 | 0.0158 | 0.096773 | (0.00) |
| 4161 | 0.0728 | 0.4046 | 0.0295 | 0.0193 | | | | 0.5954 | 0.043345 | 0.0102 | 0.072845 | 0.00 |
| 4161.5 | 0.0589 | 0.3971 | 0.0234 | 0.0165 | | | | 0.6029 | 0.035511 | 0.0069 | 0.058911 | 0.00 |
| 4162 | 0.0605 | 0.4181 | 0.0253 | 0.0159 | | | | 0.5819 | 0.035205 | 0.0094 | 0.060505 | 0.00 |
| 4162.5 | 0.0743 | 0.375 | 0.0279 | 0.0174 | | | | 0.625 | 0.046438 | 0.0105 | 0.074338 | 0.00 |
| 4163 | 0.0885 | 0.33 | 0.0292 | 0.0192 | | | | 0.67 | 0.059295 | 0.01 | 0.088495 | (0.00) |
| 4163.5 | 0.0931 | 0.3154 | 0.0294 | 0.0199 | | | | 0.6846 | 0.063736 | 0.0095 | 0.093136 | 0.00 |
| 4164 | 0.0855 | 0.3403 | 0.0291 | 0.0188 | | | | 0.6597 | 0.056404 | 0.0103 | 0.085504 | 0.00 |
| 4164.5 | 0.0711 | 0.4015 | 0.0285 | 0.0166 | | | | 0.5985 | 0.042553 | 0.0119 | 0.071053 | (0.00) |
| 4165 | 0.0509 | 0.5378 | 0.0274 | 0.0135 | | | | 0.4622 | 0.023526 | 0.0139 | 0.050926 | 0.00 |
| 4165.5 | 0.0328 | 0.7397 | 0.0242 | 0.0108 | | | | 0.2603 | 0.008538 | 0.0134 | 0.032738 | (0.00) |
| 4166 | 0.0256 | 0.8018 | 0.0205 | 0.0099 | | | | 0.1982 | 0.005074 | 0.0106 | 0.025574 | (0.00) |
| 4166.5 | 0.0283 | 0.706 | 0.02 | 0.0106 | | | | 0.294 | 0.00832 | 0.0094 | 0.02832 | 0.00 |
| 4167 | 0.044 | 0.5425 | 0.0238 | 0.0131 | | | | 0.4575 | 0.02013 | 0.0107 | 0.04393 | (0.00) |
| 4167.5 | 0.0771 | 0.3594 | 0.0277 | 0.018 | | | | 0.6406 | 0.04939 | 0.0097 | 0.07709 | (0.00) |
| 4168 | 0.1215 | 0.2893 | 0.0351 | 0.0244 | | | | 0.7107 | 0.08635 | 0.0107 | 0.12145 | (0.00) |
| 4168.5 | 0.1631 | 0.2879 | 0.047 | 0.0306 | | | | 0.7121 | 0.116144 | 0.0164 | 0.163144 | 0.00 |
| 4169 | 0.1866 | 0.3026 | 0.0565 | 0.0344 | | | | 0.6974 | 0.130135 | 0.0221 | 0.186635 | 0.00 |
| 4169.5 | 0.1901 | 0.3256 | 0.0619 | 0.0356 | | | | 0.6744 | 0.128203 | 0.0263 | 0.190103 | 0.00 |
| 4170 | 0.183 | 0.3405 | 0.0623 | 0.0357 | | | | 0.6595 | 0.120689 | 0.0266 | 0.182989 | (0.00) |
| 4170.5 | 0.1705 | 0.3426 | 0.0584 | 0.0352 | | | | 0.6574 | 0.112087 | 0.0232 | 0.170487 | (0.00) |
| 4171 | 0.1529 | 0.337 | 0.0515 | 0.0342 | | | | 0.663 | 0.101373 | 0.0173 | 0.152873 | (0.00) |
| 4171.5 | 0.1345 | 0.3317 | 0.0446 | 0.0322 | | | | 0.6683 | 0.089886 | 0.0124 | 0.134486 | (0.00) |
| 4172 | 0.122 | 0.3344 | 0.0408 | 0.0292 | | | | 0.6656 | 0.081203 | 0.0116 | 0.122003 | 0.00 |
| 4172.5 | 0.1284 | 0.3182 | 0.0409 | 0.0286 | | | | 0.6818 | 0.087543 | 0.0123 | 0.128443 | 0.00 |
| 4173 | 0.1385 | 0.3064 | 0.0424 | 0.0288 | | | | 0.6936 | 0.096064 | 0.0136 | 0.138464 | (0.00) |
| 4173.5 | 0.141 | 0.2993 | 0.0422 | 0.0286 | | | | 0.7007 | 0.098799 | 0.0136 | 0.140999 | (0.00) |
| 4174 | 0.1347 | 0.2957 | 0.0398 | 0.0271 | | | | 0.7043 | 0.094869 | 0.0127 | 0.134669 | (0.00) |
| 4174.5 | 0.1229 | 0.2884 | 0.0355 | 0.0246 | | | | 0.7116 | 0.087456 | 0.0109 | 0.122956 | 0.00 |
| 4175 | 0.1111 | 0.2711 | 0.0301 | 0.0223 | | | | 0.7289 | 0.080981 | 0.0078 | 0.111081 | (0.00) |
| 4175.5 | 0.1048 | 0.2891 | 0.0303 | 0.0212 | | | | 0.7109 | 0.074502 | 0.0091 | 0.104802 | 0.00 |
| 4176 | 0.1087 | 0.2775 | 0.0302 | 0.0219 | | | | 0.7225 | 0.078536 | 0.0083 | 0.108736 | 0.00 |
| 4176.5 | 0.1247 | 0.2439 | 0.0304 | 0.0244 | | | | 0.7561 | 0.094286 | 0.006 | 0.124686 | (0.00) |
| 4177 | 0.147 | 0.2646 | 0.0389 | 0.0277 | | | | 0.7354 | 0.108104 | 0.0112 | 0.147004 | 0.00 |
| 4177.5 | 0.1722 | 0.2827 | 0.0487 | 0.0313 | | | | 0.7173 | 0.123519 | 0.0174 | 0.172219 | 0.00 |
| 4178 | 0.1927 | 0.2998 | 0.0578 | 0.0344 | | | | 0.7002 | 0.134929 | 0.0234 | 0.192729 | 0.00 |
| 4178.5 | 0.2057 | 0.3153 | 0.0649 | 0.0364 | | | | 0.6847 | 0.140843 | 0.0285 | 0.205743 | 0.00 |
| 4179 | 0.2032 | 0.3394 | 0.069 | 0.0363 | | | | 0.6606 | 0.134234 | 0.0327 | 0.203234 | 0.00 |
| 4179.5 | 0.1975 | 0.351 | 0.0693 | 0.036 | | | | 0.649 | 0.128178 | 0.0333 | 0.197478 | (0.00) |
| 4180 | 0.1844 | 0.3605 | 0.0665 | 0.0349 | | | | 0.6395 | 0.117924 | 0.0316 | 0.184424 | 0.00 |
| 4180.5 | 0.1711 | 0.3524 | 0.0603 | 0.0344 | | | | 0.6476 | 0.110804 | 0.0259 | 0.171104 | 0.00 |
| 4181 | 0.1471 | 0.3485 | 0.0513 | 0.0341 | | | | 0.6515 | 0.095836 | 0.0172 | 0.147136 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 4181.5 | 0.1183 | 0.348 | 0.0412 | 0.0353 | | | | 0.652 | 0.077132 | 0.0059 | 0.118332 | 0.00 |
| 4182 | 0.1027 | 0.3369 | 0.0346 | 0.0346 | | | | 0.6631 | 0.0681 | 0 | 0.1027 | 0.00 |
| 4182.5 | 0.1143 | 0.323 | 0.0369 | 0.0367 | | | | 0.677 | 0.077381 | 0.0002 | 0.114281 | (0.00) |
| 4183 | 0.1362 | 0.3107 | 0.0423 | 0.0342 | | | | 0.6893 | 0.093883 | 0.0081 | 0.136183 | (0.00) |
| 4183.5 | 0.1378 | 0.3203 | 0.0441 | 0.0308 | | | | 0.6797 | 0.093663 | 0.0133 | 0.137763 | (0.00) |
| 4184 | 0.1159 | 0.3519 | 0.0408 | 0.0259 | | | | 0.6481 | 0.075115 | 0.0149 | 0.115915 | 0.00 |
| 4184.5 | 0.0796 | 0.4127 | 0.0328 | 0.0195 | | | | 0.5873 | 0.046749 | 0.0133 | 0.079549 | (0.00) |
| 4185 | 0.0487 | 0.4675 | 0.0228 | 0.0144 | | | | 0.5325 | 0.025933 | 0.0084 | 0.048733 | 0.00 |
| 4185.5 | 0.0318 | 0.5887 | 0.0187 | 0.0117 | | | | 0.4113 | 0.013079 | 0.007 | 0.031779 | (0.00) |
| 4186 | 0.0176 | 0.6654 | 0.0117 | 0.0096 | | | | 0.3346 | 0.005889 | 0.0021 | 0.017589 | (0.00) |
| 4186.5 | 0.0159 | 0.6057 | 0.0096 | 0.0096 | | | | 0.3943 | 0.006269 | 0 | 0.015869 | (0.00) |
| 4187 | 0.0151 | 0.5281 | 0.008 | 0.008 | | | | 0.4719 | 0.007126 | 0 | 0.015126 | 0.00 |
| 4187.5 | 0.0153 | 0.4996 | 0.0076 | 0.0076 | | | | 0.5004 | 0.007656 | 0 | 0.015256 | (0.00) |
| 4188 | 0.0156 | 0.4749 | 0.0074 | 0.0074 | | | | 0.5251 | 0.008192 | 0 | 0.015592 | (0.00) |
| 4188.5 | 0.0163 | 0.4614 | 0.0075 | 0.0075 | | | | 0.5386 | 0.008779 | 0 | 0.016279 | (0.00) |
| 4189 | 0.0174 | 0.4977 | 0.0086 | 0.0086 | | | | 0.5023 | 0.00874 | 0 | 0.01734 | (0.00) |
| 4189.5 | 0.0196 | 0.5798 | 0.0114 | 0.0104 | | | | 0.4202 | 0.008236 | 0.001 | 0.019636 | 0.00 |
| 4190 | 0.0394 | 0.5171 | 0.0204 | 0.0131 | | | | 0.4829 | 0.019026 | 0.0073 | 0.039426 | 0.00 |
| 4190.5 | 0.0774 | 0.3514 | 0.0272 | 0.0188 | | | | 0.6486 | 0.050202 | 0.0084 | 0.077402 | 0.00 |
| 4191 | 0.1318 | 0.303 | 0.0399 | 0.0269 | | | | 0.697 | 0.091865 | 0.013 | 0.131765 | (0.00) |
| 4191.5 | 0.1853 | 0.2772 | 0.0514 | 0.0345 | | | | 0.7228 | 0.133935 | 0.0169 | 0.185335 | 0.00 |
| 4192 | 0.2167 | 0.2737 | 0.0593 | 0.0389 | | | | 0.7263 | 0.157389 | 0.0204 | 0.216689 | (0.00) |
| 4192.5 | 0.2223 | 0.2808 | 0.0624 | 0.0396 | | | | 0.7192 | 0.159878 | 0.0228 | 0.222278 | (0.00) |
| 4193 | 0.2147 | 0.2822 | 0.0606 | 0.0389 | | | | 0.7178 | 0.154112 | 0.0217 | 0.214712 | 0.00 |
| 4193.5 | 0.2044 | 0.2771 | 0.0566 | 0.0386 | | | | 0.7229 | 0.147761 | 0.018 | 0.204361 | (0.00) |
| 4194 | 0.1969 | 0.2726 | 0.0537 | 0.0391 | | | | 0.7274 | 0.143225 | 0.0146 | 0.196925 | 0.00 |
| 4194.5 | 0.1958 | 0.2704 | 0.0529 | 0.0399 | | | | 0.7296 | 0.142856 | 0.013 | 0.195756 | (0.00) |
| 4195 | 0.1961 | 0.2725 | 0.0534 | 0.0397 | | | | 0.7275 | 0.142663 | 0.0137 | 0.196063 | (0.00) |
| 4195.5 | 0.1827 | 0.2836 | 0.0518 | 0.0368 | | | | 0.7164 | 0.130886 | 0.015 | 0.182686 | (0.00) |
| 4196 | 0.1626 | 0.2924 | 0.0475 | 0.0336 | | | | 0.7076 | 0.115056 | 0.0139 | 0.162556 | (0.00) |
| 4196.5 | 0.1556 | 0.2793 | 0.0434 | 0.0333 | | | | 0.7207 | 0.112141 | 0.0101 | 0.155541 | (0.00) |
| 4197 | 0.1553 | 0.2681 | 0.0416 | 0.0349 | | | | 0.7319 | 0.113664 | 0.0067 | 0.155264 | (0.00) |
| 4197.5 | 0.1609 | 0.2779 | 0.0447 | 0.0364 | | | | 0.7221 | 0.116186 | 0.0083 | 0.160886 | (0.00) |
| 4198 | 0.1672 | 0.3034 | 0.0507 | 0.0355 | | | | 0.6966 | 0.116472 | 0.0152 | 0.167172 | (0.00) |
| 4198.5 | 0.1788 | 0.3091 | 0.0553 | 0.035 | | | | 0.6909 | 0.123533 | 0.0203 | 0.178833 | 0.00 |
| 4199 | 0.1866 | 0.2977 | 0.0556 | 0.0351 | | | | 0.7023 | 0.131049 | 0.0205 | 0.186649 | 0.00 |
| 4199.5 | 0.1661 | 0.3039 | 0.0505 | 0.032 | | | | 0.6961 | 0.115622 | 0.0185 | 0.166122 | 0.00 |
| 4200 | 0.1119 | 0.3634 | 0.0407 | 0.0241 | | | | 0.6366 | 0.071236 | 0.0166 | 0.111936 | 0.00 |
| 4200.5 | 0.0604 | 0.486 | 0.0294 | 0.016 | | | | 0.514 | 0.031046 | 0.0134 | 0.060446 | 0.00 |
| 4201 | 0.0295 | 0.6811 | 0.0201 | 0.0108 | | | | 0.3189 | 0.009408 | 0.0093 | 0.029508 | 0.00 |
| 4201.5 | 0.0181 | 0.8372 | 0.0151 | 0.009 | | | | 0.1628 | 0.002947 | 0.0061 | 0.018047 | (0.00) |
| 4202 | 0.0183 | 0.7902 | 0.0145 | 0.0094 | | | | 0.2098 | 0.003839 | 0.0051 | 0.018339 | 0.00 |
| 4202.5 | 0.0265 | 0.6878 | 0.0182 | 0.011 | | | | 0.3122 | 0.008273 | 0.0072 | 0.026473 | (0.00) |
| 4203 | 0.0386 | 0.5206 | 0.0201 | 0.013 | | | | 0.4794 | 0.018505 | 0.0071 | 0.038605 | 0.00 |
| 4203.5 | 0.0462 | 0.5048 | 0.0233 | 0.0137 | | | | 0.4952 | 0.022878 | 0.0096 | 0.046178 | (0.00) |
| 4204 | 0.0539 | 0.4622 | 0.0249 | 0.0147 | | | | 0.5378 | 0.028987 | 0.0102 | 0.053887 | (0.00) |

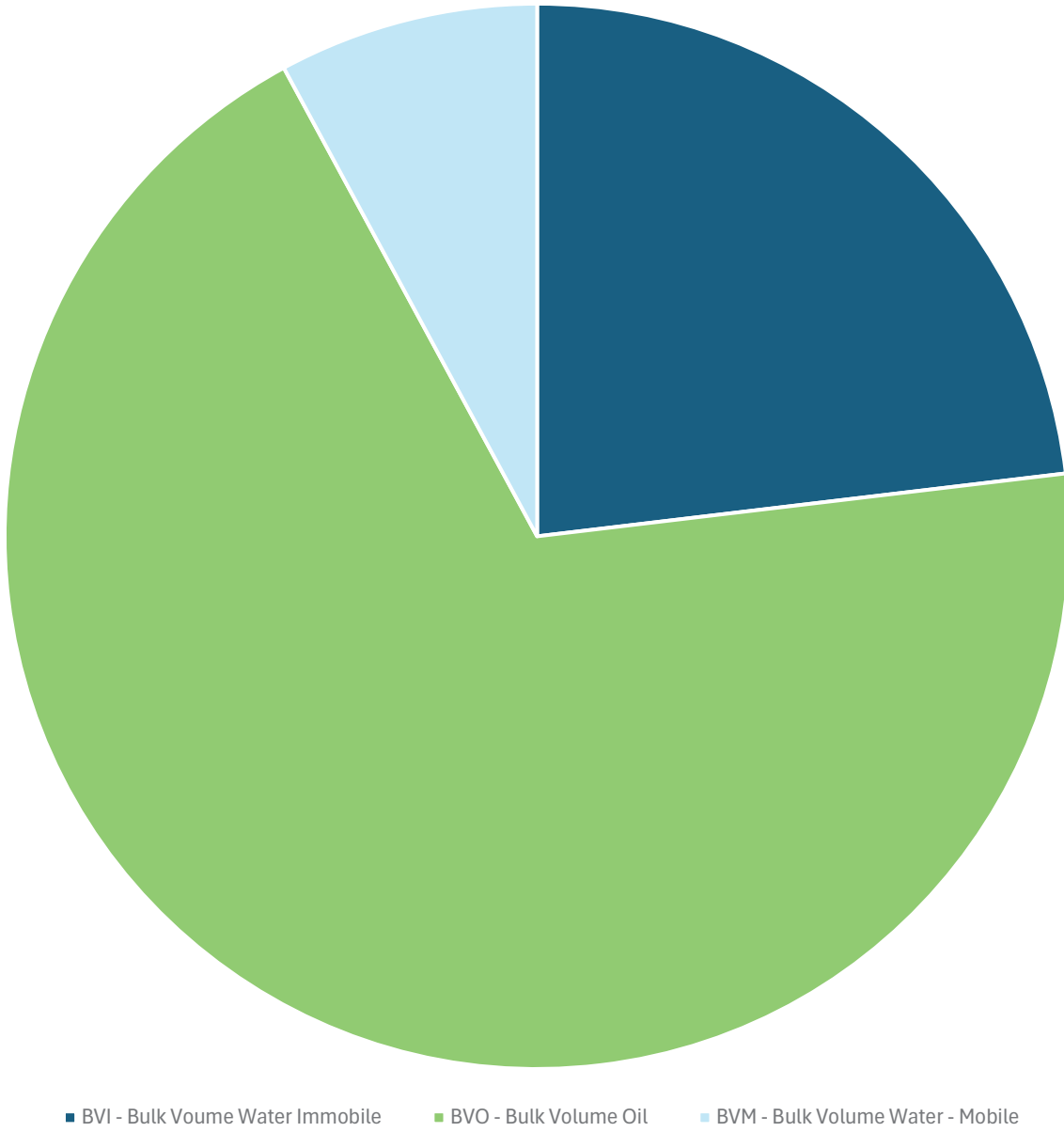
| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4204.5 | 0.0658 | 0.3872 | 0.0255 | 0.0169 | | | | 0.6128 | 0.040322 | 0.0086 | 0.065822 | 0.00 |
| 4205 | 0.0784 | 0.3235 | 0.0254 | 0.0196 | | | | 0.6765 | 0.053038 | 0.0058 | 0.078438 | 0.00 |
| 4205.5 | 0.0922 | 0.276 | 0.0254 | 0.0225 | | | | 0.724 | 0.066753 | 0.0029 | 0.092153 | (0.00) |
| 4206 | 0.1104 | 0.2371 | 0.0262 | 0.0257 | | | | 0.7629 | 0.084224 | 0.0005 | 0.110424 | 0.00 |
| 4206.5 | 0.1283 | 0.2098 | 0.0269 | 0.0269 | | | | 0.7902 | 0.101383 | 0 | 0.128283 | (0.00) |
| 4207 | 0.1375 | 0.1997 | 0.0274 | 0.0274 | | | | 0.8003 | 0.110041 | 0 | 0.137441 | (0.00) |
| 4207.5 | 0.1283 | 0.2154 | 0.0276 | 0.0276 | | | | 0.7846 | 0.100664 | 0 | 0.128264 | (0.00) |
| 4208 | 0.1027 | 0.268 | 0.0275 | 0.0228 | | | | 0.732 | 0.075176 | 0.0047 | 0.102676 | (0.00) |
| 4208.5 | 0.0733 | 0.367 | 0.0269 | 0.0177 | | | | 0.633 | 0.046399 | 0.0092 | 0.073299 | (0.00) |
| 4209 | 0.0527 | 0.4819 | 0.0254 | 0.0143 | | | | 0.5181 | 0.027304 | 0.0111 | 0.052704 | 0.00 |
| 4209.5 | 0.0458 | 0.5174 | 0.0237 | 0.0135 | | | | 0.4826 | 0.022103 | 0.0102 | 0.045803 | 0.00 |
| 4210 | 0.0434 | 0.5286 | 0.023 | 0.0132 | | | | 0.4714 | 0.020459 | 0.0098 | 0.043459 | 0.00 |
| 4210.5 | 0.045 | 0.5229 | 0.0235 | 0.0134 | | | | 0.4771 | 0.02147 | 0.0101 | 0.04497 | (0.00) |
| 4211 | 0.0414 | 0.5452 | 0.0225 | 0.0129 | | | | 0.4548 | 0.018829 | 0.0096 | 0.041329 | (0.00) |
| 4211.5 | 0.0369 | 0.5388 | 0.0199 | 0.0126 | | | | 0.4612 | 0.017018 | 0.0073 | 0.036918 | 0.00 |
| 4212 | 0.048 | 0.4444 | 0.0213 | 0.0148 | | | | 0.5556 | 0.026669 | 0.0065 | 0.047969 | (0.00) |
| 4212.5 | 0.0741 | 0.3384 | 0.0251 | 0.0188 | | | | 0.6616 | 0.049025 | 0.0063 | 0.074125 | 0.00 |
| 4213 | 0.0921 | 0.3003 | 0.0277 | 0.0208 | | | | 0.6997 | 0.064442 | 0.0069 | 0.092142 | 0.00 |
| 4213.5 | 0.0826 | 0.3426 | 0.0283 | 0.0187 | | | | 0.6574 | 0.054301 | 0.0096 | 0.082601 | 0.00 |
| 4214 | 0.0549 | 0.4946 | 0.0272 | 0.0142 | | | | 0.5054 | 0.027746 | 0.013 | 0.054946 | 0.00 |
| 4214.5 | 0.0297 | 0.8182 | 0.0243 | 0.0102 | | | | 0.1818 | 0.005399 | 0.0141 | 0.029699 | (0.00) |
| 4215 | 0.0204 | 1 | 0.0204 | 0.0088 | | | | 0 | 0 | 0.0116 | 0.0204 | - |
| 4215.5 | 0.0216 | 0.9508 | 0.0206 | 0.0091 | | | | 0.0492 | 0.001063 | 0.0115 | 0.021663 | 0.00 |
| 4216 | 0.03 | 0.7021 | 0.021 | 0.0108 | | | | 0.2979 | 0.008937 | 0.0102 | 0.029937 | (0.00) |
| 4216.5 | 0.0547 | 0.4631 | 0.0253 | 0.0152 | | | | 0.5369 | 0.029368 | 0.0101 | 0.054668 | (0.00) |
| 4217 | 0.067 | 0.4138 | 0.0277 | 0.0181 | | | | 0.5862 | 0.039275 | 0.0096 | 0.066975 | (0.00) |
| 4217.5 | 0.0579 | 0.4127 | 0.0239 | 0.0178 | | | | 0.5873 | 0.034005 | 0.0061 | 0.057905 | 0.00 |
| 4218 | 0.033 | 0.439 | 0.0145 | 0.0139 | | | | 0.561 | 0.018513 | 0.0006 | 0.033013 | 0.00 |
| 4218.5 | 0.021 | 0.5556 | 0.0117 | 0.0108 | | | | 0.4444 | 0.009332 | 0.0009 | 0.021032 | 0.00 |
| 4219 | 0.0386 | 0.5351 | 0.0207 | 0.0128 | | | | 0.4649 | 0.017945 | 0.0079 | 0.038645 | 0.00 |
| 4219.5 | 0.0801 | 0.4396 | 0.0352 | 0.0189 | | | | 0.5604 | 0.044888 | 0.0163 | 0.080088 | (0.00) |
| 4220 | 0.1313 | 0.3673 | 0.0482 | 0.0269 | | | | 0.6327 | 0.083074 | 0.0213 | 0.131274 | (0.00) |
| 4220.5 | 0.1757 | 0.3378 | 0.0594 | 0.0338 | | | | 0.6622 | 0.116349 | 0.0256 | 0.175749 | 0.00 |
| 4221 | 0.2063 | 0.3266 | 0.0674 | 0.0385 | | | | 0.6734 | 0.138922 | 0.0289 | 0.206322 | 0.00 |
| 4221.5 | 0.2229 | 0.3233 | 0.0721 | 0.0412 | | | | 0.6767 | 0.150836 | 0.0309 | 0.222936 | 0.00 |
| 4222 | 0.2229 | 0.3302 | 0.0736 | 0.0415 | | | | 0.6698 | 0.149298 | 0.0321 | 0.222898 | (0.00) |
| 4222.5 | 0.2161 | 0.3337 | 0.0721 | 0.0406 | | | | 0.6663 | 0.143987 | 0.0315 | 0.216087 | (0.00) |
| 4223 | 0.2107 | 0.3237 | 0.0682 | 0.0398 | | | | 0.6763 | 0.142496 | 0.0284 | 0.210696 | (0.00) |
| 4223.5 | 0.2034 | 0.3083 | 0.0627 | 0.0382 | | | | 0.6917 | 0.140692 | 0.0245 | 0.203392 | (0.00) |
| 4224 | 0.186 | 0.2943 | 0.0548 | 0.0357 | | | | 0.7057 | 0.13126 | 0.0191 | 0.18606 | 0.00 |
| 4224.5 | 0.1619 | 0.2791 | 0.0452 | 0.0327 | | | | 0.7209 | 0.116714 | 0.0125 | 0.161914 | 0.00 |
| 4225 | 0.1298 | 0.2697 | 0.035 | 0.0285 | | | | 0.7303 | 0.094793 | 0.0065 | 0.129793 | (0.00) |
| 4225.5 | 0.1024 | 0.2606 | 0.0267 | 0.0235 | | | | 0.7394 | 0.075715 | 0.0032 | 0.102415 | 0.00 |
| 4226 | 0.0865 | 0.3186 | 0.0275 | 0.0198 | | | | 0.6814 | 0.058941 | 0.0077 | 0.086441 | (0.00) |
| 4226.5 | 0.0803 | 0.3544 | 0.0284 | 0.0182 | | | | 0.6456 | 0.051842 | 0.0102 | 0.080242 | (0.00) |
| 4227 | 0.079 | 0.3525 | 0.0278 | 0.0182 | | | | 0.6475 | 0.051153 | 0.0096 | 0.078953 | (0.00) |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|---------|----------|----------|----------|------------|------------|----------|------------|------------|----------|----------|
| | | | | | | | | | | Sum BV's | Phie-BVT |
| 4227.5 | 0.0746 | 0.3317 | 0.0248 | 0.0192 | | 0.6683 | 0.049855 | 0.0056 | 0.074655 | 0.00 | |
| 4228 | 0.0719 | 0.3007 | 0.0216 | 0.0209 | | 0.6993 | 0.05028 | 0.0007 | 0.07188 | (0.00) | |
| 4228.5 | 0.0836 | 0.2657 | 0.0222 | 0.0222 | | 0.7343 | 0.061387 | 0 | 0.083587 | (0.00) | |
| 4229 | 0.108 | 0.241 | 0.026 | 0.0253 | | 0.759 | 0.081972 | 0.0007 | 0.107972 | (0.00) | |
| 4229.5 | 0.1251 | 0.2296 | 0.0287 | 0.0258 | | 0.7704 | 0.096377 | 0.0029 | 0.125077 | (0.00) | |
| 4230 | 0.1285 | 0.2498 | 0.0321 | 0.0253 | | 0.7502 | 0.096401 | 0.0068 | 0.128501 | 0.00 | |
| 4230.5 | 0.1284 | 0.2721 | 0.0349 | 0.0253 | | 0.7279 | 0.093462 | 0.0096 | 0.128362 | (0.00) | |
| 4231 | 0.1312 | 0.2734 | 0.0359 | 0.0257 | | 0.7266 | 0.09533 | 0.0102 | 0.13123 | 0.00 | |
| 4231.5 | 0.1303 | 0.2645 | 0.0345 | 0.026 | | 0.7355 | 0.095836 | 0.0085 | 0.130336 | 0.00 | |
| 4232 | 0.1216 | 0.2644 | 0.0321 | 0.025 | | 0.7356 | 0.089449 | 0.0071 | 0.121549 | (0.00) | |
| 4232.5 | 0.1159 | 0.2609 | 0.0302 | 0.0242 | | 0.7391 | 0.085662 | 0.006 | 0.115862 | (0.00) | |
| 4233 | 0.1184 | 0.2505 | 0.0297 | 0.0245 | | 0.7495 | 0.088741 | 0.0052 | 0.118441 | 0.00 | |
| 4233.5 | 0.1206 | 0.2414 | 0.0291 | 0.0255 | | 0.7586 | 0.091487 | 0.0036 | 0.120587 | (0.00) | |
| 4234 | 0.115 | 0.2298 | 0.0264 | 0.0264 | | 0.7702 | 0.088573 | 0 | 0.114973 | (0.00) | |
| 4234.5 | 0.1012 | 0.2286 | 0.0231 | 0.0231 | | 0.7714 | 0.078066 | 0 | 0.101166 | (0.00) | |
| 4235 | 0.0862 | 0.2356 | 0.0203 | 0.0203 | | 0.7644 | 0.065891 | 0 | 0.086191 | (0.00) | |
| 4235.5 | 0.0721 | 0.2665 | 0.0192 | 0.0192 | | 0.7335 | 0.052885 | 0 | 0.072085 | (0.00) | |
| 4236 | 0.0544 | 0.364 | 0.0198 | 0.0173 | | 0.636 | 0.034598 | 0.0025 | 0.054398 | (0.00) | |
| | 0.10045 | 0.358204 | 0.031146 | 0.023218 | | 0.641796 | 0.069302 | 0.007927 | | | |

EMSU 673 Empire Log Analysis 3986 - 4002 ft.



