Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVEI	)
OMB No. 1004-013	7
Expires: October 31, 2	021

BURI	EAU OF LAND MANAGEMENT		5. Lease Serial No.			
Do not use this t	OTICES AND REPORTS ON Vorm for proposals to drill or to Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee or	Tribe Name		
SUBMIT IN	<b>FRIPLICATE</b> - Other instructions on pag	ge 2	7. If Unit of CA/Agree	ment, Name and/or No.		
1. Type of Well  Oil Well  Gas W	/ell Other		8. Well Name and No.			
2. Name of Operator			9. API Well No.			
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or E	Exploratory Area		
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)		11. Country or Parish,	State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NO	TICE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TYPE OF A	ACTION			
Notice of Intent	Acidize Dee	pen Pr	roduction (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report	Change Plans Plug	and Abandon Te	ecomplete emporarily Abandon	Other		
Final Abandonment Notice	Convert to Injection Plug peration: Clearly state all pertinent details,		ater Disposal			
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title				
Signature		Date				
	THE SPACE FOR FED	ERAL OR STATE (	OFICE USE			
Approved by		Title	r	Date		
	ned. Approval of this notice does not warran quitable title to those rights in the subject le duct operations thereon.	nt or	ļL			
	3 U.S.C Section 1212, make it a crime for a ents or representations as to any matter with		villfully to make to any de	partment or agency of the United States		

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

# **Additional Information**

### **Additional Remarks**

TVD/TD New: 12,520TVD, 17,417MD

We are also requesting to omit the DV tool from the 7-5/8 intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the 7-5/8 annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

We will also like to request to skid the rig after surface casing and perform off line cement. Please see the attached drilling plan, BOPs, Chokes, Directional plan, OLC procedure and C102.

### **Location of Well**

0. SHL: SWSW / 390 FSL / 410 FWL / TWSP: 25S / RANGE: 33E / SECTION: 29 / LAT: 32.095392 / LONG: -103.601531 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 437 FSL / 1093 FWL / TWSP: 25S / RANGE: 33E / SECTION: 29 / LAT: 32.0955056 / LONG: -103.599325 ( TVD: 12189 feet, MD: 12266 feet ) BHL: NWNW / 100 FNL / 1170 FWL / TWSP: 25S / RANGE: 33E / SECTION: 29 / LAT: 32.108558 / LONG: -103.59907 ( TVD: 12430 feet, MD: 17094 feet )

<u>District I</u> 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 Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	•	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
30-025-46306		98180	lfcamp	
4 Property Code 39981			operty Name DE 29 FEDERAL	<sup>6</sup> Well Number 17H
7 OGRID No.			perator Name	9 Elevation
215099		CIMARE	EX ENERGY CO.	3401.0'

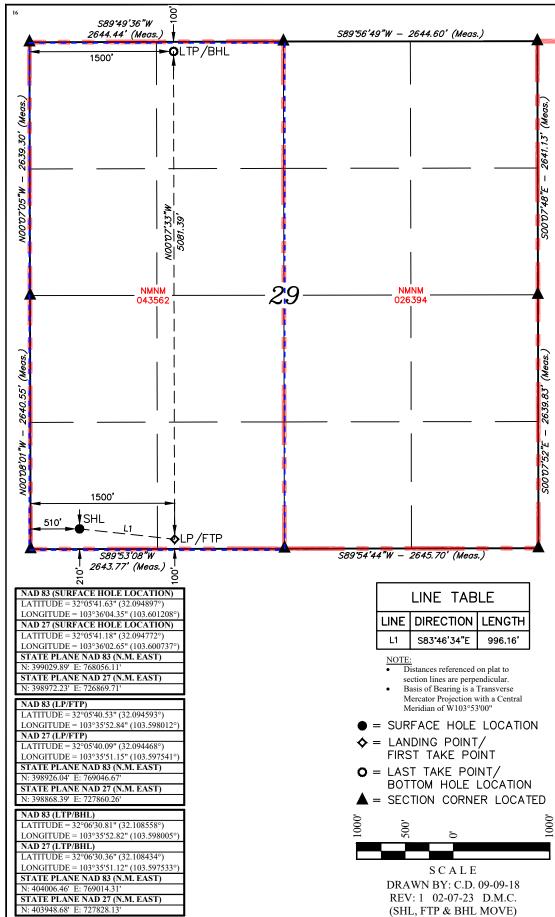
# <sup>10</sup> Surface Location

M 29 25S 33E 210 SOUTH 510 WEST LEA	- 1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	١	M	29	25S	33Ē		210	SOUTH	510	WEST	LEA

# <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. C	Sect	9	Township 25S	Range 33E	Lot Idn	Fe	et from the 100	North/South line NORTH	Feet from the 1500	East/West line WEST	County LEA
12 Dedicated Acre 320	es	13 Jo	int or Infill	14 Conso	lidation Code		15 Order No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



### 17 OPERATOR **CERTIFICATION**

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 organization eitner 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.

3/7/23 Date

Kanicia Schlichting Printed Name

kanicia.schlichting@coterra.com E-mail Address

# 18 SURVEYOR CERTIFICATION

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.

July 07, 2018

Date of Survey

Signature and Seal of Professional Surveyor:



(SHL, FTP & BHL MOVE)

Released to Imaging: 5/4/2023 2:02:06 PM

# 1. Geological Formations

TVD of target 12,520 Pilot Hole TD N/A

MD at TD 17,417 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	935	Useable Water	
Top of Salt	1298	N/A	
Base of Salt	4714	N/A	
Lamar	4909	N/A	
Bell Canyon	4937	N/A	
Cherry Canyon	5990	N/A	
Brushy Canyon	7536	Hydrocarbons	
Bone Spring	9032	Hydrocarbons	
Avalon Shale	9312	Hydrocarbons	
Wolfcamp	12189	Hydrocarbons	

# 2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	998	998	10-3/4"	40.50	J-55	BT&C	3.67	7.27	15.56
9 7/8	0	12766	12481	7-5/8"	29.70	L-80	BT&C	2.45	1.18	1.79
6 3/4	0	12016	12016	5-1/2"	20.00	L-80	LT&C	1.13	1.18	1.85
6 3/4	12016	17417	12520	5"	18.00	HCP-110	BT&C	1.65	1.67	63.93
					BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will not be cemented

<u>DV Tool</u>: Coterra is requesting to omit the DV tool from the 7-5/8" intermediate casing string. In lieu of a DV tool, Coterra will retain the option to pump down the 7-5/8" annulus through casing valves with the appropriate cement slurry in the event returns to surface are not achieved on the primary job.

# Cimarex Energy Co., Cascade 29 Federal #17H

	Y or N
s casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
s premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
s well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
s well within the designated 4 string boundary.	N
s well located in SOPA but not in R-111-P?	N
f yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
s well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
s 2nd string set 100' to 600' below the base of salt?	N
s well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
s well located in critical Cave/Karst?	N
f yes, are there three strings cemented to surface?	N
s AC Report included?	N

# 3. Cementing Program

Casing		Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description					
Surface	339	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite					
	156	14.80	1.34	6.32	9.5	Tail: Class C + LCM					
Intermediate	1018	10.30	3.64	22.18		Lead: Tuned Light + LCM					
	200	14.80	1.34	6.32	9.5	Tail: Class C + LCM					
Production	724	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS					
		•		-							

Casing String	тос	% Excess
Surface	0	42
Intermediate	0	49
Production	12566	25

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

# 4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
9 7/8	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram	Х	5M
			Double Ram	Х	
			Other		
6 3/4	13 5/8	10M	Annular	Х	50% of working pressure
			Blind Ram		
			Pipe Ram	Х	10M
			Double Ram	Х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	0	ormation integrity test will be performed per Onshore Order #2.  n Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed.  fill be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
Х	Α	variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	1	N Are anchors required by manufacturer?	

#### 5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 998'	FW Spud Mud	7.80 - 8.30	30-32	N/C
998' to 12766'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12766' to 17417'	Oil Based Mud	12.00 - 12.50	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

#### 6. Logging and Testing Procedures

Logg	ging, Coring and Testing
Х	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
7 20 go :	

### 7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	8138 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

H2S plan is attached

# 8. Other Facets of Operation

### 9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 10000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

#### 10.Other Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage packoff and lock ring 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 17H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 17H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 10 3/4" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 10 3/4" casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 17H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.



