

**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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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
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. Kevin TITLE STAFF DRILLING ENGINEER DATE MAY 20, 1987

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

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OCD  
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

Form C-103  
Revised 10-1-78

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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

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3. Address of Operator  
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4. Location of Well  
UNIT LETTER L 2590 FEET FROM THE South LINE AND 50 FEET FROM  
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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

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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

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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: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

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 JERRY SEXTON DISTRICT SUPERVISOR TITLE \_\_\_\_\_ DATE FEB 26 1987

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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

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

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

1. Well Type: Oil  GAS WELL  OTHER- Water Supply

7. Unit Agreement Name  
Eunice Monument South Unit

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

8. Farm or Lease Name

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

9. Well No.  
462

4. Location of Well  
NEIT LETTER 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  PLUG AND ABANDON

HARPLY ABANDON  CHANGE PLANS

ALTER CASING

OTHER

SUBSEQUENT REPORT OF:

REMEDIAL WORK  ALTERING CASING

COMMENCE DRILLING OPNS.  PLUG AND ABANDONMENT

CASING TEST AND CEMENT JOBS

OTHER

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. Aborn

TITLE: Staff Drilling Engineer

DATE 12-11-1986

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR

DATE DEC 16 1986

COPIES OF APPROVAL, IF ANY:

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FILE	
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OPERATOR	

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 \_\_\_\_\_

FEB 10 1986

CONDITIONS OF APPROVAL, IF ANY:

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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.

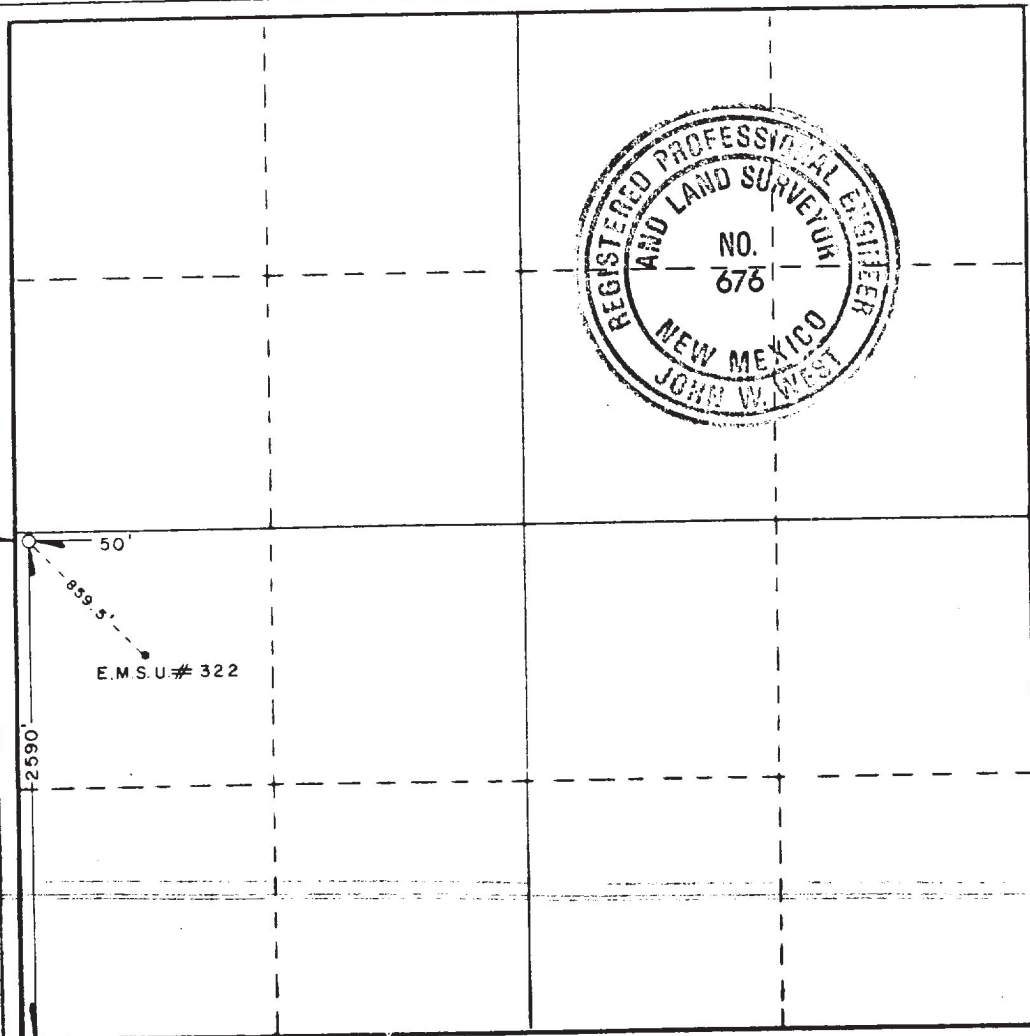
Name \_\_\_\_\_  
 Position  
 Division Drilling Manager  
 Company  
 Chevron U.S.A. Inc.  
 Date  
 2-5-1986

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

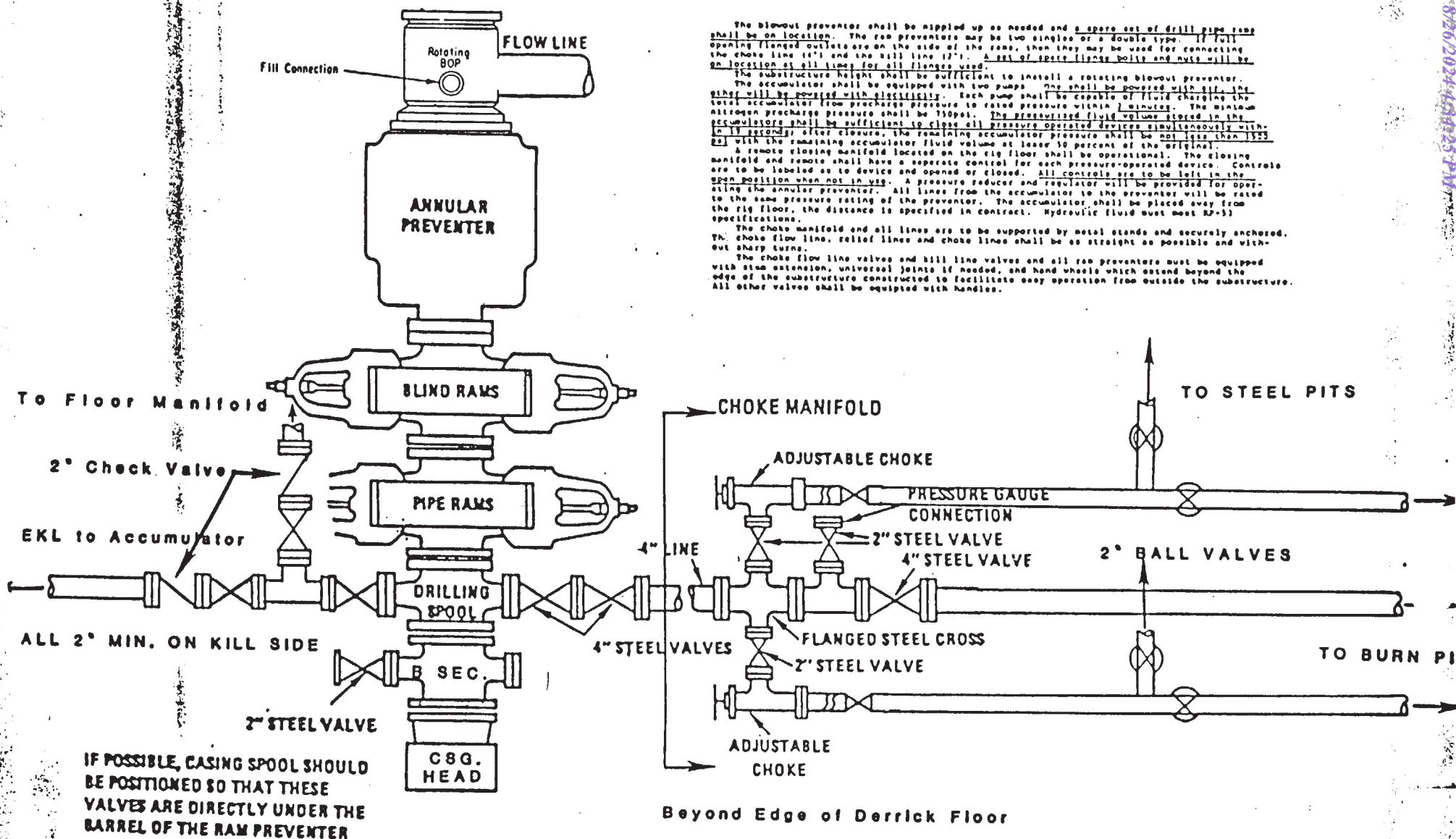


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HOBBBS OFFICE

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 pressure 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.

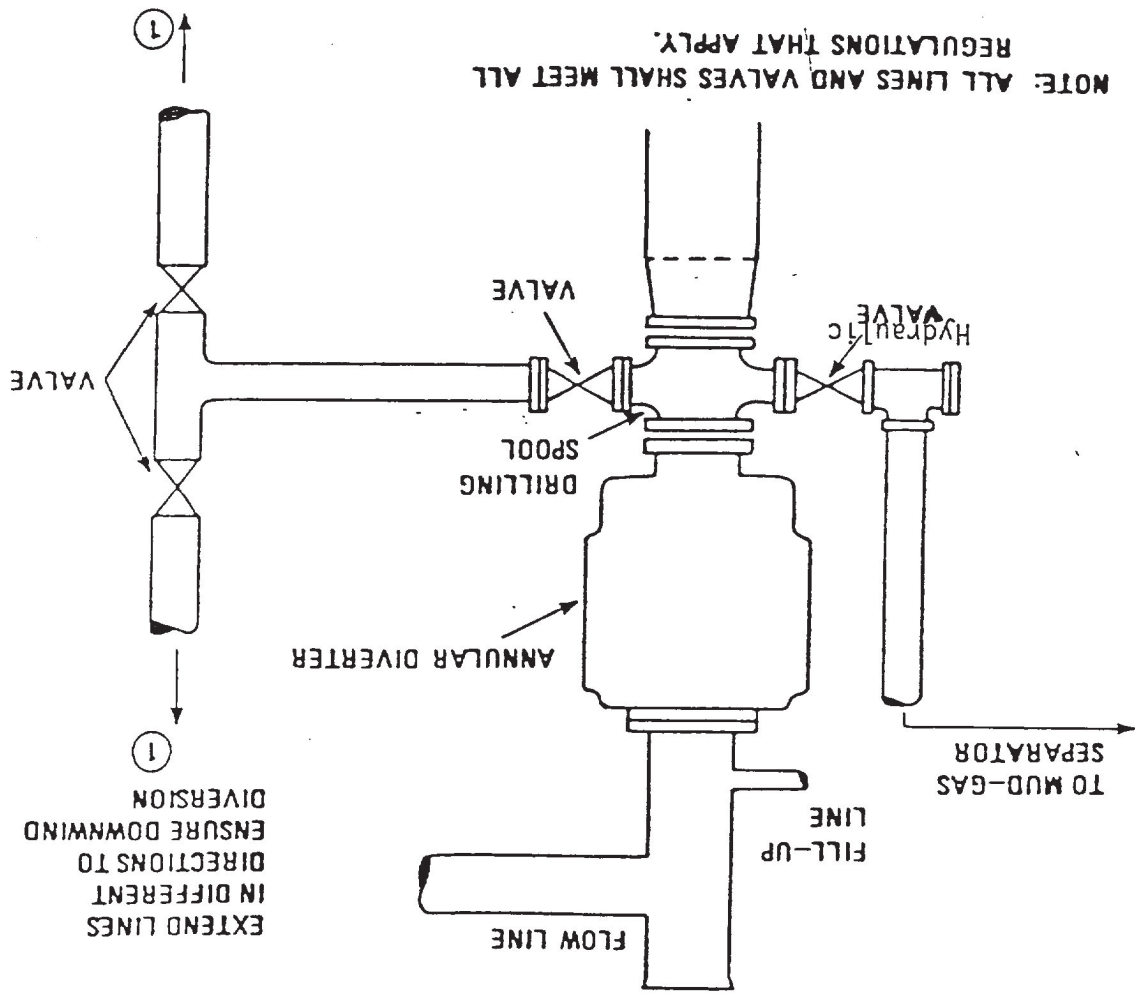
A remote closing manifold located on the rig floor shall be operational. The closing manifold and remote shall have a separate control for each pressure operated device. Controls are to be labeled as to device and opened or closed. All controls are to be left in the open position when not in use. A pressure 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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HOBBS SERVICE