EMSU 673 Empire Log Analysis 4084 - 4236 ft.

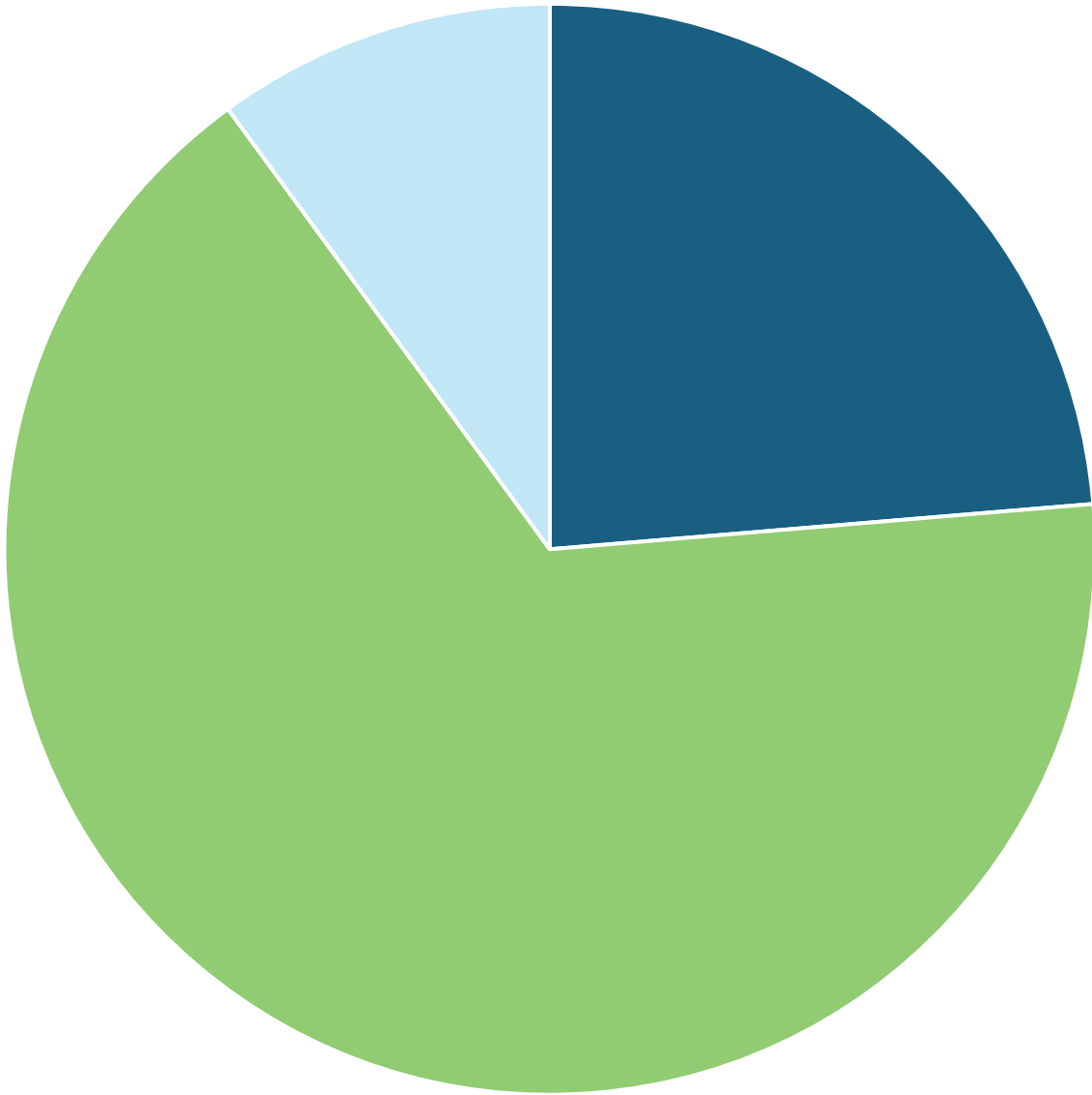


| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| 4130 | 0.0415 | 0.4628 | 0.0192 | 0.0142 | | | | 0.5372 | 0.022294 | 0.005 | 0.041494 | (0.00) |
| 4130.5 | 0.0642 | 0.3677 | 0.0236 | 0.0178 | | | | 0.6323 | 0.040594 | 0.0058 | 0.064194 | (0.00) |
| 4131 | 0.0904 | 0.3294 | 0.0298 | 0.0219 | | | | 0.6706 | 0.060622 | 0.0079 | 0.090422 | 0.00 |
| 4131.5 | 0.1103 | 0.3019 | 0.0333 | 0.0252 | | | | 0.6981 | 0.077 | 0.0081 | 0.1103 | 0.00 |
| 4132 | 0.1209 | 0.2879 | 0.0348 | 0.0271 | | | | 0.7121 | 0.086093 | 0.0077 | 0.120893 | (0.00) |
| 4132.5 | 0.1217 | 0.2939 | 0.0358 | 0.0274 | | | | 0.7061 | 0.085932 | 0.0084 | 0.121732 | 0.00 |
| 4133 | 0.1171 | 0.3115 | 0.0365 | 0.0268 | | | | 0.6885 | 0.080623 | 0.0097 | 0.117123 | 0.00 |
| 4133.5 | 0.1115 | 0.3273 | 0.0365 | 0.0261 | | | | 0.6727 | 0.075006 | 0.0104 | 0.111506 | 0.00 |
| 4134 | 0.1044 | 0.3351 | 0.035 | 0.0254 | | | | 0.6649 | 0.069416 | 0.0096 | 0.104416 | 0.00 |
| 4134.5 | 0.0891 | 0.3317 | 0.0296 | 0.0238 | | | | 0.6683 | 0.059546 | 0.0058 | 0.089146 | 0.00 |
| 4135 | 0.054 | 0.3697 | 0.02 | 0.0179 | | | | 0.6303 | 0.034036 | 0.0021 | 0.054036 | 0.00 |
| 4135.5 | 0.032 | 0.4579 | 0.0147 | 0.0134 | | | | 0.5421 | 0.017347 | 0.0013 | 0.032047 | 0.00 |
| 4136 | 0.0499 | 0.4112 | 0.0205 | 0.0158 | | | | 0.5888 | 0.029381 | 0.0047 | 0.049881 | (0.00) |
| 4136.5 | 0.0727 | 0.3504 | 0.0255 | 0.0186 | | | | 0.6496 | 0.047226 | 0.0069 | 0.072726 | 0.00 |
| 4137 | 0.0929 | 0.3022 | 0.0281 | 0.0211 | | | | 0.6978 | 0.064826 | 0.007 | 0.092926 | 0.00 |
| 4137.5 | 0.1054 | 0.2766 | 0.0292 | 0.0226 | | | | 0.7234 | 0.076246 | 0.0066 | 0.105446 | 0.00 |
| 4138 | 0.1096 | 0.2711 | 0.0297 | 0.0231 | | | | 0.7289 | 0.079887 | 0.0066 | 0.109587 | (0.00) |
| 4138.5 | 0.1082 | 0.2984 | 0.0323 | 0.0228 | | | | 0.7016 | 0.075913 | 0.0095 | 0.108213 | 0.00 |
| 4139 | 0.1095 | 0.3358 | 0.0368 | 0.023 | | | | 0.6642 | 0.07273 | 0.0138 | 0.10953 | 0.00 |
| 4139.5 | 0.1187 | 0.3595 | 0.0427 | 0.0245 | | | | 0.6405 | 0.076027 | 0.0182 | 0.118727 | 0.00 |
| 4140 | 0.1268 | 0.3704 | 0.047 | 0.0257 | | | | 0.6296 | 0.079833 | 0.0213 | 0.126833 | 0.00 |
| 4140.5 | 0.1292 | 0.366 | 0.0473 | 0.0261 | | | | 0.634 | 0.081913 | 0.0212 | 0.129213 | 0.00 |
| 4141 | 0.1271 | 0.3496 | 0.0444 | 0.0258 | | | | 0.6504 | 0.082666 | 0.0186 | 0.127066 | (0.00) |
| 4141.5 | 0.1124 | 0.346 | 0.0389 | 0.0238 | | | | 0.654 | 0.07351 | 0.0151 | 0.11241 | 0.00 |
| 4142 | 0.0874 | 0.3704 | 0.0324 | 0.0201 | | | | 0.6296 | 0.055027 | 0.0123 | 0.087427 | 0.00 |
| 4142.5 | 0.0635 | 0.4291 | 0.0273 | 0.0164 | | | | 0.5709 | 0.036252 | 0.0109 | 0.063552 | 0.00 |
| 4143 | 0.0555 | 0.4613 | 0.0256 | 0.015 | | | | 0.5387 | 0.029898 | 0.0106 | 0.055498 | (0.00) |
| 4143.5 | 0.0662 | 0.4047 | 0.0268 | 0.0167 | | | | 0.5953 | 0.039409 | 0.0101 | 0.066209 | 0.00 |
| 4144 | 0.0734 | 0.3741 | 0.0274 | 0.0177 | | | | 0.6259 | 0.045941 | 0.0097 | 0.073341 | (0.00) |
| 4144.5 | 0.0732 | 0.3726 | 0.0273 | 0.0178 | | | | 0.6274 | 0.045926 | 0.0095 | 0.073226 | 0.00 |
| 4145 | 0.0648 | 0.4145 | 0.0269 | 0.0164 | | | | 0.5855 | 0.03794 | 0.0105 | 0.06484 | 0.00 |
| 4145.5 | 0.0527 | 0.4797 | 0.0253 | 0.0146 | | | | 0.5203 | 0.02742 | 0.0107 | 0.05272 | 0.00 |
| 4146 | 0.0419 | 0.486 | 0.0203 | 0.0138 | | | | 0.514 | 0.021537 | 0.0065 | 0.041837 | (0.00) |
| 4146.5 | 0.0397 | 0.4412 | 0.0175 | 0.0161 | | | | 0.5588 | 0.022184 | 0.0014 | 0.039684 | (0.00) |
| 4147 | 0.0476 | 0.3924 | 0.0187 | 0.0187 | | | | 0.6076 | 0.028922 | 0 | 0.047622 | 0.00 |
| 4147.5 | 0.0597 | 0.3736 | 0.0223 | 0.0223 | | | | 0.6264 | 0.037396 | 0 | 0.059696 | (0.00) |
| 4148 | 0.0594 | 0.4054 | 0.0241 | 0.0209 | | | | 0.5946 | 0.035319 | 0.0032 | 0.059419 | 0.00 |
| 4148.5 | 0.0582 | 0.4205 | 0.0245 | 0.0189 | | | | 0.5795 | 0.033727 | 0.0056 | 0.058227 | 0.00 |
| 4149 | 0.069 | 0.3492 | 0.0241 | 0.0204 | | | | 0.6508 | 0.044905 | 0.0037 | 0.069005 | 0.00 |
| 4149.5 | 0.0842 | 0.2791 | 0.0235 | 0.0229 | | | | 0.7209 | 0.0607 | 0.0006 | 0.0842 | (0.00) |
| 4150 | 0.0972 | 0.2539 | 0.0247 | 0.0247 | | | | 0.7461 | 0.072521 | 0 | 0.097221 | 0.00 |
| 4150.5 | 0.0997 | 0.2518 | 0.0251 | 0.0251 | | | | 0.7482 | 0.074596 | 0 | 0.099696 | (0.00) |
| 4151 | 0.0894 | 0.2787 | 0.0249 | 0.0228 | | | | 0.7213 | 0.064484 | 0.0021 | 0.089384 | (0.00) |
| 4151.5 | 0.0686 | 0.3432 | 0.0236 | 0.0189 | | | | 0.6568 | 0.045056 | 0.0047 | 0.068656 | 0.00 |
| 4152 | 0.0552 | 0.4037 | 0.0223 | 0.0163 | | | | 0.5963 | 0.032916 | 0.006 | 0.055216 | 0.00 |
| 4152.5 | 0.0559 | 0.4074 | 0.0228 | 0.0163 | | | | 0.5926 | 0.033126 | 0.0065 | 0.055926 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|-------|------|--------|------------|------------|----------|--------|
| | | | | | | | | | | | Sum | BV's |
| 4153 | 0.0629 | 0.3801 | 0.0239 | 0.0173 | | | | 0.6199 | 0.038992 | 0.0066 | 0.062892 | (0.00) |
| 4153.5 | 0.0708 | 0.3455 | 0.0244 | 0.0188 | | | | 0.6545 | 0.046339 | 0.0056 | 0.070739 | (0.00) |
| 4154 | 0.0763 | 0.32 | 0.0244 | 0.0201 | | | | 0.68 | 0.051884 | 0.0043 | 0.076284 | (0.00) |
| 4154.5 | 0.0823 | 0.2975 | 0.0245 | 0.0215 | | | | 0.7025 | 0.057816 | 0.003 | 0.082316 | 0.00 |
| 4155 | 0.0978 | 0.2604 | 0.0255 | 0.0242 | | | | 0.7396 | 0.072333 | 0.0013 | 0.097833 | 0.00 |
| 4155.5 | 0.1214 | 0.2938 | 0.0357 | 0.028 | | | | 0.7062 | 0.085733 | 0.0077 | 0.121433 | 0.00 |
| 4156 | 0.1411 | 0.3459 | 0.0488 | 0.0306 | | | | 0.6541 | 0.092294 | 0.0182 | 0.141094 | (0.00) |
| 4156.5 | 0.1301 | 0.4638 | 0.0603 | 0.0281 | | | | 0.5362 | 0.06976 | 0.0322 | 0.13006 | (0.00) |
| 4157 | 0.0855 | 0.7865 | 0.0673 | 0.0203 | | | | 0.2135 | 0.018254 | 0.047 | 0.085554 | 0.00 |
| 4157.5 | 0.0497 | 1 | 0.0497 | 0.0141 | | | | 0 | 0 | 0.0356 | 0.0497 | - |
| 4158 | 0.0384 | 1 | 0.0384 | 0.0122 | | | | 0 | 0 | 0.0262 | 0.0384 | - |
| 4158.5 | 0.046 | 1 | 0.046 | 0.0135 | | | | 0 | 0 | 0.0325 | 0.046 | - |
| 4159 | 0.0679 | 0.9649 | 0.0655 | 0.0172 | | | | 0.0351 | 0.002383 | 0.0483 | 0.067883 | (0.00) |
| 4159.5 | 0.0909 | 0.6558 | 0.0596 | 0.021 | | | | 0.3442 | 0.031288 | 0.0386 | 0.090888 | (0.00) |
| 4160 | 0.1036 | 0.4923 | 0.051 | 0.0231 | | | | 0.5077 | 0.052598 | 0.0279 | 0.103598 | (0.00) |
| 4160.5 | 0.1068 | 0.3968 | 0.0424 | 0.0236 | | | | 0.6032 | 0.064422 | 0.0188 | 0.106822 | 0.00 |
| 4161 | 0.1106 | 0.3123 | 0.0345 | 0.0242 | | | | 0.6877 | 0.07606 | 0.0103 | 0.11056 | (0.00) |
| 4161.5 | 0.1191 | 0.2529 | 0.0301 | 0.0253 | | | | 0.7471 | 0.08898 | 0.0048 | 0.11908 | (0.00) |
| 4162 | 0.1255 | 0.2319 | 0.0291 | 0.0262 | | | | 0.7681 | 0.096397 | 0.0029 | 0.125497 | (0.00) |
| 4162.5 | 0.1375 | 0.2139 | 0.0294 | 0.0281 | | | | 0.7861 | 0.108089 | 0.0013 | 0.137489 | (0.00) |
| 4163 | 0.1491 | 0.1926 | 0.0287 | 0.0287 | | | | 0.8074 | 0.120383 | 0 | 0.149083 | (0.00) |
| 4163.5 | 0.153 | 0.188 | 0.0288 | 0.0288 | | | | 0.812 | 0.124236 | 0 | 0.153036 | 0.00 |
| 4164 | 0.1352 | 0.2107 | 0.0285 | 0.0285 | | | | 0.7893 | 0.106713 | 0 | 0.135213 | 0.00 |
| 4164.5 | 0.1024 | 0.2722 | 0.0279 | 0.0232 | | | | 0.7278 | 0.074527 | 0.0047 | 0.102427 | 0.00 |
| 4165 | 0.1006 | 0.3004 | 0.0302 | 0.0228 | | | | 0.6996 | 0.07038 | 0.0074 | 0.10058 | (0.00) |
| 4165.5 | 0.1297 | 0.2568 | 0.0333 | 0.0278 | | | | 0.7432 | 0.096393 | 0.0055 | 0.129693 | (0.00) |
| 4166 | 0.1482 | 0.2465 | 0.0365 | 0.031 | | | | 0.7535 | 0.111669 | 0.0055 | 0.148169 | (0.00) |
| 4166.5 | 0.156 | 0.2544 | 0.0397 | 0.0323 | | | | 0.7456 | 0.116314 | 0.0074 | 0.156014 | 0.00 |
| 4167 | 0.1535 | 0.2721 | 0.0418 | 0.0319 | | | | 0.7279 | 0.111733 | 0.0099 | 0.153533 | 0.00 |
| 4167.5 | 0.151 | 0.2813 | 0.0425 | 0.0314 | | | | 0.7187 | 0.108524 | 0.0111 | 0.151024 | 0.00 |
| 4168 | 0.1499 | 0.2709 | 0.0406 | 0.0312 | | | | 0.7291 | 0.109292 | 0.0094 | 0.149892 | (0.00) |
| 4168.5 | 0.143 | 0.2498 | 0.0357 | 0.0301 | | | | 0.7502 | 0.107279 | 0.0056 | 0.142979 | (0.00) |
| 4169 | 0.1335 | 0.224 | 0.0299 | 0.0285 | | | | 0.776 | 0.103596 | 0.0014 | 0.133496 | (0.00) |
| 4169.5 | 0.1247 | 0.2267 | 0.0283 | 0.027 | | | | 0.7733 | 0.096431 | 0.0013 | 0.124731 | 0.00 |
| 4170 | 0.1215 | 0.2321 | 0.0282 | 0.0264 | | | | 0.7679 | 0.0933 | 0.0018 | 0.1215 | (0.00) |
| 4170.5 | 0.1165 | 0.2411 | 0.0281 | 0.0256 | | | | 0.7589 | 0.088412 | 0.0025 | 0.116512 | 0.00 |
| 4171 | 0.1067 | 0.2607 | 0.0278 | 0.0239 | | | | 0.7393 | 0.078883 | 0.0039 | 0.106683 | (0.00) |
| 4171.5 | 0.0894 | 0.3049 | 0.0272 | 0.0209 | | | | 0.6951 | 0.062142 | 0.0063 | 0.089342 | (0.00) |
| 4172 | 0.0739 | 0.3587 | 0.0265 | 0.0183 | | | | 0.6413 | 0.047392 | 0.0082 | 0.073892 | (0.00) |
| 4172.5 | 0.0726 | 0.3644 | 0.0264 | 0.0181 | | | | 0.6356 | 0.046145 | 0.0083 | 0.072545 | (0.00) |
| 4173 | 0.0792 | 0.3383 | 0.0268 | 0.0192 | | | | 0.6617 | 0.052407 | 0.0076 | 0.079207 | 0.00 |
| 4173.5 | 0.0896 | 0.3091 | 0.0277 | 0.021 | | | | 0.6909 | 0.061905 | 0.0067 | 0.089605 | 0.00 |
| 4174 | 0.0965 | 0.3109 | 0.03 | 0.0222 | | | | 0.6891 | 0.066498 | 0.0078 | 0.096498 | (0.00) |
| 4174.5 | 0.0994 | 0.3149 | 0.0313 | 0.0226 | | | | 0.6851 | 0.068099 | 0.0087 | 0.099399 | (0.00) |
| 4175 | 0.1 | 0.3169 | 0.0317 | 0.0227 | | | | 0.6831 | 0.06831 | 0.009 | 0.10001 | 0.00 |
| 4175.5 | 0.1022 | 0.3118 | 0.0319 | 0.0231 | | | | 0.6882 | 0.070334 | 0.0088 | 0.102234 | 0.00 |

| ~A | DEPT | PHIE | SW | BVW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|----|--------|----------|---------|----------|------------|-------|------|---------|------------|------------|----------|----------|
| | | | | | | | | | | | Sum BV's | Phie-BVT |
| | 4176 | 0.1007 | 0.3115 | 0.0314 | 0.0229 | | | 0.6885 | 0.069332 | 0.0085 | 0.100732 | 0.00 |
| | 4176.5 | 0.1017 | 0.2965 | 0.0302 | 0.023 | | | 0.7035 | 0.071546 | 0.0072 | 0.101746 | 0.00 |
| | 4177 | 0.1037 | 0.2731 | 0.0283 | 0.0234 | | | 0.7269 | 0.07538 | 0.0049 | 0.10368 | (0.00) |
| | 4177.5 | 0.1031 | 0.2689 | 0.0277 | 0.0233 | | | 0.7311 | 0.075376 | 0.0044 | 0.103076 | (0.00) |
| | 4178 | 0.0935 | 0.293 | 0.0274 | 0.0216 | | | 0.707 | 0.066105 | 0.0058 | 0.093505 | 0.00 |
| | 4178.5 | 0.0825 | 0.3265 | 0.0269 | 0.0198 | | | 0.6735 | 0.055564 | 0.0071 | 0.082464 | (0.00) |
| | 4179 | 0.0816 | 0.3296 | 0.0269 | 0.0196 | | | 0.6704 | 0.054705 | 0.0073 | 0.081605 | 0.00 |
| | 4179.5 | 0.0819 | 0.3288 | 0.0269 | 0.0197 | | | 0.6712 | 0.054971 | 0.0072 | 0.081871 | (0.00) |
| | 4180 | 0.076 | 0.352 | 0.0267 | 0.0186 | | | 0.648 | 0.049248 | 0.0081 | 0.075948 | (0.00) |
| | 4180.5 | 0.066 | 0.4082 | 0.0269 | 0.0169 | | | 0.5918 | 0.039059 | 0.01 | 0.065959 | (0.00) |
| | 4181 | 0.0561 | 0.4504 | 0.0253 | 0.0153 | | | 0.5496 | 0.030833 | 0.01 | 0.056133 | 0.00 |
| | 4181.5 | 0.0322 | 0.6756 | 0.0217 | 0.0112 | | | 0.3244 | 0.010446 | 0.0105 | 0.032146 | (0.00) |
| | 4182 | 0.017 | 0.9592 | 0.0163 | 0.0086 | | | 0.0408 | 0.000694 | 0.0077 | 0.016994 | (0.00) |
| | | 0.092566 | 0.37147 | 0.031216 | 0.021916 | | | 0.62853 | 0.061353 | 0.0093 | | |

EMSU 713 Empire Log Analysis 4130 - TD ft.



■ BVI - Bulk Voume Water Immobile ■ BVO - Bulk Volume Oil ■ BVM - Bulk Volume Water - Mobile