# Cascade 29 Fed 17H

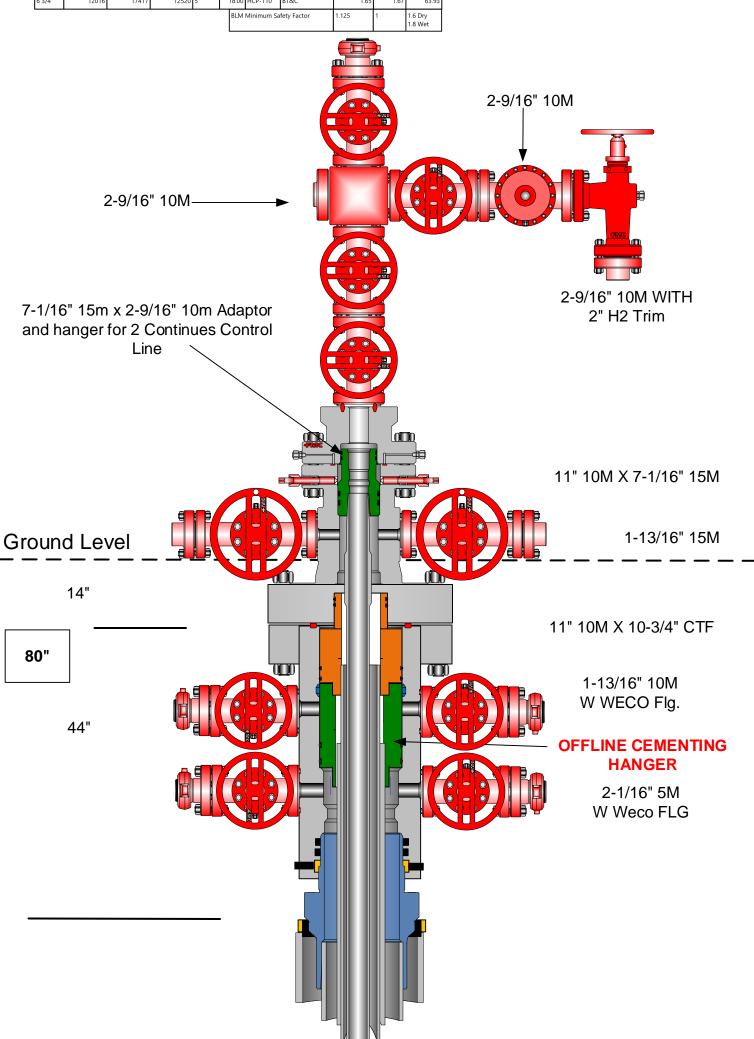
CACTUS FOR SERVICE WEARBUSHING IN CASING HEAD & CASING SPOOL

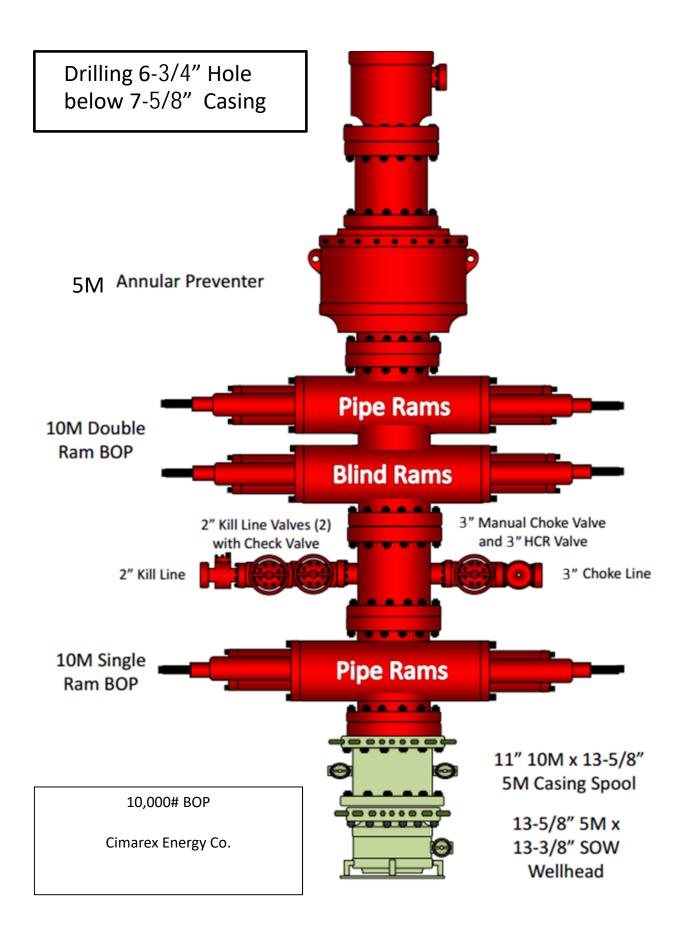
**PREPARED ON 03-29-2021** 

# LEA CO., NM

# 2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	998	998	10-3/4"	40.50	J-55	BT&C	3.67	7.27	15.56
9 7/8	0	12766	12481	7-5/8"	29.70	L-80	BT&C	2.45	1.18	1.79
6 3/4	0	12016	12016	5-1/2"	20.00	L-80	LT&C	1.13	1.18	1.85
6 3/4	12016	17417	12520	5"	18.00	HCP-110	BT&C	1.65	1.67	63.93
					BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry





# **Tapered Production Specs 5.5" 23# L80 LT&C**

Burst-14530 psi Collapse-14540 Tension-729000 lbs/ft

# 5" 18# P110 BT&C

Burst-13940 Collapse-13470 Tension-580000/ body 388000/ joint Received by OCD: 4/28/2023 7:58:32 PM Page 17 of 24

# Cementing Operational Workflow

# **Conventional Cementing**

- Land casing on fluted mandrel hanger
- Circulate down casing, taking returns through BOP stack
- 3. Pump lead and tail cement
- Displace cement and bump the plug 4.
- 5. Ensure floats are holding pressure
- 6. RD cement crew
- 7. Install packoff to isolate pressure
- 8. Install BPV and skid rig

# Offline Cementing

- Land casing on **solid body** mandrel hanger
  - Engage packoff and lockring
- **Install BPV** 2.
- 3. Skid rig
- Check for pressure and remove BPV 4.
- 5. Circulate down casing, taking returns through casing valves
- Pump lead and tail cement 6.
- 7. Displace cement and bump the plug
- 8. Ensure floats are holding pressure
- 9. RD cement crew
- 10. Install BPV and TA cap

### Schlumberger

#### Cimarex Cascade 29 Federal 17H Rev0 kFc 20Feb23 Proposal Geodetic Report

Report Date:
Client:
Field:
Structure / Slot:
Well:
Borehole:
UBHI / APIE:
Survey Name:
Survey Date:
Tort / AHD / DDI / ERD Ratio:
Coordinate Reference System:
Location (at / Long:
Location Grid NE / YX.
CRS Grid Convergence Angle:
Grid Scale Factor:
Version / Patch:

February 21, 2023 - 04:10 PM (UTC 0)
COTERRA
NM Lac County (NAD 83)
Coterra Cascade 29 Federal Pad 15-18
Cascade 29 Federal 177+
Unincown / Unknown
Cimarex Cascade 29 Federal 177+ Rev0 kFc 20Feb23
February 21, 2023
11.0982 - 10807-980 h f .5072 / 0.485
NAD83 New Mexico State Plane, Eastern Zone, US Feet
32°54 f.28787N , 103°384 .355697W
N 399028.800 hUS , E 768056.110 hUS
0.3897
0.39998796

Survey / DLS Computation:
Vertical Section Azimuth:
Vertical Section Origin:
TVD Reference Datum:
TVD Reference Elevation:
Magnetic Declination:
Magnetic Declination:
Total Gravity Field Strength:
Gravity Model:
Total Magnetic Field Strength:
Magnetic Dip Angle:
Declination Date:
Magnetic Dip Angle:
Declination Date:
Magnetic Declination Model:
North Reference
Grid Convergence Used:
Grid Convergence Used:
Total Corr Mag North-Sorid North:
Local Coord Referenced To:

Minimum Curvature / Lubinski 358.630 "(GRID North) 0.000 ft, 0.000 ft RKB 3424.000 ft above MSL 43401.000 ft above MSL 6.276" 998.4.292mgn (9.80665 Based) GARM 47377.384 nT 59.627" February 20, 2023 HDM 2023 Grid North 0.389" 5.8873" Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [210' FSL, 510' FWL]	0.00 100.00	0.00	95.99 95.99	0.00 100.00	-3,424.00 -3.324.00	0.00	0.00	0.00	399,029.89 399.029.89	768,056.11 768,056.11		-103.60120850 -103.60120850	0.00	0.00	0.00
	200.00	0.00	95.99	200.00	-3,224.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
	300.00 400.00	0.00	95.99 95.99	300.00 400.00	-3,124.00 -3,024.00	0.00	0.00	0.00	399,029.89 399,029.89	768,056.11 768,056.11		-103.60120850 -103.60120850	0.00	0.00	0.00
	500.00	0.00	95.99	500.00	-2,924.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
	600.00 700.00	0.00	95.99 95.99	600.00 700.00	-2,824.00 -2,724.00	0.00	0.00	0.00	399,029.89 399,029.89	768,056.11 768,056.11		-103.60120850 -103.60120850	0.00	0.00	0.00
	800.00	0.00	95.99	800.00	-2,624.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
Rustler	900.00 948.00	0.00	95.99 95.99	900.00 948.00	-2,524.00 -2,476.00	0.00	0.00	0.00	399,029.89 399,029.89	768,056.11 768,056.11	32.09489687	-103.60120850 -103.60120850	0.00	0.00	0.00
Kustiei	1,000.00	0.00	95.99	1,000.00	-2,424.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
	1,100.00 1,200.00	0.00	95.99 95.99	1,100.00 1,200.00	-2,324.00 -2,224.00	0.00	0.00	0.00	399,029.89 399,029.89	768,056.11 768,056.11	32.09489687 32.09489687	-103.60120850 -103.60120850	0.00	0.00	0.00
	1,300.00	0.00	95.99	1,300.00	-2,124.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
Top Salt	1,363.00 1,400.00	0.00	95.99 95.99	1,363.00 1,400.00	-2,061.00 -2,024.00	0.00	0.00	0.00	399,029.89 399,029.89	768,056.11 768,056.11	32.09489687 32.09489687	-103.60120850 -103.60120850	0.00	0.00	0.00
	1,500.00	0.00	95.99	1,500.00	-1,924.00	0.00	0.00	0.00	399,029.89	768,056.11	32.09489687	-103.60120850	0.00	0.00	0.00
Nudge, Build 2°/100ft	1,600.00 1,700.00	0.00 2.00	95.99 95.99	1,600.00 1,699.98	-1,824.00 -1,724.02	0.00 -0.19	0.00 -0.18	0.00 1.74	399,029.89 399.029.71	768,056.11 768,057.85		-103.60120850 -103.60120290	0.00 2.00	0.00	0.00
	1,800.00	4.00	95.99	1,799.84	-1,624.16	-0.77	-0.73	6.94	399,029.16	768,063.05	32.09489474	-103.60118610	2.00	2.00	0.00
	1,900.00	6.00	95.99	1,899.45	-1,524.55	-1.74	-1.64	15.61	399,028.25	768,071.72		-103.60115814	2.00	2.00	0.00
	2,000.00 2,100.00	8.00 10.00	95.99 95.99	1,998.70 2,097.47	-1,425.30 -1,326.53	-3.09 -4.82	-2.91 -4.54	27.73 43.29	399,026.98 399,025.35	768,083.84 768,099.39	32.09488359	-103.60111903 -103.60106883	2.00 2.00	2.00 2.00	0.00
Hold	2,124.79	10.50	95.99	2,121.86	-1,302.14	-5.31	-5.00	47.67	399,024.89	768,103.78		-103.60105468	2.00	2.00	0.00
	2,200.00 2.300.00	10.50 10.50	95.99 95.99	2,195.81 2.294.14	-1,228.19 -1,129.86	-6.82 -8.84	-6.43 -8.33	61.30 79.41	399,023.46 399,021.56	768,117.41 768,135.52		-103.60101072 -103.60095226	0.00	0.00	0.00
	2,400.00	10.50	95.99	2,392.47	-1,031.53	-10.85	-10.23	97.53	399,019.67	768,153.64	32.09486694	-103.60089380	0.00	0.00	0.00
	2,500.00 2,600.00	10.50 10.50	95.99 95.99	2,490.79 2,589.12	-933.21 -834.88	-12.87 -14.89	-12.12 -14.02	115.65 133.77	399,017.77 399,015.87	768,171.75 768,189.87		-103.60083535 -103.60077689	0.00	0.00	0.00
	2,700.00	10.50	95.99	2,687.45	-736.55	-16.90	-15.92	151.88	399,013.97	768,207.99	32.09485027	-103.60071843	0.00	0.00	0.00
	2,800.00 2,900.00	10.50 10.50	95.99 95.99	2,785.77 2,884.10	-638.23 -539.90	-18.92 -20.94	-17.82 -19.72	170.00 188.12	399,012.07 399,010.17	768,226.10 768,244.22		-103.60065998 -103.60060152	0.00	0.00	0.00
	3,000.00	10.50	95.99	2,982.43	-441.57	-22.95	-21.62	206.23	399,008.27	768,262.34	32.09483359	-103.60054307	0.00	0.00	0.00
	3,100.00 3,200.00	10.50 10.50	95.99 95.99	3,080.75 3,179.08	-343.25 -244.92	-24.97 -26.99	-23.52 -25.42	224.35 242.47	399,006.37 399,004.47	768,280.45 768,298,57		-103.60048461 -103.60042615	0.00	0.00	0.00
	3,300.00	10.50	95.99	3,277.41	-146.59	-29.00	-27.32	260.59	399,002.57	768,316.69	32.09481691	-103.60036770	0.00	0.00	0.00
	3,400.00 3,500.00	10.50 10.50	95.99 95.99	3,375.73 3,474.06	-48.27 50.06	-31.02 -33.03	-29.22 -31.12	278.70 296.82	399,000.67 398,998.77	768,334.80 768,352.92		-103.60030924 -103.60025078	0.00	0.00	0.00
	3,600.00	10.50	95.99	3,572.39	148.39	-35.05	-33.02	314.94	398,996.87	768,371.04		-103.60019233	0.00	0.00	0.00
	3,700.00 3,800.00	10.50 10.50	95.99 95.99	3,670.71 3,769.04	246.71 345.04	-37.07 -39.08	-34.92 -36.82	333.05 351.17	398,994.97 398.993.07	768,389.15 768,407.27		-103.60013387 -103.60007542	0.00	0.00	0.00
	3,900.00	10.50	95.99	3,867.37	443.37	-41.10	-38.72	369.29	398,993.07	768,425.38		-103.60007542	0.00	0.00	0.00
	4,000.00	10.50	95.99 95.99	3,965.69	541.69	-43.12	-40.62	387.40 405.52	398,989.28	768,443.50		-103.59995850	0.00	0.00	0.00
	4,100.00 4,200.00	10.50 10.50	95.99 95.99	4,064.02 4,162.35	640.02 738.35	-45.13 -47.15	-42.51 -44.41	405.52 423.64	398,987.38 398,985.48	768,461.62 768,479.73		-103.59990005 -103.59984159	0.00	0.00	0.00
	4,300.00	10.50	95.99	4,260.67	836.67	-49.17	-46.31	441.76	398,983.58	768,497.85	32.09476132	-103.59978314	0.00	0.00	0.00
	4,400.00 4,500.00	10.50 10.50	95.99 95.99	4,359.00 4,457.33	935.00 1,033.33	-51.18 -53.20	-48.21 -50.11	459.87 477.99	398,981.68 398,979.78	768,515.97 768,534.08		-103.59972468 -103.59966622	0.00	0.00	0.00
	4,600.00	10.50	95.99	4,555.66	1,131.66	-55.21	-52.01	496.11	398,977.88	768,552.20	32.09474464	-103.59960777	0.00	0.00	0.00