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

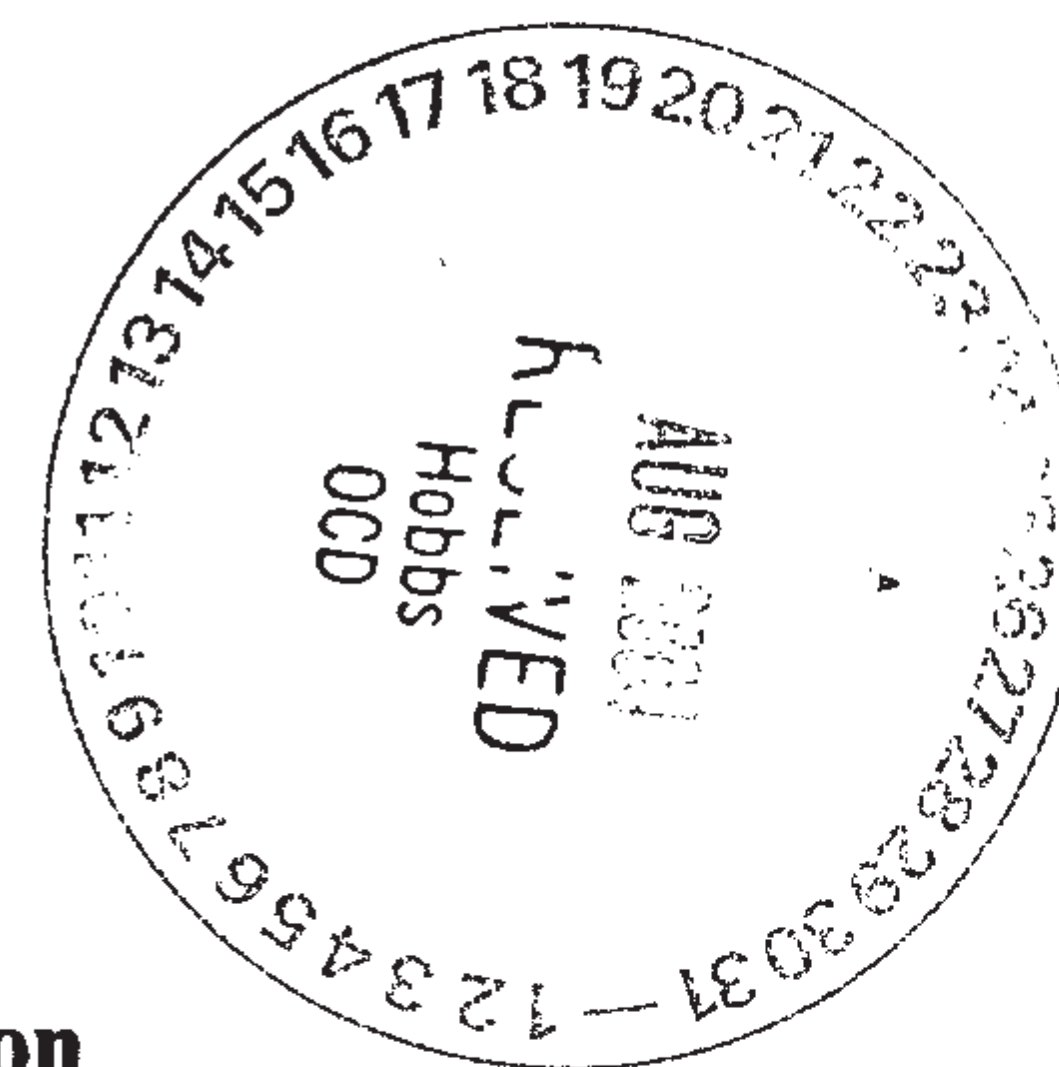
District I  
1625 N. French Dr., Hobbs, NM  
88240

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 <b>STATE</b> <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

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

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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
TEMPORARILY ABANDON
PULL OR ALTER CASING
PLUG AND ABANDON
CHANGE PLANS
MULTIPLE COMPL

SUBSEQUENT REPORT OF:

- REMEDIAL WORK
COMMENCE DRILLING OPNS.
CASING/CEMENT JOB
ALTERING CASING
P AND A

OTHER: X CONVERT TO PRODUCER

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

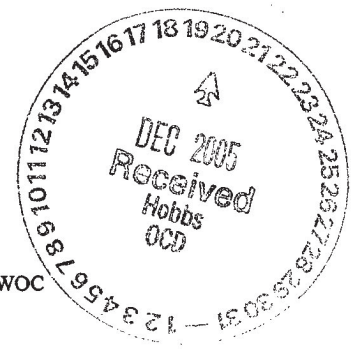
MIRU, NDWH, NUBOP, RIH W/CSG SCRPR
RIH, SET CIBP @4275', DUMP 35' ON TOP, TST CSG TO 500 PSI
PERF UPPER SAN ANDRES 4118-40, 4160-70, 4186-94
ACD W/4.5 BBLs ACD ACROSS PERFS, ACD W/3000 GALS 15% NEFE HCL 30 BALLS/EVERY 10 BBLs
SWB
RIH W/PROD EQPT.

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 NMOCOD 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**

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

<sup>11</sup> Work Type Code p	<sup>12</sup> Well Type Code W O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3590' GL
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 4998	<sup>18</sup> Formation Grayb-SA	<sup>19</sup> Contractor N/A	<sup>20</sup> 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	

<sup>22</sup> 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**

<sup>23</sup> 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"/>	Date Entered: _____	<b>Drilling Underway</b>	<b>Plugback</b>	<b>OIL CONSERVATION DIVISION</b>
Signature: <i>Stephanie Rabadue</i>		Approved by: <i>[Signature]</i>		
Printed name: STEPHANIE RABADUE		Title: <i>[Signature]</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

Form C-102  
Revised October 12, 2005

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

<sup>10</sup> 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

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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><sup>16</sup></p>	<p><sup>17</sup> 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><sup>18</sup> 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**

**ELEVATION:**                      GL – 3590'                      TD – 4998'  
     KB – 3607'                      PBTD – 4998'

**WELL DATA:**

**Current Status:**                      Shut in (Water Source Well).

**Surface Casing:**                      16" 65ppf set at 416' cemented with 472 sx. TOC circ to surface.

**Intermediate Csg:**                      11-3/4" 54ppf set at 2700' cemented with 1100 sx. TOC circ to surface.

**Prod. Casing:**                      8-5/8" 32ppf set at 4315' cemented with 850 sx. TOC circ to surface.

**COMPLETION:**

Top	Bottom	Length	Type	Formation	SPF	Shots	Date	Comments
4315	4998	683	OH	San Andres	0	0	1987	Open Hole

**OBJECTIVE:**                      Convert WSW to Grayburg Oil Producer.



**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~~ <sup>fresh?</sup> 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~~ <sup>Fresh?</sup> water to 500 psig.
- 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	
<b>Total =</b>						<b>80</b>		

- 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.

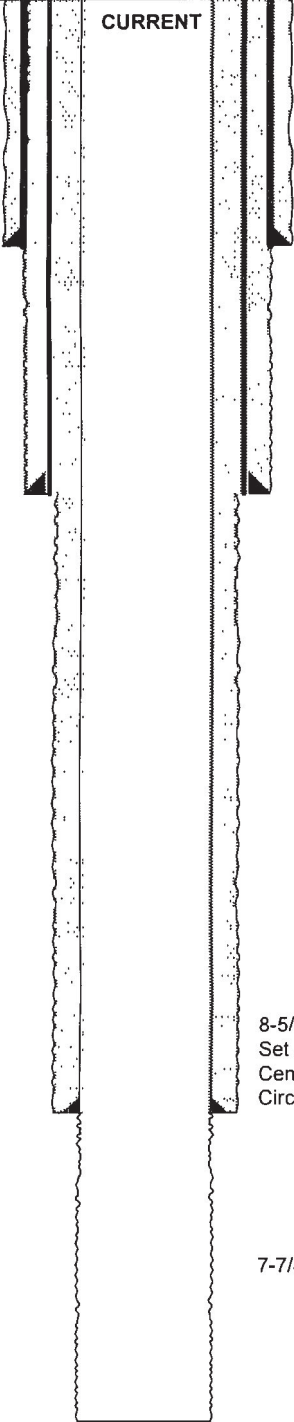


# XTO ENERGY



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

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

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

7-7/8" openhole

TD 4998'

PREPARED BY: Jeff Gasch

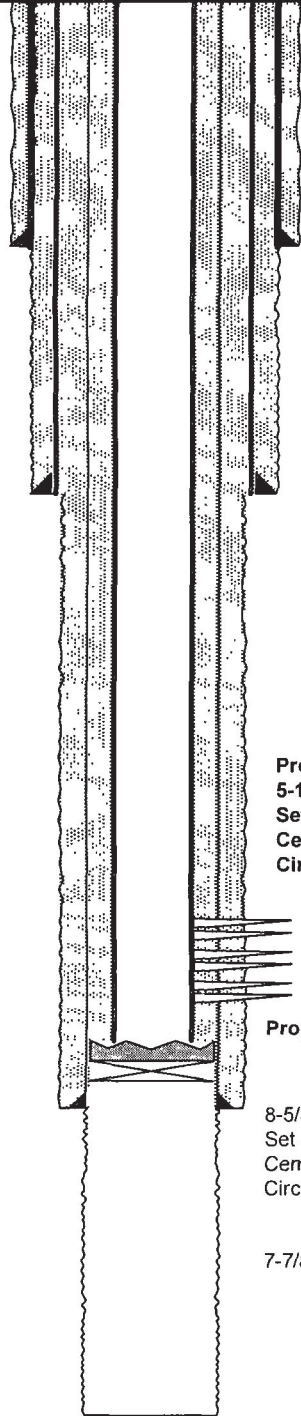
DATE: 10/26/05

# 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

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

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.

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

**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

**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

**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: \_\_\_\_\_

**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

**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

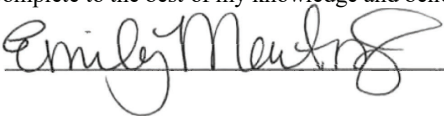
Submit one copy to appropriate  
District Office

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><b>OPERATOR</b> 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 &amp; 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><b>OIL CONSERVATION DIVISION</b></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>
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\* 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**

**New Operator**

Signature: Phyllis Hinze

Signature: [Signature]

Printed Name: Phyllis Hinze

Printed Name: Thomas W Pritchard

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

Title: Chief Executive Officer

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

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**  
 811 S. First St., Artesia, NM 88210  
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**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	12-04-21S-36E	D	30-025-04491	76480	EUMONT; YATES-7 RVRS-QUEEN (GAS)	G



	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

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

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

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

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

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

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

	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



	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 RVR-S-QUEEN (GAS)	G
	EXXON AGGIE STATE #007	S	B-31-20S-37E	B	30-025-06302	76480	EUMONT; YATES-7 RVR-S-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 RVR-S-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 RVR-S-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 RVR-S-QUEEN (GAS)	O
331284	G C MATTHEWS #002	P	J-06-20S-37E	J	30-025-12721	76480	EUMONT; YATES-7 RVR-S-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 RVR-S-QUEEN (GAS)	G
	GRAHAM ORCUTT GAS COM #004	P	12-05-21S-36E	L	30-025-31749	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331243	GRAHAM STATE NCT C #001	S	J-24-19S-36E	J	30-025-04043	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	O
	GRAHAM STATE NCT C #010	S	B-24-19S-36E	B	30-025-26771	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331244	GRAHAM STATE NCT C COM #008	S	J-25-19S-36E	J	30-025-04061	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
	GRAHAM STATE NCT C COM #009	S	B-25-19S-36E	B	30-025-27082	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331245	GRAHAM STATE NCT F #003	S	J-36-19S-36E	J	30-025-12476	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
	GRAHAM STATE NCT F #004	S	O-36-19S-36E	O	30-025-12477	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331289	H C COLLINS #004	P	K-14-21S-36E	K	30-025-04638	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
	H C COLLINS #006	P	C-14-21S-36E	C	30-025-32131	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	O
	H C COLLINS #007	P	G-14-21S-36E	G	30-025-32780	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331279	H T MATTERN #005	P	L-20-19S-37E	L	30-025-09885	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
	H T MATTERN #006	P	N-20-19S-37E	N	30-025-30916	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
331280	H T MATTERN NCT A #002	P	J-24-21S-36E	J	30-025-04769	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	O
	H T MATTERN NCT A #005	S	M-24-21S-36E	M	30-025-31013	76480	EUMONT; YATES-7 RVR-S-QUEEN (GAS)	G
	H T MATTERN NCT A #006	P	L-24-21S-36E	L	30-025-34265	22800	EUMONT; YATES-7 RVR-S-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 RVR-S-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 RVR-S-QUEEN (OIL)	O

	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

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

1500FB 1207FE  
SHIMON, L. & W. INC.  
EUNICE MONUMENT SOUTH UNIT # 447

30-025-28149

Acoustic Cement Evaluation Log  
GAMMA RAY

Company: Shimon, L. & W. Inc.  
Well: Eunice Monument South - 447  
Date: 08/11/2024  
Cement: 1500 FB, 1207 FE

Log Scale: 1000 ft  
Cement Type: 1500 FB, 1207 FE  
Cement Volume: 11.30 cu yd  
Cement Weight: 113,000 lbs