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|------------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Water | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4084 | 0.0571 | 0.766 | 0.0437 | 0.0142 | 0.234 | 0.013361 | 0.0295 | 0.057061 | (0.00) | |
| 4084.5 | 0.0722 | 0.5943 | 0.0429 | 0.0169 | 0.4057 | 0.029292 | 0.026 | 0.072192 | (0.00) | |
| 4085 | 0.0877 | 0.4879 | 0.0428 | 0.0197 | 0.5121 | 0.044911 | 0.0231 | 0.087711 | 0.00 | |
| 4085.5 | 0.0915 | 0.4874 | 0.0446 | 0.0203 | 0.5126 | 0.046903 | 0.0243 | 0.091503 | 0.00 | |
| 4086 | 0.0776 | 0.5864 | 0.0455 | 0.0178 | 0.4136 | 0.032095 | 0.0277 | 0.077595 | (0.00) | |
| 4086.5 | 0.0605 | 0.7175 | 0.0434 | 0.0149 | 0.2825 | 0.017091 | 0.0285 | 0.060491 | (0.00) | |
| 4087 | 0.0672 | 0.6012 | 0.0404 | 0.0157 | 0.3988 | 0.026799 | 0.0247 | 0.067199 | (0.00) | |
| 4087.5 | 0.082 | 0.4379 | 0.0359 | 0.0178 | 0.5621 | 0.046092 | 0.0181 | 0.081992 | (0.00) | |
| 4088 | 0.0948 | 0.3734 | 0.0354 | 0.0199 | 0.6266 | 0.059402 | 0.0155 | 0.094802 | 0.00 | |
| 4088.5 | 0.1004 | 0.3658 | 0.0367 | 0.021 | 0.6342 | 0.063674 | 0.0157 | 0.100374 | (0.00) | |
| 4089 | 0.1023 | 0.3857 | 0.0395 | 0.022 | 0.6143 | 0.062843 | 0.0175 | 0.102343 | 0.00 | |
| 4089.5 | 0.1057 | 0.3918 | 0.0414 | 0.024 | 0.6082 | 0.064287 | 0.0174 | 0.105687 | (0.00) | |
| 4090 | 0.1117 | 0.3582 | 0.04 | 0.0266 | 0.6418 | 0.071689 | 0.0134 | 0.111689 | (0.00) | |
| 4090.5 | 0.1077 | 0.3475 | 0.0374 | 0.0257 | 0.6525 | 0.070274 | 0.0117 | 0.107674 | (0.00) | |
| 4091 | 0.0941 | 0.3834 | 0.0361 | 0.0219 | 0.6166 | 0.058022 | 0.0142 | 0.094122 | 0.00 | |
| 4091.5 | 0.0937 | 0.3859 | 0.0362 | 0.0211 | 0.6141 | 0.057541 | 0.0151 | 0.093741 | 0.00 | |
| 4092 | 0.101 | 0.3746 | 0.0378 | 0.022 | 0.6254 | 0.063165 | 0.0158 | 0.100965 | (0.00) | |
| 4092.5 | 0.1176 | 0.3356 | 0.0395 | 0.0247 | 0.6644 | 0.078133 | 0.0148 | 0.117633 | 0.00 | |
| 4093 | 0.1295 | 0.3115 | 0.0403 | 0.0266 | 0.6885 | 0.089161 | 0.0137 | 0.129461 | (0.00) | |
| 4093.5 | 0.1303 | 0.3097 | 0.0403 | 0.0271 | 0.6903 | 0.089946 | 0.0132 | 0.130246 | (0.00) | |
| 4094 | 0.1149 | 0.3422 | 0.0393 | 0.0254 | 0.6578 | 0.075581 | 0.0139 | 0.114881 | (0.00) | |
| 4094.5 | 0.0972 | 0.4078 | 0.0396 | 0.023 | 0.5922 | 0.057562 | 0.0166 | 0.097162 | (0.00) | |
| 4095 | 0.0908 | 0.4798 | 0.0436 | 0.0216 | 0.5202 | 0.047234 | 0.022 | 0.090834 | 0.00 | |
| 4095.5 | 0.093 | 0.5384 | 0.0501 | 0.021 | 0.4616 | 0.042929 | 0.0291 | 0.093029 | 0.00 | |
| 4096 | 0.1021 | 0.5752 | 0.0587 | 0.0214 | 0.4248 | 0.043372 | 0.0373 | 0.102072 | (0.00) | |
| 4096.5 | 0.1176 | 0.5575 | 0.0656 | 0.0232 | 0.4425 | 0.052038 | 0.0424 | 0.117638 | 0.00 | |
| 4097 | 0.1357 | 0.5248 | 0.0712 | 0.0257 | 0.4752 | 0.064485 | 0.0455 | 0.135685 | (0.00) | |
| 4097.5 | 0.1518 | 0.4818 | 0.0731 | 0.0279 | 0.5182 | 0.078663 | 0.0452 | 0.151763 | (0.00) | |
| 4098 | 0.1591 | 0.4576 | 0.0728 | 0.029 | 0.5424 | 0.086296 | 0.0438 | 0.159096 | (0.00) | |
| 4098.5 | 0.1614 | 0.4305 | 0.0695 | 0.0292 | 0.5695 | 0.091917 | 0.0403 | 0.161417 | 0.00 | |
| 4099 | 0.1561 | 0.4063 | 0.0634 | 0.0285 | 0.5937 | 0.092677 | 0.0349 | 0.156077 | (0.00) | |
| 4099.5 | 0.143 | 0.3931 | 0.0562 | 0.0268 | 0.6069 | 0.086787 | 0.0294 | 0.142987 | (0.00) | |
| 4100 | 0.1235 | 0.3768 | 0.0465 | 0.0246 | 0.6232 | 0.076965 | 0.0219 | 0.123465 | (0.00) | |
| 4100.5 | 0.0992 | 0.3381 | 0.0335 | 0.0224 | 0.6619 | 0.06566 | 0.0111 | 0.09916 | (0.00) | |
| 4101 | 0.088 | 0.2461 | 0.0217 | 0.0217 | 0.7539 | 0.066343 | 0 | 0.088043 | 0.00 | |
| 4101.5 | 0.0696 | 0.2254 | 0.0157 | 0.0157 | 0.7746 | 0.053912 | 0 | 0.069612 | 0.00 | |
| 4102 | 0.0539 | 0.2652 | 0.0143 | 0.0143 | 0.7348 | 0.039606 | 0 | 0.053906 | 0.00 | |
| 4102.5 | 0.0454 | 0.3479 | 0.0158 | 0.0152 | 0.6521 | 0.029605 | 0.0006 | 0.045405 | 0.00 | |
| 4103 | 0.0459 | 0.4009 | 0.0184 | 0.0147 | 0.5991 | 0.027499 | 0.0037 | 0.045899 | (0.00) | |
| 4103.5 | 0.0652 | 0.3493 | 0.0228 | 0.0178 | 0.6507 | 0.042426 | 0.005 | 0.065226 | 0.00 | |
| 4104 | 0.0882 | 0.3041 | 0.0268 | 0.0214 | 0.6959 | 0.061378 | 0.0054 | 0.088178 | (0.00) | |
| 4104.5 | 0.1056 | 0.2819 | 0.0298 | 0.0244 | 0.7181 | 0.075831 | 0.0054 | 0.105631 | 0.00 | |
| 4105 | 0.1227 | 0.258 | 0.0316 | 0.0277 | 0.742 | 0.091043 | 0.0039 | 0.122643 | (0.00) | |
| 4105.5 | 0.1383 | 0.2413 | 0.0334 | 0.0307 | 0.7587 | 0.104928 | 0.0027 | 0.138328 | 0.00 | |
| 4106 | 0.1474 | 0.2289 | 0.0337 | 0.0327 | 0.7711 | 0.11366 | 0.001 | 0.14736 | (0.00) | |
| 4106.5 | 0.1486 | 0.2282 | 0.0339 | 0.0332 | 0.7718 | 0.114689 | 0.0007 | 0.148589 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|------------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Water | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4107 | 0.1535 | 0.2231 | 0.0343 | 0.0343 | 0.7769 | 0.119254 | 0 | 0.153554 | 0.00 | |
| 4107.5 | 0.1596 | 0.2141 | 0.0342 | 0.0342 | 0.7859 | 0.12543 | 0 | 0.15963 | 0.00 | |
| 4108 | 0.1616 | 0.2004 | 0.0324 | 0.0324 | 0.7996 | 0.129215 | 0 | 0.161615 | 0.00 | |
| 4108.5 | 0.1523 | 0.1897 | 0.0289 | 0.0289 | 0.8103 | 0.123409 | 0 | 0.152309 | 0.00 | |
| 4109 | 0.134 | 0.1901 | 0.0255 | 0.0255 | 0.8099 | 0.108527 | 0 | 0.134027 | 0.00 | |
| 4109.5 | 0.1038 | 0.2217 | 0.023 | 0.023 | 0.7783 | 0.080788 | 0 | 0.103788 | (0.00) | |
| 4110 | 0.0842 | 0.2813 | 0.0237 | 0.0237 | 0.7187 | 0.060515 | 0 | 0.084215 | 0.00 | |
| 4110.5 | 0.0754 | 0.3376 | 0.0255 | 0.0228 | 0.6624 | 0.049945 | 0.0027 | 0.075445 | 0.00 | |
| 4111 | 0.0734 | 0.3589 | 0.0264 | 0.0229 | 0.6411 | 0.047057 | 0.0035 | 0.073457 | 0.00 | |
| 4111.5 | 0.0688 | 0.3553 | 0.0245 | 0.024 | 0.6447 | 0.044355 | 0.0005 | 0.068855 | 0.00 | |
| 4112 | 0.0613 | 0.3418 | 0.0209 | 0.0209 | 0.6582 | 0.040348 | 0 | 0.061248 | (0.00) | |
| 4112.5 | 0.0562 | 0.3302 | 0.0185 | 0.0185 | 0.6698 | 0.037643 | 0 | 0.056143 | (0.00) | |
| 4113 | 0.0554 | 0.3159 | 0.0175 | 0.0175 | 0.6841 | 0.037899 | 0 | 0.055399 | (0.00) | |
| 4113.5 | 0.0595 | 0.2971 | 0.0177 | 0.0177 | 0.7029 | 0.041823 | 0 | 0.059523 | 0.00 | |
| 4114 | 0.0618 | 0.2594 | 0.016 | 0.016 | 0.7406 | 0.045769 | 0 | 0.061769 | (0.00) | |
| 4114.5 | 0.0591 | 0.2198 | 0.013 | 0.013 | 0.7802 | 0.04611 | 0 | 0.05911 | 0.00 | |
| 4115 | 0.0544 | 0.2117 | 0.0115 | 0.0115 | 0.7883 | 0.042884 | 0 | 0.054384 | (0.00) | |
| 4115.5 | 0.0518 | 0.2308 | 0.0119 | 0.0119 | 0.7692 | 0.039845 | 0 | 0.051745 | (0.00) | |
| 4116 | 0.0541 | 0.279 | 0.0151 | 0.0151 | 0.721 | 0.039006 | 0 | 0.054106 | 0.00 | |
| 4116.5 | 0.0614 | 0.3322 | 0.0204 | 0.0204 | 0.6678 | 0.041003 | 0 | 0.061403 | 0.00 | |
| 4117 | 0.0726 | 0.3328 | 0.0242 | 0.0242 | 0.6672 | 0.048439 | 0 | 0.072639 | 0.00 | |
| 4117.5 | 0.0832 | 0.3195 | 0.0266 | 0.0259 | 0.6805 | 0.056618 | 0.0007 | 0.083218 | 0.00 | |
| 4118 | 0.0909 | 0.3116 | 0.0283 | 0.0268 | 0.6884 | 0.062576 | 0.0015 | 0.090876 | (0.00) | |
| 4118.5 | 0.0877 | 0.3159 | 0.0277 | 0.0254 | 0.6841 | 0.059996 | 0.0023 | 0.087696 | (0.00) | |
| 4119 | 0.0746 | 0.3429 | 0.0256 | 0.0226 | 0.6571 | 0.04902 | 0.003 | 0.07462 | 0.00 | |
| 4119.5 | 0.0567 | 0.383 | 0.0217 | 0.0197 | 0.617 | 0.034984 | 0.002 | 0.056684 | (0.00) | |
| 4120 | 0.0455 | 0.3987 | 0.0181 | 0.0181 | 0.6013 | 0.027359 | 0 | 0.045459 | (0.00) | |
| 4120.5 | 0.0371 | 0.3989 | 0.0148 | 0.0148 | 0.6011 | 0.022301 | 0 | 0.037101 | 0.00 | |
| 4121 | 0.0259 | 0.4168 | 0.0108 | 0.0108 | 0.5832 | 0.015105 | 0 | 0.025905 | 0.00 | |
| 4121.5 | 0.0194 | 0.4289 | 0.0083 | 0.0083 | 0.5711 | 0.011079 | 0 | 0.019379 | (0.00) | |
| 4122 | 0.0208 | 0.4286 | 0.0089 | 0.0089 | 0.5714 | 0.011885 | 0 | 0.020785 | (0.00) | |
| 4122.5 | 0.0254 | 0.4248 | 0.0108 | 0.0108 | 0.5752 | 0.01461 | 0 | 0.02541 | 0.00 | |
| 4123 | 0.0282 | 0.3871 | 0.0109 | 0.0109 | 0.6129 | 0.017284 | 0 | 0.028184 | (0.00) | |
| 4123.5 | 0.023 | 0.3629 | 0.0083 | 0.0083 | 0.6371 | 0.014653 | 0 | 0.022953 | (0.00) | |
| 4124 | 0.0127 | 0.3179 | 0.004 | 0.004 | 0.6821 | 0.008663 | 0 | 0.012663 | (0.00) | |
| 4124.5 | 0.0124 | 0.2965 | 0.0037 | 0.0037 | 0.7035 | 0.008723 | 0 | 0.012423 | 0.00 | |
| 4125 | 0.0152 | 0.3433 | 0.0052 | 0.0052 | 0.6567 | 0.009982 | 0 | 0.015182 | (0.00) | |
| 4125.5 | 0.0358 | 0.3754 | 0.0134 | 0.0134 | 0.6246 | 0.022361 | 0 | 0.035761 | (0.00) | |
| 4126 | 0.0628 | 0.3268 | 0.0205 | 0.0192 | 0.6732 | 0.042277 | 0.0013 | 0.062777 | (0.00) | |
| 4126.5 | 0.0763 | 0.3245 | 0.0248 | 0.022 | 0.6755 | 0.051541 | 0.0028 | 0.076341 | 0.00 | |
| 4127 | 0.0703 | 0.3972 | 0.0279 | 0.0228 | 0.6028 | 0.042377 | 0.0051 | 0.070277 | (0.00) | |
| 4127.5 | 0.0547 | 0.5127 | 0.028 | 0.0228 | 0.4873 | 0.026655 | 0.0052 | 0.054655 | (0.00) | |
| 4128 | 0.0459 | 0.6764 | 0.031 | 0.0239 | 0.3236 | 0.014853 | 0.0071 | 0.045853 | (0.00) | |
| 4128.5 | 0.0494 | 0.7653 | 0.0378 | 0.0247 | 0.2347 | 0.011594 | 0.0131 | 0.049394 | (0.00) | |
| 4129 | 0.0621 | 0.7321 | 0.0454 | 0.0248 | 0.2679 | 0.016637 | 0.0206 | 0.062037 | (0.00) | |
| 4129.5 | 0.0778 | 0.6282 | 0.0489 | 0.0256 | 0.3718 | 0.028926 | 0.0233 | 0.077826 | 0.00 | |

| ~A | DEPT | | | | | Checks | | | | | |
|--------|--------|--------|--------|--------|------------|--------|--------|----------|------------|------------|----------|
| | | PHIE | BVW | SW | BVI - Bulk | Voume | Water | So | BVO - Bulk | BVM - Bulk | Sum BV's |
| 4130 | 0.0861 | 0.5566 | 0.0479 | 0.0259 | | | 0.4434 | 0.038177 | 0.022 | 0.086077 | (0.00) |
| 4130.5 | 0.085 | 0.5254 | 0.0447 | 0.0261 | | | 0.4746 | 0.040341 | 0.0186 | 0.085041 | 0.00 |
| 4131 | 0.0751 | 0.5454 | 0.0409 | 0.0254 | | | 0.4546 | 0.03414 | 0.0155 | 0.07504 | (0.00) |
| 4131.5 | 0.0725 | 0.5442 | 0.0395 | 0.0248 | | | 0.4558 | 0.033046 | 0.0147 | 0.072546 | 0.00 |
| 4132 | 0.0834 | 0.5288 | 0.0441 | 0.0245 | | | 0.4712 | 0.039298 | 0.0196 | 0.083398 | (0.00) |
| 4132.5 | 0.0961 | 0.503 | 0.0483 | 0.0246 | | | 0.497 | 0.047762 | 0.0237 | 0.096062 | (0.00) |
| 4133 | 0.1096 | 0.4453 | 0.0488 | 0.0262 | | | 0.5547 | 0.060795 | 0.0226 | 0.109595 | (0.00) |
| 4133.5 | 0.116 | 0.4012 | 0.0465 | 0.0273 | | | 0.5988 | 0.069461 | 0.0192 | 0.115961 | (0.00) |
| 4134 | 0.1146 | 0.3648 | 0.0418 | 0.0275 | | | 0.6352 | 0.072794 | 0.0143 | 0.114594 | (0.00) |
| 4134.5 | 0.1119 | 0.3394 | 0.038 | 0.0275 | | | 0.6606 | 0.073921 | 0.0105 | 0.111921 | 0.00 |
| 4135 | 0.1095 | 0.3066 | 0.0336 | 0.0283 | | | 0.6934 | 0.075927 | 0.0053 | 0.109527 | 0.00 |
| 4135.5 | 0.107 | 0.2776 | 0.0297 | 0.0294 | | | 0.7224 | 0.077297 | 0.0003 | 0.106997 | (0.00) |
| 4136 | 0.1112 | 0.2506 | 0.0279 | 0.0279 | | | 0.7494 | 0.083333 | 0 | 0.111233 | 0.00 |
| 4136.5 | 0.1215 | 0.2402 | 0.0292 | 0.0292 | | | 0.7598 | 0.092316 | 0 | 0.121516 | 0.00 |
| 4137 | 0.1335 | 0.2365 | 0.0316 | 0.03 | | | 0.7635 | 0.101927 | 0.0016 | 0.133527 | 0.00 |
| 4137.5 | 0.1428 | 0.2351 | 0.0336 | 0.0309 | | | 0.7649 | 0.109228 | 0.0027 | 0.142828 | 0.00 |
| 4138 | 0.1464 | 0.2518 | 0.0369 | 0.0317 | | | 0.7482 | 0.109536 | 0.0052 | 0.146436 | 0.00 |
| 4138.5 | 0.1539 | 0.2872 | 0.0442 | 0.0335 | | | 0.7128 | 0.1097 | 0.0107 | 0.1539 | (0.00) |
| 4139 | 0.1691 | 0.3099 | 0.0524 | 0.0376 | | | 0.6901 | 0.116696 | 0.0148 | 0.169096 | (0.00) |
| 4139.5 | 0.1853 | 0.3322 | 0.0616 | 0.0415 | | | 0.6678 | 0.123743 | 0.0201 | 0.185343 | 0.00 |
| 4140 | 0.1975 | 0.3461 | 0.0684 | 0.0431 | | | 0.6539 | 0.129145 | 0.0253 | 0.197545 | 0.00 |
| 4140.5 | 0.2011 | 0.3513 | 0.0706 | 0.0415 | | | 0.6487 | 0.130454 | 0.0291 | 0.201054 | (0.00) |
| 4141 | 0.1893 | 0.3403 | 0.0644 | 0.038 | | | 0.6597 | 0.124881 | 0.0264 | 0.189281 | (0.00) |
| 4141.5 | 0.1593 | 0.342 | 0.0545 | 0.0332 | | | 0.658 | 0.104819 | 0.0213 | 0.159319 | 0.00 |
| 4142 | 0.1287 | 0.3296 | 0.0424 | 0.0293 | | | 0.6704 | 0.08628 | 0.0131 | 0.12868 | (0.00) |
| 4142.5 | 0.1252 | 0.2887 | 0.0362 | 0.0308 | | | 0.7113 | 0.089055 | 0.0054 | 0.125255 | 0.00 |
| 4143 | 0.144 | 0.2753 | 0.0397 | 0.0347 | | | 0.7247 | 0.104357 | 0.005 | 0.144057 | 0.00 |
| 4143.5 | 0.1656 | 0.2909 | 0.0482 | 0.0374 | | | 0.7091 | 0.117427 | 0.0108 | 0.165627 | 0.00 |
| 4144 | 0.1837 | 0.3127 | 0.0574 | 0.039 | | | 0.6873 | 0.126257 | 0.0184 | 0.183657 | (0.00) |
| 4144.5 | 0.1934 | 0.3354 | 0.0649 | 0.0402 | | | 0.6646 | 0.128534 | 0.0247 | 0.193434 | 0.00 |
| 4145 | 0.2003 | 0.3365 | 0.0674 | 0.0416 | | | 0.6635 | 0.132899 | 0.0258 | 0.200299 | (0.00) |
| 4145.5 | 0.1981 | 0.3353 | 0.0664 | 0.042 | | | 0.6647 | 0.131677 | 0.0244 | 0.198077 | (0.00) |
| 4146 | 0.1765 | 0.3454 | 0.061 | 0.04 | | | 0.6546 | 0.115537 | 0.021 | 0.176537 | 0.00 |
| 4146.5 | 0.1473 | 0.3539 | 0.0521 | 0.0369 | | | 0.6461 | 0.095171 | 0.0152 | 0.147271 | (0.00) |
| 4147 | 0.1224 | 0.3293 | 0.0403 | 0.0342 | | | 0.6707 | 0.082094 | 0.0061 | 0.122394 | (0.00) |
| 4147.5 | 0.0967 | 0.3079 | 0.0298 | 0.0285 | | | 0.6921 | 0.066926 | 0.0013 | 0.096726 | 0.00 |
| 4148 | 0.0722 | 0.2963 | 0.0214 | 0.0211 | | | 0.7037 | 0.050807 | 0.0003 | 0.072207 | 0.00 |
| 4148.5 | 0.0476 | 0.3896 | 0.0185 | 0.0144 | | | 0.6104 | 0.029055 | 0.0041 | 0.047555 | (0.00) |
| 4149 | 0.046 | 0.4405 | 0.0203 | 0.0132 | | | 0.5595 | 0.025737 | 0.0071 | 0.046037 | 0.00 |
| 4149.5 | 0.068 | 0.3682 | 0.025 | 0.0165 | | | 0.6318 | 0.042962 | 0.0085 | 0.067962 | (0.00) |
| 4150 | 0.1026 | 0.3023 | 0.031 | 0.0218 | | | 0.6977 | 0.071584 | 0.0092 | 0.102584 | (0.00) |
| 4150.5 | 0.1315 | 0.3067 | 0.0403 | 0.0261 | | | 0.6933 | 0.091169 | 0.0142 | 0.131469 | (0.00) |
| 4151 | 0.1542 | 0.3223 | 0.0497 | 0.0294 | | | 0.6777 | 0.104501 | 0.0203 | 0.154201 | 0.00 |
| 4151.5 | 0.1711 | 0.3457 | 0.0592 | 0.0318 | | | 0.6543 | 0.111951 | 0.0274 | 0.171151 | 0.00 |
| 4152 | 0.1876 | 0.3738 | 0.0701 | 0.0342 | | | 0.6262 | 0.117475 | 0.0359 | 0.187575 | (0.00) |
| 4152.5 | 0.2007 | 0.386 | 0.0775 | 0.036 | | | 0.614 | 0.12323 | 0.0415 | 0.20073 | 0.00 |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|------------|----------|--------|----------|------------|------------|
| | | PHIE | BVW | SW | BVI - Bulk | Volume | Water | So | BVO - Bulk | BVM - Bulk |
| 4153 | 0.2003 | 0.387 | 0.0775 | 0.0359 | 0.613 | 0.122784 | 0.0416 | 0.200284 | (0.00) | |
| 4153.5 | 0.1879 | 0.4103 | 0.0771 | 0.0344 | 0.5897 | 0.110805 | 0.0427 | 0.187905 | 0.00 | |
| 4154 | 0.1737 | 0.3961 | 0.0688 | 0.0337 | 0.6039 | 0.104897 | 0.0351 | 0.173697 | (0.00) | |
| 4154.5 | 0.1674 | 0.3321 | 0.0556 | 0.0355 | 0.6679 | 0.111806 | 0.0201 | 0.167406 | 0.00 | |
| 4155 | 0.1695 | 0.279 | 0.0473 | 0.0383 | 0.721 | 0.12221 | 0.009 | 0.16951 | 0.00 | |
| 4155.5 | 0.1754 | 0.2673 | 0.0469 | 0.0385 | 0.7327 | 0.128516 | 0.0084 | 0.175416 | 0.00 | |
| 4156 | 0.1823 | 0.2703 | 0.0493 | 0.0376 | 0.7297 | 0.133024 | 0.0117 | 0.182324 | 0.00 | |
| 4156.5 | 0.1928 | 0.2792 | 0.0538 | 0.0384 | 0.7208 | 0.13897 | 0.0154 | 0.19277 | (0.00) | |
| 4157 | 0.1884 | 0.3194 | 0.0602 | 0.0381 | 0.6806 | 0.128225 | 0.0221 | 0.188425 | 0.00 | |
| 4157.5 | 0.1993 | 0.3568 | 0.0711 | 0.0407 | 0.6432 | 0.12819 | 0.0304 | 0.19929 | (0.00) | |
| 4158 | 0.2084 | 0.3932 | 0.082 | 0.0423 | 0.6068 | 0.126457 | 0.0397 | 0.208457 | 0.00 | |
| 4158.5 | 0.2186 | 0.4288 | 0.0937 | 0.0434 | 0.5712 | 0.124864 | 0.0503 | 0.218564 | (0.00) | |
| 4159 | 0.224 | 0.4605 | 0.1032 | 0.044 | 0.5395 | 0.120848 | 0.0592 | 0.224048 | 0.00 | |
| 4159.5 | 0.2206 | 0.4849 | 0.107 | 0.0434 | 0.5151 | 0.113631 | 0.0636 | 0.220631 | 0.00 | |
| 4160 | 0.2157 | 0.4786 | 0.1032 | 0.0426 | 0.5214 | 0.112466 | 0.0606 | 0.215666 | (0.00) | |
| 4160.5 | 0.2118 | 0.4516 | 0.0956 | 0.0418 | 0.5484 | 0.116151 | 0.0538 | 0.211751 | (0.00) | |
| 4161 | 0.1933 | 0.4326 | 0.0836 | 0.0386 | 0.5674 | 0.109678 | 0.045 | 0.193278 | (0.00) | |
| 4161.5 | 0.1712 | 0.4258 | 0.0729 | 0.0347 | 0.5742 | 0.098303 | 0.0382 | 0.171203 | 0.00 | |
| 4162 | 0.1586 | 0.4129 | 0.0655 | 0.0321 | 0.5871 | 0.093114 | 0.0334 | 0.158614 | 0.00 | |
| 4162.5 | 0.1648 | 0.3627 | 0.0598 | 0.0322 | 0.6373 | 0.105027 | 0.0276 | 0.164827 | 0.00 | |
| 4163 | 0.1772 | 0.3347 | 0.0593 | 0.0335 | 0.6653 | 0.117891 | 0.0258 | 0.177191 | (0.00) | |
| 4163.5 | 0.1822 | 0.3275 | 0.0597 | 0.0342 | 0.6725 | 0.12253 | 0.0255 | 0.18223 | 0.00 | |
| 4164 | 0.1776 | 0.3426 | 0.0609 | 0.0343 | 0.6574 | 0.116754 | 0.0266 | 0.177654 | 0.00 | |
| 4164.5 | 0.1733 | 0.3828 | 0.0664 | 0.0346 | 0.6172 | 0.106961 | 0.0318 | 0.173361 | 0.00 | |
| 4165 | 0.1787 | 0.4074 | 0.0728 | 0.0357 | 0.5926 | 0.105898 | 0.0371 | 0.178698 | (0.00) | |
| 4165.5 | 0.1917 | 0.4155 | 0.0796 | 0.0371 | 0.5845 | 0.112049 | 0.0425 | 0.191649 | (0.00) | |
| 4166 | 0.1992 | 0.4106 | 0.0818 | 0.038 | 0.5894 | 0.117408 | 0.0438 | 0.199208 | 0.00 | |
| 4166.5 | 0.1845 | 0.4213 | 0.0777 | 0.0363 | 0.5787 | 0.10677 | 0.0414 | 0.18447 | (0.00) | |
| 4167 | 0.1501 | 0.4425 | 0.0664 | 0.0331 | 0.5575 | 0.083681 | 0.0333 | 0.150081 | (0.00) | |
| 4167.5 | 0.104 | 0.4791 | 0.0498 | 0.0278 | 0.5209 | 0.054174 | 0.022 | 0.103974 | (0.00) | |
| 4168 | 0.0654 | 0.4787 | 0.0313 | 0.0219 | 0.5213 | 0.034093 | 0.0094 | 0.065393 | (0.00) | |
| 4168.5 | 0.0617 | 0.4467 | 0.0276 | 0.0191 | 0.5533 | 0.034139 | 0.0085 | 0.061739 | 0.00 | |
| 4169 | 0.0821 | 0.4646 | 0.0381 | 0.0205 | 0.5354 | 0.043956 | 0.0176 | 0.082056 | (0.00) | |
| 4169.5 | 0.1238 | 0.4276 | 0.0529 | 0.026 | 0.5724 | 0.070863 | 0.0269 | 0.123763 | (0.00) | |
| 4170 | 0.1516 | 0.4237 | 0.0642 | 0.0298 | 0.5763 | 0.087367 | 0.0344 | 0.151567 | (0.00) | |
| 4170.5 | 0.1698 | 0.4416 | 0.075 | 0.0323 | 0.5584 | 0.094816 | 0.0427 | 0.169816 | 0.00 | |
| 4171 | 0.167 | 0.4547 | 0.0759 | 0.0315 | 0.5453 | 0.091065 | 0.0444 | 0.166965 | (0.00) | |
| 4171.5 | 0.1464 | 0.4985 | 0.073 | 0.0281 | 0.5015 | 0.07342 | 0.0449 | 0.14642 | 0.00 | |
| 4172 | 0.1269 | 0.5503 | 0.0699 | 0.0249 | 0.4497 | 0.057067 | 0.045 | 0.126967 | 0.00 | |
| 4172.5 | 0.1174 | 0.5673 | 0.0666 | 0.0234 | 0.4327 | 0.050799 | 0.0432 | 0.117399 | (0.00) | |
| 4173 | 0.1047 | 0.6214 | 0.065 | 0.0215 | 0.3786 | 0.039639 | 0.0435 | 0.104639 | (0.00) | |
| 4173.5 | 0.0901 | 0.6969 | 0.0628 | 0.0197 | 0.3031 | 0.027309 | 0.0431 | 0.090109 | 0.00 | |
| 4174 | 0.0867 | 0.6975 | 0.0605 | 0.0197 | 0.3025 | 0.026227 | 0.0408 | 0.086727 | 0.00 | |
| 4174.5 | 0.0983 | 0.5885 | 0.0578 | 0.0215 | 0.4115 | 0.04045 | 0.0363 | 0.09825 | (0.00) | |
| 4175 | 0.1087 | 0.5126 | 0.0557 | 0.0229 | 0.4874 | 0.05298 | 0.0328 | 0.10868 | (0.00) | |
| 4175.5 | 0.1083 | 0.4931 | 0.0534 | 0.0226 | 0.5069 | 0.054897 | 0.0308 | 0.108297 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | | |
|--------|--------|--------|--------|--------|------------|--------|--------|----------|------------|------------|----------|
| | | PHIE | BVW | SW | BVI - Bulk | Volume | Water | So | BVO - Bulk | BVM - Bulk | Sum BV's |
| 4176 | 0.0975 | 0.4923 | 0.048 | 0.0209 | | | 0.5077 | 0.049501 | 0.0271 | 0.097501 | 0.00 |
| 4176.5 | 0.0827 | 0.5205 | 0.043 | 0.0188 | | | 0.4795 | 0.039655 | 0.0242 | 0.082655 | (0.00) |
| 4177 | 0.0739 | 0.5257 | 0.0388 | 0.0175 | | | 0.4743 | 0.035051 | 0.0213 | 0.073851 | (0.00) |
| 4177.5 | 0.087 | 0.4304 | 0.0374 | 0.0201 | | | 0.5696 | 0.049555 | 0.0173 | 0.086955 | (0.00) |
| 4178 | 0.0962 | 0.3822 | 0.0368 | 0.0224 | | | 0.6178 | 0.059432 | 0.0144 | 0.096232 | 0.00 |
| 4178.5 | 0.0943 | 0.3697 | 0.0348 | 0.0228 | | | 0.6303 | 0.059437 | 0.012 | 0.094237 | (0.00) |
| 4179 | 0.081 | 0.3545 | 0.0287 | 0.0208 | | | 0.6455 | 0.052286 | 0.0079 | 0.080986 | (0.00) |
| 4179.5 | 0.0617 | 0.3532 | 0.0218 | 0.0169 | | | 0.6468 | 0.039908 | 0.0049 | 0.061708 | 0.00 |
| 4180 | 0.0411 | 0.4111 | 0.0169 | 0.0126 | | | 0.5889 | 0.024204 | 0.0043 | 0.041104 | 0.00 |
| 4180.5 | 0.0293 | 0.5597 | 0.0164 | 0.0103 | | | 0.4403 | 0.012901 | 0.0061 | 0.029301 | 0.00 |
| 4181 | 0.0288 | 0.6125 | 0.0177 | 0.0104 | | | 0.3875 | 0.01116 | 0.0073 | 0.02886 | 0.00 |
| 4181.5 | 0.0383 | 0.5407 | 0.0207 | 0.0126 | | | 0.4593 | 0.017591 | 0.0081 | 0.038291 | (0.00) |
| 4182 | 0.0462 | 0.4893 | 0.0226 | 0.0152 | | | 0.5107 | 0.023594 | 0.0074 | 0.046194 | (0.00) |
| 4182.5 | 0.0529 | 0.4608 | 0.0244 | 0.0176 | | | 0.5392 | 0.028524 | 0.0068 | 0.052924 | 0.00 |
| 4183 | 0.0532 | 0.4476 | 0.0238 | 0.0177 | | | 0.5524 | 0.029388 | 0.0061 | 0.053188 | (0.00) |
| 4183.5 | 0.0482 | 0.4446 | 0.0214 | 0.0159 | | | 0.5554 | 0.02677 | 0.0055 | 0.04817 | (0.00) |
| 4184 | 0.0355 | 0.4459 | 0.0158 | 0.013 | | | 0.5541 | 0.019671 | 0.0028 | 0.035471 | (0.00) |
| 4184.5 | 0.0158 | 0.4334 | 0.0068 | 0.0068 | | | 0.5666 | 0.008952 | 0 | 0.015752 | (0.00) |
| 4185 | 0.0164 | 0.4532 | 0.0074 | 0.0074 | | | 0.5468 | 0.008968 | 0 | 0.016368 | (0.00) |
| 4185.5 | 0.0297 | 0.4328 | 0.0129 | 0.0112 | | | 0.5672 | 0.016846 | 0.0017 | 0.029746 | 0.00 |
| 4186 | 0.0538 | 0.3904 | 0.021 | 0.015 | | | 0.6096 | 0.032796 | 0.006 | 0.053796 | (0.00) |
| 4186.5 | 0.0784 | 0.363 | 0.0285 | 0.0192 | | | 0.637 | 0.049941 | 0.0093 | 0.078441 | 0.00 |
| 4187 | 0.0964 | 0.3482 | 0.0336 | 0.0224 | | | 0.6518 | 0.062834 | 0.0112 | 0.096434 | 0.00 |
| 4187.5 | 0.1062 | 0.349 | 0.0371 | 0.0242 | | | 0.651 | 0.069136 | 0.0129 | 0.106236 | 0.00 |
| 4188 | 0.1111 | 0.3628 | 0.0403 | 0.0248 | | | 0.6372 | 0.070793 | 0.0155 | 0.111093 | (0.00) |
| 4188.5 | 0.114 | 0.3784 | 0.0432 | 0.025 | | | 0.6216 | 0.070862 | 0.0182 | 0.114062 | 0.00 |
| 4189 | 0.1185 | 0.3822 | 0.0453 | 0.0257 | | | 0.6178 | 0.073209 | 0.0196 | 0.118509 | 0.00 |
| 4189.5 | 0.1238 | 0.3849 | 0.0477 | 0.0271 | | | 0.6151 | 0.076149 | 0.0206 | 0.123849 | 0.00 |
| 4190 | 0.1227 | 0.3897 | 0.0478 | 0.0275 | | | 0.6103 | 0.074884 | 0.0203 | 0.122684 | (0.00) |
| 4190.5 | 0.1136 | 0.4097 | 0.0465 | 0.0265 | | | 0.5903 | 0.067058 | 0.02 | 0.113558 | (0.00) |
| 4191 | 0.0946 | 0.4453 | 0.0421 | 0.0236 | | | 0.5547 | 0.052475 | 0.0185 | 0.094575 | (0.00) |
| 4191.5 | 0.0675 | 0.4766 | 0.0322 | 0.0198 | | | 0.5234 | 0.03533 | 0.0124 | 0.06753 | 0.00 |
| 4192 | 0.0384 | 0.4659 | 0.0179 | 0.0154 | | | 0.5341 | 0.020509 | 0.0025 | 0.038409 | 0.00 |
| 4192.5 | 0.0221 | 0.3529 | 0.0078 | 0.0078 | | | 0.6471 | 0.014301 | 0 | 0.022101 | 0.00 |
| 4193 | 0.0229 | 0.2858 | 0.0066 | 0.0066 | | | 0.7142 | 0.016355 | 0 | 0.022955 | 0.00 |
| 4193.5 | 0.0323 | 0.3365 | 0.0109 | 0.0109 | | | 0.6635 | 0.021431 | 0 | 0.032331 | 0.00 |
| 4194 | 0.0429 | 0.3878 | 0.0166 | 0.0152 | | | 0.6122 | 0.026263 | 0.0014 | 0.042863 | (0.00) |
| 4194.5 | 0.049 | 0.4365 | 0.0214 | 0.0163 | | | 0.5635 | 0.027612 | 0.0051 | 0.049012 | 0.00 |
| 4195 | 0.0472 | 0.4627 | 0.0218 | 0.0159 | | | 0.5373 | 0.025361 | 0.0059 | 0.047161 | (0.00) |
| 4195.5 | 0.0376 | 0.5065 | 0.0191 | 0.0137 | | | 0.4935 | 0.018556 | 0.0054 | 0.037656 | 0.00 |
| 4196 | 0.0294 | 0.5514 | 0.0162 | 0.0116 | | | 0.4486 | 0.013189 | 0.0046 | 0.029389 | (0.00) |
| 4196.5 | 0.0287 | 0.5242 | 0.0151 | 0.0108 | | | 0.4758 | 0.013655 | 0.0043 | 0.028755 | 0.00 |
| 4197 | 0.0353 | 0.4731 | 0.0167 | 0.0115 | | | 0.5269 | 0.0186 | 0.0052 | 0.0353 | (0.00) |
| 4197.5 | 0.0441 | 0.4285 | 0.0189 | 0.0127 | | | 0.5715 | 0.025203 | 0.0062 | 0.044103 | 0.00 |
| 4198 | 0.0492 | 0.4059 | 0.02 | 0.0134 | | | 0.5941 | 0.02923 | 0.0066 | 0.04923 | 0.00 |
| 4198.5 | 0.0504 | 0.4058 | 0.0204 | 0.0134 | | | 0.5942 | 0.029948 | 0.007 | 0.050348 | (0.00) |