	4,700.00 4.800.00	10.50 10.50	95.99 95.99	4,653.98 4,752.31	1,229.98 1,328.31	-57.23 -59.25	-53.91 -55.81	514.22 532.34	398,975.98 398.974.08	768,570.32 768,588,43		-103.59954931 -103.59949086	0.00	0.00	0.00
	4,900.00	10.50	95.99	4,850.64	1,426.64	-61.26	-57.71	550.46	398,972.18	768,606.55			0.00	0.00	0.00
Base Salt	4,918.68 5,000.00	10.50 10.50	95.99 95.99	4,869.00 4,948.96	1,445.00 1,524.96	-61.64 -63.28	-58.06 -59.61	553.84 568.57	398,971.83 398,970.28	768,609.93 768,624.67		-103.59942148 -103.59937394	0.00	0.00	0.00
Bell Canyon	5,007.16	10.50	95.99	4,956.00	1,532.00	-63.42	-59.75	569.87	398,970.15	768,625.96	32.09472200	-103.59936976	0.00	0.00	0.00
	5,100.00 5.200.00	10.50 10.50	95.99 95.99	5,047.29 5,145.62	1,623.29 1,721.62	-65.30 -67.31	-61.51 -63.41	586.69 604.81	398,968.38 398.966.48	768,642.78 768,660.90		-103.59931549 -103.59925703	0.00	0.00	0.00
	5,300.00	10.50	95.99	5,243.94	1,819.94	-69.33	-65.31	622.93	398,964.58	768,679.01	32.09470572	-103.59919858	0.00	0.00	0.00
	5,400.00 5,500.00	10.50 10.50	95.99 95.99	5,342.27 5,440.60	1,918.27 2.016.60	-71.35 -73.36	-67.21 -69.11	641.04 659.16	398,962.69 398,960.79	768,697.13 768,715.25		-103.59914012 -103.59908166	0.00	0.00	0.00
	5,600.00	10.50	95.99	5,538.92	2,114.92	-75.38	-71.01	677.28	398,958.89	768,733.36	32.09468904	-103.59902321	0.00	0.00	0.00
	5,700.00 5,800.00	10.50 10.50	95.99 95.99	5,637.25 5,735.58	2,213.25 2,311.58	-77.39 -79.41	-72.90 -74.80	695.39 713.51	398,956.99 398,955.09	768,751.48 768,769.60		-103.59896475 -103.59890630	0.00	0.00	0.00
	5,900.00	10.50	95.99	5,833.90	2,409.90	-81.43	-76.70	731.63	398,953.19	768,787.71	32.09467236	-103.59884784	0.00	0.00	0.00
Cherry Canyon	6,000.00 6,086.21	10.50 10.50	95.99 95.99	5,932.23 6,017.00	2,508.23 2,593.00	-83.44 -85.18	-78.60 -80.24	749.75 765.36	398,951.29 398.949.65	768,805.83 768,821.45		-103.59878938 -103.59873899	0.00	0.00	0.00
,,	6,100.00	10.50	95.99	6,030.56	2,606.56	-85.46	-80.50	767.86	398,949.39	768,823.95	32.09466124	-103.59873093	0.00	0.00	0.00
	6,200.00 6,300.00	10.50 10.50	95.99 95.99	6,128.88 6,227.21	2,704.88 2,803.21	-87.48 -89.49	-82.40 -84.30	785.98 804.10	398,947.49 398.945.59	768,842.06 768,860.18		-103.59867247 -103.59861402	0.00	0.00	0.00
	6,400.00	10.50	95.99	6,325.54	2,901.54	-91.51	-86.20	822.21	398,943.69	768,878.30	32.09464456	-103.59855556	0.00	0.00	0.00
	6,500.00 6,600.00	10.50 10.50	95.99 95.99	6,423.86 6,522.19	2,999.86 3,098.19	-93.52 -95.54	-88.10 -90.00	840.33 858.45	398,941.79 398,939.89	768,896.41 768,914.53		-103.59849710 -103.59843865	0.00	0.00	0.00
	6,700.00	10.50	95.99	6,620.52	3,196.52	-97.56	-91.90	876.56	398,937.99	768,932.64	32.09462788	-103.59838019	0.00	0.00	0.00
	6,800.00 6,900.00	10.50 10.50	95.99 95.99	6,718.85 6,817.17	3,294.85 3,393.17	-99.57 -101.59	-93.80 -95.70	894.68 912.80	398,936.10 398,934.20	768,950.76 768,968.88		-103.59832174 -103.59826328	0.00	0.00	0.00
	7,000.00	10.50	95.99	6,915.50	3,491.50	-103.61	-97.60	930.92	398,932.30	768,986.99		-103.59820482	0.00	0.00	0.00
Drop 2º/100ft	7,066.27 7.100.00	10.50 9.82	95.99 95.99	6,980.66 7.013.86	3,556.66 3,589.86	-104.94 -105.60	-98.86 -99.48	942.92 948.84	398,931.04 398.930.42	768,999.00 769.004.92	32.09460752	-103.59816609 -103.59814700	0.00 2.00	0.00 -2.00	0.00
	7,200.00	7.82	95.99	7,013.66	3,688.67	-107.30	-101.07	964.09	398,928.82	769,020.17	32.09460102	-103.59809779	2.00	-2.00	0.00
	7,300.00	5.82	95.99	7,211.96	3,787.96	-108.61	-102.31	975.90	398,927.58	769,031.98		-103.59805968 -103.59803271	2.00	-2.00	0.00
	7,400.00 7,500.00	3.82 1.82	95.99 95.99	7,311.60 7,411.48	3,887.60 3,987.48	-109.54 -110.09	-103.19 -103.70	984.26 989.15	398,926.70 398,926.19	769,040.34 769,045.23		-103.59803271	2.00	-2.00 -2.00	0.00
Hold	7,591.06	0.00	95.99	7,502.52	4,078.52	-110.25	-103.85	990.59	398,926.04	769,046.67		-103.59801227	2.00	-2.00	0.00
Brushy Canyon	7,591.54 7,600.00	0.00	95.99 95.99	7,503.00 7,511.46	4,079.00 4,087.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67		-103.59801227 -103.59801227	0.00	0.00	0.00
	7,700.00 7,800.00	0.00	95.99 95.99	7,611.46 7,711.46	4,187.46 4,287.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67	32.09459289	-103.59801227 -103.59801227	0.00	0.00	0.00
	7,800.00	0.00	95.99 95.99	7,711.46 7,811.46	4,287.46	-110.25 -110.25	-103.85 -103.85	990.59	398,926.04	769,046.67 769,046.67		-103.59801227	0.00	0.00	0.00
	8,000.00	0.00	95.99	7,911.46	4,487.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
	8,100.00 8,200.00	0.00	95.99 95.99	8,011.46 8,111.46	4,587.46 4,687.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67	32.09459289	-103.59801227 -103.59801227	0.00	0.00	0.00
	8,300.00	0.00	95.99	8,211.46	4,787.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
	8,400.00 8,500.00	0.00	95.99 95.99	8,311.46 8.411.46	4,887.46 4.987.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67		-103.59801227 -103.59801227	0.00	0.00	0.00
	8,600.00	0.00	95.99	8,511.46	5,087.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
Lower Brushy Canyon	8,654.54	0.00	95.99	8,566.00	5,142.00	-110.25 -110.25	-103.85 -103.85	990.59	398,926.04	769,046.67		-103.59801227	0.00	0.00	0.00
	8,700.00 8,800.00	0.00	95.99 95.99	8,611.46 8,711.46	5,187.46 5,287.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67	32.09459289	-103.59801227 -103.59801227	0.00	0.00	0.00
	8,900.00	0.00	95.99	8,811.46	5,387.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
	9,000.00 9,100.00	0.00	95.99 95.99	8,911.46 9.011.46	5,487.46 5,587.46	-110.25 -110.25	-103.85 -103.85	990.59 990.59	398,926.04 398,926.04	769,046.67 769,046.67		-103.59801227 -103.59801227	0.00	0.00	0.00