Depth (ft)	1500 FB (cu yd)	1207 FE (cu yd)	Total (cu yd)
3900	1.00	0.00	1.00
3950	1.00	0.00	1.00
4000	1.00	0.00	1.00
4050	1.00	0.00	1.00
4100	1.00	0.00	1.00
4150	1.00	0.00	1.00
4200	1.00	0.00	1.00
4250	1.00	0.00	1.00
4300	1.00	0.00	1.00
4350	1.00	0.00	1.00
4400	1.00	0.00	1.00
4450	1.00	0.00	1.00
4500	1.00	0.00	1.00
4550	1.00	0.00	1.00
4600	1.00	0.00	1.00
4650	1.00	0.00	1.00
4700	1.00	0.00	1.00
4750	1.00	0.00	1.00
4800	1.00	0.00	1.00
4850	1.00	0.00	1.00
4900	1.00	0.00	1.00
4950	1.00	0.00	1.00
5000	1.00	0.00	1.00
5050	1.00	0.00	1.00
5100	1.00	0.00	1.00
5150	1.00	0.00	1.00
5200	1.00	0.00	1.00
5250	1.00	0.00	1.00
5300	1.00	0.00	1.00
5350	1.00	0.00	1.00
5400	1.00	0.00	1.00
5450	1.00	0.00	1.00
5500	1.00	0.00	1.00
5550	1.00	0.00	1.00
5600	1.00	0.00	1.00
5650	1.00	0.00	1.00
5700	1.00	0.00	1.00
5750	1.00	0.00	1.00
5800	1.00	0.00	1.00
5850	1.00	0.00	1.00
5900	1.00	0.00	1.00
5950	1.00	0.00	1.00
6000	1.00	0.00	1.00
6050	1.00	0.00	1.00
6100	1.00	0.00	1.00
6150	1.00	0.00	1.00
6200	1.00	0.00	1.00
6250	1.00	0.00	1.00
6300	1.00	0.00	1.00
6350	1.00	0.00	1.00
6400	1.00	0.00	1.00
6450	1.00	0.00	1.00
6500	1.00	0.00	1.00
6550	1.00	0.00	1.00
6600	1.00	0.00	1.00
6650	1.00	0.00	1.00
6700	1.00	0.00	1.00
6750	1.00	0.00	1.00
6800	1.00	0.00	1.00
6850	1.00	0.00	1.00
6900	1.00	0.00	1.00
6950	1.00	0.00	1.00
7000	1.00	0.00	1.00
7050	1.00	0.00	1.00
7100	1.00	0.00	1.00
7150	1.00	0.00	1.00
7200	1.00	0.00	1.00
7250	1.00	0.00	1.00
7300	1.00	0.00	1.00
7350	1.00	0.00	1.00
7400	1.00	0.00	1.00
7450	1.00	0.00	1.00
7500	1.00	0.00	1.00
7550	1.00	0.00	1.00
7600	1.00	0.00	1.00
7650	1.00	0.00	1.00
7700	1.00	0.00	1.00
7750	1.00	0.00	1.00
7800	1.00	0.00	1.00
7850	1.00	0.00	1.00
7900	1.00	0.00	1.00
7950	1.00	0.00	1.00
8000	1.00	0.00	1.00
8050	1.00	0.00	1.00
8100	1.00	0.00	1.00
8150	1.00	0.00	1.00
8200	1.00	0.00	1.00
8250	1.00	0.00	1.00
8300	1.00	0.00	1.00
8350	1.00	0.00	1.00
8400	1.00	0.00	1.00
8450	1.00	0.00	1.00
8500	1.00	0.00	1.00
8550	1.00	0.00	1.00
8600	1.00	0.00	1.00
8650	1.00	0.00	1.00
8700	1.00	0.00	1.00
8750	1.00	0.00	1.00
8800	1.00	0.00	1.00
8850	1.00	0.00	1.00
8900	1.00	0.00	1.00
8950	1.00	0.00	1.00
9000	1.00	0.00	1.00
9050	1.00	0.00	1.00
9100	1.00	0.00	1.00
9150	1.00	0.00	1.00
9200	1.00	0.00	1.00
9250	1.00	0.00	1.00
9300	1.00	0.00	1.00
9350	1.00	0.00	1.00
9400	1.00	0.00	1.00
9450	1.00	0.00	1.00
9500	1.00	0.00	1.00
9550	1.00	0.00	1.00
9600	1.00	0.00	1.00
9650	1.00	0.00	1.00
9700	1.00	0.00	1.00
9750	1.00	0.00	1.00
9800	1.00	0.00	1.00
9850	1.00	0.00	1.00
9900	1.00	0.00	1.00
9950	1.00	0.00	1.00
10000	1.00	0.00	1.00

PRIMARY CEMENTING PROCEDURE

Hour - Date	Hour from Start of operation	Tool Type & No.
11:30 - 10-5	10:5	DC 2" 039-027
12:30 - 10-5	10:5	1.8-012-013
13:30 - 10-5	10:5	Logging Speed 30 FPH
14:30 - 10-5	10:5	7 3/8" 1207
15:30 - 10-5	10:5	7 3/8" 1207
16:30 - 10-5	10:5	7 3/8" 1207
17:30 - 10-5	10:5	7 3/8" 1207
18:30 - 10-5	10:5	7 3/8" 1207
19:30 - 10-5	10:5	7 3/8" 1207
20:30 - 10-5	10:5	7 3/8" 1207
21:30 - 10-5	10:5	7 3/8" 1207
22:30 - 10-5	10:5	7 3/8" 1207
23:30 - 10-5	10:5	7 3/8" 1207
24:30 - 10-5	10:5	7 3/8" 1207
25:30 - 10-5	10:5	7 3/8" 1207
26:30 - 10-5	10:5	7 3/8" 1207
27:30 - 10-5	10:5	7 3/8" 1207
28:30 - 10-5	10:5	7 3/8" 1207
29:30 - 10-5	10:5	7 3/8" 1207
30:30 - 10-5	10:5	7 3/8" 1207
31:30 - 10-5	10:5	7 3/8" 1207
32:30 - 10-5	10:5	7 3/8" 1207
33:30 - 10-5	10:5	7 3/8" 1207
34:30 - 10-5	10:5	7 3/8" 1207
35:30 - 10-5	10:5	7 3/8" 1207
36:30 - 10-5	10:5	7 3/8" 1207
37:30 - 10-5	10:5	7 3/8" 1207
38:30 - 10-5	10:5	7 3/8" 1207
39:30 - 10-5	10:5	7 3/8" 1207
40:30 - 10-5	10:5	7 3/8" 1207
41:30 - 10-5	10:5	7 3/8" 1207
42:30 - 10-5	10:5	7 3/8" 1207
43:30 - 10-5	10:5	7 3/8" 1207
44:30 - 10-5	10:5	7 3/8" 1207
45:30 - 10-5	10:5	7 3/8" 1207
46:30 - 10-5	10:5	7 3/8" 1207
47:30 - 10-5	10:5	7 3/8" 1207
48:30 - 10-5	10:5	7 3/8" 1207
49:30 - 10-5	10:5	7 3/8" 1207
50:30 - 10-5	10:5	7 3/8" 1207
51:30 - 10-5	10:5	7 3/8" 1207
52:30 - 10-5	10:5	7 3/8" 1207
53:30 - 10-5	10:5	7 3/8" 1207
54:30 - 10-5	10:5	7 3/8" 1207
55:30 - 10-5	10:5	7 3/8" 1207
56:30 - 10-5	10:5	7 3/8" 1207
57:30 - 10-5	10:5	7 3/8" 1207
58:30 - 10-5	10:5	7 3/8" 1207
59:30 - 10-5	10:5	7 3/8" 1207
60:30 - 10-5	10:5	7 3/8" 1207
61:30 - 10-5	10:5	7 3/8" 1207
62:30 - 10-5	10:5	7 3/8" 1207
63:30 - 10-5	10:5	7 3/8" 1207
64:30 - 10-5	10:5	7 3/8" 1207
65:30 - 10-5	10:5	7 3/8" 1207
66:30 - 10-5	10:5	7 3/8" 1207
67:30 - 10-5	10:5	7 3/8" 1207
68:30 - 10-5	10:5	7 3/8" 1207
69:30 - 10-5	10:5	7 3/8" 1207
70:30 - 10-5	10:5	7 3/8" 1207
71:30 - 10-5	10:5	7 3/8" 1207
72:30 - 10-5	10:5	7 3/8" 1207
73:30 - 10-5	10:5	7 3/8" 1207
74:30 - 10-5	10:5	7 3/8" 1207
75:30 - 10-5	10:5	7 3/8" 1207
76:30 - 10-5	10:5	7 3/8" 1207
77:30 - 10-5	10:5	7 3/8" 1207
78:30 - 10-5	10:5	7 3/8" 1207
79:30 - 10-5	10:5	7 3/8" 1207
80:30 - 10-5	10:5	7 3/8" 1207
81:30 - 10-5	10:5	7 3/8" 1207
82:30 - 10-5	10:5	7 3/8" 1207
83:30 - 10-5	10:5	7 3/8" 1207
84:30 - 10-5	10:5	7 3/8" 1207
85:30 - 10-5	10:5	7 3/8" 1207
86:30 - 10-5	10:5	7 3/8" 1207
87:30 - 10-5	10:5	7 3/8" 1207
88:30 - 10-5	10:5	7 3/8" 1207
89:30 - 10-5	10:5	7 3/8" 1207
90:30 - 10-5	10:5	7 3/8" 1207
91:30 - 10-5	10:5	7 3/8" 1207
92:30 - 10-5	10:5	7 3/8" 1207
93:30 - 10-5	10:5	7 3/8" 1207
94:30 - 10-5	10:5	7 3/8" 1207
95:30 - 10-5	10:5	7 3/8" 1207
96:30 - 10-5	10:5	7 3/8" 1207
97:30 - 10-5	10:5	7 3/8" 1207
98:30 - 10-5	10:5	7 3/8" 1207
99:30 - 10-5	10:5	7 3/8" 1207
100:30 - 10-5	10:5	7 3/8" 1207

EQUIPMENT DATA

Item	Value
Tool Type & No.	DC 2" 039-027
Panel Type & No.	1.8-012-013
Logging Speed	30 FPH
Panel Dia.	7 3/8"
Panel Sensitivity	250 (0-100%)
Delay Setting	300 sec
Wash Setting	50 sec
T-R Spacing	6"

CEMENTING DATA

Item	Value
SOCKET NO.	1
DATE	
DEPTH INTERVAL	
TYPE CEMENT	
VOLUME OF CEMENT	
ADDITION	
REMARKS	
PREVIOUS FLUID	
BREAKDOWN PRESSURE	
MAX PRESSURE - STAGE 1	
MAX PRESSURE - STAGE 2	
MAX PRESSURE - STAGE 3	
FINAL MIXING PRESSURE	
STARTED PUMPING CEMENT	
RELEASED PRESSURE	
STOP AGE LOG	
FINISH AGE LOG	
AVERAGE WELL DRIFT	

TOOL SKETCH

GAMMA RAY

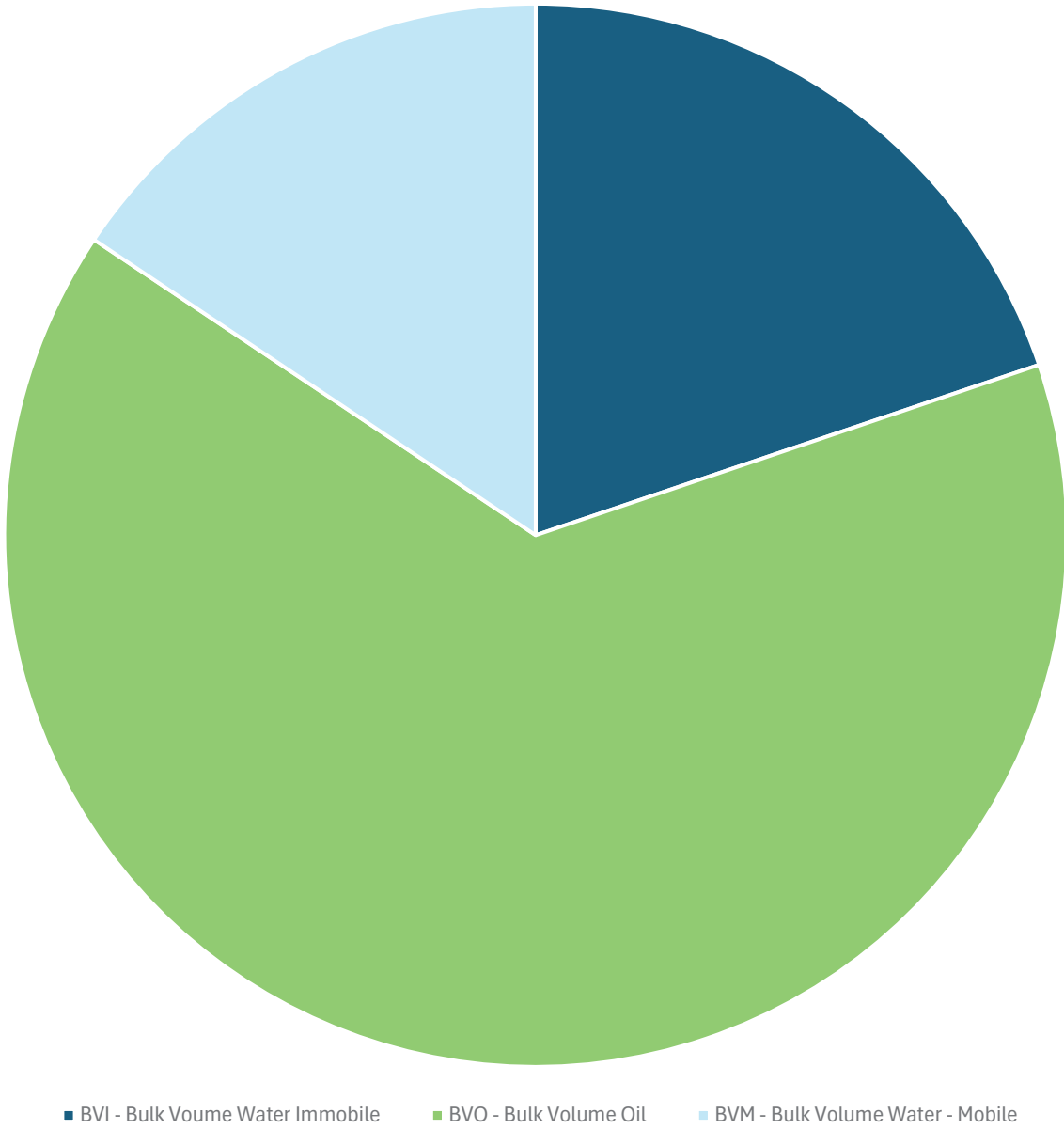
DEPTH (ft)	AMPLITUDE (mV)	FULL WAVE (µs)
3900	100	100
3950	100	100
4000	100	100
4050	100	100
4100	100	100
4150	100	100
4200	100	100
4250	100	100
4300	100	100
4350	100	100
4400	100	100
4450	100	100
4500	100	100
4550	100	100
4600	100	100
4650	100	100
4700	100	100
4750	100	100
4800	100	100
4850	100	100
4900	100	100
4950	100	100
5000	100	100
5050	100	100
5100	100	100
5150	100	100
5200	100	100
5250	100	100
5300	100	100
5350	100	100
5400	100	100
5450	100	100
5500	100	100
5550	100	100
5600	100	100
5650	100	100
5700	100	100
5750	100	100
5800	100	100
5850	100	100
5900	100	100
5950	100	100
6000	100	100
6050	100	100
6100	100	100
6150	100	100
6200	100	100
6250	100	100
6300	100	100
6350	100	100
6400	100	100
6450	100	100
6500	100	100
6550	100	100
6600	100	100
6650	100	100
6700	100	100
6750	100	100
6800	100	100
6850	100	100
6900	100	100
6950	100	100
7000	100	100
7050	100	100
7100	100	100
7150	100	100
7200	100	100
7250	100	100
7300	100	100
7350	100	100
7400	100	100
7450	100	