| ~A | DEPT | PHIE | BVW | SW | BVI - Bulk | Voume | Wate | So | BVO - Bulk | BVM - Bulk | Checks | |
|--------|--------|--------|--------|--------|------------|----------|--------|----------|------------|------------|--------|------|
| | | | | | | | | | | | Sum | BV's |
| 4199 | 0.045 | 0.4409 | 0.0199 | 0.0126 | 0.5591 | 0.02516 | 0.0073 | 0.04506 | 0.00 | | | |
| 4199.5 | 0.0344 | 0.5049 | 0.0174 | 0.0112 | 0.4951 | 0.017031 | 0.0062 | 0.034431 | 0.00 | | | |
| 4200 | 0.0194 | 0.5544 | 0.0108 | 0.0092 | 0.4456 | 0.008645 | 0.0016 | 0.019445 | 0.00 | | | |
| 4200.5 | 0.0147 | 0.4362 | 0.0064 | 0.0064 | 0.5638 | 0.008288 | 0 | 0.014688 | (0.00) | | | |
| 4201 | 0.0162 | 0.4146 | 0.0067 | 0.0067 | 0.5854 | 0.009483 | 0 | 0.016183 | (0.00) | | | |
| 4201.5 | 0.0176 | 0.4839 | 0.0085 | 0.0085 | 0.5161 | 0.009083 | 0 | 0.017583 | (0.00) | | | |
| 4202 | 0.0181 | 0.6034 | 0.0109 | 0.0088 | 0.3966 | 0.007178 | 0.0021 | 0.018078 | (0.00) | | | |
| 4202.5 | 0.0203 | 0.6241 | 0.0127 | 0.009 | 0.3759 | 0.007631 | 0.0037 | 0.020331 | 0.00 | | | |
| 4203 | 0.0204 | 0.602 | 0.0123 | 0.0091 | 0.398 | 0.008119 | 0.0032 | 0.020419 | 0.00 | | | |
| 4203.5 | 0.0191 | 0.5914 | 0.0113 | 0.009 | 0.4086 | 0.007804 | 0.0023 | 0.019104 | 0.00 | | | |
| 4204 | 0.0158 | 0.6043 | 0.0095 | 0.0085 | 0.3957 | 0.006252 | 0.001 | 0.015752 | (0.00) | | | |
| 4204.5 | 0.016 | 0.6606 | 0.0106 | 0.0084 | 0.3394 | 0.00543 | 0.0022 | 0.01603 | 0.00 | | | |
| 4205 | 0.0303 | 0.5334 | 0.0162 | 0.0106 | 0.4666 | 0.014138 | 0.0056 | 0.030338 | 0.00 | | | |
| 4205.5 | 0.0634 | 0.4684 | 0.0297 | 0.0158 | 0.5316 | 0.033703 | 0.0139 | 0.063403 | 0.00 | | | |
| 4206 | 0.1131 | 0.3656 | 0.0413 | 0.0234 | 0.6344 | 0.071751 | 0.0179 | 0.113051 | (0.00) | | | |
| 4206.5 | 0.1645 | 0.3155 | 0.0519 | 0.0312 | 0.6845 | 0.1126 | 0.0207 | 0.1645 | 0.00 | | | |
| 4207 | 0.2041 | 0.2831 | 0.0578 | 0.037 | 0.7169 | 0.146319 | 0.0208 | 0.204119 | 0.00 | | | |
| 4207.5 | 0.2061 | 0.2919 | 0.0602 | 0.0371 | 0.7081 | 0.145939 | 0.0231 | 0.206139 | 0.00 | | | |
| 4208 | 0.1893 | 0.2994 | 0.0567 | 0.0348 | 0.7006 | 0.132624 | 0.0219 | 0.189324 | 0.00 | | | |
| 4208.5 | 0.1346 | 0.3367 | 0.0453 | 0.0269 | 0.6633 | 0.08928 | 0.0184 | 0.13458 | (0.00) | | | |
| 4209 | 0.0956 | 0.3562 | 0.0341 | 0.021 | 0.6438 | 0.061547 | 0.0131 | 0.095647 | 0.00 | | | |
| 4209.5 | 0.066 | 0.3437 | 0.0227 | 0.0161 | 0.6563 | 0.043316 | 0.0066 | 0.066016 | 0.00 | | | |
| 4210 | 0.0757 | 0.2976 | 0.0225 | 0.0173 | 0.7024 | 0.053172 | 0.0052 | 0.075672 | (0.00) | | | |
| 4210.5 | 0.1154 | 0.2724 | 0.0314 | 0.0229 | 0.7276 | 0.083965 | 0.0085 | 0.115365 | (0.00) | | | |
| 4211 | 0.1592 | 0.2811 | 0.0447 | 0.0293 | 0.7189 | 0.114449 | 0.0154 | 0.159149 | (0.00) | | | |
| 4211.5 | 0.1866 | 0.3038 | 0.0567 | 0.0337 | 0.6962 | 0.129911 | 0.023 | 0.186611 | 0.00 | | | |
| 4212 | 0.1965 | 0.3294 | 0.0647 | 0.0355 | 0.6706 | 0.131773 | 0.0292 | 0.196473 | (0.00) | | | |
| 4212.5 | 0.2062 | 0.3431 | 0.0708 | 0.0371 | 0.6569 | 0.135453 | 0.0337 | 0.206253 | 0.00 | | | |
| 4213 | 0.2088 | 0.3427 | 0.0716 | 0.0373 | 0.6573 | 0.137244 | 0.0343 | 0.208844 | 0.00 | | | |
| 4213.5 | 0.2046 | 0.3316 | 0.0679 | 0.0366 | 0.6684 | 0.136755 | 0.0313 | 0.204655 | 0.00 | | | |
| 4214 | 0.1806 | 0.3295 | 0.0595 | 0.033 | 0.6705 | 0.121092 | 0.0265 | 0.180592 | (0.00) | | | |
| 4214.5 | 0.1365 | 0.3294 | 0.045 | 0.0266 | 0.6706 | 0.091537 | 0.0184 | 0.136537 | 0.00 | | | |
| 4215 | 0.093 | 0.3586 | 0.0334 | 0.0201 | 0.6414 | 0.05965 | 0.0133 | 0.09305 | 0.00 | | | |
| 4215.5 | 0.0712 | 0.3856 | 0.0275 | 0.0166 | 0.6144 | 0.043745 | 0.0109 | 0.071245 | 0.00 | | | |
| 4216 | 0.0677 | 0.4352 | 0.0295 | 0.0158 | 0.5648 | 0.038237 | 0.0137 | 0.067737 | 0.00 | | | |
| 4216.5 | 0.0921 | 0.4106 | 0.0378 | 0.0193 | 0.5894 | 0.054284 | 0.0185 | 0.092084 | (0.00) | | | |
| 4217 | 0.132 | 0.3649 | 0.0482 | 0.0253 | 0.6351 | 0.083833 | 0.0229 | 0.132033 | 0.00 | | | |
| 4217.5 | 0.1558 | 0.3664 | 0.0571 | 0.0291 | 0.6336 | 0.098715 | 0.028 | 0.155815 | 0.00 | | | |
| 4218 | 0.1607 | 0.3961 | 0.0637 | 0.03 | 0.6039 | 0.097047 | 0.0337 | 0.160747 | 0.00 | | | |
| 4218.5 | 0.1474 | 0.4407 | 0.065 | 0.0282 | 0.5593 | 0.082441 | 0.0368 | 0.147441 | 0.00 | | | |
| 4219 | 0.1229 | 0.4992 | 0.0614 | 0.0249 | 0.5008 | 0.061548 | 0.0365 | 0.122948 | 0.00 | | | |
| 4219.5 | 0.0951 | 0.5128 | 0.0488 | 0.0209 | 0.4872 | 0.046333 | 0.0279 | 0.095133 | 0.00 | | | |
| 4220 | 0.0704 | 0.5158 | 0.0363 | 0.0168 | 0.4842 | 0.034088 | 0.0195 | 0.070388 | (0.00) | | | |
| 4220.5 | 0.0627 | 0.4465 | 0.028 | 0.0154 | 0.5535 | 0.034704 | 0.0126 | 0.062704 | 0.00 | | | |
| 4221 | 0.0617 | 0.4764 | 0.0294 | 0.0151 | 0.5236 | 0.032306 | 0.0143 | 0.061706 | 0.00 | | | |
| 4221.5 | 0.0691 | 0.5938 | 0.041 | 0.0162 | 0.4062 | 0.028068 | 0.0248 | 0.069068 | (0.00) | | | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4222 | 0.121 | 0.4542 | 0.055 | 0.0242 | 0.5458 | 0.066042 | 0.0308 | 0.121042 | 0.00 | |
| 4222.5 | 0.1597 | 0.4207 | 0.0672 | 0.0302 | 0.5793 | 0.092514 | 0.037 | 0.159714 | 0.00 | |
| 4223 | 0.197 | 0.3634 | 0.0716 | 0.0363 | 0.6366 | 0.12541 | 0.0353 | 0.19701 | 0.00 | |
| 4223.5 | 0.1947 | 0.3575 | 0.0696 | 0.0364 | 0.6425 | 0.125095 | 0.0332 | 0.194695 | (0.00) | |
| 4224 | 0.1768 | 0.3796 | 0.0671 | 0.0343 | 0.6204 | 0.109687 | 0.0328 | 0.176787 | (0.00) | |
| 4224.5 | 0.1646 | 0.382 | 0.0629 | 0.0334 | 0.618 | 0.101723 | 0.0295 | 0.164623 | 0.00 | |
| 4225 | 0.1685 | 0.3576 | 0.0602 | 0.0343 | 0.6424 | 0.108244 | 0.0259 | 0.168444 | (0.00) | |
| 4225.5 | 0.1725 | 0.3424 | 0.059 | 0.0337 | 0.6576 | 0.113436 | 0.0253 | 0.172436 | (0.00) | |
| 4226 | 0.1604 | 0.3534 | 0.0567 | 0.0305 | 0.6466 | 0.103715 | 0.0262 | 0.160415 | 0.00 | |
| 4226.5 | 0.131 | 0.4018 | 0.0527 | 0.0253 | 0.5982 | 0.078364 | 0.0274 | 0.131064 | 0.00 | |
| 4227 | 0.1117 | 0.4396 | 0.0491 | 0.0219 | 0.5604 | 0.062597 | 0.0272 | 0.111697 | (0.00) | |
| 4227.5 | 0.096 | 0.4994 | 0.048 | 0.0195 | 0.5006 | 0.048058 | 0.0285 | 0.096058 | 0.00 | |
| 4228 | 0.0887 | 0.5277 | 0.0468 | 0.0185 | 0.4723 | 0.041893 | 0.0283 | 0.088693 | (0.00) | |
| 4228.5 | 0.0815 | 0.5392 | 0.044 | 0.0181 | 0.4608 | 0.037555 | 0.0259 | 0.081555 | 0.00 | |
| 4229 | 0.0682 | 0.5197 | 0.0355 | 0.0183 | 0.4803 | 0.032756 | 0.0172 | 0.068256 | 0.00 | |
| 4229.5 | 0.0435 | 0.4351 | 0.0189 | 0.0189 | 0.5649 | 0.024573 | 0 | 0.043473 | (0.00) | |
| 4230 | 0.0196 | 0.3225 | 0.0063 | 0.0063 | 0.6775 | 0.013279 | 0 | 0.019579 | (0.00) | |
| 4230.5 | 0.0201 | 0.2438 | 0.0049 | 0.0049 | 0.7562 | 0.0152 | 0 | 0.0201 | (0.00) | |
| 4231 | 0.0336 | 0.2668 | 0.009 | 0.009 | 0.7332 | 0.024636 | 0 | 0.033636 | 0.00 | |
| 4231.5 | 0.0661 | 0.3138 | 0.0207 | 0.0187 | 0.6862 | 0.045358 | 0.002 | 0.066058 | (0.00) | |
| 4232 | 0.0775 | 0.3172 | 0.0246 | 0.0189 | 0.6828 | 0.052917 | 0.0057 | 0.077517 | 0.00 | |
| 4232.5 | 0.0654 | 0.3561 | 0.0233 | 0.0165 | 0.6439 | 0.042111 | 0.0068 | 0.065411 | 0.00 | |
| 4233 | 0.0469 | 0.3956 | 0.0185 | 0.0133 | 0.6044 | 0.028346 | 0.0052 | 0.046846 | (0.00) | |
| 4233.5 | 0.0362 | 0.4906 | 0.0178 | 0.0114 | 0.5094 | 0.01844 | 0.0064 | 0.03624 | 0.00 | |
| 4234 | 0.0371 | 0.498 | 0.0185 | 0.0115 | 0.502 | 0.018624 | 0.007 | 0.037124 | 0.00 | |
| 4234.5 | 0.0601 | 0.3483 | 0.0209 | 0.015 | 0.6517 | 0.039167 | 0.0059 | 0.060067 | (0.00) | |
| 4235 | 0.0834 | 0.3074 | 0.0256 | 0.0185 | 0.6926 | 0.057763 | 0.0071 | 0.083363 | (0.00) | |
| 4235.5 | 0.1062 | 0.2818 | 0.0299 | 0.0219 | 0.7182 | 0.076273 | 0.008 | 0.106173 | (0.00) | |
| 4236 | 0.0897 | 0.3315 | 0.0297 | 0.0193 | 0.6685 | 0.059964 | 0.0104 | 0.089664 | (0.00) | |
| 4236.5 | 0.0741 | 0.386 | 0.0286 | 0.0171 | 0.614 | 0.045497 | 0.0115 | 0.074097 | (0.00) | |
| 4237 | 0.0627 | 0.52 | 0.0326 | 0.0155 | 0.48 | 0.030096 | 0.0171 | 0.062696 | (0.00) | |
| 4237.5 | 0.093 | 0.4357 | 0.0405 | 0.0202 | 0.5643 | 0.05248 | 0.0203 | 0.09298 | (0.00) | |
| 4238 | 0.1325 | 0.3993 | 0.0529 | 0.0263 | 0.6007 | 0.079593 | 0.0266 | 0.132493 | (0.00) | |
| 4238.5 | 0.1663 | 0.37 | 0.0615 | 0.0314 | 0.63 | 0.104769 | 0.0301 | 0.166269 | (0.00) | |
| 4239 | 0.1872 | 0.3512 | 0.0657 | 0.0347 | 0.6488 | 0.121455 | 0.031 | 0.187155 | (0.00) | |
| 4239.5 | 0.1921 | 0.361 | 0.0694 | 0.0355 | 0.639 | 0.122752 | 0.0339 | 0.192152 | 0.00 | |
| 4240 | 0.1929 | 0.3787 | 0.073 | 0.0357 | 0.6213 | 0.119849 | 0.0373 | 0.192849 | (0.00) | |
| 4240.5 | 0.1917 | 0.4054 | 0.0777 | 0.0356 | 0.5946 | 0.113985 | 0.0421 | 0.191685 | (0.00) | |
| 4241 | 0.192 | 0.4276 | 0.0821 | 0.0354 | 0.5724 | 0.109901 | 0.0467 | 0.192001 | 0.00 | |
| 4241.5 | 0.1982 | 0.4429 | 0.0878 | 0.0358 | 0.5571 | 0.110417 | 0.052 | 0.198217 | 0.00 | |
| 4242 | 0.2055 | 0.4259 | 0.0875 | 0.0364 | 0.5741 | 0.117978 | 0.0511 | 0.205478 | (0.00) | |
| 4242.5 | 0.2061 | 0.4132 | 0.0852 | 0.0364 | 0.5868 | 0.120939 | 0.0488 | 0.206139 | 0.00 | |
| 4243 | 0.2002 | 0.4086 | 0.0818 | 0.0357 | 0.5914 | 0.118398 | 0.0461 | 0.200198 | (0.00) | |
| 4243.5 | 0.1895 | 0.4161 | 0.0788 | 0.0346 | 0.5839 | 0.110649 | 0.0442 | 0.189449 | (0.00) | |
| 4244 | 0.1836 | 0.4319 | 0.0793 | 0.0345 | 0.5681 | 0.104303 | 0.0448 | 0.183603 | 0.00 | |
| 4244.5 | 0.1913 | 0.4329 | 0.0828 | 0.0367 | 0.5671 | 0.108486 | 0.0461 | 0.191286 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4245 | 0.1961 | 0.4424 | 0.0868 | 0.0379 | 0.5576 | 0.109345 | 0.0489 | 0.196145 | 0.00 | |
| 4245.5 | 0.1914 | 0.4471 | 0.0856 | 0.0373 | 0.5529 | 0.105825 | 0.0483 | 0.191425 | 0.00 | |
| 4246 | 0.1687 | 0.4772 | 0.0805 | 0.034 | 0.5228 | 0.088196 | 0.0465 | 0.168696 | (0.00) | |
| 4246.5 | 0.1372 | 0.4951 | 0.0679 | 0.029 | 0.5049 | 0.069272 | 0.0389 | 0.137172 | (0.00) | |
| 4247 | 0.1028 | 0.5006 | 0.0514 | 0.023 | 0.4994 | 0.051338 | 0.0284 | 0.102738 | (0.00) | |
| 4247.5 | 0.0752 | 0.5428 | 0.0408 | 0.0177 | 0.4572 | 0.034381 | 0.0231 | 0.075181 | (0.00) | |
| 4248 | 0.0605 | 0.5691 | 0.0344 | 0.0149 | 0.4309 | 0.026069 | 0.0195 | 0.060469 | (0.00) | |
| 4248.5 | 0.0599 | 0.5905 | 0.0354 | 0.0147 | 0.4095 | 0.024529 | 0.0207 | 0.059929 | 0.00 | |
| 4249 | 0.0742 | 0.5254 | 0.039 | 0.0172 | 0.4746 | 0.035215 | 0.0218 | 0.074215 | 0.00 | |
| 4249.5 | 0.1083 | 0.407 | 0.0441 | 0.0227 | 0.593 | 0.064222 | 0.0214 | 0.108322 | 0.00 | |
| 4250 | 0.133 | 0.3602 | 0.0479 | 0.0265 | 0.6398 | 0.085093 | 0.0214 | 0.132993 | (0.00) | |
| 4250.5 | 0.1419 | 0.3661 | 0.0519 | 0.0274 | 0.6339 | 0.08995 | 0.0245 | 0.14185 | (0.00) | |
| 4251 | 0.1457 | 0.3643 | 0.0531 | 0.0276 | 0.6357 | 0.092621 | 0.0255 | 0.145721 | 0.00 | |
| 4251.5 | 0.1497 | 0.3505 | 0.0525 | 0.0279 | 0.6495 | 0.09723 | 0.0246 | 0.14973 | 0.00 | |
| 4252 | 0.1529 | 0.3368 | 0.0515 | 0.0282 | 0.6632 | 0.101403 | 0.0233 | 0.152903 | 0.00 | |
| 4252.5 | 0.1569 | 0.3212 | 0.0504 | 0.0288 | 0.6788 | 0.106504 | 0.0216 | 0.156904 | 0.00 | |
| 4253 | 0.1537 | 0.3174 | 0.0488 | 0.0283 | 0.6826 | 0.104916 | 0.0205 | 0.153716 | 0.00 | |
| 4253.5 | 0.1422 | 0.3433 | 0.0488 | 0.0265 | 0.6567 | 0.093383 | 0.0223 | 0.142183 | (0.00) | |
| 4254 | 0.1319 | 0.3876 | 0.0511 | 0.025 | 0.6124 | 0.080776 | 0.0261 | 0.131876 | (0.00) | |
| 4254.5 | 0.1249 | 0.4344 | 0.0543 | 0.024 | 0.5656 | 0.070643 | 0.0303 | 0.124943 | 0.00 | |
| 4255 | 0.1145 | 0.4996 | 0.0572 | 0.0225 | 0.5004 | 0.057296 | 0.0347 | 0.114496 | (0.00) | |
| 4255.5 | 0.0856 | 0.6639 | 0.0568 | 0.0181 | 0.3361 | 0.02877 | 0.0387 | 0.08557 | (0.00) | |
| 4256 | 0.0525 | 0.9162 | 0.0481 | 0.0131 | 0.0838 | 0.0044 | 0.035 | 0.0525 | (0.00) | |
| 4256.5 | 0.0378 | 0.9489 | 0.0358 | 0.0111 | 0.0511 | 0.001932 | 0.0247 | 0.037732 | (0.00) | |
| 4257 | 0.0318 | 0.6479 | 0.0206 | 0.0103 | 0.3521 | 0.011197 | 0.0103 | 0.031797 | (0.00) | |
| 4257.5 | 0.0267 | 0.6472 | 0.0173 | 0.0097 | 0.3528 | 0.00942 | 0.0076 | 0.02672 | 0.00 | |
| 4258 | 0.0223 | 0.7 | 0.0156 | 0.0091 | 0.3 | 0.00669 | 0.0065 | 0.02229 | (0.00) | |
| 4258.5 | 0.0164 | 0.8755 | 0.0144 | 0.008 | 0.1245 | 0.002042 | 0.0064 | 0.016442 | 0.00 | |
| 4259 | 0.0152 | 1 | 0.0152 | 0.0077 | 0 | 0 | 0.0075 | 0.0152 | - | |
| 4259.5 | 0.0157 | 1 | 0.0157 | 0.0077 | 0 | 0 | 0.008 | 0.0157 | - | |
| 4260 | 0.0172 | 0.9067 | 0.0156 | 0.0081 | 0.0933 | 0.001605 | 0.0075 | 0.017205 | 0.00 | |
| 4260.5 | 0.0172 | 0.7319 | 0.0126 | 0.0084 | 0.2681 | 0.004611 | 0.0042 | 0.017211 | 0.00 | |
| 4261 | 0.0189 | 0.6444 | 0.0122 | 0.0088 | 0.3556 | 0.006721 | 0.0034 | 0.018921 | 0.00 | |
| 4261.5 | 0.0183 | 0.6819 | 0.0125 | 0.0086 | 0.3181 | 0.005821 | 0.0039 | 0.018321 | 0.00 | |
| 4262 | 0.0177 | 0.7561 | 0.0134 | 0.0084 | 0.2439 | 0.004317 | 0.005 | 0.017717 | 0.00 | |
| 4262.5 | 0.0179 | 0.8209 | 0.0147 | 0.0083 | 0.1791 | 0.003206 | 0.0064 | 0.017906 | 0.00 | |
| 4263 | 0.0336 | 0.5757 | 0.0193 | 0.0107 | 0.4243 | 0.014256 | 0.0086 | 0.033556 | (0.00) | |
| 4263.5 | 0.0515 | 0.4155 | 0.0214 | 0.0134 | 0.5845 | 0.030102 | 0.008 | 0.051502 | 0.00 | |
| 4264 | 0.0629 | 0.3467 | 0.0218 | 0.0152 | 0.6533 | 0.041093 | 0.0066 | 0.062893 | (0.00) | |
| 4264.5 | 0.0768 | 0.2982 | 0.0229 | 0.0176 | 0.7018 | 0.053898 | 0.0053 | 0.076798 | (0.00) | |
| 4265 | 0.0901 | 0.3052 | 0.0275 | 0.0204 | 0.6948 | 0.062601 | 0.0071 | 0.090101 | 0.00 | |
| 4265.5 | 0.1009 | 0.3098 | 0.0313 | 0.0233 | 0.6902 | 0.069641 | 0.008 | 0.100941 | 0.00 | |
| 4266 | 0.1029 | 0.3211 | 0.033 | 0.0245 | 0.6789 | 0.069859 | 0.0085 | 0.102859 | (0.00) | |
| 4266.5 | 0.101 | 0.331 | 0.0334 | 0.0236 | 0.669 | 0.067569 | 0.0098 | 0.100969 | (0.00) | |
| 4267 | 0.0916 | 0.3582 | 0.0328 | 0.0214 | 0.6418 | 0.058789 | 0.0114 | 0.091589 | (0.00) | |
| 4267.5 | 0.0779 | 0.3933 | 0.0306 | 0.0188 | 0.6067 | 0.047262 | 0.0118 | 0.077862 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4268 | 0.0692 | 0.4123 | 0.0285 | 0.0172 | 0.5877 | 0.040669 | 0.0113 | 0.069169 | (0.00) | |
| 4268.5 | 0.0622 | 0.4248 | 0.0264 | 0.0156 | 0.5752 | 0.035777 | 0.0108 | 0.062177 | (0.00) | |
| 4269 | 0.045 | 0.5352 | 0.0241 | 0.0125 | 0.4648 | 0.020916 | 0.0116 | 0.045016 | 0.00 | |
| 4269.5 | 0.0311 | 0.7223 | 0.0225 | 0.0102 | 0.2777 | 0.008636 | 0.0123 | 0.031136 | 0.00 | |
| 4270 | 0.0334 | 0.7036 | 0.0235 | 0.0105 | 0.2964 | 0.0099 | 0.013 | 0.0334 | (0.00) | |
| 4270.5 | 0.0387 | 0.7064 | 0.0273 | 0.0113 | 0.2936 | 0.011362 | 0.016 | 0.038662 | (0.00) | |
| 4271 | 0.0436 | 0.7275 | 0.0317 | 0.0123 | 0.2725 | 0.011881 | 0.0194 | 0.043581 | (0.00) | |
| 4271.5 | 0.0517 | 0.6969 | 0.0361 | 0.0139 | 0.3031 | 0.01567 | 0.0222 | 0.05177 | 0.00 | |
| 4272 | 0.0709 | 0.5803 | 0.0412 | 0.0173 | 0.4197 | 0.029757 | 0.0239 | 0.070957 | 0.00 | |
| 4272.5 | 0.0918 | 0.5025 | 0.0461 | 0.021 | 0.4975 | 0.045671 | 0.0251 | 0.091771 | (0.00) | |
| 4273 | 0.1005 | 0.4573 | 0.046 | 0.0226 | 0.5427 | 0.054541 | 0.0234 | 0.100541 | 0.00 | |
| 4273.5 | 0.0937 | 0.4476 | 0.0419 | 0.0214 | 0.5524 | 0.05176 | 0.0205 | 0.09366 | (0.00) | |
| 4274 | 0.0829 | 0.4386 | 0.0363 | 0.0193 | 0.5614 | 0.04654 | 0.017 | 0.08284 | (0.00) | |
| 4274.5 | 0.0683 | 0.4597 | 0.0314 | 0.0166 | 0.5403 | 0.036902 | 0.0148 | 0.068302 | 0.00 | |
| 4275 | 0.0628 | 0.4972 | 0.0312 | 0.0157 | 0.5028 | 0.031576 | 0.0155 | 0.062776 | (0.00) | |
| 4275.5 | 0.0757 | 0.4861 | 0.0368 | 0.0184 | 0.5139 | 0.038902 | 0.0184 | 0.075702 | 0.00 | |
| 4276 | 0.1121 | 0.4225 | 0.0474 | 0.025 | 0.5775 | 0.064738 | 0.0224 | 0.112138 | 0.00 | |
| 4276.5 | 0.1527 | 0.3813 | 0.0582 | 0.0317 | 0.6187 | 0.094475 | 0.0265 | 0.152675 | (0.00) | |
| 4277 | 0.1945 | 0.34 | 0.0661 | 0.0375 | 0.66 | 0.12837 | 0.0286 | 0.19447 | (0.00) | |
| 4277.5 | 0.223 | 0.3084 | 0.0688 | 0.0415 | 0.6916 | 0.154227 | 0.0273 | 0.223027 | 0.00 | |
| 4278 | 0.2391 | 0.2823 | 0.0675 | 0.0439 | 0.7177 | 0.171602 | 0.0236 | 0.239102 | 0.00 | |
| 4278.5 | 0.2362 | 0.2642 | 0.0624 | 0.0434 | 0.7358 | 0.173796 | 0.019 | 0.236196 | (0.00) | |
| 4279 | 0.2246 | 0.2565 | 0.0576 | 0.0411 | 0.7435 | 0.16699 | 0.0165 | 0.22459 | (0.00) | |
| 4279.5 | 0.2104 | 0.2633 | 0.0554 | 0.0385 | 0.7367 | 0.155002 | 0.0169 | 0.210402 | 0.00 | |
| 4280 | 0.2056 | 0.2664 | 0.0548 | 0.0378 | 0.7336 | 0.150828 | 0.017 | 0.205628 | 0.00 | |
| 4280.5 | 0.2155 | 0.2507 | 0.054 | 0.0397 | 0.7493 | 0.161474 | 0.0143 | 0.215474 | (0.00) | |
| 4281 | 0.217 | 0.2438 | 0.0529 | 0.0403 | 0.7562 | 0.164095 | 0.0126 | 0.216995 | (0.00) | |
| 4281.5 | 0.2076 | 0.2421 | 0.0503 | 0.0389 | 0.7579 | 0.15734 | 0.0114 | 0.20764 | 0.00 | |
| 4282 | 0.1812 | 0.2642 | 0.0479 | 0.0348 | 0.7358 | 0.133327 | 0.0131 | 0.181227 | 0.00 | |
| 4282.5 | 0.1649 | 0.2776 | 0.0458 | 0.0323 | 0.7224 | 0.119124 | 0.0135 | 0.164924 | 0.00 | |
| 4283 | 0.1594 | 0.2775 | 0.0442 | 0.0316 | 0.7225 | 0.115167 | 0.0126 | 0.159367 | (0.00) | |
| 4283.5 | 0.1508 | 0.2812 | 0.0424 | 0.0312 | 0.7188 | 0.108395 | 0.0112 | 0.150795 | (0.00) | |
| 4284 | 0.1306 | 0.2987 | 0.039 | 0.029 | 0.7013 | 0.09159 | 0.01 | 0.13059 | (0.00) | |
| 4284.5 | 0.119 | 0.2988 | 0.0356 | 0.0284 | 0.7012 | 0.083443 | 0.0072 | 0.119043 | 0.00 | |
| 4285 | 0.119 | 0.2753 | 0.0328 | 0.0292 | 0.7247 | 0.086239 | 0.0036 | 0.119039 | 0.00 | |
| 4285.5 | 0.1259 | 0.2576 | 0.0324 | 0.0302 | 0.7424 | 0.093468 | 0.0022 | 0.125868 | (0.00) | |
| 4286 | 0.1377 | 0.2551 | 0.0351 | 0.0305 | 0.7449 | 0.102573 | 0.0046 | 0.137673 | (0.00) | |
| 4286.5 | 0.1448 | 0.2669 | 0.0386 | 0.03 | 0.7331 | 0.106153 | 0.0086 | 0.144753 | (0.00) | |
| 4287 | 0.1491 | 0.2887 | 0.043 | 0.0298 | 0.7113 | 0.106055 | 0.0132 | 0.149055 | (0.00) | |
| 4287.5 | 0.1541 | 0.3043 | 0.0469 | 0.0304 | 0.6957 | 0.107207 | 0.0165 | 0.154107 | 0.00 | |
| 4288 | 0.1529 | 0.3152 | 0.0482 | 0.0306 | 0.6848 | 0.104706 | 0.0176 | 0.152906 | 0.00 | |
| 4288.5 | 0.1506 | 0.3186 | 0.048 | 0.0308 | 0.6814 | 0.102619 | 0.0172 | 0.150619 | 0.00 | |
| 4289 | 0.1528 | 0.3155 | 0.0482 | 0.0312 | 0.6845 | 0.104592 | 0.017 | 0.152792 | (0.00) | |
| 4289.5 | 0.1616 | 0.3033 | 0.049 | 0.0321 | 0.6967 | 0.112587 | 0.0169 | 0.161587 | (0.00) | |
| 4290 | 0.1732 | 0.2882 | 0.0499 | 0.0334 | 0.7118 | 0.123284 | 0.0165 | 0.173184 | (0.00) | |
| 4290.5 | 0.1822 | 0.2763 | 0.0503 | 0.0344 | 0.7237 | 0.131858 | 0.0159 | 0.182158 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4291 | 0.1771 | 0.279 | 0.0494 | 0.0337 | 0.721 | 0.127689 | 0.0157 | 0.177089 | (0.00) | |
| 4291.5 | 0.1682 | 0.2666 | 0.0449 | 0.0323 | 0.7334 | 0.123358 | 0.0126 | 0.168258 | 0.00 | |
| 4292 | 0.1512 | 0.2578 | 0.039 | 0.0294 | 0.7422 | 0.112221 | 0.0096 | 0.151221 | 0.00 | |
| 4292.5 | 0.1367 | 0.222 | 0.0303 | 0.027 | 0.778 | 0.106353 | 0.0033 | 0.136653 | (0.00) | |
| 4293 | 0.1258 | 0.1951 | 0.0246 | 0.0246 | 0.8049 | 0.101256 | 0 | 0.125856 | 0.00 | |
| 4293.5 | 0.1232 | 0.1842 | 0.0227 | 0.0227 | 0.8158 | 0.100507 | 0 | 0.123207 | 0.00 | |
| 4294 | 0.1216 | 0.1819 | 0.0221 | 0.0221 | 0.8181 | 0.099481 | 0 | 0.121581 | (0.00) | |
| 4294.5 | 0.1106 | 0.1873 | 0.0207 | 0.0207 | 0.8127 | 0.089885 | 0 | 0.110585 | (0.00) | |
| 4295 | 0.0864 | 0.1858 | 0.0161 | 0.0161 | 0.8142 | 0.070347 | 0 | 0.086447 | 0.00 | |
| 4295.5 | 0.0757 | 0.1625 | 0.0123 | 0.0123 | 0.8375 | 0.063399 | 0 | 0.075699 | (0.00) | |
| 4296 | 0.0754 | 0.1554 | 0.0117 | 0.0117 | 0.8446 | 0.063683 | 0 | 0.075383 | (0.00) | |
| 4296.5 | 0.0757 | 0.1736 | 0.0131 | 0.0131 | 0.8264 | 0.062558 | 0 | 0.075658 | (0.00) | |
| 4297 | 0.0738 | 0.2519 | 0.0186 | 0.0186 | 0.7481 | 0.05521 | 0 | 0.07381 | 0.00 | |
| 4297.5 | 0.0836 | 0.3878 | 0.0324 | 0.0221 | 0.6122 | 0.05118 | 0.0103 | 0.08358 | (0.00) | |
| 4298 | 0.0841 | 0.4841 | 0.0407 | 0.0195 | 0.5159 | 0.043387 | 0.0212 | 0.084087 | (0.00) | |
| 4298.5 | 0.0904 | 0.4681 | 0.0423 | 0.0201 | 0.5319 | 0.048084 | 0.0222 | 0.090384 | (0.00) | |
| 4299 | 0.0818 | 0.4802 | 0.0393 | 0.0184 | 0.5198 | 0.04252 | 0.0209 | 0.08182 | 0.00 | |
| 4299.5 | 0.0667 | 0.5141 | 0.0343 | 0.0158 | 0.4859 | 0.03241 | 0.0185 | 0.06671 | 0.00 | |
| 4300 | 0.0463 | 0.5281 | 0.0245 | 0.0126 | 0.4719 | 0.021849 | 0.0119 | 0.046349 | 0.00 | |
| 4300.5 | 0.0331 | 0.5886 | 0.0195 | 0.0106 | 0.4114 | 0.013617 | 0.0089 | 0.033117 | 0.00 | |
| 4301 | 0.0267 | 0.6947 | 0.0186 | 0.0095 | 0.3053 | 0.008152 | 0.0091 | 0.026752 | 0.00 | |
| 4301.5 | 0.0239 | 0.7859 | 0.0188 | 0.009 | 0.2141 | 0.005117 | 0.0098 | 0.023917 | 0.00 | |
| 4302 | 0.0192 | 0.9644 | 0.0185 | 0.0082 | 0.0356 | 0.000684 | 0.0103 | 0.019184 | (0.00) | |
| 4302.5 | 0.0153 | 1 | 0.0153 | 0.0076 | 0 | 0 | 0.0077 | 0.0153 | - | |
| 4303 | 0.0163 | 0.9928 | 0.0162 | 0.0079 | 0.0072 | 0.000117 | 0.0083 | 0.016317 | 0.00 | |
| 4303.5 | 0.0302 | 0.7451 | 0.0225 | 0.0103 | 0.2549 | 0.007698 | 0.0122 | 0.030198 | (0.00) | |
| 4304 | 0.0602 | 0.4953 | 0.0298 | 0.0153 | 0.5047 | 0.030383 | 0.0145 | 0.060183 | (0.00) | |
| 4304.5 | 0.0941 | 0.3716 | 0.035 | 0.0207 | 0.6284 | 0.059132 | 0.0143 | 0.094132 | 0.00 | |
| 4305 | 0.1208 | 0.2823 | 0.0341 | 0.0249 | 0.7177 | 0.086698 | 0.0092 | 0.120798 | (0.00) | |
| 4305.5 | 0.1197 | 0.2575 | 0.0308 | 0.0244 | 0.7425 | 0.088877 | 0.0064 | 0.119677 | (0.00) | |
| 4306 | 0.1062 | 0.2434 | 0.0259 | 0.0221 | 0.7566 | 0.080351 | 0.0038 | 0.106251 | 0.00 | |
| 4306.5 | 0.0821 | 0.2819 | 0.0231 | 0.0182 | 0.7181 | 0.058956 | 0.0049 | 0.082056 | (0.00) | |
| 4307 | 0.081 | 0.312 | 0.0253 | 0.0179 | 0.688 | 0.055728 | 0.0074 | 0.081028 | 0.00 | |
| 4307.5 | 0.0906 | 0.3177 | 0.0288 | 0.0194 | 0.6823 | 0.061816 | 0.0094 | 0.090616 | 0.00 | |
| 4308 | 0.1002 | 0.3498 | 0.035 | 0.0209 | 0.6502 | 0.06515 | 0.0141 | 0.10015 | (0.00) | |
| 4308.5 | 0.1048 | 0.4029 | 0.0422 | 0.0215 | 0.5971 | 0.062576 | 0.0207 | 0.104776 | (0.00) | |
| 4309 | 0.1143 | 0.4391 | 0.0502 | 0.0228 | 0.5609 | 0.064111 | 0.0274 | 0.114311 | 0.00 | |
| 4309.5 | 0.1322 | 0.4294 | 0.0568 | 0.0254 | 0.5706 | 0.075433 | 0.0314 | 0.132233 | 0.00 | |
| 4310 | 0.1487 | 0.3915 | 0.0582 | 0.028 | 0.6085 | 0.090484 | 0.0302 | 0.148684 | (0.00) | |
| 4310.5 | 0.1586 | 0.3372 | 0.0535 | 0.03 | 0.6628 | 0.10512 | 0.0235 | 0.15862 | 0.00 | |
| 4311 | 0.1385 | 0.3444 | 0.0477 | 0.0275 | 0.6556 | 0.090801 | 0.0202 | 0.138501 | 0.00 | |
| 4311.5 | 0.1151 | 0.3532 | 0.0406 | 0.0242 | 0.6468 | 0.074447 | 0.0164 | 0.115047 | (0.00) | |
| 4312 | 0.1047 | 0.3485 | 0.0365 | 0.0229 | 0.6515 | 0.068212 | 0.0136 | 0.104712 | 0.00 | |
| 4312.5 | 0.1199 | 0.2871 | 0.0344 | 0.0252 | 0.7129 | 0.085477 | 0.0092 | 0.119877 | (0.00) | |
| 4313 | 0.1302 | 0.2527 | 0.0329 | 0.0263 | 0.7473 | 0.097298 | 0.0066 | 0.130198 | (0.00) | |
| 4313.5 | 0.1111 | 0.2813 | 0.0312 | 0.0227 | 0.7187 | 0.079848 | 0.0085 | 0.111048 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4314 | 0.0966 | 0.2996 | 0.029 | 0.0204 | 0.7004 | 0.067659 | 0.0086 | 0.096659 | 0.00 | |
| 4314.5 | 0.0964 | 0.2918 | 0.0281 | 0.0204 | 0.7082 | 0.06827 | 0.0077 | 0.09637 | (0.00) | |
| 4315 | 0.1011 | 0.3066 | 0.031 | 0.0212 | 0.6934 | 0.070103 | 0.0098 | 0.101103 | 0.00 | |
| 4315.5 | 0.1078 | 0.3495 | 0.0377 | 0.0222 | 0.6505 | 0.070124 | 0.0155 | 0.107824 | 0.00 | |
| 4316 | 0.1204 | 0.382 | 0.046 | 0.0241 | 0.618 | 0.074407 | 0.0219 | 0.120407 | 0.00 | |
| 4316.5 | 0.142 | 0.3754 | 0.0533 | 0.0274 | 0.6246 | 0.088693 | 0.0259 | 0.141993 | (0.00) | |
| 4317 | 0.1717 | 0.3388 | 0.0582 | 0.0318 | 0.6612 | 0.113528 | 0.0264 | 0.171728 | 0.00 | |
| 4317.5 | 0.1844 | 0.3248 | 0.0599 | 0.0336 | 0.6752 | 0.124507 | 0.0263 | 0.184407 | 0.00 | |
| 4318 | 0.1868 | 0.3159 | 0.059 | 0.034 | 0.6841 | 0.12779 | 0.025 | 0.18679 | (0.00) | |
| 4318.5 | 0.1849 | 0.3026 | 0.056 | 0.0339 | 0.6974 | 0.128949 | 0.0221 | 0.184949 | 0.00 | |
| 4319 | 0.1809 | 0.2836 | 0.0513 | 0.0335 | 0.7164 | 0.129597 | 0.0178 | 0.180897 | (0.00) | |
| 4319.5 | 0.1663 | 0.2796 | 0.0465 | 0.0316 | 0.7204 | 0.119803 | 0.0149 | 0.166303 | 0.00 | |
| 4320 | 0.1445 | 0.2701 | 0.039 | 0.0289 | 0.7299 | 0.105471 | 0.0101 | 0.144471 | (0.00) | |
| 4320.5 | 0.12 | 0.28 | 0.0336 | 0.026 | 0.72 | 0.0864 | 0.0076 | 0.12 | - | |
| 4321 | 0.1104 | 0.3089 | 0.0341 | 0.0244 | 0.6911 | 0.076297 | 0.0097 | 0.110397 | (0.00) | |
| 4321.5 | 0.1276 | 0.2947 | 0.0376 | 0.0266 | 0.7053 | 0.089996 | 0.011 | 0.127596 | (0.00) | |
| 4322 | 0.1535 | 0.2946 | 0.0452 | 0.0302 | 0.7054 | 0.108279 | 0.015 | 0.153479 | (0.00) | |
| 4322.5 | 0.1695 | 0.3043 | 0.0516 | 0.032 | 0.6957 | 0.117921 | 0.0196 | 0.169521 | 0.00 | |
| 4323 | 0.1834 | 0.3175 | 0.0582 | 0.0337 | 0.6825 | 0.125171 | 0.0245 | 0.183371 | (0.00) | |
| 4323.5 | 0.1852 | 0.3429 | 0.0635 | 0.0337 | 0.6571 | 0.121695 | 0.0298 | 0.185195 | (0.00) | |
| 4324 | 0.1794 | 0.3698 | 0.0663 | 0.033 | 0.6302 | 0.113058 | 0.0333 | 0.179358 | (0.00) | |
| 4324.5 | 0.1755 | 0.3798 | 0.0667 | 0.0327 | 0.6202 | 0.108845 | 0.034 | 0.175545 | 0.00 | |
| 4325 | 0.1743 | 0.3481 | 0.0607 | 0.0327 | 0.6519 | 0.113626 | 0.028 | 0.174326 | 0.00 | |
| 4325.5 | 0.1722 | 0.3207 | 0.0552 | 0.0323 | 0.6793 | 0.116975 | 0.0229 | 0.172175 | (0.00) | |
| 4326 | 0.1669 | 0.2774 | 0.0463 | 0.0313 | 0.7226 | 0.120602 | 0.015 | 0.166902 | 0.00 | |
| 4326.5 | 0.1599 | 0.2641 | 0.0422 | 0.03 | 0.7359 | 0.11767 | 0.0122 | 0.15987 | (0.00) | |
| 4327 | 0.1563 | 0.2554 | 0.0399 | 0.0294 | 0.7446 | 0.116381 | 0.0105 | 0.156281 | (0.00) | |
| 4327.5 | 0.1463 | 0.28 | 0.041 | 0.0281 | 0.72 | 0.105336 | 0.0129 | 0.146336 | 0.00 | |
| 4328 | 0.1335 | 0.323 | 0.0431 | 0.0264 | 0.677 | 0.09038 | 0.0167 | 0.13348 | (0.00) | |
| 4328.5 | 0.1263 | 0.3736 | 0.0472 | 0.0254 | 0.6264 | 0.079114 | 0.0218 | 0.126314 | 0.00 | |
| 4329 | 0.16 | 0.3418 | 0.0547 | 0.0308 | 0.6582 | 0.105312 | 0.0239 | 0.160012 | 0.00 | |
| 4329.5 | 0.1962 | 0.3209 | 0.063 | 0.0364 | 0.6791 | 0.133239 | 0.0266 | 0.196239 | 0.00 | |
| 4330 | 0.2252 | 0.3191 | 0.0719 | 0.0408 | 0.6809 | 0.153339 | 0.0311 | 0.225239 | 0.00 | |
| 4330.5 | 0.2354 | 0.3408 | 0.0802 | 0.0423 | 0.6592 | 0.155176 | 0.0379 | 0.235376 | (0.00) | |
| 4331 | 0.2381 | 0.343 | 0.0817 | 0.0427 | 0.657 | 0.156432 | 0.039 | 0.238132 | 0.00 | |
| 4331.5 | 0.2322 | 0.3546 | 0.0823 | 0.0417 | 0.6454 | 0.149862 | 0.0406 | 0.232162 | (0.00) | |
| 4332 | 0.2132 | 0.3765 | 0.0803 | 0.0384 | 0.6235 | 0.13293 | 0.0419 | 0.21323 | 0.00 | |
| 4332.5 | 0.2014 | 0.3709 | 0.0747 | 0.0364 | 0.6291 | 0.126701 | 0.0383 | 0.201401 | 0.00 | |
| 4333 | 0.1963 | 0.3449 | 0.0677 | 0.0357 | 0.6551 | 0.128596 | 0.032 | 0.196296 | (0.00) | |
| 4333.5 | 0.1891 | 0.3232 | 0.0611 | 0.0347 | 0.6768 | 0.127983 | 0.0264 | 0.189083 | (0.00) | |
| 4334 | 0.1785 | 0.3182 | 0.0568 | 0.033 | 0.6818 | 0.121701 | 0.0238 | 0.178501 | 0.00 | |
| 4334.5 | 0.1792 | 0.3081 | 0.0552 | 0.0331 | 0.6919 | 0.123988 | 0.0221 | 0.179188 | (0.00) | |
| 4335 | 0.1854 | 0.2938 | 0.0545 | 0.034 | 0.7062 | 0.130929 | 0.0205 | 0.185429 | 0.00 | |
| 4335.5 | 0.1907 | 0.3013 | 0.0575 | 0.0347 | 0.6987 | 0.133242 | 0.0228 | 0.190742 | 0.00 | |
| 4336 | 0.1919 | 0.3118 | 0.0598 | 0.0348 | 0.6882 | 0.132066 | 0.025 | 0.191866 | (0.00) | |
| 4336.5 | 0.1993 | 0.3113 | 0.062 | 0.036 | 0.6887 | 0.137258 | 0.026 | 0.199258 | (0.00) | |