1962   100	Comments	MD (ft)	inci (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
1		9,200.00					-110.25	-103.85	990.59			32.09459289	-103.59801227			0.00
Part		9,400.00	0.00			5,887.46	-110.25				769,046.67					0.00
. 18 00										398,926.04						0.00
1. 1										398,926.04 398,926.04						0.00
12 Per 1962   100		9,800.00	0.00	95.99	9,711.46	6,287.46	-110.25	-103.85		398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
Section   Control   Cont																0.00
1.00	1St Bone Spring Sand															0.00
1.00																0.00
THE PART OF THE PA																0.00
14 May 1																0.00
And Bows Egyreg Barrel  1, 1, 10, 10, 10, 10, 10, 10, 10, 10, 10		10,500.00					-110.25				769,046.67					0.00
1,000	2Nd Dono Caring Cond	10,600.00			10,511.46		-110.25		990.59		769,046.67					0.00
1,000	2Nd Bone Spring Sand										769,046.67					0.00
1,1000   0.0   6.50   10,111   7,07   10,100   10,00		10,800.00	0.00	95.99	10,711.46	7,287.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
Heave 11,000 0 00 650 10,014 12,000 000 000 000 000 000 000 000 000 00																0.00
Helper Spring Shert   1,2000   0.00   0.00   1,111.60   7,076.60   1,100.00   0																0.00
Herberg 1,190.06   0.00   0.00   1,121.06   7,175.00   1,101.06		11,200.00	0.00	95.99	11,111.46	7,687.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
1,6000		11,300.00		95.99	11,211.46		-110.25	-103.85	990.59		769,046.67	32.09459289		0.00		0.00
1,500,000   0.	нагкеу	11,309.54			11,221.00		-110.25 -110.25	-103.85 -103.85	990.59		769,046.67	32.09459289				0.00
170,000   170,		11,500.00	0.00	95.99	11,411.46	7,987.46	-110.25	-103.85	990.59	398,926.04	769,046.67	32.09459289	-103.59801227	0.00	0.00	0.00
## And the Regime   18,000   0.00   0.00   11,11											769,046.67					0.00
See   See   See   1,500   See   1,700   See   See   1,700   See		11,700.00									769,046.67					0.00
1,000,00   0.0	3Rd Bone Spring Sand										769,046.67					0.00
KOP-Bust Private   1,201.668																0.00
1,21,000 139 289.3 1291.16 829.16 1,000 100 100 100 100 100 100 100 100 1	MOD D THEOLOGIC															0.00
Materian   1,220.00   1,39	KOP, Build 10°/100ft															0.00
Waterlamp Plane   1,230,00   29,30   296,00   12,1998   8,7758   41,320   34,00   39,00   396,00   41,00   1		12,200.00	18.39		12,108.32	8,684.32		-74.58	990.40		769,046.48	32.09467335				0.00
Wilderger V Swaf	Wolfcamp															0.00
Marchann	Wolfcamp V Sand															0.00
Wildering P. L. 1, 246, 51		12,400.00			12,283.36	8,859.36	13.65	20.04	989.79	399,049.93	769,045.87	32.09493344	-103.59801213	10.00		0.00
Wildows LZ 1 2465 12 445 1 386 81 12,332.00 80 50 7 60 83 9 80 51 380,003 10 769,045 30 26,005 22,005 10 00	Wolfcamp Y Sand LZ				12,292.00		20.63	27.02		399,056.91	769,045.82		-103.59801212	10.00		0.00
Workshape No. 12,000 19 48,09 596,50 12,356,54 12,356,54 19,351,54 12,56 19,35					12,332.00	8,908.00		63.30		399,093.19	769,045.59			10.00		0.00
Worksome Upger At Shake   1,250,000   84,00   358,68   12,350,00   82,350	Wollcamp 2 LZ	12,500.00			12,355.94	8,931.94		88.65		399,118.54	769,045.43		-103.59801205	10.00		0.00
Bull 971000   12,700.00   63.39   39.68   12,400.22   9.030.22   25.173   28.112   98.25   39.25.00   76.094.33   20.5557877   10.05.98911187   10.00   10.0	Wolfcamp Upper A1 Shale	12,500.09			12,356.00						769,045.43					0.00
Bad 97/1000											769,044.91					0.00
1,2,600,00   76,70   396.8   1,2,489.25   9,068.25   347.33   38.37   897.84   398,383.96   78,043.72   32,0681000; -103,058001174   5.00	Build 5°/100ft										769,044.33	32.09576017				0.00
Landing Print 1,000,000 86.70 396.83 12,519.10 9.09.4 10 544.89 551.36 986.37 399.581.23 789.04.24 52 50063391 1-103.59901149 5.00 5.00 1.00 1.00 1.00 1.00 1.00 1.00		12,800.00	76.70		12,489.25						769,043.72	32.09585062		5.00		0.00
Landing Point   1,066 06   90.00   398.83   12,500.00   90.06.00   611.00   617.38   985.57   398.647.25   789.042.03   20,00867389   103.59801139   5.00   9.00   13,000   90.00   398.83   12,500.00   90.06.00   744.44   751.32   885.10   389.781.18   789.041.17   32,0084325   103.59801119   0.00   0.00   0.00   13,000   90.00   398.83   12,500.00   90.06.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   20,0078781   103.59801078   0.00   0.00   0.00   13,000   90.00   398.83   12,500.00   90.06.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   20,0078781   103.59801078   0.00   0.00   0.00   13,000   0.00   13,000   0.00   398.83   12,500.00   90.06.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008.00   1,044.94   1,651.31   883.18   400,081.17   789.032.00   2,008		12,900.00	81.70		12,507.99	9,083.99		451.91			769,043.08	32.09612054		5.00		0.00
13,100.00 90.00 358.63 12,520.00 9,066.00 644.94 651.32 985.73 396.831.19 780,041.81 22.0068088 103,396.0119 0.00 0.00 1336.03 12,520.00 9,066.00 74.44 75.21 884.04 396.8111 780,045.51 13,520.01 13,000.00 90.00 358.63 12,520.00 9,066.00 844.94 851.32 884.04 396.8111 780,045.95 22.00721452 103,5386109 0.00 0.00 13,000.00 13,0	Landing Point										769,042.45					0.00
13,300,00 90,00 396,83 12,520,00 9,096,00 944,94 951,32 984,85 399,881,19 760,045,04 02,0721842 105,58901105 0.00 0.00 13,685,00 12,5820,00 9,096,00 1,044,94 91,051,31 982,55 40,0181,16 7769,039,50 12,000 0.00 0.00 13,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,000 12,000 13,0			90.00	359.63	12,520.00	9,096.00		651.32	985.73	399,681.19			-103.59801134	0.00	0.00	0.00
13,400,00 90,00 3596.8 12,520,00 9,066.00 1,144.94 1,051.31 983.18 989.81 77 769.039.00 320748329 105.58901000 0.00 0.00 136.600 12,520.00 9,066.00 1,144.94 1,151.31 983.18 98.18 769.031.10 769.039.26 32.0008901076 0.00 0.00 13700.00 3596.8 12,520.00 9,066.00 1,144.94 1,151.31 981.19 769.038.00 320748329 105.58901076 0.00 0.00 13700.00 1396.8 12,520.00 9,066.00 1,144.94 1,151.31 981.19 769.038.00 13.00 12.50 13.00 13																0.00
13,500.00 90.00 3596.8 12,520.00 9,096.00 1,144.54 1,151.31 982.55 40,081.17 780,093.26 22,09778816 103,58901076 0.00 0.00 131,670.00 90.00 3596.8 12,520.00 9,096.00 1,244.94 1,251.31 982.55 40,081.16 780,037.99 32,0883179 103,58901047 0.00 0.00 134,000 90.00 3596.8 12,520.00 9,096.00 1,344.94 1,351.31 982.57 40,081.16 780,037.99 32,0883179 103,58901047 0.00 0.00 134,000 90.00 3596.8 12,520.00 9,096.00 1,544.94 1,251.31 981.27 40,081.15 780,037.99 32,0883179 103,5890102 0.00 0.00 14,000.00 14,000.00 14,000.00 3596.8 12,520.00 9,096.00 1,544.94 1,551.30 978.73 400,781.13 780,034.90 32,0883179 103,5890089 0.00 0.00 14,200.00 14,200.00 14,200.00 90.00 3596.8 12,520.00 9,096.00 1,744.94 1,751.30 978.73 400,781.13 780,034.90 32,0883179 103,5890089 0.00 0.00 14,200.00 90.00 3596.8 12,520.00 9,096.00 1,744.94 1,751.30 978.73 400,781.13 780,034.90 32,098673 103,5890089 0.00 0.00 14,400.00 90.00 3596.8 12,520.00 9,096.00 1,744.94 1,751.30 978.73 400,781.13 780,034.90 32,098673 103,5890099 0.00 0.00 14,400.00 90.00 3596.8 12,520.00 9,096.00 1,944.94 1,951.22 977.45 400,881.12 780,032.53 32,1002420 103,5890099 0.00 0.00 144.400.00 90.00 3596.8 12,520.00 9,096.00 1,944.94 1,951.22 977.45 400,881.12 780,032.8 12,520.00 9,096.00 1,944.94 1,951.22 977.45 400,881.12 780,032.5 32,1002420 103,5890099 0.00 0.00 144.400.00 90.00 3596.8 12,520.00 9,096.00 2,444.94 2,451.28 977.54 401,881.10 978,032.83 32,1002420 103,5890099 0.00 0.00 144.400.00 90.00 3596.8 12,520.00 9,096.00 2,444.94 2,451.28 977.54 401,881.10 978,032.83 32,1002420 103,5890099 0.00 0.00 1596.8 12,520.00 9,096.00 2,444.94 2,451.28 977.54 401,881.10 978,032.83 32,1002420 103,5890099 0.00 0.00 1596.8 12,520.00 9,096.00 3,966.00 2,444.94 2,451.28 977.59 401,881.00 978,032.83 32,1004420 103,5890099 0.00 0.00 1596.8 12,520.00 9,096.00 3,966.00 2,444.94 2,451.28 977.59 401,881.00 978,032.83 32,1004420 103,5890099 0.00 0.00 3596.8 12,520.00 9,096.00 3,966.00 2,444.94 2,451.28 977.59 401,881.00 978,032.83 32,1004420 103,5890099 0.00 0.00 3596.8 12,520.00 9,096.00 3,966.00																0.00
13,700,00 90,0 386,83 12,220,00 9,066,00 1,244,94 1,251,31 881,91 40,281,15 789,037,3 22,088577,013,58910147 0,00 0,00 1,344,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 40,081,15 789,036,71 32,289876,7103,5891018 0,00 0,00 1,444,94 1,451,30 80,04 1,449,10 1,449,1		13,500.00					1,044.94		983.18		769,039.26					0.00