~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	Phie-BVT
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)

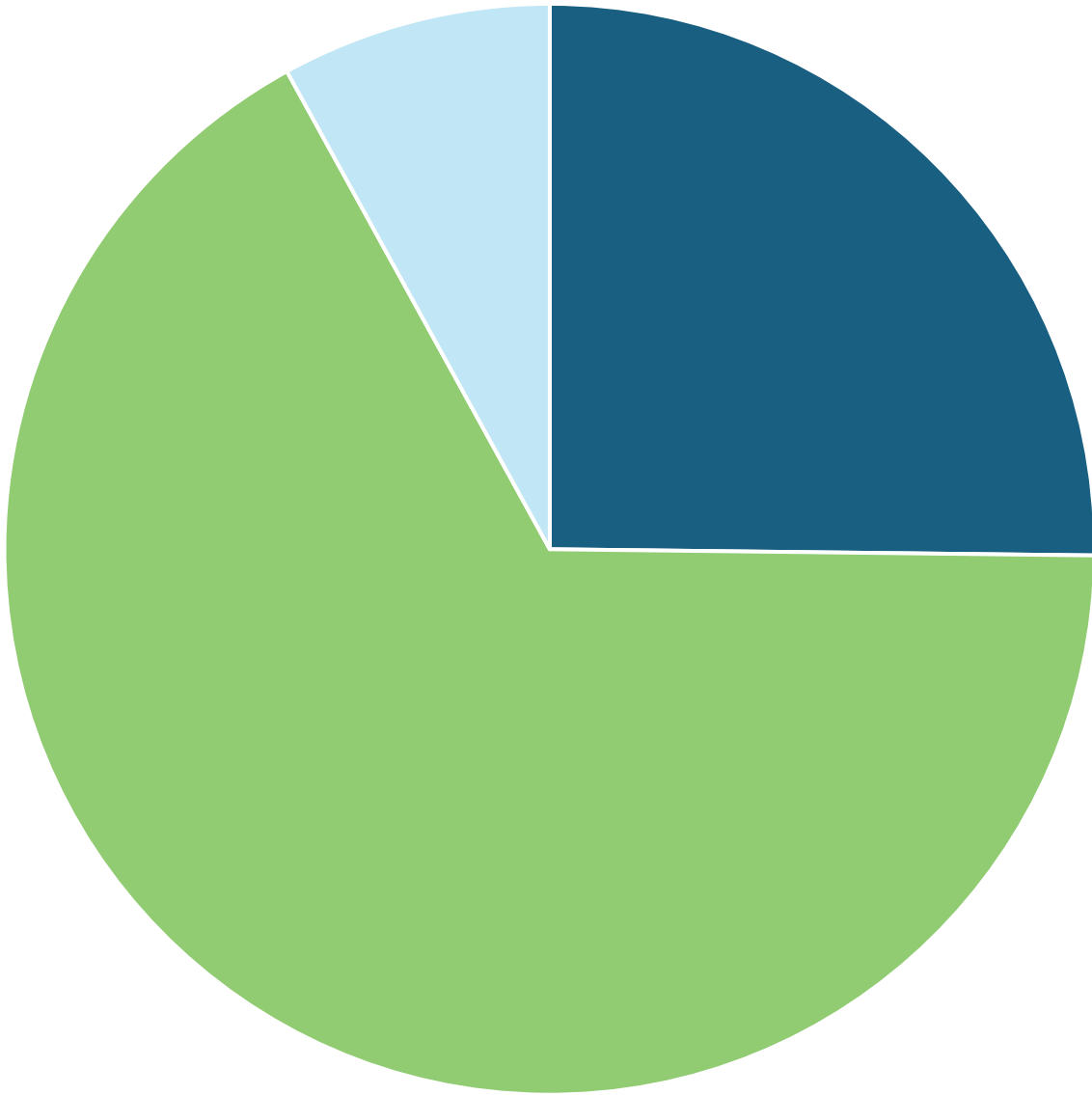
~A	DEPT	PHIE	SW	BVW	BVI - Bulk	Voume	Wate	So	BVO - Bulk	BVM - Bulk	Checks	
											Sum	BV's
4106	0.0262	0.3444	0.009	0.009				0.6556	0.017177	0	0.026177	(0.00)
4106.5	0.0153	0.379	0.0058	0.0058				0.621	0.009501	0	0.015301	0.00
4107	0.0193	0.4817	0.0093	0.0093				0.5183	0.010003	0	0.019303	0.00
4107.5	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.



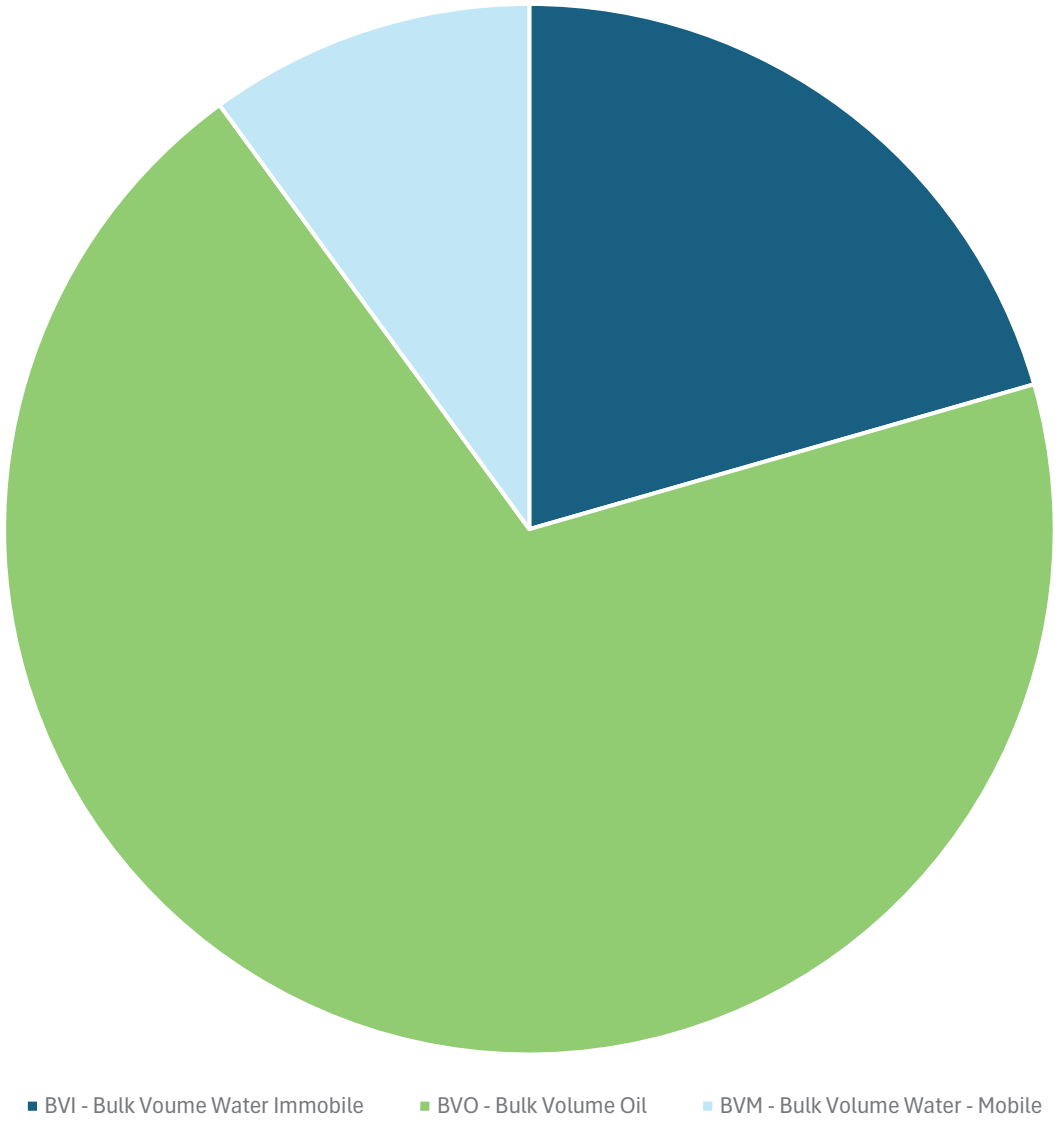
■ BVI - Bulk Voume Water Immobile    ■ BVO - Bulk Volume Oil    ■ BVM - Bulk Volume Water - Mobile



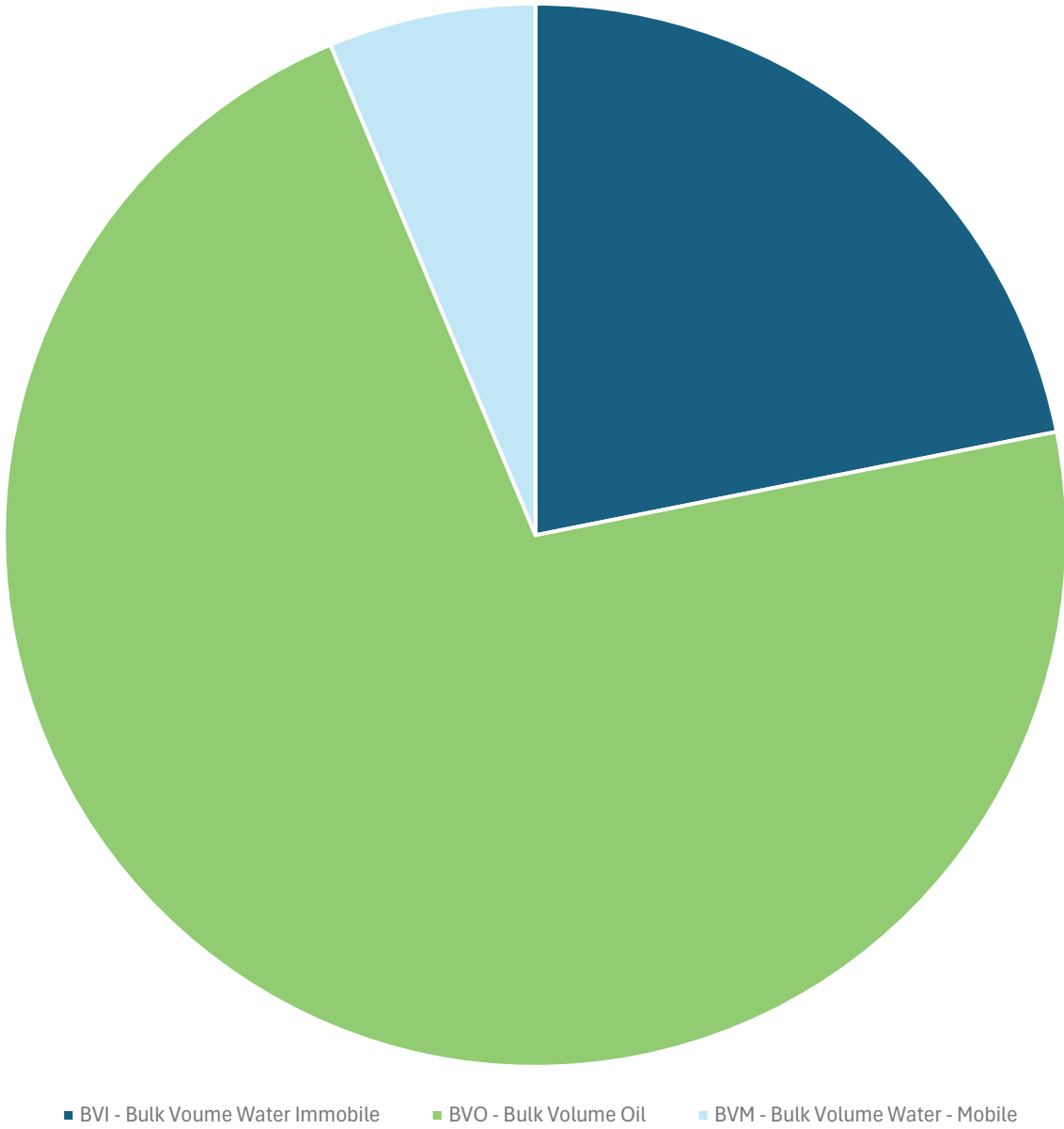
~A	DEPTH	PHIE	SW	BVW	BVI - Bulk Volume Water	So	BVO - Bulk	BVM - Bulk	Checks	
									Sum BV's	Phie-BVT
	4126	0.0993	0.3534	0.0351	0.0236	0.6466	0.064207	0.0115	0.099307	0.00
	4126.5	0.0937	0.3153	0.0295	0.0218	0.6847	0.064156	0.0077	0.093656	(0.00)
	4127	0.0957	0.2984	0.0286	0.0215	0.7016	0.067143	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		