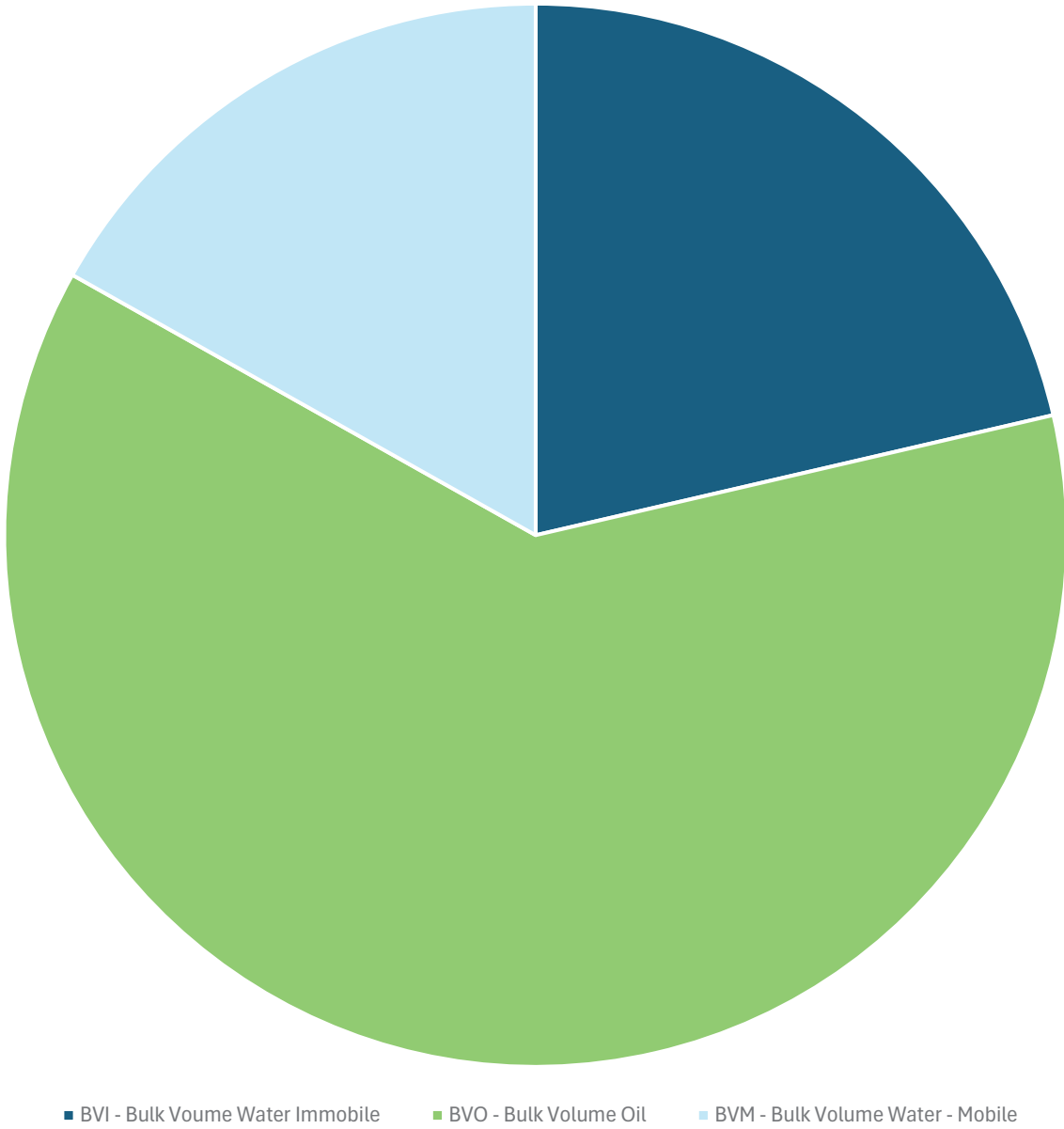
| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|------------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Water | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4337 | 0.2101 | 0.2946 | 0.0619 | 0.0379 | 0.7054 | 0.148205 | 0.024 | 0.210105 | 0.00 | |
| 4337.5 | 0.2175 | 0.2782 | 0.0605 | 0.0396 | 0.7218 | 0.156992 | 0.0209 | 0.217492 | (0.00) | |
| 4338 | 0.1896 | 0.3071 | 0.0582 | 0.0357 | 0.6929 | 0.131374 | 0.0225 | 0.189574 | (0.00) | |
| 4338.5 | 0.167 | 0.3496 | 0.0584 | 0.0326 | 0.6504 | 0.108617 | 0.0258 | 0.167017 | 0.00 | |
| 4339 | 0.1582 | 0.3717 | 0.0588 | 0.0315 | 0.6283 | 0.099397 | 0.0273 | 0.158197 | (0.00) | |
| 4339.5 | 0.1753 | 0.3415 | 0.0599 | 0.0344 | 0.6585 | 0.115435 | 0.0255 | 0.175335 | 0.00 | |
| 4340 | 0.1805 | 0.3368 | 0.0608 | 0.035 | 0.6632 | 0.119708 | 0.0258 | 0.180508 | 0.00 | |
| 4340.5 | 0.1745 | 0.3402 | 0.0594 | 0.0341 | 0.6598 | 0.115135 | 0.0253 | 0.174535 | 0.00 | |
| 4341 | 0.1448 | 0.3914 | 0.0567 | 0.0292 | 0.6086 | 0.088125 | 0.0275 | 0.144825 | 0.00 | |
| 4341.5 | 0.1298 | 0.4196 | 0.0545 | 0.0267 | 0.5804 | 0.075336 | 0.0278 | 0.129836 | 0.00 | |
| 4342 | 0.1254 | 0.4454 | 0.0558 | 0.0257 | 0.5546 | 0.069547 | 0.0301 | 0.125347 | (0.00) | |
| 4342.5 | 0.133 | 0.4446 | 0.0591 | 0.0267 | 0.5554 | 0.073868 | 0.0324 | 0.132968 | (0.00) | |
| 4343 | 0.1526 | 0.4095 | 0.0625 | 0.0298 | 0.5905 | 0.09011 | 0.0327 | 0.15261 | 0.00 | |
| 4343.5 | 0.1654 | 0.386 | 0.0639 | 0.0321 | 0.614 | 0.101556 | 0.0318 | 0.165456 | 0.00 | |
| 4344 | 0.1744 | 0.3611 | 0.063 | 0.0337 | 0.6389 | 0.111424 | 0.0293 | 0.174424 | 0.00 | |
| 4344.5 | 0.1792 | 0.3315 | 0.0594 | 0.0345 | 0.6685 | 0.119795 | 0.0249 | 0.179195 | (0.00) | |
| 4345 | 0.188 | 0.2922 | 0.0549 | 0.0359 | 0.7078 | 0.133066 | 0.019 | 0.187966 | (0.00) | |
| 4345.5 | 0.1544 | 0.3182 | 0.0492 | 0.0306 | 0.6818 | 0.10527 | 0.0186 | 0.15447 | 0.00 | |
| 4346 | 0.123 | 0.3619 | 0.0445 | 0.0262 | 0.6381 | 0.078486 | 0.0183 | 0.122986 | (0.00) | |
| 4346.5 | 0.1125 | 0.3562 | 0.0401 | 0.0251 | 0.6438 | 0.072428 | 0.015 | 0.112528 | 0.00 | |
| 4347 | 0.1101 | 0.3545 | 0.039 | 0.0253 | 0.6455 | 0.07107 | 0.0137 | 0.11007 | (0.00) | |
| 4347.5 | 0.0992 | 0.3972 | 0.0394 | 0.0235 | 0.6028 | 0.059798 | 0.0159 | 0.099198 | (0.00) | |
| 4348 | 0.091 | 0.4383 | 0.0399 | 0.0218 | 0.5617 | 0.051115 | 0.0181 | 0.091015 | 0.00 | |
| 4348.5 | 0.1 | 0.3983 | 0.0399 | 0.0236 | 0.6017 | 0.06017 | 0.0163 | 0.10007 | 0.00 | |
| 4349 | 0.1012 | 0.3667 | 0.0371 | 0.0255 | 0.6333 | 0.06409 | 0.0116 | 0.10119 | (0.00) | |
| 4349.5 | 0.0658 | 0.492 | 0.0324 | 0.0199 | 0.508 | 0.033426 | 0.0125 | 0.065826 | 0.00 | |
| 4350 | 0.0764 | 0.4548 | 0.0347 | 0.0212 | 0.5452 | 0.041653 | 0.0135 | 0.076353 | (0.00) | |
| 4350.5 | 0.0893 | 0.4394 | 0.0392 | 0.0219 | 0.5606 | 0.050062 | 0.0173 | 0.089262 | (0.00) | |
| 4351 | 0.091 | 0.465 | 0.0423 | 0.0205 | 0.535 | 0.048685 | 0.0218 | 0.090985 | (0.00) | |
| 4351.5 | 0.0856 | 0.4954 | 0.0424 | 0.0195 | 0.5046 | 0.043194 | 0.0229 | 0.085594 | (0.00) | |
| 4352 | 0.082 | 0.4829 | 0.0396 | 0.019 | 0.5171 | 0.042402 | 0.0206 | 0.082002 | 0.00 | |
| 4352.5 | 0.0917 | 0.3615 | 0.0331 | 0.0222 | 0.6385 | 0.05855 | 0.0109 | 0.09165 | (0.00) | |
| 4353 | 0.097 | 0.2844 | 0.0276 | 0.0251 | 0.7156 | 0.069413 | 0.0025 | 0.097013 | 0.00 | |
| 4353.5 | 0.0984 | 0.2497 | 0.0246 | 0.0246 | 0.7503 | 0.07383 | 0 | 0.09843 | 0.00 | |
| 4354 | 0.0896 | 0.2847 | 0.0255 | 0.0222 | 0.7153 | 0.064091 | 0.0033 | 0.089591 | (0.00) | |
| 4354.5 | 0.0807 | 0.3277 | 0.0264 | 0.0194 | 0.6723 | 0.054255 | 0.007 | 0.080655 | (0.00) | |
| 4355 | 0.0726 | 0.3585 | 0.026 | 0.0176 | 0.6415 | 0.046573 | 0.0084 | 0.072573 | (0.00) | |
| 4355.5 | 0.0652 | 0.345 | 0.0225 | 0.0168 | 0.655 | 0.042706 | 0.0057 | 0.065206 | 0.00 | |
| 4356 | 0.0594 | 0.2806 | 0.0167 | 0.0167 | 0.7194 | 0.042732 | 0 | 0.059432 | 0.00 | |
| 4356.5 | 0.0587 | 0.2433 | 0.0143 | 0.0143 | 0.7567 | 0.044418 | 0 | 0.058718 | 0.00 | |
| 4357 | 0.0654 | 0.2339 | 0.0153 | 0.0153 | 0.7661 | 0.050103 | 0 | 0.065403 | 0.00 | |
| 4357.5 | 0.0692 | 0.3076 | 0.0213 | 0.019 | 0.6924 | 0.047914 | 0.0023 | 0.069214 | 0.00 | |
| 4358 | 0.0604 | 0.4885 | 0.0295 | 0.0164 | 0.5115 | 0.030895 | 0.0131 | 0.060395 | (0.00) | |
| 4358.5 | 0.0581 | 0.7439 | 0.0432 | 0.0154 | 0.2561 | 0.014879 | 0.0278 | 0.058079 | (0.00) | |
| 4359 | 0.0818 | 0.6997 | 0.0573 | 0.0189 | 0.3003 | 0.024565 | 0.0384 | 0.081865 | 0.00 | |
| 4359.5 | 0.1012 | 0.6681 | 0.0676 | 0.0215 | 0.3319 | 0.033588 | 0.0461 | 0.101188 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | |
|--------|--------|--------|--------|--------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4360 | 0.129 | 0.5557 | 0.0717 | 0.0254 | 0.4443 | 0.057315 | 0.0463 | 0.129015 | 0.00 | |
| 4360.5 | 0.1535 | 0.4653 | 0.0714 | 0.029 | 0.5347 | 0.082076 | 0.0424 | 0.153476 | (0.00) | |
| 4361 | 0.1518 | 0.469 | 0.0712 | 0.0286 | 0.531 | 0.080606 | 0.0426 | 0.151806 | 0.00 | |
| 4361.5 | 0.1519 | 0.4774 | 0.0725 | 0.0285 | 0.5226 | 0.079383 | 0.044 | 0.151883 | (0.00) | |
| 4362 | 0.166 | 0.4626 | 0.0768 | 0.0306 | 0.5374 | 0.089208 | 0.0462 | 0.166008 | 0.00 | |
| 4362.5 | 0.1823 | 0.4549 | 0.0829 | 0.0333 | 0.5451 | 0.099372 | 0.0496 | 0.182272 | (0.00) | |
| 4363 | 0.2033 | 0.4187 | 0.0851 | 0.037 | 0.5813 | 0.118178 | 0.0481 | 0.203278 | (0.00) | |
| 4363.5 | 0.208 | 0.4001 | 0.0832 | 0.0384 | 0.5999 | 0.124779 | 0.0448 | 0.207979 | (0.00) | |
| 4364 | 0.1932 | 0.4065 | 0.0786 | 0.0361 | 0.5935 | 0.114664 | 0.0425 | 0.193264 | 0.00 | |
| 4364.5 | 0.1741 | 0.421 | 0.0733 | 0.0327 | 0.579 | 0.100804 | 0.0406 | 0.174104 | 0.00 | |
| 4365 | 0.155 | 0.4563 | 0.0707 | 0.0293 | 0.5437 | 0.084274 | 0.0414 | 0.154974 | (0.00) | |
| 4365.5 | 0.1577 | 0.4345 | 0.0685 | 0.0296 | 0.5655 | 0.089179 | 0.0389 | 0.157679 | (0.00) | |
| 4366 | 0.1695 | 0.406 | 0.0688 | 0.0315 | 0.594 | 0.100683 | 0.0373 | 0.169483 | (0.00) | |
| 4366.5 | 0.1802 | 0.3823 | 0.0689 | 0.0334 | 0.6177 | 0.111131 | 0.0355 | 0.18021 | 0.00 | |
| 4367 | 0.1851 | 0.3685 | 0.0682 | 0.0344 | 0.6315 | 0.116891 | 0.0338 | 0.185091 | (0.00) | |
| 4367.5 | 0.1807 | 0.3735 | 0.0675 | 0.0337 | 0.6265 | 0.113209 | 0.0338 | 0.180709 | 0.00 | |
| 4368 | 0.1756 | 0.3819 | 0.067 | 0.0327 | 0.6181 | 0.108538 | 0.0343 | 0.175538 | (0.00) | |
| 4368.5 | 0.1744 | 0.382 | 0.0666 | 0.0323 | 0.618 | 0.107779 | 0.0343 | 0.174379 | (0.00) | |
| 4369 | 0.174 | 0.3799 | 0.0661 | 0.0323 | 0.6201 | 0.107897 | 0.0338 | 0.173997 | (0.00) | |
| 4369.5 | 0.1742 | 0.3716 | 0.0647 | 0.0324 | 0.6284 | 0.109467 | 0.0323 | 0.174167 | (0.00) | |
| 4370 | 0.1699 | 0.3639 | 0.0618 | 0.0318 | 0.6361 | 0.108073 | 0.03 | 0.169873 | (0.00) | |
| 4370.5 | 0.1556 | 0.3571 | 0.0556 | 0.0297 | 0.6429 | 0.100035 | 0.0259 | 0.155635 | 0.00 | |
| 4371 | 0.1361 | 0.361 | 0.0491 | 0.0268 | 0.639 | 0.086968 | 0.0223 | 0.136068 | (0.00) | |
| 4371.5 | 0.1211 | 0.3616 | 0.0438 | 0.0246 | 0.6384 | 0.07731 | 0.0192 | 0.12111 | 0.00 | |
| 4372 | 0.1283 | 0.3185 | 0.0409 | 0.0259 | 0.6815 | 0.087436 | 0.015 | 0.128336 | 0.00 | |
| 4372.5 | 0.1476 | 0.2786 | 0.0411 | 0.029 | 0.7214 | 0.106479 | 0.0121 | 0.147579 | (0.00) | |
| 4373 | 0.1594 | 0.2741 | 0.0437 | 0.031 | 0.7259 | 0.115708 | 0.0127 | 0.159408 | 0.00 | |
| 4373.5 | 0.1455 | 0.3288 | 0.0478 | 0.029 | 0.6712 | 0.09766 | 0.0188 | 0.14546 | (0.00) | |
| 4374 | 0.1354 | 0.387 | 0.0524 | 0.0278 | 0.613 | 0.083 | 0.0246 | 0.1354 | 0.00 | |
| 4374.5 | 0.1394 | 0.4242 | 0.0591 | 0.0285 | 0.5758 | 0.080267 | 0.0306 | 0.139367 | (0.00) | |
| 4375 | 0.1508 | 0.414 | 0.0624 | 0.0303 | 0.586 | 0.088369 | 0.0321 | 0.150769 | (0.00) | |
| 4375.5 | 0.1583 | 0.4101 | 0.0649 | 0.0314 | 0.5899 | 0.093381 | 0.0335 | 0.158281 | (0.00) | |
| 4376 | 0.1556 | 0.4334 | 0.0674 | 0.0308 | 0.5666 | 0.088163 | 0.0366 | 0.155563 | (0.00) | |
| 4376.5 | 0.1456 | 0.4859 | 0.0708 | 0.0289 | 0.5141 | 0.074853 | 0.0419 | 0.145653 | 0.00 | |
| 4377 | 0.157 | 0.4807 | 0.0754 | 0.0302 | 0.5193 | 0.08153 | 0.0452 | 0.15693 | (0.00) | |
| 4377.5 | 0.1798 | 0.4503 | 0.081 | 0.0333 | 0.5497 | 0.098836 | 0.0477 | 0.179836 | 0.00 | |
| 4378 | 0.1892 | 0.4369 | 0.0827 | 0.0344 | 0.5631 | 0.106539 | 0.0483 | 0.189239 | 0.00 | |
| 4378.5 | 0.175 | 0.4492 | 0.0786 | 0.0323 | 0.5508 | 0.09639 | 0.0463 | 0.17499 | (0.00) | |
| 4379 | 0.1503 | 0.481 | 0.0723 | 0.0289 | 0.519 | 0.078006 | 0.0434 | 0.150306 | 0.00 | |
| 4379.5 | 0.1394 | 0.4643 | 0.0647 | 0.0276 | 0.5357 | 0.074677 | 0.0371 | 0.139377 | (0.00) | |
| 4380 | 0.1288 | 0.4484 | 0.0577 | 0.0261 | 0.5516 | 0.071046 | 0.0316 | 0.128746 | (0.00) | |
| 4380.5 | 0.1275 | 0.4196 | 0.0535 | 0.0259 | 0.5804 | 0.074001 | 0.0276 | 0.127501 | 0.00 | |
| 4381 | 0.1268 | 0.3966 | 0.0503 | 0.026 | 0.6034 | 0.076511 | 0.0243 | 0.126811 | 0.00 | |
| 4381.5 | 0.1201 | 0.3878 | 0.0466 | 0.026 | 0.6122 | 0.073525 | 0.0206 | 0.120125 | 0.00 | |
| 4382 | 0.1081 | 0.3862 | 0.0417 | 0.026 | 0.6138 | 0.066352 | 0.0157 | 0.108052 | (0.00) | |
| 4382.5 | 0.098 | 0.3788 | 0.0371 | 0.0266 | 0.6212 | 0.060878 | 0.0105 | 0.097978 | (0.00) | |