13,800.00 90.0 386.83 12,820.00 9,066.00 1,344.94 1,361.30 980.04 400,481.15 769.03.73 32,08869277 103.58901032 0.00 0.00 144.00.00 90.00 396.63 12,820.00 9,066.00 1,544.94 1,551.30 980.00 400,581.14 769.03.60 32,0894252 103.5890103 0.00 0.00 144.00.00 90.00 396.63 12,820.00 9,066.00 1,544.94 1,551.30 973.84 400,881.13 769.03.63 32,0894252 103.5890103 0.00 0.00 144.00.00 90.00 386.83 12,820.00 9,066.00 1,744.94 1,751.30 973.76 400,771.12 778,034.00 32,0896226 103.5890078 0.00 0.00 144.00.00 90.00 386.83 12,820.00 9,066.00 1,744.94 1,751.20 973.76 400,781.12 778,034.00 32,0896226 103.5890078 0.00 0.00 144.00.00 90.00 386.83 12,820.00 9,066.00 2,44.94 2,051.29 976.81 401,081.11 769.03.28 32 2,100.7891.40 0.00 0.00 144.00.00 90.00 386.83 12,820.00 9,066.00 2,44.94 2,2651.29 976.81 401,081.11 769.03.28 32 2,100.0791.40 13.5890.00 16 0.00 0.00 144.00 0.00 90.00 386.83 12,820.00 9,066.00 2,44.94 2,2651.29 976.81 401,081.11 769.03.28 32 2,100.0791.40 13.5890.00 16 0.00 0.00 144.00 0.00 90.00 386.83 12,820.00 9,066.00 2,44.94 2,2651.29 976.81 401,081.11 769.03.28 32 2,100.0791.40 13.5890.00 16 0.00 0.00 144.00 0.00 390.01 389.63 12,820.00 9,066.00 2,44.94 2,2651.29 975.44 401,281.10 769.03.03 32 2,100.11 40.05 90.00 13.5890.00 18.																0.00
13,900.00 90.00 396.83 12,520.00 9,096.00 1,444.94 1,451.30 990.04 400,481.15 769,038.71 32,09886765 103,59801018 0.00 0.00 14,100.00 90.00 359.63 12,520.00 9,096.00 1,544.94 1,651.30 979.36 400,681.13 769,035.44 22,09841739 103,59800699 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 1,744.94 1,851.30 979.36 400,681.13 769,035.44 22,09841739 103,59800699 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 1,744.94 1,851.30 978.09 400,681.13 769,035.44 22,09841739 103,59800699 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 1,344.94 1,851.30 978.09 400,681.12 769,035.13 22,0986713 103,59800699 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 1,344.94 1,851.30 978.09 400,681.12 769,035.35 32,100560046 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,215.12 978.18 401,181.11 769,032.55 32,10056006 1.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,215.12 978.18 401,181.11 769,032.95 32,1007474 103,59800616 0.00 0.00 14,400.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.10 769,039.39 32,1013418 103,59800687 0.00 0.00 14,900.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.10 769,039.39 32,1013418 103,59800687 0.00 0.00 14,900.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.10 769,039.39 32,1013418 103,59800687 0.00 0.00 15,000.00 15,000.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.10 769,039.39 32,1013418 103,59800687 0.00 0.00 15,000.00 15,000.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.10 769,039.39 32,1013418 103,59800687 0.00 0.00 15,000.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.00 769,039.34 2,21014695 103,59800687 0.00 0.00 15,000.00 15,000.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.00 401,381.00 769,039.34 2,21014695 103,59800687 0.00 0.00 15,000.00 15,000.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 974.29 401,481.09 769,039.34 2,21014695 103,59800689 0.00 0.00 15,000.00 15,000.00 15,000.00 15,000.00 15,000.00 15,000.00 15,000.00 15,000.00 15,000.																0.00
14,100,00 90,00 356,63 12,520,00 9,066,00 1,744,94 1,651,30 978,78 400,681,13 769,035,43 22,9981739 103,59800999 0.00 0.00 14,300,00 90,00 356,63 12,520,00 9,066,00 1,744,94 1,851,30 978,79 400,881,12 769,034,61 32,0996228 103,59800974 0.00 0.00 1,000 14,400,00 90,00 356,63 12,520,00 9,066,00 1,344,94 1,851,29 977,45 40,081,12 769,034,61 32,0996271 3103,59800960 0.00 0.00 1,0		13,900.00			12,520.00		1,444.94	1,451.30	980.64	400,481.15	769,036.71			0.00		0.00
14,200,00 90,00 359,63 12,520,00 9,096,00 1,174,94 1,751 30 978,73 400,781 13 769,034,80 32,09660226 103,5890,0974 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 1,144,94 1,851 30 978,09 400,881 12 769,033,53 32,1002400 -103,5890,0945 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,051 29 976,81 401,881 11 769,032,28 32,10051687 103,5890,0916 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,251 29 975,54 401,881 11 769,032,28 32,10051687 103,5890,0916 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,251 28 974,83 401,881 11 769,032,28 32,10051687 103,5890,0916 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,251 28 974,83 401,881 10 769,032 12 32,10051687 103,5890,092 0.00 0.00 14,400,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,251 28 974,63 401,581 19 769,032 12 32,10169661 103,5890,0872 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,251 28 974,63 401,581 19 769,032 12 32,10169661 103,5890,0882 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,251 28 974,63 401,581 19 769,032 12 32,1016969 103,5890,0843 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,251 28 974,93 401,581 19 769,032 12 31,1016969 103,5890,0843 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,251 28 974,94 401,581 19 769,032 13 2,1016169 103,5890,0849 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,851 28 974,94 401,881 0.7 769,032 13 2,1016169 103,5890,0849 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,851 28 974,94 401,881 0.7 769,032 15 32,1024,9496 103,5890,0849 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,851 28 974,72 401,881 0.7 769,032 15 32,1024,9496 103,5890,0849 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,851 28 974,72 401,881 0.7 769,032 15 32,1024,9496 103,5890,0049 0.00 0.00 15,500,00 90,00 359,63 12,520 0.00 9,096,00 2,444,94 2,851 28 974,84 2,851 28 974,84 401,881 0.7 769,032 15 32,1024,9496 103,5890,0049 0.00 0.00 15,500,00		14,000.00			12,520.00	9,096.00	1,544.94	1,551.30	980.00	400,581.14	769,036.08	32.09914252	-103.59801003	0.00	0.00	0.00
14,300,00 90.00 359.63 12,520.00 9,096.00 1,344.94 1,851.30 978.09 400,881.12 769,034.17 32,0996713 -103,58900960 0,00 0,00 14,600,00 90.00 359.63 12,520.00 9,096.00 1,44.94 2,051.29 976.81 401,081.11 769,032.28 32,1004.00 1,005,8890.094 1,00 0,00 0,00 1,00 0,00 0,00 0,00 0,0		14,100.00			12,520.00		1,644.94	1,651.30	979.36	400,681.13	769,035.44					0.00
14,400,00 90,00 359,63 12,520,00 9,996,00 1,944,94 1,951,29 976,18 40,081,12 789,033,53 32,10024200 103,589,096,10 0,00 0,00 14,600,00 90,00 359,63 12,520,00 9,096,00 2,144,94 2,051,29 976,18 40,1081,11 789,032,55 32,10079174 103,589,0096 0,00 0,00 14,600,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,251,29 975,54 401,281,10 789,032,55 32,10079174 103,589,0096 0,00 0,00 14,800,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,451,28 974,27 401,481,09 789,003 32,1013,444 103,589,00872 0,00 0,00 15,000,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,451,28 974,27 401,481,09 789,003 32,1013,444 103,589,00872 0,00 0,00 15,000,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,651,28 972,35 401,781,07 789,027,3 32,1027883 103,589,0083 0,00 0,00 15,000,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,651,28 972,35 401,781,07 789,027,3 32,1027883 103,589,0083 0,00 0,00 15,200,00 90,00 359,63 12,520,00 9,096,00 2,44,94 2,651,28 972,35 401,781,07 789,027,3 32,1027883 103,589,0083 0,00 0,00 15,200,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,851,28 971,28 401,881,09 789,023,3 32,1024,096 103,589,0083 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,851,28 971,72 401,881,07 789,027,3 32,1027883 103,589,0083 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 2,444,94 2,851,28 971,72 401,881,07 789,027,3 32,1027883 103,589,0084 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 3,44,94 3,051,27 970,44 402,081,06 789,025,25 32,103,881,01 103,589,0075 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 3,44,94 3,051,27 970,44 402,081,06 789,025,3 32,104,0981 103,589,0077 103,589,0076 0,00 0,00 15,600,00 3,44,94 3,451,27 980,17 402,281,05 479,024,11 103,589,0076 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 3,44,94 3,351,27 868,17 402,281,05 479,024,11 103,589,0076 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 3,44,94 3,351,27 868,17 402,281,05 479,024,11 103,589,0076 0,00 0,00 15,600,00 90,00 359,63 12,520,00 9,096,00 3,44,94 3,351,27 868,17 402,281,05 479,024,11 103,589,0077 103,589,0077 0,00 0,00 15,600,00 15,600,		14,300.00			12,520.00		1,844.94	1,851.30	978.09	400,781.13	769,034.80	32.09996713				0.00
14,000.00 90.00 359,83 12,520.00 9,096.00 2,144.94 2,151.29 976.18 401,181.11 769,032.25 32.10079174 103.59800916 0.00 0.00 14,800.00 90.00 359,83 12,520.00 9,096.00 2,344.94 2,351.29 974.90 401,381.10 769,030.18 32.1016861 103.59800987 0.00 0.00 14,800.00 90.00 359,83 12,520.00 9,096.00 2,344.94 2,351.29 974.90 401,381.10 769,030.93 32.10164184 103.5980087 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,544.94 2,551.28 973.83 401,581.09 769,029.13 32.10168183 103.5980087 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,744.94 2,551.28 972.99 401,861.08 769,029.77 32.10168193 103.59800858 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,744.94 2,751.28 972.35 401,781.07 769,028.43 32.10244096 103.59800849 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,744.94 2,751.28 972.35 401,781.07 769,028.43 32.10244096 103.59800849 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,944.94 2,951.27 971.08 401,981.06 769,027.79 32.1021893 103.59800849 0.00 0.00 15,000.00 90.00 359,83 12,520.00 9,096.00 2,944.94 2,951.27 971.08 401,981.06 769,027.79 32.1021893 103.59800084 0.00 0.00 15,500.00 90.00 359,83 12,520.00 9,096.00 3,444.94 3,351.27 999.17 402.80 16 769,025.23 32.10354044 103.59800787 0.00 0.00 15,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.23 32.10354044 103.59800787 0.00 0.00 15,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.23 32.10354044 103.59800787 0.00 0.00 15,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.25 32.10354044 103.59800787 0.00 0.00 15,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.25 32.10354034 103.59800787 0.00 0.00 16,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.25 32.10469918 103.59800787 0.00 0.00 16,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80 16 769,025.25 32.10469918 103.59800787 0.00 0.00 16,500.00 90.00 359,83 12,520.00 9,096.00 3,344.94 3,351.27 999.17 402.80		14,400.00	90.00	359.63	12,520.00	9,096.00	1,944.94	1,951.29	977.45	400,981.12	769,033.53	32.10024200	-103.59800945	0.00	0.00	0.00