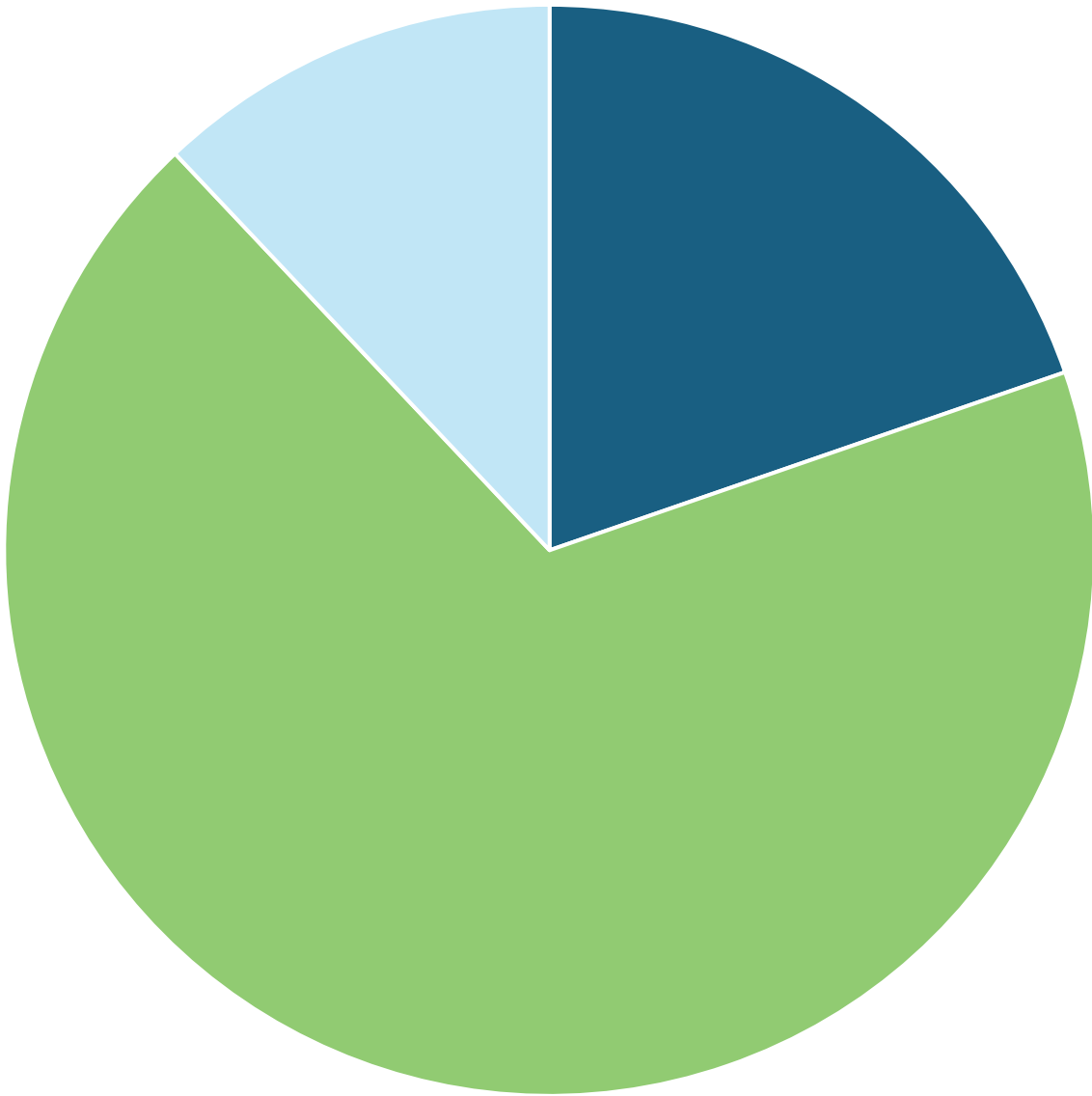
EMSU 660 Empire Log Analysis 4126 - 4239 ft.



EMSU 660 Empire Log Analysis 4126 - 4130 ft.

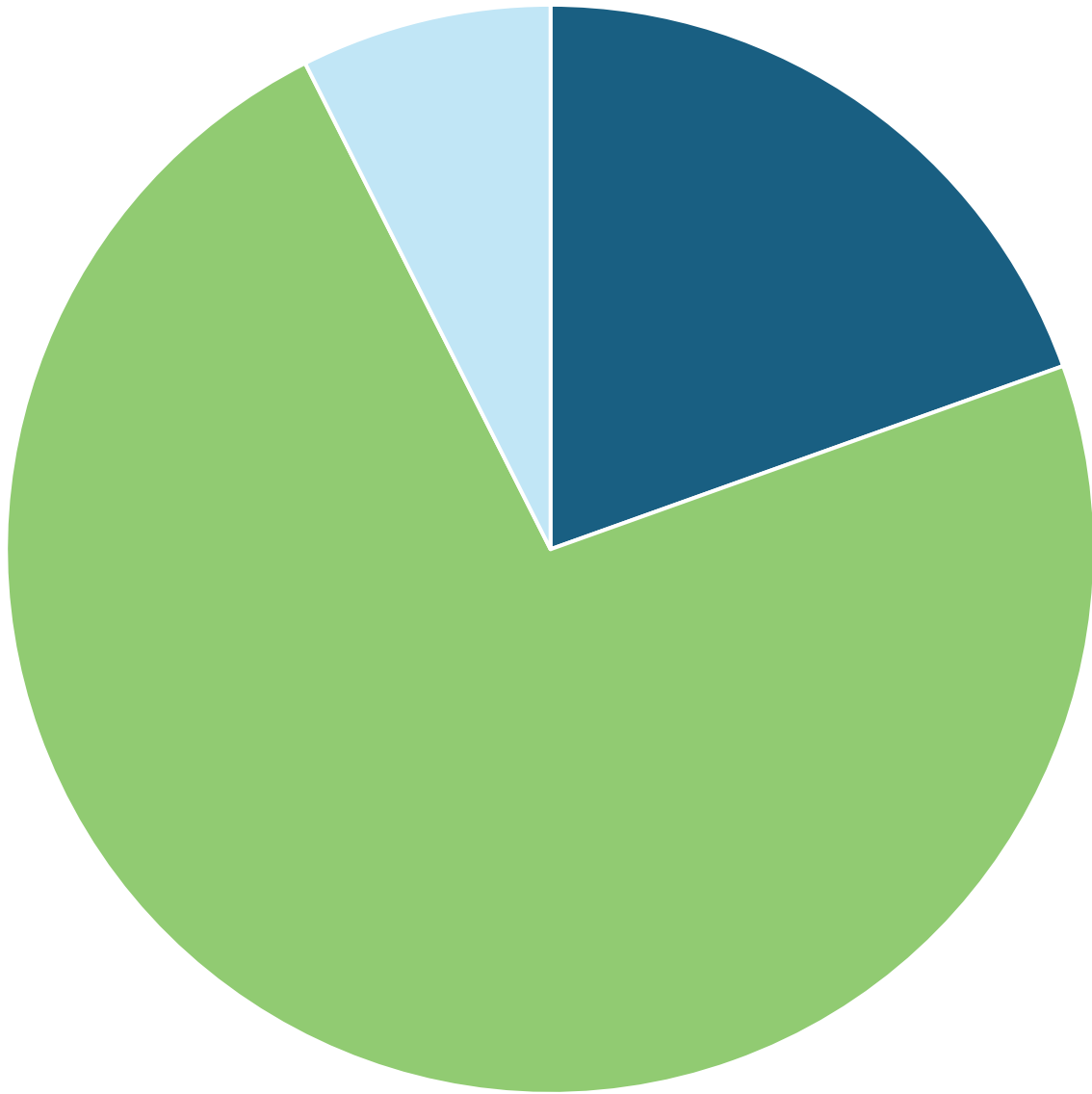


EMSU 660 Empire Log Analysis 4151 - 4158 ft.



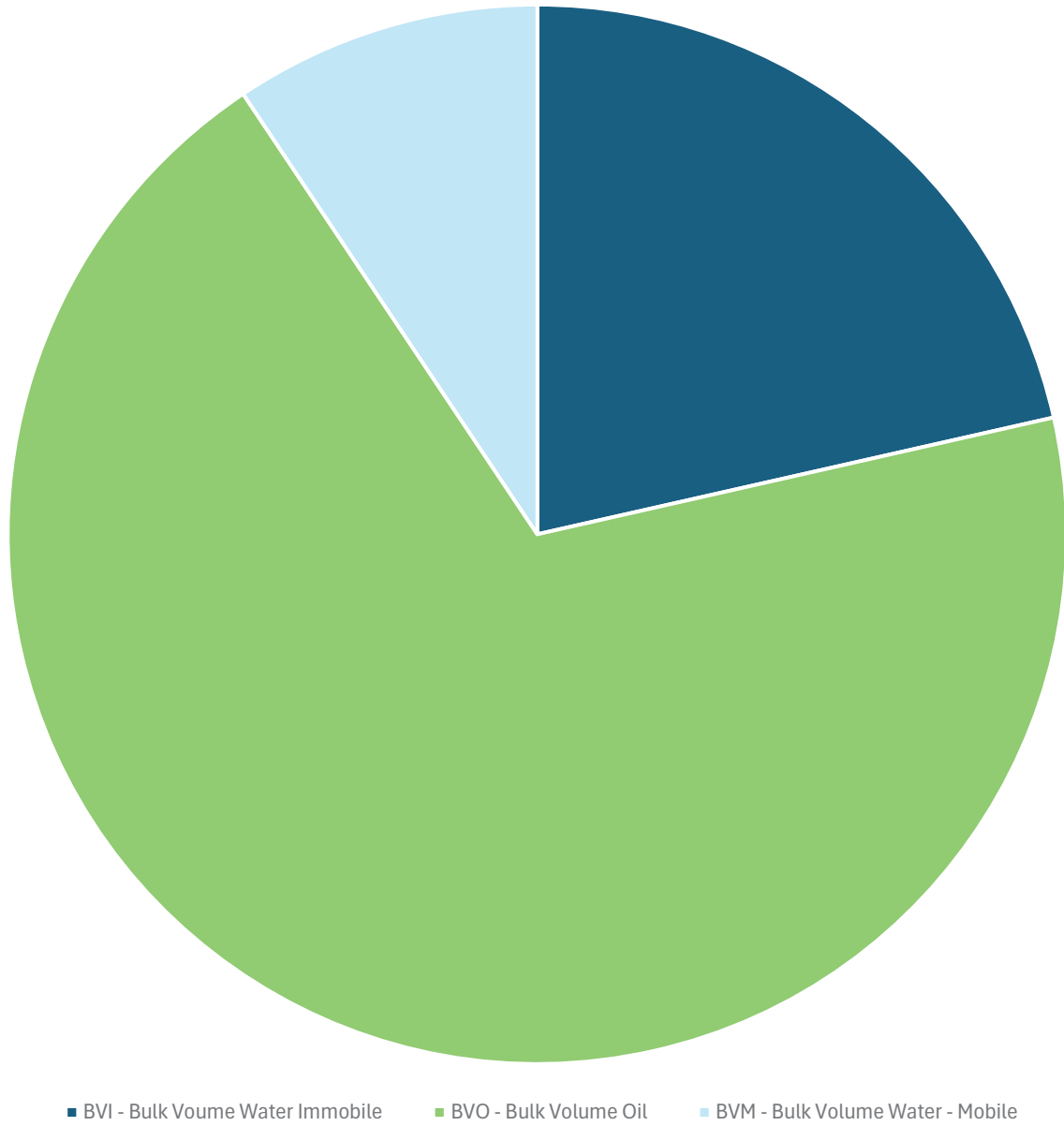
■ BVI - Bulk Voume Water Immobile    ■ BVO - Bulk Volume Oil    ■ BVM - Bulk Volume Water - Mobile

EMSU 660 Empire Log Analysis 4170 - 4174 ft.