| ~A | DEPT | | | | | Checks | | | | | |
|--------|--------|--------|--------|--------|------------|--------|--------|----------|------------|------------|----------|
| | | PHIE | BVW | SW | BVI - Bulk | Voume | Water | So | BVO - Bulk | BVM - Bulk | Sum BV's |
| 4383 | 0.1032 | 0.3415 | 0.0352 | 0.0275 | | | 0.6585 | 0.067957 | 0.0077 | 0.103157 | (0.00) |
| 4383.5 | 0.101 | 0.3313 | 0.0335 | 0.0256 | | | 0.6687 | 0.067539 | 0.0079 | 0.101039 | 0.00 |
| 4384 | 0.0921 | 0.3481 | 0.0321 | 0.0221 | | | 0.6519 | 0.06004 | 0.01 | 0.09214 | 0.00 |
| 4384.5 | 0.0783 | 0.4057 | 0.0318 | 0.0188 | | | 0.5943 | 0.046534 | 0.013 | 0.078334 | 0.00 |
| 4385 | 0.0831 | 0.4012 | 0.0333 | 0.0192 | | | 0.5988 | 0.04976 | 0.0141 | 0.08306 | (0.00) |
| 4385.5 | 0.0924 | 0.387 | 0.0358 | 0.0205 | | | 0.613 | 0.056641 | 0.0153 | 0.092441 | 0.00 |
| 4386 | 0.102 | 0.3821 | 0.039 | 0.022 | | | 0.6179 | 0.063026 | 0.017 | 0.102026 | 0.00 |
| 4386.5 | 0.1113 | 0.3649 | 0.0406 | 0.0235 | | | 0.6351 | 0.070687 | 0.0171 | 0.111287 | (0.00) |
| 4387 | 0.1105 | 0.3688 | 0.0408 | 0.0236 | | | 0.6312 | 0.069748 | 0.0172 | 0.110548 | 0.00 |
| 4387.5 | 0.1075 | 0.3772 | 0.0405 | 0.0231 | | | 0.6228 | 0.066951 | 0.0174 | 0.107451 | (0.00) |
| 4388 | 0.1047 | 0.3851 | 0.0403 | 0.0227 | | | 0.6149 | 0.06438 | 0.0176 | 0.10468 | (0.00) |
| 4388.5 | 0.1038 | 0.3864 | 0.0401 | 0.0226 | | | 0.6136 | 0.063692 | 0.0175 | 0.103792 | (0.00) |
| 4389 | 0.1027 | 0.3879 | 0.0398 | 0.0225 | | | 0.6121 | 0.062863 | 0.0173 | 0.102663 | (0.00) |
| 4389.5 | 0.0998 | 0.3954 | 0.0395 | 0.0218 | | | 0.6046 | 0.060339 | 0.0177 | 0.099839 | 0.00 |
| 4390 | 0.0962 | 0.4104 | 0.0395 | 0.0209 | | | 0.5896 | 0.05672 | 0.0186 | 0.09622 | 0.00 |
| 4390.5 | 0.0926 | 0.4243 | 0.0393 | 0.0203 | | | 0.5757 | 0.05331 | 0.019 | 0.09261 | 0.00 |
| 4391 | 0.0875 | 0.4431 | 0.0388 | 0.0196 | | | 0.5569 | 0.048729 | 0.0192 | 0.087529 | 0.00 |
| 4391.5 | 0.0802 | 0.4749 | 0.0381 | 0.0185 | | | 0.5251 | 0.042113 | 0.0196 | 0.080213 | 0.00 |
| 4392 | 0.078 | 0.4868 | 0.038 | 0.0181 | | | 0.5132 | 0.04003 | 0.0199 | 0.07803 | 0.00 |
| 4392.5 | 0.0792 | 0.4842 | 0.0384 | 0.0181 | | | 0.5158 | 0.040851 | 0.0203 | 0.079251 | 0.00 |
| 4393 | 0.0805 | 0.4773 | 0.0384 | 0.0182 | | | 0.5227 | 0.042077 | 0.0202 | 0.080477 | (0.00) |
| 4393.5 | 0.0832 | 0.4574 | 0.0381 | 0.0187 | | | 0.5426 | 0.045144 | 0.0194 | 0.083244 | 0.00 |
| 4394 | 0.0877 | 0.4285 | 0.0376 | 0.0196 | | | 0.5715 | 0.050121 | 0.018 | 0.087721 | 0.00 |
| 4394.5 | 0.1023 | 0.3652 | 0.0374 | 0.0221 | | | 0.6348 | 0.06494 | 0.0153 | 0.10234 | 0.00 |
| 4395 | 0.1159 | 0.3258 | 0.0378 | 0.0246 | | | 0.6742 | 0.07814 | 0.0132 | 0.11594 | 0.00 |
| 4395.5 | 0.1198 | 0.3362 | 0.0403 | 0.0251 | | | 0.6638 | 0.079523 | 0.0152 | 0.119823 | 0.00 |
| 4396 | 0.122 | 0.3688 | 0.045 | 0.0254 | | | 0.6312 | 0.077006 | 0.0196 | 0.122006 | 0.00 |
| 4396.5 | 0.1293 | 0.3962 | 0.0512 | 0.0265 | | | 0.6038 | 0.078071 | 0.0247 | 0.129271 | (0.00) |
| 4397 | 0.1369 | 0.409 | 0.056 | 0.0279 | | | 0.591 | 0.080908 | 0.0281 | 0.136908 | 0.00 |
| 4397.5 | 0.135 | 0.4333 | 0.0585 | 0.0277 | | | 0.5667 | 0.076505 | 0.0308 | 0.135005 | 0.00 |
| 4398 | 0.1292 | 0.4476 | 0.0578 | 0.0267 | | | 0.5524 | 0.07137 | 0.0311 | 0.12917 | (0.00) |
| 4398.5 | 0.1232 | 0.4463 | 0.055 | 0.0255 | | | 0.5537 | 0.068216 | 0.0295 | 0.123216 | 0.00 |
| 4399 | 0.1209 | 0.4295 | 0.0519 | 0.0248 | | | 0.5705 | 0.068973 | 0.0271 | 0.120873 | (0.00) |
| 4399.5 | 0.1257 | 0.3957 | 0.0498 | 0.0253 | | | 0.6043 | 0.075961 | 0.0245 | 0.125761 | 0.00 |
| 4400 | 0.1285 | 0.3829 | 0.0492 | 0.0257 | | | 0.6171 | 0.079297 | 0.0235 | 0.128497 | (0.00) |
| 4400.5 | 0.1202 | 0.4113 | 0.0494 | 0.0244 | | | 0.5887 | 0.070762 | 0.025 | 0.120162 | (0.00) |
| 4401 | 0.1147 | 0.4424 | 0.0507 | 0.0235 | | | 0.5576 | 0.063957 | 0.0272 | 0.114657 | (0.00) |
| 4401.5 | 0.1185 | 0.4402 | 0.0522 | 0.024 | | | 0.5598 | 0.066336 | 0.0282 | 0.118536 | 0.00 |
| 4402 | 0.1251 | 0.4228 | 0.0529 | 0.0252 | | | 0.5772 | 0.072208 | 0.0277 | 0.125108 | 0.00 |
| 4402.5 | 0.1294 | 0.4049 | 0.0524 | 0.026 | | | 0.5951 | 0.077006 | 0.0264 | 0.129406 | 0.00 |
| 4403 | 0.1312 | 0.3913 | 0.0513 | 0.0263 | | | 0.6087 | 0.079861 | 0.025 | 0.131161 | (0.00) |
| 4403.5 | 0.1258 | 0.393 | 0.0494 | 0.0253 | | | 0.607 | 0.076361 | 0.0241 | 0.125761 | (0.00) |
| 4404 | 0.1196 | 0.3987 | 0.0477 | 0.0241 | | | 0.6013 | 0.071915 | 0.0236 | 0.119615 | 0.00 |
| 4404.5 | 0.1173 | 0.4071 | 0.0477 | 0.0236 | | | 0.5929 | 0.069547 | 0.0241 | 0.117247 | (0.00) |
| 4405 | 0.1202 | 0.4171 | 0.0502 | 0.0242 | | | 0.5829 | 0.070065 | 0.026 | 0.120265 | 0.00 |
| 4405.5 | 0.1271 | 0.4172 | 0.053 | 0.0255 | | | 0.5828 | 0.074074 | 0.0275 | 0.127074 | (0.00) |

| ~A | DEPT | | | | | Checks | | | | |
|--------|---------|----------|---------|----------|-----------------------|----------|------------|------------|----------|----------|
| | | PHIE | BVW | SW | BVI - Bulk Voume Wate | So | BVO - Bulk | BVM - Bulk | Sum BV's | Phie-BVT |
| 4406 | 0.1365 | 0.4103 | 0.056 | 0.0272 | 0.5897 | 0.080494 | 0.0288 | 0.136494 | (0.00) | |
| 4406.5 | 0.136 | 0.4247 | 0.0578 | 0.0272 | 0.5753 | 0.078241 | 0.0306 | 0.136041 | 0.00 | |
| 4407 | 0.1343 | 0.4425 | 0.0594 | 0.0267 | 0.5575 | 0.074872 | 0.0327 | 0.134272 | (0.00) | |
| 4407.5 | 0.13 | 0.4714 | 0.0613 | 0.0258 | 0.5286 | 0.068718 | 0.0355 | 0.130018 | 0.00 | |
| 4408 | 0.1282 | 0.4975 | 0.0638 | 0.0255 | 0.5025 | 0.064421 | 0.0383 | 0.128221 | 0.00 | |
| 4408.5 | 0.1337 | 0.4906 | 0.0656 | 0.0265 | 0.5094 | 0.068107 | 0.0391 | 0.133707 | 0.00 | |
| 4409 | 0.1414 | 0.4688 | 0.0663 | 0.028 | 0.5312 | 0.075112 | 0.0383 | 0.141412 | 0.00 | |
| 4409.5 | 0.1421 | 0.4678 | 0.0665 | 0.0283 | 0.5322 | 0.075626 | 0.0382 | 0.142126 | 0.00 | |
| 4410 | 0.1255 | 0.492 | 0.0618 | 0.0259 | 0.508 | 0.063754 | 0.0359 | 0.125554 | 0.00 | |
| 4410.5 | 0.1058 | 0.5109 | 0.0541 | 0.023 | 0.4891 | 0.051747 | 0.0311 | 0.105847 | 0.00 | |
| 4411 | 0.0868 | 0.547 | 0.0475 | 0.0201 | 0.453 | 0.03932 | 0.0274 | 0.08682 | 0.00 | |
| 4411.5 | 0.0749 | 0.597 | 0.0447 | 0.0182 | 0.403 | 0.030185 | 0.0265 | 0.074885 | (0.00) | |
| 4412 | 0.0777 | 0.5913 | 0.046 | 0.0185 | 0.4087 | 0.031756 | 0.0275 | 0.077756 | 0.00 | |
| 4412.5 | 0.0912 | 0.5444 | 0.0496 | 0.0203 | 0.4556 | 0.041551 | 0.0293 | 0.091151 | (0.00) | |
| 4413 | 0.1063 | 0.4993 | 0.0531 | 0.0223 | 0.5007 | 0.053224 | 0.0308 | 0.106324 | 0.00 | |
| 4413.5 | 0.1136 | 0.489 | 0.0556 | 0.0232 | 0.511 | 0.05805 | 0.0324 | 0.11365 | 0.00 | |
| 4414 | 0.1164 | 0.4851 | 0.0565 | 0.0236 | 0.5149 | 0.059934 | 0.0329 | 0.116434 | 0.00 | |
| 4414.5 | 0.1179 | 0.4646 | 0.0548 | 0.0239 | 0.5354 | 0.063124 | 0.0309 | 0.117924 | 0.00 | |
| 4415 | 0.1151 | 0.4572 | 0.0526 | 0.0234 | 0.5428 | 0.062476 | 0.0292 | 0.115076 | (0.00) | |
| 4415.5 | 0.1064 | 0.4695 | 0.05 | 0.0221 | 0.5305 | 0.056445 | 0.0279 | 0.106445 | 0.00 | |
| 4416 | 0.0936 | 0.5041 | 0.0472 | 0.0203 | 0.4959 | 0.046416 | 0.0269 | 0.093616 | 0.00 | |
| 4416.5 | 0.0817 | 0.5641 | 0.0461 | 0.0187 | 0.4359 | 0.035613 | 0.0274 | 0.081713 | 0.00 | |
| 4417 | 0.072 | 0.673 | 0.0485 | 0.0175 | 0.327 | 0.023544 | 0.031 | 0.072044 | 0.00 | |
| 4417.5 | 0.0662 | 0.9097 | 0.0603 | 0.0165 | 0.0903 | 0.005978 | 0.0438 | 0.066278 | 0.00 | |
| 4418 | 0.0733 | 0.9662 | 0.0708 | 0.0175 | 0.0338 | 0.002478 | 0.0533 | 0.073278 | (0.00) | |
| 4418.5 | 0.0922 | 0.8921 | 0.0822 | 0.0203 | 0.1079 | 0.009948 | 0.0619 | 0.092148 | (0.00) | |
| 4419 | 0.1057 | 0.8327 | 0.088 | 0.0221 | 0.1673 | 0.017684 | 0.0659 | 0.105684 | (0.00) | |
| 4419.5 | 0.1131 | 0.7563 | 0.0855 | 0.0231 | 0.2437 | 0.027562 | 0.0624 | 0.113062 | (0.00) | |
| 4420 | 0.1088 | 0.7064 | 0.0768 | 0.0223 | 0.2936 | 0.031944 | 0.0545 | 0.108744 | (0.00) | |
| | 0.11487 | 0.409693 | 0.04391 | 0.024549 | 0.590307 | 0.070961 | 0.01936 | | | |

EMSU 746 Empire Log Analysis 4084 - 4420 ft.



| | | | |
|-------------------------|------------|--|---------|
| EUNICE MONUMENT SO.UNIT | Well # 660 | | Lea, NM |
|-------------------------|------------|--|---------|