14,700.00 90.00 359.63 12,520.00 9,096.00 2,244.94 2,251.29 975.54 401,281.10 769,031.62 32,10164661 103,59900992 0.00 0.00 14,900.00 90.00 359.63 12,520.00 9,096.00 2,444.94 2,451.28 974.97 401,481.09 769,030.34 32,10161625 103,59900872 0.00 0.00 15,100.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 973.63 401,581.09 769,020.71 32,10181423 103,59900873 0.00 0.00 15,100.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 972.99 401,681.08 769,029.07 32,10181029 103,59900683 0.00 0.00 15,300.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 972.99 401,681.08 769,029.07 32,10246096 103,59900603 0.00 0.00 15,300.00 90.00 359.63 12,520.00 9,096.00 2,844.94 2,851.28 971.72 401,881.07 769,027.79 32,10244096 103,59900061 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 2,844.94 2,851.28 971.72 401,881.07 769,027.79 32,10247696 103,59900061 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 971.08 401,981.06 769,027.63 22,10245096 103,59900075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 970.44 402,081.06 769,025.65 32,10356567 103,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 990.17 402,281.06 769,025.65 32,103540547 103,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 999.17 402,281.05 769,025.65 32,103540547 103,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.17 402,281.05 769,025.25 32,103540547 103,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.17 402,281.05 769,025.25 32,103540547 103,59900075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.25 995.75 402,281.00 769,025.05 32,1049078 113,05,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,451.25 995.39 402,281.00 769,025.05 32,1049078 103,5990075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,451.25 995.39 402,281.00 769,025.05 32,1049078 113,05,5990075 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 4,451.25 99																0.00
14,800.00 90.00 359.63 12,520.00 9,096.00 2,344.94 2,351.29 974.00 401,381.10 769,030.98 32,10134148 103,59900872 0.00 0.00 15,000.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 973.63 401,581.09 769,029.71 32,10181693 103,59900878 0.00 0.00 15,200.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 973.63 401,581.09 769,029.71 32,10181692 103,59900868 0.00 0.00 15,200.00 90.00 359.63 12,520.00 9,096.00 2,744.94 2,751.28 972.93 401,781.07 769,028.43 32,1024609 103,59900829 0.00 0.00 15,200.00 90.00 359.63 12,520.00 9,096.00 2,744.94 2,751.28 972.93 401,781.07 769,028.43 32,1024609 103,59900829 0.00 0.00 15,400.00 90.00 359.63 12,520.00 9,096.00 2,944.94 2,551.28 971.72 401,981.07 769,027.79 132,1021690 103,5990080 0.00 0.00 15,400.00 90.00 359.63 12,520.00 9,096.00 2,944.94 2,251.27 971.08 401,981.06 769,027.16 32,10295907 103,5990080 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 996.81 402,181.05 769,025.88 32,10334044 103,59900771 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,144.94 3,151.27 969.81 402,181.05 769,025.88 32,10334044 103,59900771 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 969.81 402,281.05 769,025.88 32,10334044 103,59900771 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 969.81 402,281.05 769,025.88 32,10334044 103,59900771 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 986.81 402,281.05 769,025.88 32,10334044 103,59900771 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.26 967.20 402,281.05 769,025.89 32,10381591 103,59900772 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.26 967.50 402,281.03 769,022.07 32,10491679 103,59900797 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.26 967.50 402,281.03 769,022.07 32,10491679 103,59900797 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,351.26 967.50 402,281.00 769,022.07 32,104916779 103,59900069 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,351.25 962.5		14,700.00											-103.59800916			0.00
14,900.00 90.00 359.63 12,520.00 9,096.00 2,444.94 2,451.28 974.27 401,481.99 769,023.43 32,10161922 10.05 98006072 0.00 0.00 15,100.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 973.63 401,581.09 769,023.71 32,10161922 10.03,59800683 0.00 0.00 15,200.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 972.99 401,681.08 769,022.07 32,10216690 103,59800643 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 2,544.94 2,551.28 972.95 401,681.08 769,022.07 32,10216609 103,59800608 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 2,844.94 2,851.28 971.72 401,881.07 769,027.79 32,10271638 103,59800614 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 971.08 401,981.06 769,025.65 32,10289070 10.03,5980060 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,151.27 990.44 402,081.06 769,025.65 32,10354044 103,5980075 0.00 0.00 15,700.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 990.14 402,281.05 769,025.65 32,10354054 103,5980075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 999.11 402,281.05 769,025.65 32,10354054 103,5980075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.81 402,281.05 769,025.65 32,10345153 103,5980075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.17 402,281.05 769,025.25 32,10345044 103,5980075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.25 995.35 402,881.02 769,024.03 32,1044998 1.03,5980075 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.25 995.35 402,881.02 769,022.10 32,10449147 103,59800676 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.25 995.35 402,881.02 769,022.10 32,10449147 103,59800669 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,551.25 995.35 402,881.02 769,022.10 32,10449147 103,59800669 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,444.94 4,451.25 995.35 402,881.02 769,021.15 32,10469916 103,59800669 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.25 995		14,800.00	90.00	359.63	12,520.00	9,096.00	2,344.94	2,351.29	974.90	401,381.10	769,030.98	32.10134148	-103.59800887	0.00	0.00	0.00
15,100.00 90.00 359.63 12,520.00 9,096.00 2,644.94 2,651.28 972.99 401,681.08 769,029.07 32,10216609 103,59900043 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 2,844.94 2,851.28 971.72 401,881.07 769,027.79 32,10217683 103,59900064 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 971.08 401,881.07 769,027.79 32,10217683 103,59900065 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,051.27 970.44 402,081.06 769,026.52 32,1028567 103,59900765 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 999.81 402,281.05 769,025.25 32,10354044 103,5990076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 999.81 402,281.05 769,025.25 32,10385404 103,5990076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.27 999.81 402,281.05 769,025.25 32,10385404 103,5990076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.87 402,281.05 769,025.25 32,10385405 103,5990076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 999.87 402,281.05 769,025.25 32,10385404 103,5990076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.25 997.30 402,481.04 769,023.97 32,1044908 130,5990077 0.00 0.00 16,000 0.00 0.00 0.00 0.00 0.00 0.00 0.00		14,900.00			12,520.00	9,096.00			974.27	401,481.09	769,030.34			0.00		0.00