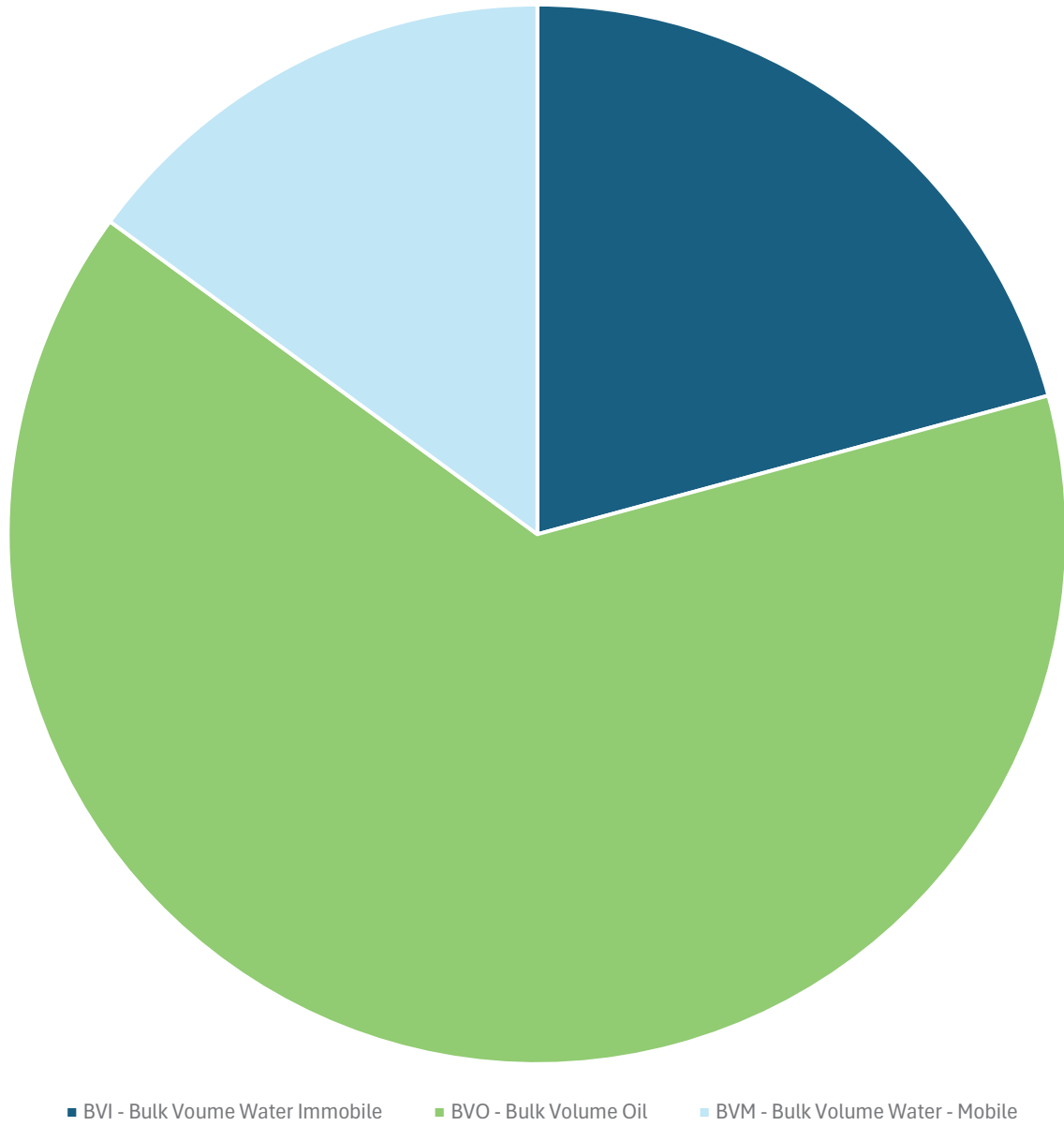


■ BVI - Bulk Voume Water Immobile   ■ BVO - Bulk Volume Oil   ■ BVM - Bulk Volume Water - Mobile

EMSU 660 Empire Log Analysis 4180 - 4184 ft.

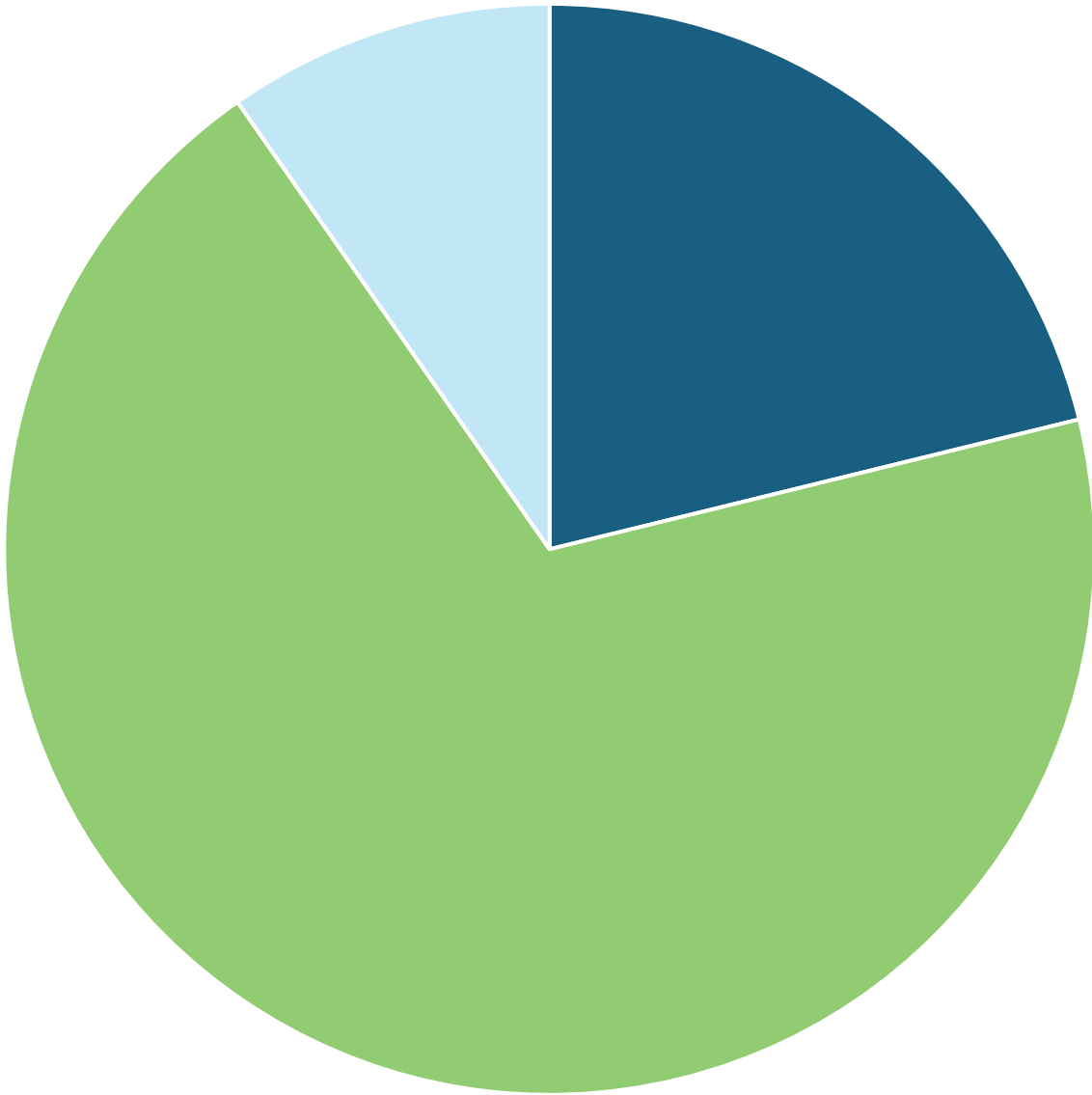


EMSU 660 Empire Log Analysis 4216 - 4220 ft.





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	Water	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

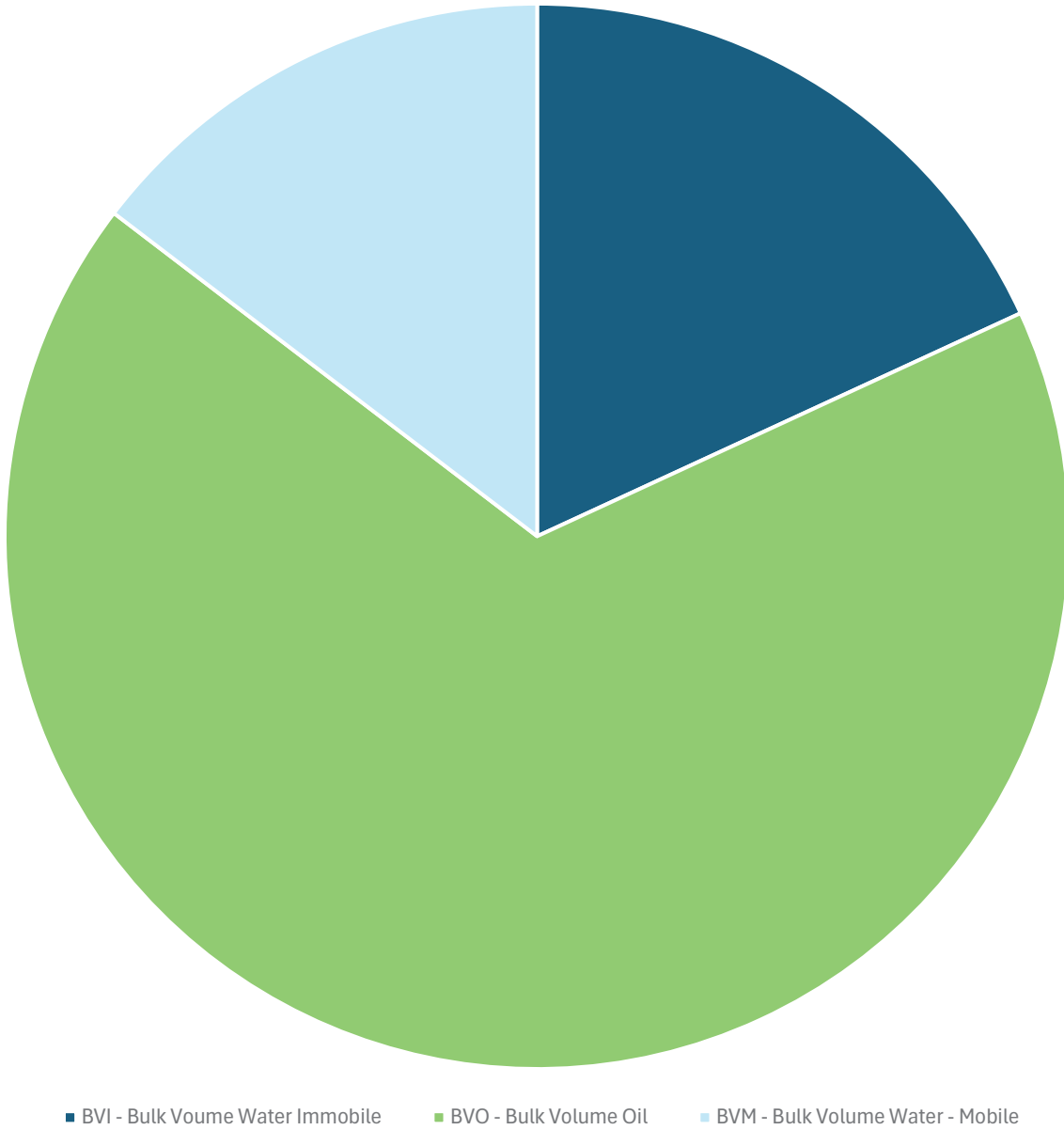
~A	DEPT	PHIE	SW	BVW	BVI - Bulk	Voume	Wate	So	BVO - Bulk	BVM - Bulk	Checks	
											Sum	BV's
4181.5	0.1183	0.348	0.0412	0.0353				0.652	0.077132	0.0059	0.118332	0.00
4182	0.1027	0.3369	0.0346	0.0346				0.6631	0.0681	0	0.1027	0.00
4182.5	0.1143	0.323	0.0369	0.0367				0.677	0.077381	0.0002	0.114281	(0.00)
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)

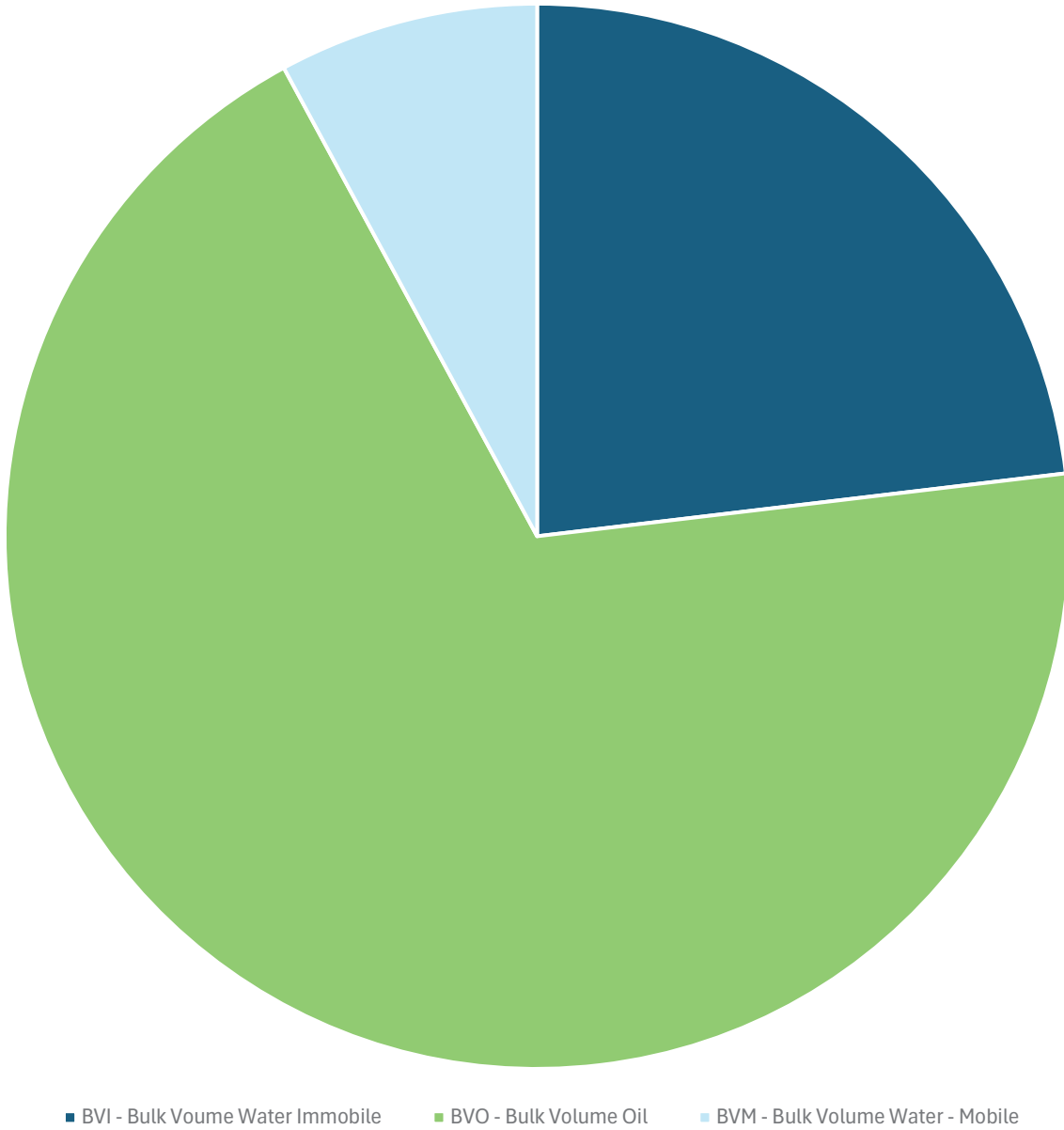


~A	DEPT	PHIE	SW	BVW	BVI - Bulk	Voume Water	So	BVO - Bulk	BVM - Bulk	Checks	
										Sum BV's	Phie-BVT
4227.5	0.0746	0.3317	0.0248	0.0192		0.6683	0.049855	0.0056	0.074655	0.00	
4228	0.0719	0.3007	0.0216	0.0209		0.6993	0.05028	0.0007	0.07188	(0.00)	
4228.5	0.0836	0.2657	0.0222	0.0222		0.7343	0.061387	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.