Objective: Drill & Complete
AFE: 504645
1st Rept: 04/13/2005
4/13/2005 FIRST REPORT FOR AFE #504645 TO D & C A GRAYBURG TEST IN THE EUNICE MONUMENT SOUTH UNIT IN GAINES CO., TX. Well staked 10' FSL & 1,250' FEL of Sec 3, T21S, R36E. GL: 3,561', KB: 3,577.6', AGL: 16.6'.
DWC: \$0 **CWC:** \$0 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

6/30/2005 TRRC issued Drlg Permit, API #30-025-37319.
DWC: \$0 **CWC:** \$0 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/20/2005 Drilling @ 745' (705/24 hrs). MIRU Patterson-UTI Rig #141. KB: 3,577.6' (16.6' AGL). Spud well @ 2000 hrs 10/19/05. Drl'd fr/40'-745'. Drill to surface csg point, TOO H & run 8-5/8" csg.
DWC: \$54,676 **CWC:** \$54,676 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/21/2005 RU csg crew @ 1,189' (444/24 hrs). Drl'd fr/734'-1,073' & twisted off DP. TOO H. PU overshot, TIH, tagged & latched fish. TOO H & rec fish. TIH, washed to bottom, drl'd fr/1,073'-1,189' (TD). Circ, TOO H, RU LD machine & LD 8" DC's. RU csg crew. prep to run surface csg. Cmt surface csg. NU BOP.
DWC: \$23,512 **CWC:** \$78,188 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/22/2005 TIH w/bit @ 1,278' (89/24 hrs). Ran 27 jts of new 8-5/8", 24#, J-55, STC csg. RU Halliburton cmt'd 8-5/8" csg w/425sx of Class "C" cmt containing 4% gel, 2% CaCl2 + 0.25 pps Flocele (13.5 ppg, 1.74 yld) followed by 200sx of Class "C" cmt containing 2% CaCl2 (14.8 ppg, 1.34 yld). Circ 48sx of cmt to pit. WOC & cut off conductor pipe. Installed well head. NU & tstd BOP 250/1,000#, held OK. TIH tst pipe rams 250/1,000#, held OK. Drl'd cmt & shoe. Drl'd fr/1,189'-1,278'. TOO H for BHA.
DWC: \$65,570 **CWC:** \$143,758 **DMC:** \$0 **CMC:** \$0

Casing **Location:** Surface **BEFORE THE OIL CONSERVATION COMMISSION**
DV Depth: 0.00 **Santa Fe, New Mexico**
FC Depth: 0.00 **Exhibit No. F-17**

Submitted by: Goodnight Midstream Permian, LLC
Hearing Date: September 23, 2024

| Qty | Type | Description | Case Nos. 23614-23617, 23775, 24018 - 24020, 24025, 24123 | Cond | Top Depth | Btm Depth | Length | |
|-----|--------|--|---|------|-----------|-----------|------------------|-----------|
| 1 | manual | Davis Lynch Texas Pattern Float Shoe. | | New | 0.00 | 0.00 | 0.80' | |
| 1 | manual | 8-5/8", 24#, J-55, STC Casing. | | New | 0.00 | 0.00 | 43.00' | |
| 1 | manual | Davis Lynch Float Collar. | | New | 0.00 | 0.00 | 1.38' | |
| 27 | manual | 8-5/8", 24#, J-55, STC Casing. | | New | 0.00 | 0.00 | 1,124.85' | |
| 1 | manual | 8-5/8", 24#, J-55, STC Casing Landing Joint. | | New | 0.00 | 0.00 | 21.75' | |
| | | | | | | | Total | 1,191.78' |
| | | | | | | | KB Corr | 18.00' |
| | | | | | | | - Cut Off | 21.75' |
| | | | | | | | Landed @ | 1,188.03' |

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/23/2005 Drilling @ 2,610' (1,332/24 hrs). Fin TIH. Drl'd fr/1,278'-2,610'. Drlg ahead.
DWC: \$17,964 **CWC:** \$161,722 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/24/2005 Drilling @ 3,230' (620/24 hrs). Drl'd fr/2,610'-3,230'. Drlg ahead.
DWC: \$17,417 **CWC:** \$179,139 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/25/2005 Drilling @ 3,900' (670/24 hrs). Drl'd fr/3,230'-3,900'. Drlg ahead.
DWC: \$18,599 **CWC:** \$197,738 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/26/2005 Running OH logs @ 4,450' (550/24 hrs). Drl'd fr/3,900'-4,450'. Losing approx 80 BPH while drlg fr/4,000' to TD. Circ & cond hole for logs, SOOH (No correction). RU Halliburton WL, started logging well (loggers TD 4,440'). Fin logging, TIH w/bit, circ, LD DP, run & cmt csg.
DWC: \$20,451 **CWC:** \$218,189 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Drilling Rig
10/27/2005 Rig released, RDRT @ 4,450' (0/24 hrs). Fin running OH logs, RD WL. TIH w/bit, circ hole. TOO H. LDDP & DC's. RU csg crew. Ran new 5-1/2", 17#, J-55, LTC csg. Set @ 4,448'. Cmt'd csg w/470sx of Interfill "C" cmt containing 0.25 pps flocele (11.9 ppg, 2.46 yld) followed by 330sx of Class "C" cmt containing 0.5% LAP-1, 0.4% CER-3, 0.25 pps D-AIR, 3 pps Microbond (14.8 ppg, 1.37 yld). Circ 135sx of cmt to pit. Set slips. ND BOP. Jetted & cleaned pits. RDRT. RIG RELEASED @ 0600 HRS, 10/27/05. RDRT. Prep to move.

DWC: \$95,091

CWC: \$313,280

DMC: \$0

CMC: \$0

Received by OCD: 8/26/2024 4:39:07 PM

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Casing

Location: Production
DV Depth: 0.00
FC Depth: 4,402.71

Marker 1 Depth: 3,262.28
Marker 2 Depth: 0.00

Table with columns: Qty, Type, Description, Cond, Top Depth, Btm Depth, Length. Includes items like Davis Lynch Float Shoe, jt 5-1/2", 17#, J-55, LTC csg., etc.

EUNICE MONUMENT SO.UNIT #660

Rig:

Pulling Unit

12/7/2005

Bull Dog MI & Racked 4,500' of 2-7/8", 6.5#, N-80, EUE, 8rd XTO WS. Installed matten board. MIRU Nabors Well Service PU (Lozano). ND WH. NU BOP. PU 4-3/4" bit, 5-1/2" csg scraper & BS. RIH w/128 - 2-7/8", 6.5#, N-80, EUE, 8rd XTO WS. Tagged btm @ 4,382'. PU to 4,350'. RU Key pmp trk. Circ TCA w/130 bbls of 8.6 brine wtr to fract tnk. Tstd TCA to 1000#, held ok. RD Key pmp trk. POOH w/tbg. LD csg scraper, BS & bit. SWI & SDON.

DWC: \$5,000 CWC: \$318,280 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig:

Pulling Unit

12/8/2005

RU Halliburton WL trk. RIH & run CBL/GR/CCL fr TD to 3,000' w/0 psig on TCA. Correlate to Halliburton Density/Neutron log dated 10-26-05. Make repeat pass fr TD to 3,000' w/1000# on csg. POOH w/WL. PU & RIH w/4" perforating gun (3 spf/120 deg phasing) & perforated the following intervals (correlate to CBL): 4,237' - 4,239' (2' & 6 holes), 4,216' - 4,220' (4' & 12 holes), 4,180' - 4,184' (4' & 12 holes), 4,170' - 4,174' (4' & 12 holes), 4,152' - 4,158' (6' & 18 holes) & 4,126' - 4,130' (4' & 12 holes). POOH w/WL & guns. RD Halliburton. RIH w/2-7/8" tbg & BJ Services PPI pkr assembly w/collar locator w/10' spacing on WS. Left pkr swinging free @ 4,087'. SWI & SDON. Will acidize in the morning.

DWC: \$9,000 CWC: \$327,280 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig:

Pulling Unit

12/9/2005

RU Cudd Acidizing Services. Loaded tbg w/1 BW. Dropped fluid control bar. RIH w/5 jts of 2-7/8" XTO WS. Rel PPI tool. RIH & straddled perfs fr 4,237' - 4,239'. Spotted 2 bbls of acid to end of tbg. Set tools. Press tbg to 800#. Waited for perfs to break. Perfs broke. Bled press off. Rel pkr. PUH & straddled perfs fr 4,216' - 4,220'. Pmpd in 3-1/2 bbls of acid w/5 BW. Set bk dwn on pkr. Press up on perfs to 800#. Perfs communicated w/lower set. PUH & straddled perfs fr 4,180' - 4,184'. Pmpd in 7 bbls of acid w/5 BW. Press perfs to 800#. Perfs broke. PUH straddled perfs fr 4,170' - 4,174'. Pmpd in 7 bbls of acid w/7 BW. Press perfs to 800#. Perfs broke. PUH straddled perfs fr 4,152' - 4,158'. Pmpd in 1.5 bbls of acid in 2 hrs. Press up on perfs to 1,500 psig. Perfs never did break. PUH straddled perfs fr 4,126' - 4,130'. Pmpd in 7 bbls of acid w/6 BW. Perfs broke @ 800#. Flushed acid to btm w/25 BW. Set PPI tool @ 4,080'. RU sd line. RIH & retrieved fluid control bar. Open bypass on pkr. Pmpd 10 BW dwn TCA to flush any acid out of TCA. SD. RD Cudd Acidizing. 5" SITP vac. 148 BLWTR. AIR - 0.4 BPM, max press - 1,500 psig, min press - 0 psig, avg press - 700 psig. SWI & SDON.

DWC: \$11,000 CWC: \$338,280 DMC: \$0 CMC: \$0

Stimulation

Zone: San Andres

Event Desc: Acidize San Andres

Top Interval: 4,126

Bottom Interval: 4,239

Table with columns: Event, Stage, Vol, Rate, Press, Comments. Includes rows for acidizing events with volumes and pressures.

Ttl Gals: 2,276

EUNICE MONUMENT SO.UNIT #660

Rig:

Pulling Unit

12/10/2005

SITP 0 psig. RU swab equipment. BFL 1,300' FFS. Made 42 swab runs. Rec 0 BO, 240 BW & very little gas. EFL 1,000' FFS. RD swab. SWI & SDON.

DWC: \$1,900 CWC: \$340,180 DMC: \$0 CMC: \$0

Swab

Zone: San Andres

Event Desc: Swab after acid job

Top Interval: 4,126

Bottom Interval: 4,239

Table with columns: Time, Swab Runs, Casing Psig, Tubing Psig, Beg FL, Rec Comments. Includes rows for swabbing operations.

Released to Imdging: 8/27/2024 11:07:36 AM

Rig: Received by OGD on 8/26/2024 4:39:07 PM

12/11/2005 SDF Saturday.
DWC: \$0 CWC: \$340,180 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
12/12/2005 SDF Sunday.
DWC: \$0 CWC: \$340,180 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
12/13/2005 SITP 300 psig. RU swab equipment. BFL 1,300' FFS. Made 56 swab runs. Rec 0 BO, 315 BW & some descent gas. EFL 1,100' FFS. RD swab. SWI & SDON.
DWC: \$3,000 CWC: \$343,180 DMC: \$0 CMC: \$0

Swab Zone: San Andres
Event Desc: Swab after acid job
Table with columns: Time, Swab Runs, Casing Psig, Tubing Psig, Beg FL, BBLs, Rec Comments. Includes Ttl Bbls: 315.00

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
12/14/2005 SITP 250 psig. Rel PPI assbly. POOH w/tbg & tools. RIH w/5-1/2" pkr, TS retrieving head, RBP & 134 jts of 2-7/8", 6.5#, N-80, EUE, 8rd WS. Left RBP swinging free below pkr. Set pkr @ 4,194'. RU swab equipment. Swab perfs fr 4,216 to 4,239'. BFL @ 1,300' FFS. Made 6 swab runs. Rec 25 BW. Swab run #3 showed some gas. EFL 1,300' FFS. Rel pkr. PUH & set RBP @ 4,200'. Set pkr @ 4,177'. Swab perfs fr 4,180' to 4,184'. BFL @ 1,000' FFS. Made 5 swab runs. Rec 41 BW. Showed some gas. EFL 1,600 FFS. Rel pkr. PUH & set RBP @ 4,177'. Set pkr @ 4,162'. Swab perfs fr 4,170' to 4,174'. BFL @ 1,100 FFS. Made 5 runs. Rec 39 BW. Showed some gas. EFL @ 1,600 FFS. Rel pkr. PUH & set RBP @ 4,164'. Set pkr @ 4,140'. Swab perfs fr 4,152' to 4,158'. BFL @ 900 FFS. Made 5 runs. Rec 20 BW. Showed no gas & swabbed dry on last run. Rel pkr. PUH & set RBP @ 4,141'. Set pkr @ 4,102'. Swab perfs fr 4,126' to 4,130'. BFL @ 1,200 FFS. Made 4 runs. Rec 19 BW. EFL 1,300 FFS. Showed some gas. Total fluid rec 144 BW. Rel pkr. RIH & latched on to RBP. Rel RBP. POOH & LD 60 jts of 2-7/8" WS. SWI & SDON.
DWC: \$4,500 CWC: \$347,680 DMC: \$0 CMC: \$0

Swab Zone: San Andres
Event Desc: Swab after acid job
Table with columns: Time, Swab Runs, Casing Psig, Tubing Psig, Beg FL, BBLs, Rec Comments. Includes Ttl Bbls: 144.00

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
12/15/2005 SITP 80 psig. Fin POOH LD WS & PPI tool. MI & Racked 4,100' of 2-7/8", 6.5#, J-55, EUE, 8rd tbg. RU Centrilift Spooler. RIH w/rented Centrilift 93 hp, 1,760v, 35a FMH mtr, seal section, RGS, 214 stg FC1800 sub pmp, tbg sub, SN, 74' #5/450 mtr lead cable & 5,260' #4 flat cable on 127 jts 2-7/8", 6.5#, J-55, EUE, 8rd tbg (new). RD spoolers. ND BOP. NU WH. Left well SI due to darkness. Will start up Thursday morning. PI is @ 4,028'.
DWC: \$30,000 CWC: \$377,680 DMC: \$0 CMC: \$0

Tubing Location: Lower
Table with columns: Zone, Object, Desc, Top Perf, Btm Perf, OH, No

Table with columns: Qty, Type, Description, Cond, Top Depth, Btm Depth, Length. Lists equipment like Motor FMH/Cent 93/1760/35, Seal FSB3-DB-H6-EHL-PFS Bag Type, Gas Separator FRSXH6FERNAR Rotary, Pump - FC1800 FPMT 214 Stage, Tubing 2-7/8", 6.5#, J-55, EUE, 8rd Tubing Sub, Tubing 2-7/8", 6.5#, J-55, EUE, 8rd Tubing

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
12/16/2005 RDMO PU. Left well SI. Repairing flowline. Will turn well on in the morning.
DWC: \$500 **CWC:** \$378,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
12/28/2005 In 24 hrs, well made 1,100 BW, trace of oil & 300 mcf. FL is @ 300 FAP. Will speed up Wednesday if FL is still @ 300 FAP.
DWC: \$0 **CWC:** \$378,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
12/31/2005 In 24 hrs, well pmpd 4 BO, 1200 BW & 305 Mcf. Running 70 HZ. FAP 700'. Will increase to 75 HZ.
DWC: \$0 **CWC:** \$378,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
1/11/2006 In 24 hrs, well pmpd 3 BO, 1057 BW & 190 Mcf. Running 75 HZ. FAP 60'. Final Report.
DWC: \$0 **CWC:** \$378,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
2/28/2006 MIRU Nabors Well Service PU (Lozano). RU Centrlift spoolers. ND WH. NU BOP. POOH w/tbg. LD pmp. RD Spoolers. SWI & SDON. Will perforate in the morning.
DWC: \$6,000 **CWC:** \$384,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
3/1/2006 RU Gray WL trk. PU & RIH w/4" perforating gun (6 spf/60 deg phasing) & perforated the following intervals (correlated to CBL): 3,906' - 3,912' (6' & 36 holes), 3,866' - 3,890' (24' & 144 holes), 3,804' - 3,830' (26' & 156 holes) & 3,784' - 3,796' (12' & 72 holes). POOH w/WL & guns. RD Gray. PU 5-1/2" HD pkr, MCL, TS running tool & TS RBP. RIH w/122 jts of 2-7/8" tbg. Left tools swinging free @ 3,700'. SWI & SDON. Will acidize in the morning.
DWC: \$16,000 **CWC:** \$400,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
3/2/2006 RIH w/tbg & tools. Set RBP @ 3,930'. Rel fr plug. PUH to 3,850' w/pkr. RU Cudd Acidizing Services. Pmpd 38 bbls of 8.6# brine wtr to break circ. Acidized perfs: 3,866' - 3,912'. Spotted 500 gals of 15% NEFE HCL acid to EOT. Waited 1 hr. Std bk pmpg acid. Well was already on a vac. Rel pkr. RIH & latched on to RBP. PUH w/tools. Set plug @ 3,850'. Rel fr plug. PUH w/pkr. Spotted 500 gals of 15% NEFE HCL acid to EOT. Set pkr. Pmpd into perfs: 3,784' - 3,830' @ 1 BPM @ 722 psig. Rel pkr. Over flushed acid w/30 BW to ensure all acid was gone. RIH w/pkr. Latched on to plug. RIH w/plug to 3,930'. Set plug. Rel fr plug. PUH to 3,760' & set pkr. SD. RD Cudd Acidizing. SWI for 1 hr(vac). 102 BLWTR. AIR - 1.4 BPM, max press - 800 psig, min press - 0 psig, avg press - 513 psig. RU swab equipment. BFL @ 2,300 FFS. Made 25 swab runs. Rec 61 BW & 1 BO. Showed gas w/each swab run. BLWTR 102. EFL @ 3,500 FFS. Swbd dry. SWI & SDON.
DWC: \$8,000 **CWC:** \$408,180 **DMC:** \$0 **CMC:** \$0

Stimulation

| Event Desc: | Zone: | Stage | Vol | Rate | Top Interval: | Bottom Interval: | Press | Comments |
|------------------|-------|-------|-------|--------|---------------|------------------|-------|---|
| Seq | Desc | (gal) | (bpm) | (psig) | | | | |
| 1 | Acid | 500 | 1.0 | 0.0 | 0 | | | After spotting 1 bbl of acid out EOT. Waited 1 hr before pmpg rest of acid. Perfs: 3,866' - 3,912' had already went on a vac. |
| 3 | Acid | 500 | 1.0 | 350.0 | | | | Spotted acid across perfs: 3,784' - 3,830'. |
| 5 | Flush | 1,260 | 1.0 | 0.0 | | | | Over flushed acid to btm perfs w/30 BW. ISIP 0 psig. BLWTR 102. |
| Ttl Gals: | | 2,260 | | | | | | |

Swab

| Event Desc: | Zone: | Swab | Casing | Tubing | Beg | Top Interval: | Bottom Interval: | BBLs | Rec | Comments |
|------------------|-------|------|--------|--------|-------|---------------|------------------|------|---|----------|
| Time | Runs | Psig | Psig | FL | FL | | | | | |
| 12:00 | 0 | 0 | 0 | 2,300 | 0.00 | 3,784 | | | SITP vac. | |
| 17:00 | 25 | 0 | 0 | 3,500 | 62.00 | | 3,912 | | Swbd perfs: 3,784' to 3,912'. Swbd dry. Rec 61 BW & 1 BO. BLWTR 40. | |
| Ttl Bbls: | | | | | 62.00 | | | | | |

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
3/3/2006 Rel pkr. RIH & latched on to RBP. Rel plug. POOH w/tbg & LD tools. RU Gray WL. RIH w/7K composite plug. Set plug @ 4,000'. POOH w/WL & setting tools. RD Gray. PU & RIH w/BPMA, PS, SN, 2-7/8" TK-99 blast jt, 8 jts of 2-7/8", 6.5#, J-55, EUE, 8rd tbg, 5-1/2" TAC & 117 jts of 2-7/8", 6.5", J-55, EUE, 8rd tbg. ND BOP. Set TAC w/18 pts tens. NU WH. SWI & SDON.
DWC: \$6,500 **CWC:** \$414,680 **DMC:** \$0 **CMC:** \$0

ZONE 1 Desc: Grayburg
Object 1 Desc: 3-1/2" Composite Plug
Object 2 Desc: 2-7/8" SN
Object 3 Desc: 5-1/2" Cain

Id: PBTD Depth: 4,000.00
 Id: SN Depth: 3,934.00
 Id: TAC Depth: 3,646.00

| Qty | Type | Description | Cond | Top Depth | Btm Depth | Length |
|-----------------|--------|--|------|-----------|-----------|-----------|
| 1 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd tbg w/male BP | New | 3,939.02 | 3,970.72 | 31.70' |
| 1 | Other | 2-7/8" Perf Sub | New | 3,934.92 | 3,939.02 | 4.10' |
| 1 | Other | 2-7/8" API SN | New | 3,933.82 | 3,934.92 | 1.10' |
| 1 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd IPC tbg (TK-99) | New | 3,901.82 | 3,933.82 | 32.00' |
| 8 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing | Same | 3,649.10 | 3,901.82 | 252.72' |
| 1 | Other | 2-7/8" x 5-1/2" TAC | New | 3,646.38 | 3,649.10 | 2.72' |
| 117 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing | Same | 16.50 | 3,646.38 | 3,629.88' |
| Total | | | | | | 3,954.22' |
| KB Corr | | | | | | 16.50' |
| Landed @ | | | | | | 3,970.72' |

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
3/4/2006 RIH w/1" x 12' GA, 2.5" x 2" x 24' RXBC pmp w/3' plngr (SN# DC-894), 1 - 7/8" x 4' stabilizer sub, 12 - 1-1/2" K-bars(new), 94 - 7/8" D-78 rods(new), 50 - 1" D-78 rods(new) & 1-1/2" x 26' SM PR. RU pmp trk. Load tbg w/13 bbls of FW. Press up in 5 strokes to 500 psig, held ok. RD pmp trk. Leave rods stacked out & wait on Pmpg unit to be set. RDMO PU. SWI & SDON.

DWC: \$15,000 **CWC:** \$429,680 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

3/8/2006 Lufkin MI & set an American 912-365-168 pmpg unit. Running @ 7.5 SPM.

DWC: \$3,500 **CWC:** \$433,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

3/10/2006 In 24 hrs, well pmpd 11 BO, 158 BW & 5 MCF. Running 50% on timer. FAP 0'. Final Report.

DWC: \$0 **CWC:** \$433,180 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forst Gas: **Prev Gas:** 2
Forst Oil: 0 **Prev Oil:** 5
Forst H2O: 0 **Prev H2O:** 85

7/12/2006 MIRU Nabors Well Service PU (Lozano). POOH w/rods. LD pmp. ND WH. Rel TAC. NU BOP. POOH w/tbg. SWI & SDON.

DWC: \$2,500 **CWC:** \$435,680 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forst Gas: **Prev Gas:** 2
Forst Oil: 0 **Prev Oil:** 5
Forst H2O: 0 **Prev H2O:** 85

7/13/2006 RIH w/Sonic Hammer tool on EOT. RU Cudd Acidizing Well Service. RIH & Sonic Hammer washed perms: 3,784' - 3,912' w/180 bbls of 8.6# brine while circ to rev pit. Circ hole clean. SI backside. Sonic Hammered perms w/3000 gals of 20% NEFE HCL (approx 20 bbls per stand). Flushed acid to btm w/9 BW. Dropped ball to shift sleeve in tool. BLWTR 346. Avg BPM 4.6. Avg inj press 1,630 psig. SITP 5" 0 psig (vac). RD Cudd Acidizing Crew. SWI for 1 hr. PUH to 3,750'. RU swab equip. BFL @ 2,600 FFS. Made 14 swab runs. Rec 55 bbls of wtr (trace of oil & some gas). EFL @ 3,100 FFS. RD swab. SWI & SDON.

DWC: \$19,500 **CWC:** \$455,180 **DMC:** \$0 **CMC:** \$0

Stimulation

| Event Desc: | Zone: | Top Interval: | Bottom Interval: |
|-----------------------------|----------|---------------|------------------|
| Sonic Hammer Acid Treatment | Grayburg | 3,784 | 3,912 |

| Event | Stage | Vol | Rate | Press | Comments |
|------------------|-------|-------|-------|---------|---|
| Seq | Desc | (gal) | (bpm) | (psig) | |
| 1 | Acid | 546 | 5.2 | 1,710.0 | Perfs: (3,784' - 3,796'). |
| 3 | Acid | 1,218 | 4.6 | 1,790.0 | Perfs: (3,804' - 3,868'). |
| 5 | Acid | 1,218 | 3.9 | 1,610.0 | Perfs: (3,868' - 3,912'). |
| 7 | Flush | 378 | 2.0 | 1,600.0 | Flushed acid to btm. BLWTR 346. SITP 5" 0 psig (vac). |
| Ttl Gals: | | 3,360 | | | |

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forst Gas: **Prev Gas:** 2
Forst Oil: 0 **Prev Oil:** 5
Forst H2O: 0 **Prev H2O:** 85

7/14/2006 RU swab equip. SITP 40 psig. BFL @ 2,900 FFS. Made 48 swab runs. Rec 167-1/2 BW & 3-1/2 BO. Showed some gas w/each swab run. EFL @ 3,000 FFS. RD swab. BLWTR 120. SWI & SDON.

DWC: \$4,200 **CWC:** \$459,380 **DMC:** \$0 **CMC:** \$0

Swab **Zone:** Grayburg
Event Desc: Swab **Top Interval:** 3,784 **Bottom Interval:** 3,912
Swab **Casing** **Tubing** **Beg** **BLS**

17:30 48 0 40 2,900 0.00 Swab perfs: (3,784' - 3,912').
 40 3,000 171.00 Rec 167-1/2 BW & 3-1/2 BO. 2% oil cut. BLWTR 120.

Ttl Bbls: 171.00

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/15/2006 POOH w/tbg & tools. RU Gray WL. RIH w/4-1/2" perforating guns w/6 spf @ 60 degree phasing. Perf'd the following intervals: 3,840' - 3,850', 3,764' - 3,770' & 3,750' - 3,756'. POOH w/WL & guns. RD Gray WL. RIH w/5-1/2" PPI assbly w/15' spacing on EOT. Left tbg & tools swinging free @ 3,740'. SWI & SDON.

DWC: \$10,200 CWC: \$469,580 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/16/2006 SDF Saturday.

DWC: \$0 CWC: \$469,580 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/17/2006 SDF Sunday.

DWC: \$0 CWC: \$469,580 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/18/2006 SITP 50 psig. RU Cudd Acidizing Services. Treated each set of perfs w/500 gals of 20% HCL. Loaded tbg w/14 BW. Dropped fluid control bar. RIH w/5 jts of 2-7/8" tbg. Rel PPI tool. RIH & straddled perfs 3,840' - 3,850'. Spotted 2 bbls of acid out EOT 4 times. Set tools. Press up on perfs to 1,500 psig. Waited for perfs to break. Perfs did not break dwn. Bled press off. Rel pkr. PUH & straddled perfs 3,764' - 3,770'. Spotted 1 bbl of acid out EOT. Press up on perfs to 1,500 psig. Perfs broke dwn after 5". Pmpd in 11 bbls of acid w/5 BW. Rel pkr. PUH & straddled perfs 3,750' - 3,756'. Set bk dwn on pkr. Press up on perfs to 1,500 psig. Perfs communicated instantly w/lower set of perfs below. Pmpd in 12 bbls of acid w/5 BW. Flushed acid to btm w/30 BW. Rel pkr. PUH & set PPI tool @ 3,740'. RU sd line. RIH & retrieved fluid control bar. Opened bypass on pkr. Pmpd 60 BW dwn TCA to flush any acid out of TCA. SD. RD Cudd Acidizing. SITP 5" 0 psig (vac). BLWTR 276. AIR - 0.4 BPM, max press - 1,500 psig, min press - 0 psig, avg press - 700 psig. RU swab equip. BFL @ 1,850 FFS. Made 16 swab runs. Rec 97 BW. Showed some gas w/each run. EFL @ 2,100 FFS. RD swab. SWI & SDON.

DWC: \$11,500 CWC: \$481,080 DMC: \$0 CMC: \$0

Stimulation

Zone: Grayburg
 Event Desc: Acid treatment
 Top Interval: 3,750 Bottom Interval: 3,850

| Event Seq | Stage Desc | Vol (gal) | Rate (bpm) | Press (psig) | Comments |
|-----------|------------|-----------|------------|--------------|---|
| 1 | Acid | 336 | 0.0 | 1,500.0 | Perfs: (3,840' - 3,850'). Perfs never did break dwn after 4 hrs. |
| 3 | Acid | 504 | 0.5 | 1,500.0 | Perfs: (3,764' - 3,770'). |
| 5 | Acid | 504 | 0.5 | 5.0 | Perfs: (3,750' - 3,756'). Perfs communicated instantly w/perfs below. |
| 7 | Flush | 1,260 | 2.0 | 0.0 | Flushed acid to btm. SITP 5" 0 psig (vac). BLWTR 276. |

Ttl Gals: 2,604

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/19/2006 SITP 250 psig. RU swab equip. BFL @ 1,800 FFS. Made 37 swab runs. Rec 210 BW. Showed some gas w/each run. EFL @ 2,000 FFS. RD swab. BLWTR 0. Rel PPI assbly. POOH w/tbg. LD tools. SWI & SDON.