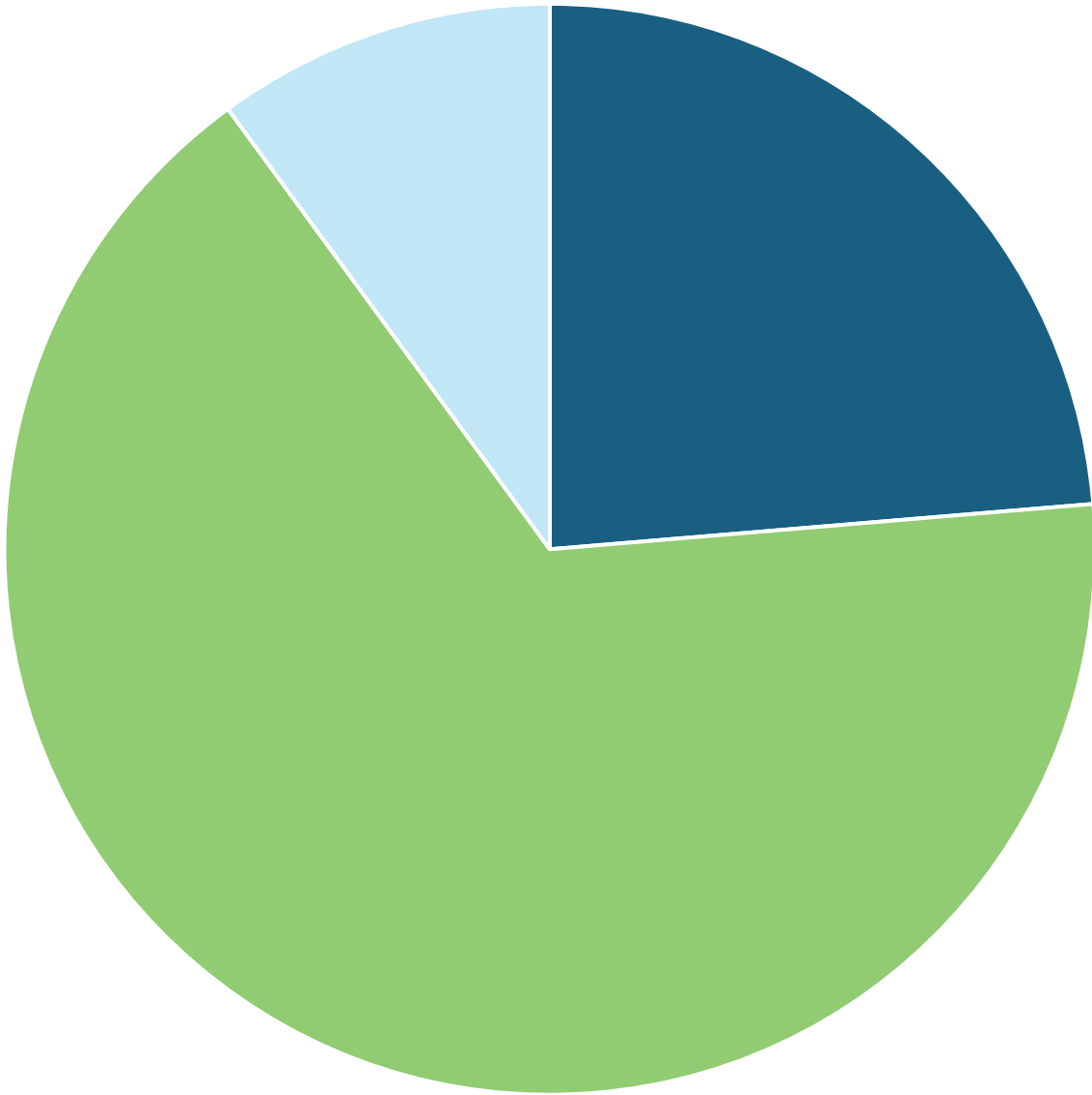


~A	DEPT	PHIE	SW	BVW	BVI - Bulk	Voume	Wate	So	BVO - Bulk	BVM - Bulk	Checks	
											Sum BV's	Phie-BVT
4130	0.0415	0.4628	0.0192	0.0142				0.5372	0.022294	0.005	0.041494	(0.00)
4130.5	0.0642	0.3677	0.0236	0.0178				0.6323	0.040594	0.0058	0.064194	(0.00)
4131	0.0904	0.3294	0.0298	0.0219				0.6706	0.060622	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	Phie-BVT
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	Volume	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	Voume Wate	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 Voume Wate	So	BVO - Bulk	BVM - Bulk	Sum BV's	Phie-BVT
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					Checks					
		PHIE	BVW	SW	BVI - Bulk	Voume	Water	So	BVO - Bulk	BVM - Bulk	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	Water	So	BVO - Bulk	BVM - Bulk	Sum BV's
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)	

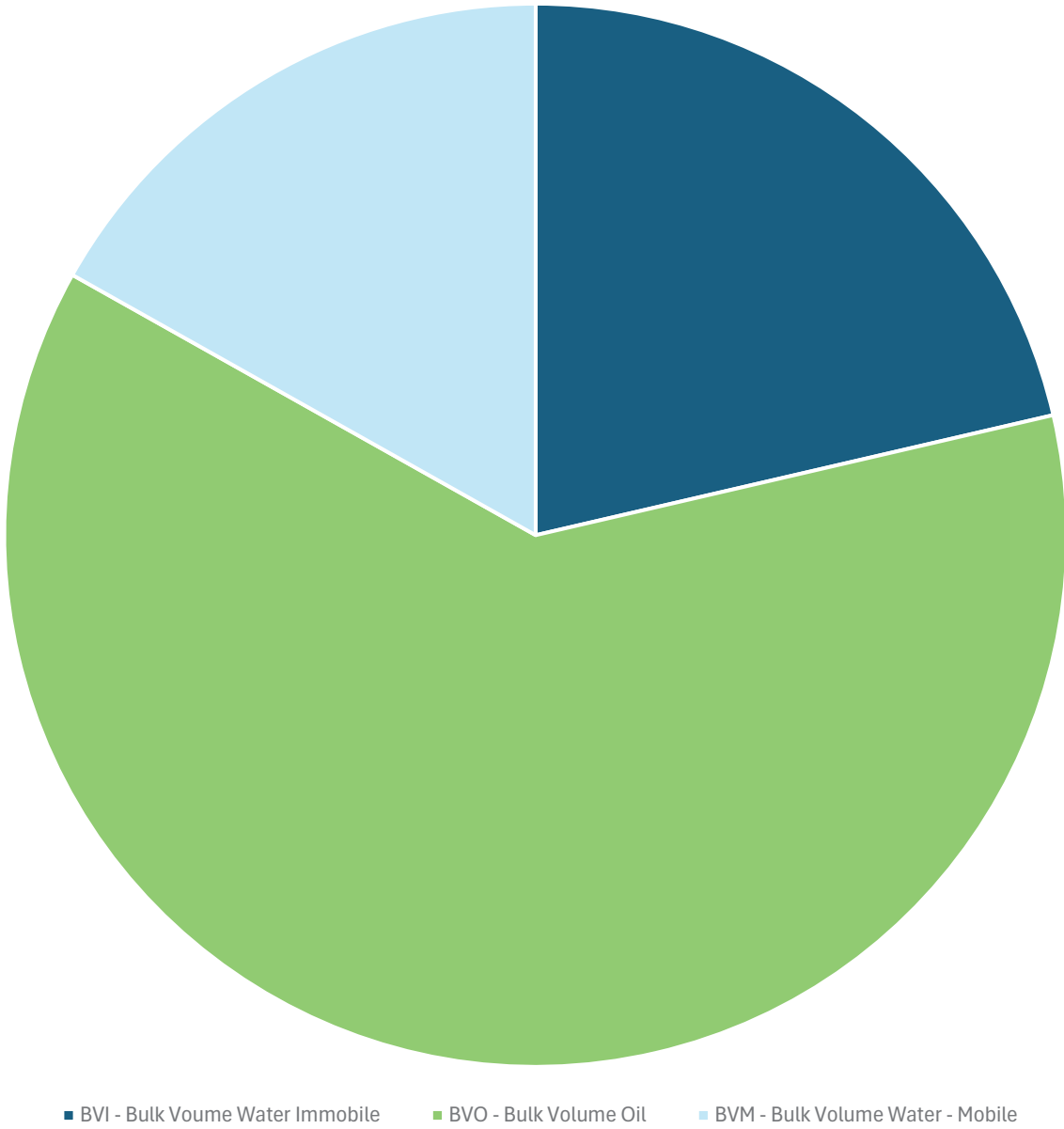
~A	DEPT									Checks	
		PHIE	BVW	SW	BVI - Bulk	Voume	Water	So	BVO - Bulk	BVM - Bulk	Sum BV's
4337	0.2101	0.2946	0.0619	0.0379			0.7054	0.148205	0.024	0.210105	0.00
4337.5	0.2175	0.2782	0.0605	0.0396			0.7218	0.156992	0.0209	0.217492	(0.00)
4338	0.1896	0.3071	0.0582	0.0357			0.6929	0.131374	0.0225	0.189574	(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	Phie-BVT
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
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**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'	
							<b>Total</b>	1,191.78'
							<b>KB Corr</b>	18.00'
							<b>- Cut Off</b>	21.75'
							<b>Landed @</b>	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 4:34:25 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 8 columns: Qty, Type, Description, Cond, Top Depth, Btm Depth, Length. Lists various manual tools and their quantities.

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 7 columns: Event Seq, Stage Desc, Vol (gal), Rate (bpm), Press (psig), Comments. Lists acidizing events with volumes and rates.

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 7 columns: Time, Swab Runs, Casing Psig, Tubing Psig, Beg FL, Rec Comments, BLS. Lists swabbing runs with times and volumes.

Released to Imdging: 8/27/2024 10:32:21 AM

Rig: Received by OGD on 8/26/2024 4:34:25 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					
<b>Rig:</b>	Pulling Unit						
<b>12/16/2005</b>	RDMO PU. Left well SI. Repairing flowline. Will turn well on in the morning.						
	<b>DWC:</b> \$500	<b>CWC:</b> \$378,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>12/28/2005</b>	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.						
	<b>DWC:</b> \$0	<b>CWC:</b> \$378,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>12/31/2005</b>	In 24 hrs, well pmpd 4 BO, 1200 BW & 305 Mcf. Running 70 HZ. FAP 700'. Will increase to 75 HZ.						
	<b>DWC:</b> \$0	<b>CWC:</b> \$378,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>1/11/2006</b>	In 24 hrs, well pmpd 3 BO, 1057 BW & 190 Mcf. Running 75 HZ. FAP 60'. Final Report.						
	<b>DWC:</b> \$0	<b>CWC:</b> \$378,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>2/28/2006</b>	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.						
	<b>DWC:</b> \$6,000	<b>CWC:</b> \$384,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>3/1/2006</b>	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.						
	<b>DWC:</b> \$16,000	<b>CWC:</b> \$400,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Rig:</b>	Pulling Unit						
<b>3/2/2006</b>	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.						
	<b>DWC:</b> \$8,000	<b>CWC:</b> \$408,180	<b>DMC:</b> \$0	<b>CMC:</b> \$0			
<b>Stimulation</b>	<b>Zone:</b>	Grayburg					
	<b>Event Desc:</b>					<b>Top Interval:</b> 0	<b>Bottom Interval:</b> 0
	<b>Event</b>	<b>Stage</b>	<b>Vol</b>	<b>Rate</b>	<b>Press</b>	<b>Comments</b>	
	<b>Seq</b>	<b>Desc</b>	<b>(gal)</b>	<b>(bpm)</b>	<b>(psig)</b>		
	1	Acid	500	1.0	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.	
		<b>Ttl Gals:</b>	2,260				
<b>Swab</b>	<b>Zone:</b>	Grayburg					
	<b>Event Desc:</b>	Swab after acid job				<b>Top Interval:</b> 3,784	<b>Bottom Interval:</b> 3,912
	<b>Time</b>	<b>Swab</b>	<b>Casing</b>	<b>Tubing</b>	<b>Beg</b>	<b>BBLs</b>	
		<b>Runs</b>	<b>Psig</b>	<b>Psig</b>	<b>FL</b>	<b>Rec Comments</b>	
	12:00	0	0	0	2,300	0.00 SITP vac.	
	17:00	25	0	0	3,500	62.00 Swbd perfs: 3,784' to 3,912'. Swbd dry. Rec 61 BW & 1 BO. BLWTR 40.	
				<b>Ttl Bbls:</b>	62.00		
<b>Rig:</b>	Pulling Unit						
<b>3/3/2006</b>	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.						
	<b>DWC:</b> \$6,500	<b>CWC:</b> \$414,680	<b>DMC:</b> \$0	<b>CMC:</b> \$0			

**ZONE 1** Desc: Grayburg  
**Object 1** Desc: 2-7/8" 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'	
						<b>Total</b>	3,954.22'
						<b>KB Corr</b>	16.50'
						<b>Landed @</b>	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  
**Forcst Gas:**      **Prev Gas:** 2  
**Forcst Oil:** 0      **Prev Oil:** 5  
**Forcst 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  
**Forcst Gas:**      **Prev Gas:** 2  
**Forcst Oil:** 0      **Prev Oil:** 5  
**Forcst 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).
<b>Ttl Gals:</b>		3,360			

EUNICE MONUMENT SO.UNIT #660

**Rig:** Pulling Unit  
**Forcst Gas:**      **Prev Gas:** 2  
**Forcst Oil:** 0      **Prev Oil:** 5  
**Forcst 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 from acid job  
**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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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:** **Prev Gas:** 2  
**Forcst Oil:** 0 **Prev Oil:** 5  
**Forcst H2O:** 0 **Prev 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'.

DWC: \$12,500 CWC: \$498,580 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

7/21/2006 Rel pkr. RIH & latched on to RBP. Rel plug. POOH w/tbg. LD tools. RIH w/2-7/8" BPMA, PS, 2.5 x 29' pmp bbl, 8 jts of 2-7/8", 6.5#, J-55, EUE, 8rd tbg, 5-1/2" TAC & 116 jts of 2-7/8", 6.5", J-55, EUE, 8rd tbg. ND BOP. Set TAC w/18 pts tens. NU WH. PU & RIH w/2.5" x 2-1/4" THBC pmp w/3' plngr (SN# DC-894), 1 - 1-1/2" K-bar, 7/8" x 4' stabilizer sub, 11 - 1-1/2" K-bars, 94 - 7/8" D-78 rods, 51 - 1" D-78 rods, 4 - 1" D-78 pony rods (8', 6', 6' & 2') & 1-1/2" x 26' SM PR. SWO & HWO. RU pmp trk. Loaded tbg w/11 bbls of FW. Press up in 5 strokes to 500 psig, held ok. RD pmp trk. RDMO PU. RWTP.

DWC: \$7,500 CWC: \$506,080 DMC: \$0 CMC: \$0

Tubing

Location: Lower  
 ZONE 1 Desc: GB/SA Top Perf: 3,750.00 Btm Perf: 3,912.00 OH: No  
 Object 1 Desc: 5-1/2 Id: CIBP Depth: 4,000.00  
 Object 2 Desc: 2-1/4" TP Id: PI Depth: 3,934.00  
 Object 3 Desc: 5-1/2" Cain Id: TAC Depth: 3,679.00

Qty	Type	Description	Cond	Top Depth	Btm Depth	Length
1	Tubing	2-7/8", 6.5#, J-55, EUE, 8rd tbg w/male BP	Same	3,967.88	3,999.23	31.35'
1	Other	2-7/8" Perf Sub	Same	3,963.78	3,967.88	4.10'
1	Other	2-1/4" Pmp bbl	New	3,934.43	3,963.78	29.35'
8	Tubing	2-7/8", 6.5#, J-55, EUE, 8rd Tubing	Same	3,681.65	3,934.43	252.78'
1	Other	2-7/8" x 5-1/2" TAC	New	3,678.93	3,681.65	2.72'
116	Tubing	2-7/8", 6.5#, J-55, EUE, 8rd Tubing	Same	16.50	3,678.93	3,662.43'
<b>Total</b>						3,982.73'
<b>KB Corr</b>						16.50'
<b>Landed @</b>						3,999.23'

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

8/18/2006 In 24 hrs, well made 0 BO, 646 BW & 42 MCF. Running 100% on POC w/2,286 FAP.

DWC: \$0 CWC: \$506,080 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit

Forcst Gas: Prevl Gas: 42  
 Forcst H2O: 0 Prevl H2O: 646

8/24/2006 MIRU Nabors Well Service PU (Lozano). POOH w/rods. LD rods & pmp. ND WH. Rel TAC. NU BOP. POOH w/tbg. LD pmp bbl & slotted MAJ. SWI & SDON.

DWC: \$5,000 CWC: \$511,080 DMC: \$0 CMC: \$0

EUNICE MONUMENT SO.UNIT #660

Rig: Pulling Unit

Forcst Gas: Prevl Gas: 42  
 Forcst H2O: 0 Prevl H2O: 646

8/25/2006 RU Woods Group ESP spoolers. RIH w/ESP u-base, ESP 105 hp, 1,520v, 47a mtr, lower seal section (TR4-98L/ESP), adaptor, upper seal section (TR4-98L/ESP), Gas seperator(400-3B RGS/ESP), ESP Wood Group 100 stg TD/1750 sub pmp (SN# 2F6H21598M), ESP Wood Group 100 stg TD/1750 sub pmp (SN# 2F6H21597M), SN, 2-7/8" x 4' tbg sub, 70' - #6FL mtr lead cable & 4,000' #4 flat cable on 116 jts of 2-7/8", 6.5#, J-55, EUE, 8rd tbg. PI @ 3,719'. ND BOP. NU WH. Sub pmpd up in 10". RD spoolers. RDMO PU. RWTP.

DWC: \$6,500 CWC: \$517,580 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: CIBP Depth: 4,000.00  
 Object 2 Desc: ESP Intake Id: PI Depth: 3,719.00  
 Object 3 Desc: Id: Depth: 0.00

Qty	Type	Description	Cond	Top Depth	Btm Depth	Length
1	Other	ESP 456 U-base	Used	3,751.72	3,752.72	1.00'
1	manual	Motor - 105 HP, 1,520 volt, 47 Amp	Used	3,733.32	3,751.72	18.40'
1	manual	Other - Lower Seal TR4-98L/ ESP	Used	3,728.02	3,733.32	5.30'
1	manual	Other - Adaptor	New	3,727.62	3,728.02	0.40'
1	manual	Other - Upper Seal TR4-98L/ ESP	Used	3,722.32	3,727.62	5.30'
1	manual	Other - Gas Separator 400-3B-RGS-ESP	Used	3,719.30	3,722.32	3.02'

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	
						<b>Total</b>	3,736.22
						<b>KB Corr</b>	16.50
						<b>Landed @</b>	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 pmpd 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'	
						<b>Total</b>	3,733.80'
						<b>KB Corr</b>	16.50'
						<b>Landed @</b>	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 4:34:25 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:**  
**Forst H2O:** 0  
**Prev Gas:** 42  
**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:**  
**Forst Oil:** 0  
**Prev Gas:** 180  
**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.)

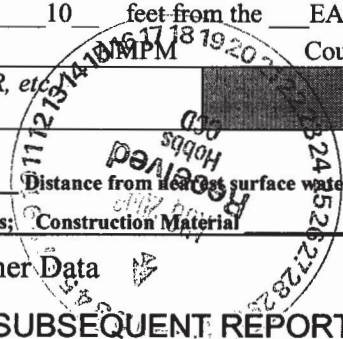
1. Type of Well: Oil Well  Gas Well  Other

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

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

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"  
Sole

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'.

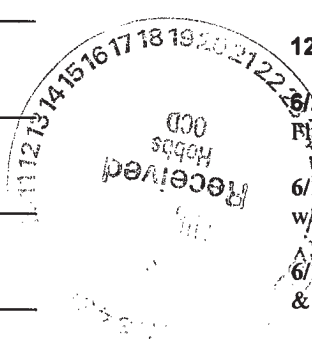
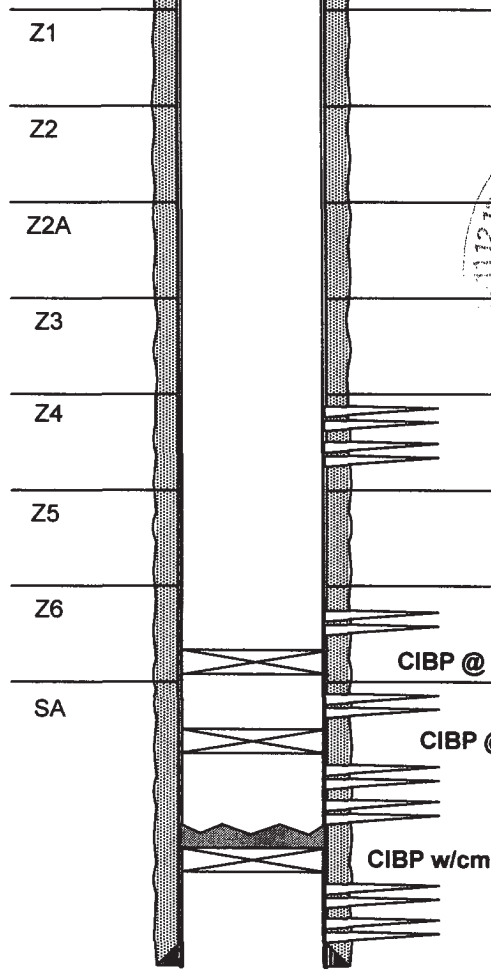
**Tbg Detail: 6/29/06:**

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 #, - Note 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 - 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

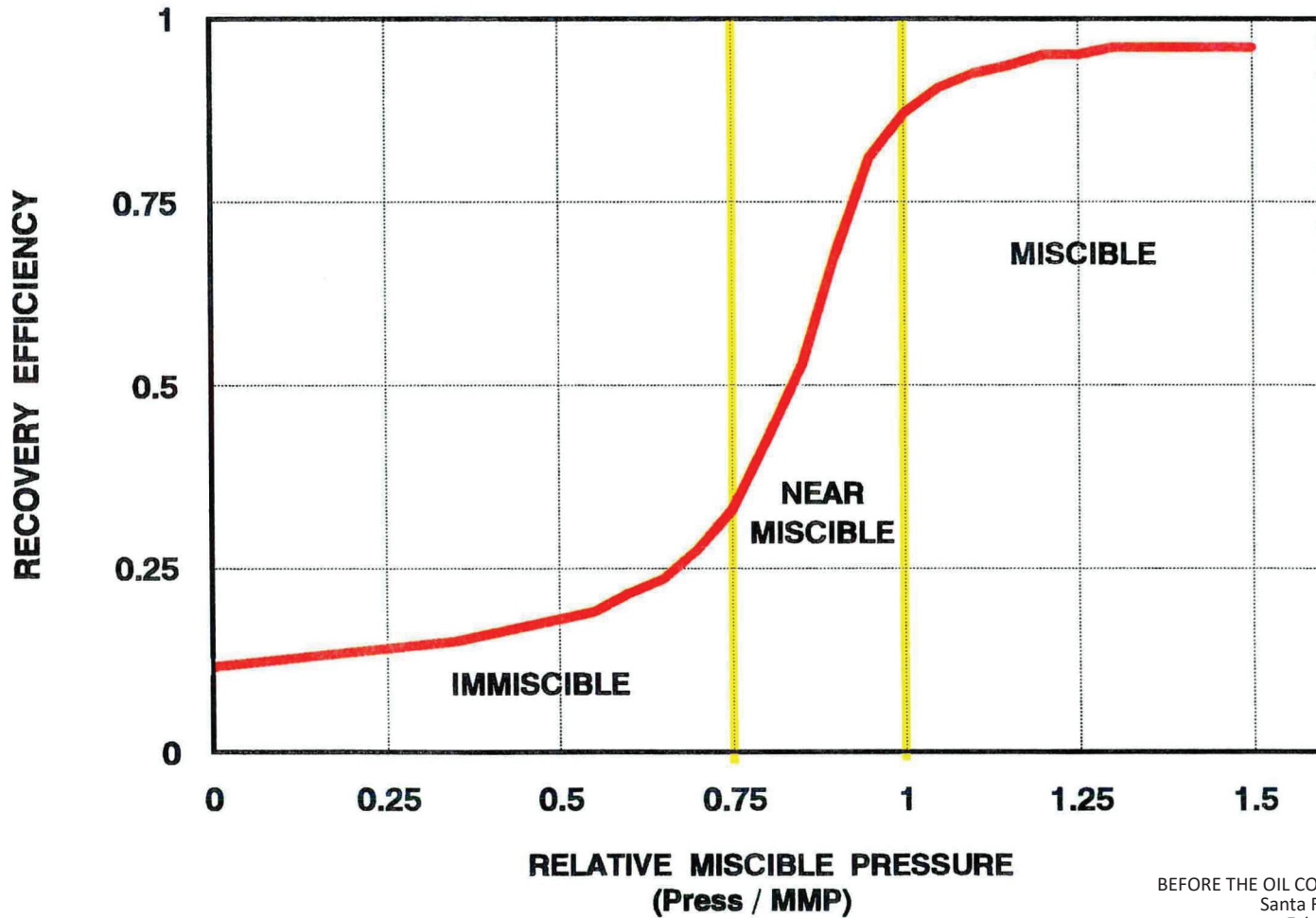
SA

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