DWC: \$5,000 CWC: \$486,080 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit
 Forcst Gas: Prevl Gas: 2
 Forcst Oil: 0 Prevl Oil: 5
 Forcst H2O: 0 Prevl H2O: 85

7/20/2006 SITP 200 psig. PU & RIH w/5-1/2" RBP & pkr on EOT. Set pkr @ 3,857'. RU Key pmp trk loaded w/6 drums of T-249 & 5 gals of DP-61 mixed w/72 bbls of FW. Pmpd 26 bbls of pill mixture into perfs 3,866' - 3,912'. Overflushed chem w/64 bbls of produced wtr mixed w/5 gals of RN-211 dwn tbg @ 2 BPM @ 0 psig. Rel pkr. PUH & set RBP @ 3,858'. Rel fr plug. PUH to 3,777' & set pkr. RU Key pmp trk & transport. Pmpd 26 bbls of pill mixture into perfs 3,784' - 3,850'.

| | | | | | | | |
|-----|--------|---|------|----------|----------|-----------------|----------|
| 1 | manual | Pump - TD/1750 ESP 100 Stage | New | 3,701.70 | 3,719.30 | 17.60 | |
| 1 | Other | 2-7/8" API SN | New | 3,683.00 | 3,684.10 | 1.10 | |
| 1 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing Sub | New | 3,678.90 | 3,683.00 | 4.10 | |
| 116 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing | Same | 16.50 | 3,678.90 | 3,662.40 | |
| | | | | | | Total | 3,736.22 |
| | | | | | | KB Corr | 16.50 |
| | | | | | | Landed @ | 3,752.72 |

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
 10/14/2006 In 24 hrs, well made 0 BO, 2,517 BW & 223 MCF. FAP 200. Final Report.
DWC: \$0 **CWC:** \$517,580 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Objective: Upgrade Pmp & Equipment, RWTP
Rig: Pulling Unit
Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
1st Rept: 09/12/2007
 9/13/2007 MIRU Nabors Well Services PU (Lozano). SD
DWC: \$596 **CWC:** \$596 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
 9/14/2007 RU Woods Group Spooler. POOH w/116 jts of 2-7/8" J-55 tbg. LD sub pmp. RIH w/ESP u-base, ESP 80 hp, 2,155v, 24a mtr, lower seal section (TR4-STD/ESP), adaptor, upper seal section (TR4-STD/ESP), Gas separator(3B/LT/ESP), ESP Wood Group 125 stg TD/2200 sub pmp (SN# 2F7123566M), ESP Wood Group 41 stg TD/2200 sub pmp (SN# 2F7G23304M), SN, 2-7/8" x 4' tbg sub, 30' - #6FL mtr lead cable & 3,800' #4 flat cable on 116 jts of 2-7/8", 6.5#, J-55, EUE, 8rd tbg. PI @ 3,713'. ND BOP. NU WH. Sub pmp up in 10". RD spoolers. RWTP.
DWC: \$9,300 **CWC:** \$9,896 **DMC:** \$0 **CMC:** \$0

Tubing Location: Lower
ZONE 1 Desc: Grayburg Top Perf: 3,750.00 Btm Perf: 3,912.00 OH: No
Object 1 Desc: 5-1/2 17# Id: PBTD Depth: 4,000.00
Object 2 Desc: 2-7/8 Id: PI Depth: 3,713.00
Object 3 Desc: Id: Depth: 0.00

| Qty | Type | Description | Cond | Top Depth | Btm Depth | Length | |
|-----|--------|---|------|-----------|-----------|-----------------|-----------|
| 1 | manual | Other - ESP - U-Base | New | 3,749.70 | 3,750.30 | 0.60' | |
| 1 | manual | Other - Motor - 80 hp, 2,155 volt, 24 amp | New | 3,728.90 | 3,749.70 | 20.80' | |
| 2 | manual | Other - Seals | New | 3,717.70 | 3,728.90 | 11.20' | |
| 1 | manual | Other - Intake | New | 3,713.70 | 3,717.70 | 4.00' | |
| 1 | manual | Other - Pump 125 stg TD/2200 | New | 3,691.90 | 3,713.70 | 21.80' | |
| 1 | manual | Other - Pump 41 stg TD/2200 | New | 3,684.10 | 3,691.90 | 7.80' | |
| 1 | Other | 2-7/8" API SN | New | 3,683.00 | 3,684.10 | 1.10' | |
| 1 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing Sub | New | 3,678.90 | 3,683.00 | 4.10' | |
| 116 | Tubing | 2-7/8", 6.5#, J-55, EUE, 8rd Tubing | Same | 16.50 | 3,678.90 | 3,662.40' | |
| | | | | | | Total | 3,733.80' |
| | | | | | | KB Corr | 16.50' |
| | | | | | | Landed @ | 3,750.30' |

EUNICE MONUMENT SO. UNIT #660

Rig: Pulling Unit
Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
 9/15/2007 Check parameters on ESP, RDMO PU.
DWC: \$600 **CWC:** \$10,496 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
 10/4/2007 In 24 hrs, well made 6 BO, 2,216 BW & 186 MCF w/761 FAP.
DWC: \$0 **CWC:** \$10,496 **DMC:** \$0 **CMC:** \$0

EUNICE MONUMENT SO. UNIT #660

Forcst Gas: 0 **Prev Gas:** 42
Forcst H2O: 0 **Prev H2O:** 646
 10/24/2007 In 24 hrs, well made 11 BO, 2,135 BW & 179 MCF w/501 FAP.
DWC: \$0 **CWC:** \$10,496 **DMC:** \$0 **CMC:** \$0

Received by OCD: 8/26/2024 4:39:07 PM

Forst H2O: 0 Prev Gas: 42 Prev H2O: 646

10/28/2007 In 24 hrs, well made 11 BO, 2,135 BW & 179 MCF w/501 FAP.

DWC: \$0 CWC: \$10,496 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO. UNIT #660

Forst Gas: Prev Gas: 42

Forst H2O: 0 Prev H2O: 646

11/20/2007 In 24 hrs, well made 10 BO, 2,104 BW & 180 MCF w/400 FAP.

DWC: \$0 CWC: \$10,496 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO. UNIT #660

Forst Gas: Prev Gas: 180

Forst Oil: 0 Prev Oil: 10

Forst H2O: 0 Prev H2O: 2104

AFE: 715446

12/12/2007 Purchased VSD, auto transformers & CTI controller that comm w/XSPOC. Final Report.

DWC: \$44,000 CWC: \$54,496 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO. UNIT #660

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

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

| |
|---|
| WELL API NO. 30-025-37356 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23000 |
| 7. Lease Name or Unit Agreement Name EUNICE MONUMENT SOUTH UNIT |
| 8. Well Number 746 |
| 9. OGRID Number 5380 |
| 10. Pool name or Wildcat EUNICE MONUMENT GRAYBURG;SAN ANDRES |

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
XTO ENERGY INC.

3. Address of Operator
200 LORAIN STE 800 MIDLAND, TX 79701

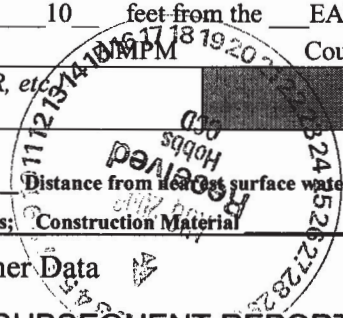
4. Well Location
Unit Letter H : 1380 feet from the NORTH line and 10 feet from the EAST line
Section 15 Township 21-S Range 36-E County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3567 GL

Pit or Below-grade Tank Application or Closure

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON

TEMPORARILY ABANDON CHANGE PLANS

PULL OR ALTER CASING MULTIPLE COMPL

OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTERING CASING

COMMENCE DRILLING OPNS. P AND A

CASING/CEMENT JOB

OTHER: **COMPLETION OF NEW DRILL**

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.

- 9/17/2005 MIRU TO COMPLETE NEW DRILL, TAGD BTM @5352'
PERF 4990-5138 - 144 HOLES - 3 JSPF - ACD W/1500 GALS 15% NEFE ACD
PERF SAN ANDRES - 4100-4340, 150 HOLES, 3 JSPF, ACD W/2000 GALS 15%, REC 134 BBLs WTR
- 10-01/2005 RIH W/SUB PMP, ESP 75 HP, 1410V, 36A, UT MTR. PMPD 0 BO, 110 MCF, 1295 WTR IN 24 HRS
- 12/17/2005 PERF 3878 - 3988, 36 HOLES, 3 JSPF, ACD W/1600 GALS 15% ACD. 55 SWB RUNS - 290 BW - NO GAS SHOW
- 12/31/2005 24 HRS, 0 BO, 1613 BW, 22 MCF. SI WELL, W/O EVALUATION
- 6/31 - 6/17/2006 MIRU, C/O, MILLED ON FISH, FISH CAME FREE. RIH W/5 1/2" CIBP, SET @3950'.
- 6/18/2006 SQZD PERFS 3878-3896 W/ 44 BBLs CL C CMT. CIRC TO PIT, C/O TBG.
- 6/20/2006 RIH, TAG @3811' C/O 2' CMT ON TOP OF CIRC. D/O CIRC TO 3915'. PRESS SQZ TO 540 PSIG, TSTD OK.
- 6/21/2006 PERF 3800-3918, 6 JSPF, 216 HOLES, ACD W/2520 GALS 15% ACD, SWB 335 BW.
- 6/24/2006 SWB PERFS 3910-3918, REC 39 BW/LITTLE GAS. PKR @ 3897', SWB PERFS 3886-3894 - COMM W/PERFS ABOVE. PUH TO W/PKR TO 3820', SWB PERFS 3856-3866 & 3886-3894, 9 SWB RUNS REC. 3 1/2 BO, 40 BW.
- 6/27/2006 SWB 6 RUNS, REC 1/4 BO, 22 1/4 BW. SWB DRY.
- 6/28/2006 RIH W/COMP PLUG 1/2". SET @3902'. SWI.
- 6/29/2006 PKR @3840'. PMPD 40 BBLs OF T-175 & DP-61 MIX W/FW. PMPD INTO PERFS 3856-3894, PUH, RBP @3780', SET PKR, PMPD 40 BBLs PILL MIXTURE INTO PERFS 3800-3810'. SWI FOR 24 HRS.
- 6/30/2006 RIH W/2.5" X 2" X 24' RXBC PMP
- 7/1/2006 MI SET AMERICAN 640-305-144" PMPG UNIT, 60 HP, SN D640G, SN# 95110177. RWTP.

BEFORE THE OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Exhibit No. F-18
Submitted by: Goodnight Midstream Permian, LLC
Hearing Date: September 23, 2024
Case Nos. 23614-23617, 23775,
24018 - 24020, 24025, 24123

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. LYN MARR TITLE REGULATORY ANALYST DATE 7/17/2006
Type or print name M. LYN MARR E-mail address: Lyn.Marr@state.nm.gov Telephone No. 432-620-6714

BY: [Signature] TITLE _____ DATE _____ Conditions of Approval
(if any): _____

AUG 30 2006

Well: EMSU 746
Location: Section 15-21S-36E
1380' FNL & 10' FEL
County: Lea
Elevation: 3567' GL 3584' KB

API # 30-025-37356

Spud: 9/2005
State: New Mexico



12 1/4"
Nole

8-5/8", 24#
Set at 1274'.
Cemented with 625 sx.
Circulated

9/19/05 - Perf'd fr/5,130' - 5,138' (24 holes), 5,100' - 5,110' (30 h
5,030' - 5,050' (60 holes) & 4,990' - 5,000' (30 holes) w/3 JSPF @
degree phasing. Acidized perfs with 3000 gals 15%. Flowed and
swabbed 110 bbls water in 2 days, no gas. Set CIBP @ 4755'.

9/23/05 - Perf'd Upper San Andres fr/4,320' - 4,340' (60 holes), 4
4,300' (60 holes) & 4,100' - 4,110' (30 holes) w/3 JSPF @ 120 d
phasing. Acidize w/ 2100 gals 15% and ballsealers. Swbd 300 bl
water in 2 days, BFL 1000' EFL 1500'. Run rental ESP.

10/18/05 - Well pumped 0 bo / 1287 bw / 104 mcf w/ 145' FAP

12/15/05 - POOH w/ ESP. Set CIBP @ 4210'. Perforate 3878-82
3894-96', 3982-88'. PPI'd perfs with 15% HCL. Swbd 290 bbls w
1 day, some gas. BFL 1100 FFS, EFL 1100 FFS. Isolated and
swabbed perfs as follows: Swbd perfs 4,100' - 4,110'. EFL @ 1,
FFS. Some show of gas. 100% wtr.

Swbd perfs 3,982' - 3,988'. EFL @ 3,800'. Waited 1 hr. Made 1
run. FL still @ 3,800'. No show of gas.

Swbd perfs 3,894' - 3,896'. BFL @ 2,700 FFS. EFL @ 3,800 FFS
Made 6 runs. Swbd perfs dry. Rec 19 BW. Showed no gas. Wait
hr. Made 1 swab run to check for fluid entry. FL was @ 3,600'.

Swbd perfs 3,878' - 3,882' for 3 hrs. BFL @ 1,100 FFS. EFL @ 1
FFS. Made 21 runs. Rec 134 BW. Showed some gas.

Run Rental ESP

12/30/05 - pumped 0 bo / 1600 bw / 22 mcf in 24 hrs

6/2/06: POH w/tbg, no good. Pmpd 200 gals of 15% NEFE acid dwn t
Flushed w/18 bbls of 9#. Found tbg to be free above sub pmp. POH w

6/15/06: Milled fr/3798-3819'. Engaged fish @ 3818'. Fish came free.
w/fish.

6/16/06: RIH w/5 1/2" CIPB & set @ 3950'. POH w/tbg. RIH W/5 1/2"
& SET @ 3813'.

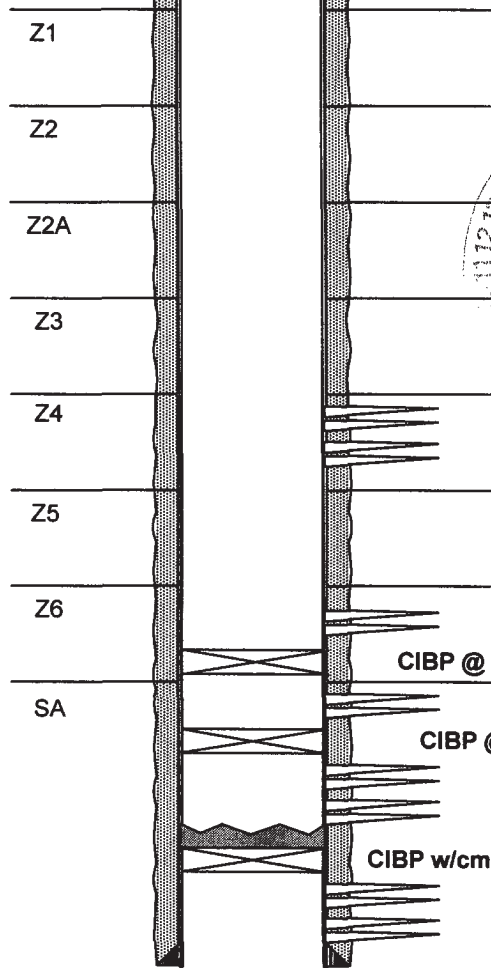
Tbg Detail: 6/29/06:

122 jts 2-7/8" 6.5# J-55 EUE
8rd tbg, 2-7/8" API SN, 1 jt
2-7/8" IPC tbg (TK-99), 2-7/
8" x 5-1/2" TAC, PI @
3897'. TAC @ 3736'.

Pmp & Rods: 6/29/06

1 - 7/8" x 4' stabilizer sub, 8 -
1-1/2" K-bars, 71 - 3/4" D-90
rods, 74 - 7/8" D-90 rods, 2 -
7/8" D-90 pony rods (8' & 2')
& 1-1/2" x 26' SM PR.

PENROSE 3547'
GRBG 3731'
G/O 3734'
GB2 3762'
GB2A 3798'
GB3 3840'
GB4 3874'
GB5 3926'
O/W_TR 3934'
GB6 3972'
O/W 3984'
SADR 4035'



Perfs:

- Z1 - None
 - Z2 - 3800-3810'
 - Z2A - 3856-3866'
 - Z3 - 3886-3894
 - Z4 - 3878-82', 3894-96' - Sqz Perfs (6/17/06)
 - Z5 - 3910-3918'
 - Z6 - 3982-88' - CIBP @ 3950
 - SA - 4100-10'
- Isolated by CIBP - 4280-4300', 4320-40' -
Isolated by CIBP - 4990-5000', 5030-50',
5100-10', 5130-38'

5-1/2" 17 #, - Nole 7 7/8"
Set at 5450'.
Cemented with 990 sx.
Circulated
Float collar @ 5407'

XTO ENERGY

Well: EMSU 746
Location: Section 15-21S-36E
 1380' FNL & 10' FEL
County: Lea
Elevation: 3567' GL 3584' KB

API # 30-025-37356

Spud: 9/2005
State: New Mexico



*44 lbs
@ cmt*

6/17/06: Sqz perfs: 3,878' - 3,882' & 3,894' - 3,896'. Loaded TCA w/2 BW. Press to 500 psig, held ok. Loaded tbg w/5 BW. EIR @ 1/2 BPM @ 1000 psig. Pmpd 8 BW. Ppg CL C w/fluid loss additive cmt (34 bbls lead cmt). Pmpg CL C neat (10 bbls tail cmt). Displ w/11 BW. Fin Ppg w/1/2 BPM @ 2,100 psig.

6/20/06: DO CICR & cmt to 3,915' & fell out. Press up on sqz to 540 psig, tstd ok. Perf 3,910' - 3,918' (8' & 48 holes), 3,886' - 3,894' (8' & 48 holes), 3,856' - 3,866' (10' & 60 holes) & 3,800' - 3,810' (10' & 60 holes).

6/21/06: Trt each set of perfs w/200 gals of 15% NEFE HCL.

Straddle perfs fr 3,910' - 3,918'. Spotted 1 bbl of acid. Press tbg to 800. Perfs broke @ 945 psig @ .4 BPM.

Straddle perfs: (3,886' - 3,894'). Never did break dwn. Spotted 1 bbl out EOT 3 times in 4 hrs, no good.

Straddled perfs fr 3,856' - 3,866'. Spotted 1 bbl of acid. Press perfs to 800#. Perfs broke @ 1,500# @ .4 BPM.

Straddled perfs fr 3,800' - 3,810'. Press perfs to 800#. Perfs broke @ 1,350# @ .5 BPM. Flushed to btm. CHC w/60 bbls of 8.6 brine. ISIP 650 psig. 188 BLWTR.

6/22/06: Swab. BFL @ 1,100 FFS. Made 55 swab runs in 9 hrs. Rec 335 BW & very little gas. EFL @ 1,000 FFS

6/23/06: Swbd tstd for 1-1/2 hrs on perfs: (3,910' - 3,918'). EFL @ 1,100 FFS. 100% wtr w/no gas.

Swab tstd perfs: (3,886' - 3,894'). Communicated w/perfs above. 100% wtr.

Swab tstd perfs: (3,886' - 3,894' & 3,856' - 3,866' together).

Perfs: (3,856' - 3,894'). Rec 3-1/2 BO & 40 BW.

6/26/06: Swbd perfs: (3,856' - 3,894'). Rec 22-1/4 BW & 1/4 BO. Showed some gas w/each run. Swbd dry.

Swbd perfs: (3,800' - 3,810'). Rec 60 BW (100% wtr). Showed very little gas w/each run. Swbd dry.

6/28/06: Pmpd 40 bbls of pill mixture into perfs 3,856' - 3,894'. OFL chemical w/ 50 bbls of prod wtr mixed w/5 gals of RN-211 dwn tbg @ .3 BPM @ 700 psig. Pmpd 40 bbls of pill mixture into perfs 3,800' - 3,810'. Overflushed w/40 bbls of produced wtr mixed w/5 gals of RN-211 dwn tbg @ 1/2 BPM @ 800 psig.

6/29/06: RIH w/tbg, pmp & rods.

XTO ENERGY



Well: EMSU 658
Location: Section 3-21S-36E
155' FSL & 1240' FWL
County: Lea
Elevation: 3583' GL 3610' KB

API # 30-025-37280
Spud: 11/2005
State: New Mexico

8-5/8", 24#
Set at 1294'.
Cmt w/670 sx.
Circulated

2/8/06 perforated the following intervals : 4,174' - 4,186', 4,144' -4,153', 4,125' - 4,130', 4,074' - 4,084', 4,018' - 4,030' & 3,995' -4004'

2/9/06 straddling perms @ 4,174' to 4,186'. Press up to 780 psig to break down perms. Pmpd 600 gals of 15% 90/10 HCL acid, min press - Vac & AIR .6 BPM.

straddling perms @ 4,144' to 4,153'. Pmpd 450 gals of 15% 90/10 HCL acid. Break down perms @ 1,380 psig, Min press - Vac & AIR - .6 BPM.

straddling @ 4,125'to 4,130'. Pmpd 250 gals of 15% 90/10 HCL acid. Saw no Press, treated on VAC.

straddling perms @ 4,074' to 4,084'. Pmpd 500 gals of 15% 90/10 HCL acid. Break down perms @ 1,160 psig, Min press - Vac & AIR - .6 BPM.

straddling perms @ 4,018' to 4,030'. Pmpd 600 gals of 15% 90/10 HCL acid. Perfs on a Vac & AIR - 1.2 BPM

straddling perms @ 3,995' to 4,004'. Pmpd 450 gals of 15% 90/10 HCL acid. Break dwn perms @ 860 psig, Min press - Vac & AIR - .6 BPM

Made 23 swab runs, swbd a total of 125 bbls 100% water. BFL @ 1,200' & EFL @ 1,200'

2/10/06 SITP 35 psig. RU swab. Made 42 swab runs, swbd a total of 222 bbls 100% water. Well did show some gas. BFL @ 1,100' & EFL @ 1,200'.

2/11/06 Swab perms fr 4,174' to 4,186'. BFL @ 1,200 FFS. Made 6 swab runs. Swbd dry. Rec 29 BW. Showed some gas. EFL 3,900' FFS

Swab perms fr 4,144' to 4,153'. BFL @ 1,100 FFS. Made 9 swab runs. Rec 59 BW. Showed no gas. EFL 1,200 FFS.

Swab perms fr 4,125' to 4,130'. BFL @ 1,200 FFS. Made 8 runs. Rec 54 BW. Showed some gas. EFL @ 1,500 FFS.

Swab perms fr 4,074' to 4,084'. BFL @ 1,100 FFS. Made 9 runs. Rec 55 BW. Showed some gas. EFL @ 1,300 FFS

Straddled perms fr 4,018' to 4,030'. BFL @ 1,100 FFS. Made 12 swab runs. Rec 70 BW. Showed some gas. EFL 1,000' FFS.

Straddled perms fr 3,995' to 4,004'. BFL @ 1,000 FFS. Made 8 swab runs. Swbd dry. Rec 53 BW. Showed some gas. EFL 3,400 FFS

2/16/06 Run rental ESP

5/12/06: POH w/tbg. LD pmp

5/15/06: Perforated fr/3,884' - 3,892' (24' & 48 holes), 3,847' - 3,850' (3' & 18 holes), 3,838' - 3,842' (4' & 24 holes), 3,810' - 3,820' (10' & 60 holes), 3,790' - 3,798' (8' & 48 holes) & 3,772' - 3,780' (8' & 48 holes).

Tbg Detail:5/19/06

2-7/8" API SN, 2 7/8"
Tbg Sub, 114 jts 2-7/
8" 6.5# J-55 EUE 8rd
Tbg. U Base, 80 HP
Mtr, 2 - Lwr Seals,
Adaptor, Gas Sep, TD/
1750 ESP 200 stg pmp,

Perfs:

- Z1 - None
- Z2 - None
- Z2A - None
- Z3 - None
- Z4 - None
- Z5 - None
- Z6 - None
- SA - 3995-4004', 4018-30', 4074-84', 4125-30', 4144-53, 4174-86

5-1/2" 17 #,
Set at 4375'.
Cemented with 675 sx.
Circulated
Float collar @ 4329'

GRBG 3667'
GB2 3704'
GB2A 3733'
G/O 3744'
GB3 3760'
GB4 3799'
GB5 3850'
GB6 3900'
O/W_TR 3945'
SADR 3949'
O/W3994'

Z1

Z2

Z2A

Z3

Z4

Z5

Z6

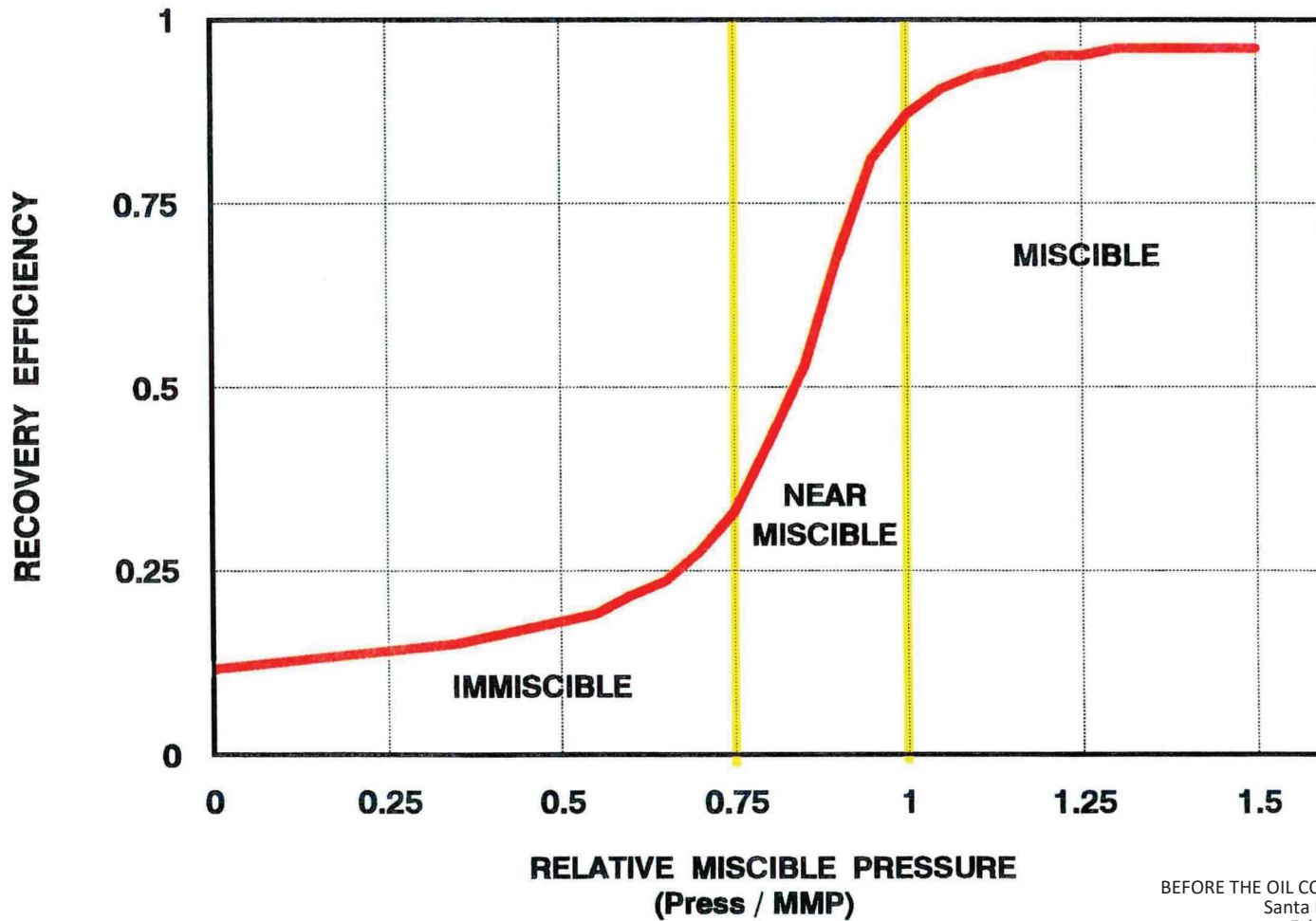
SA

PBTD: 4329'
TD: 4375'

BEFORE THE OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Exhibit No. F-19

Submitted by: Goodnight Midstream Permian, LLC
Hearing Date: September 23, 2024
Case Nos. 23614-23617, 23775,
24018 - 24020, 24025, 24123

GENERALIZED RECOVERY EFFICIENCY RESPONSE TO PRESSURE



BEFORE THE OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Exhibit No. F-20
Submitted by: Goodnight Midstream Permian, LLC
Hearing Date: September 23, 2024
Case Nos. 23614-23617, 23775,
24018 – 24020, 24025, 24123

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11650 Exhibit No. 9

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: December 19, 1996