15,200.00 90.00 359.63 12,520.00 9,096.00 2,744.94 2,751.28 972.35 401,781.07 769,028.43 32,10244096 103,59800829 0.00 0.00 15,400.00 90.00 359.63 12,520.00 9,096.00 2,944.94 2,851.27 971.08 401,981.06 769,027.16 32,10295907 103,59800800 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,44.94 3,551.27 971.08 401,981.05 769,025.28 32,10385537 103,59800810 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,44.94 3,151.27 999.81 402,181.05 769,025.88 32,10385404 103,5980071 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,44.94 3,251.27 999.81 402,281.05 769,025.28 32,10385531 103,5980076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 968.53 402,381.04 769,025.48 32,10381531 103,5980076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 968.53 402,381.04 769,025.48 32,10381531 103,5980076 0.00 0.00 15,500.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.27 968.53 402,381.04 769,025.48 32,10494507 3103,5980077 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,351.26 967.20 402,581.03 769,023.34 32,104,959.07 103,5980077 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,544.94 3,351.26 967.20 402,581.03 769,023.34 32,104,599.02 103,5980071 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,096.00 3,744.94 3,551.26 967.20 402,581.03 769,023.34 32,104,599.02 103,5980071 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,744.94 3,551.26 965.38 402,781.02 769,022.70 32,104,9459 103,5980076 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,944.94 3,3651.26 965.38 402,781.02 769,022.70 32,104,9459 103,5980076 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,944.94 4,3651.25 965.38 402,781.02 769,022.70 32,104,9443 103,5980069 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 965.34 403,580.09 769,015.03 32,106,9443 31,05,990.00 10,00 0.00 16,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0																0.00
15,400.00 90.00 359.63 12,520.00 9,066.00 2,944.94 2,951.27 971.08 401,981.06 769,027.16 32,10296970 103,5980080 0.00 0.00 15,600.00 90.00 359.63 12,520.00 9,066.00 3,144.94 3,151.27 969.81 402,181.05 769,025.28 32,1038.553 103,59800751 0.00 0.00 15,600.00 90.00 359.63 12,520.00 9,066.00 3,244.94 3,251.27 969.81 402,281.05 769,025.88 32,1038.6404 103,5980076 0.00 0.00 15,600.00 90.00 359.63 12,520.00 9,066.00 3,244.94 3,251.27 969.81 402,281.05 769,025.88 32,1038.6404 103,5980076 0.00 0.00 15,600.00 90.00 359.63 12,520.00 9,066.00 3,444.94 3,351.27 968.53 402,381.04 769,024.81 32,1048.6505 103,59800742 0.00 0.00 15,600.00 90.00 359.63 12,520.00 9,086.00 3,444.94 3,451.26 967.26 402,581.03 769,025.27 32,1048.595 21,035.8900713 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,444.94 3,451.26 967.26 402,581.03 769,022.37 32,1048.595 21,035.8900713 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,444.94 3,551.26 967.26 402,581.03 769,022.70 32,1048.595 21,035.8900713 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,444.94 3,551.26 966.62 402,681.03 769,022.70 32,1048.91479 -103,5890.0688 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,844.94 3,551.26 965.58 402,681.03 769,022.70 32,1048.91479 -103,5890.0689 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,844.94 3,851.26 965.58 402,881.02 768,022.70 32,1048.91479 -103,5890.0689 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 3,844.94 3,851.25 965.35 402,881.02 768,022.70 32,1048.91479 -103,5890.0689 0.00 0.00 16,000.00 90.00 359.63 12,520.00 9,086.00 4,044.94 4,051.25 964.71 40,051.25 960.00 176,000.00 176,000.00 3596.35 12,520.00 9,086.00 4,044.94 4,051.25 962.80 403,280.99 768,018.88 32,1065.6401 103,5890.00562 0.00 0.00 16,000.00 90.00 3596.35 12,520.00 9,086.00 4,444.94 4,451.24 961.52 962.80 403,280.99 768,018.88 32,1065.6401 103,5890.00562 0.00 0.00 16,000.00 90.00 3596.35 12,520.00 9,086.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,107.197.177.177.103,5890.00562 0.00 0.00 177,000.00 90.00 3596.35 12,520.00 9,086.00 4,444																0.00
15,500.00 90.00 359.63 12,520.00 9,096.00 3,044.94 3,051.27 970.44 402,081.06 769,026.52 32,103,25657 103,59800785 0.00 0.00 15,700.00 90.00 359.63 12,520.00 9,096.00 3,244.94 3,251.27 999.81 402,281.05 769,025.25 32,103,85461 103,59800776 0.00 0.00 15,800.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,251.25 999.81 402,281.04 769,025.25 32,103,85461 103,59800772 0.00 0.00 15,800.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,451.26 997.30 402,481.04 769,023.97 32,104,9608 130,359800747 0.00 0.00 16,000 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,444.94 3,451.26 997.30 402,481.04 769,023.97 32,104,9608 130,359800747 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,444.94 3,851.26 996.26 402,881.03 769,022.70 32,104,94149 103,59800698 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,444.94 3,851.26 996.58 402,881.03 769,022.70 32,104,94149 103,59800698 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,844.94 3,851.26 996.58 402,881.03 769,022.70 32,104,94149 103,59800698 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,844.94 3,851.26 996.58 402,881.02 769,022.04 32,104,5999 21,003,59800698 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,944.94 3,851.26 996.58 402,881.02 769,022.04 32,104,5999 21,003,59800699 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 3,944.94 3,851.26 996.58 402,881.02 769,022.04 32,105,9394 01,03,59800699 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,044.94 40,51.25 996.07 403,081.00 769,022.05 32,106,94147 103,59800699 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,044.94 40,51.25 996.37 403,081.00 769,022.05 32,106,94147 103,59800695 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,444.94 4,251.25 992.80 403,809.99 769,018.88 32,106,8640 103,59800582 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 991.52 992.80 403,809.99 769,018.88 32,106,8640 103,59800582 0.00 0.00 16,000 0.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 991.52 403,809.99 769,018.88 32,106,8640 103,59800582 0.00 0.00 17,000.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 991.52 403,809.99 7										401,881.07						0.00
15,600,00 90,00 359,63 12,520,00 9,066,00 3,144,94 3,151,27 99,81 402,181,05 769,025,88 32,103,8154,1103,5980,075 0,00 0,00 15,800,00 90,00 359,63 12,520,00 9,066,00 3,244,94 3,251,27 96,853 402,381,04 769,024,61 32,104,8150,1103,5980,076 0,00 0,00 15,900,00 9,00 359,63 12,520,00 9,066,00 3,444,94 3,451,26 96,75 402,811,03 769,025,03 3,21,048,505,1103,5980,0773 0,00 0,00 16,000,00 9,00 359,63 12,520,00 9,066,00 3,444,94 3,551,26 96,62 402,581,03 769,023,34 32,104,8269,1103,5980,0713 0,00 0,00 16,000,00 9,00 359,63 12,520,00 9,066,00 3,744,94 3,551,26 96,62 402,681,03 769,023,34 32,104,6439,02 103,5980,0713 0,00 0,00 16,200,00 9,00 359,63 12,520,00 9,086,00 3,744,94 3,551,26 96,62 402,681,03 769,023,04 32,104,6479,103,5980,0683 0,00 0,00 16,200,00 9,00 359,63 12,520,00 9,086,00 3,844,94 3,851,26 965,38 402,781,02 769,022,07 32,104,6479,103,5980,0683 0,00 0,00 16,200,00 9,00 359,63 12,520,00 9,086,00 3,844,94 3,851,26 965,38 402,781,02 769,022,07 32,105,199,60 103,5980,0683 0,00 0,00 16,500,00 9,00 359,63 12,520,00 9,086,00 3,844,94 4,3651,25 964,07 403,081,00 769,022,07 32,105,199,60 103,5980,068 0,00 0,00 16,500,00 9,00 359,63 12,520,00 9,086,00 4,044,94 4,051,25 964,07 403,081,00 768,025,15 32,106,1427 103,5980,064 0,00 0,00 16,500,00 9,00 359,63 12,520,00 9,086,00 4,044,94 4,051,25 962,80 403,280,99 768,018,88 32,106,284,111,35,980,005 0,00 0,00 16,500,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,25 962,80 403,809,97 768,018,88 32,106,840 11,03,5980,055 0,00 0,00 16,500,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,25 962,80 403,809,97 768,018,88 32,106,840 11,03,5980,055 0,00 0,00 17,100,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,24 961,52 403,809,97 768,016,33 32,106,334 103,5980,055 0,00 0,00 17,100,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,24 961,52 403,809,97 768,016,33 32,106,334 103,5980,055 0,00 0,00 17,100,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,24 961,52 403,809,97 768,016,33 32,106,334 103,5980,055 0,00 0,00 17,100,00 9,00 359,63 12,520,00 9,086,00 4,44,94 4,451,24 961,52 40																0.00
15,700.00 90.00 359.63 12,520.00 9,096.00 3,244.94 3,251.27 989.17 402,281.05 769,025.25 32,10381531 103,59800765 0.00 0.00 15,800.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,451.25 987.50 402,481.04 769,023.97 32,10490781 310,359800727 0.00 0.00 16,100.00 90.00 359.63 12,520.00 9,096.00 3,544.94 3,551.25 987.26 402,881.03 769,022.70 32,10490781 310,359800727 0.00 0.00 16,100.00 90.00 359.63 12,520.00 9,096.00 3,644.94 3,851.25 996.26 402,881.03 769,022.70 32,10491479 103,59800698 0.00 0.00 18,300.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,851.25 996.59 402,881.02 769,022.05 32,1045992 21,045.998 21,035,59800787 0.00 0.00 18,300.00 90.00 359.63 12,520.00 9,096.00 3,844.94 3,851.25 996.59 402,881.02 769,022.05 32,1045992 21,035,59800698 0.00 0.00 18,300.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,851.25 996.59 402,881.02 769,022.05 32,1051996 103,59800669 0.00 0.00 18,500.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,851.25 996.57 402,881.02 769,022.05 32,1051996 103,59800669 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 996.47 403,081.00 769,022.05 32,10619472 103,59800640 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 996.07 403,081.00 769,022.05 32,10629941 41,03,59800652 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,251.25 992.00 403,280.99 769,018.88 32,10656401 103,59800669 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,44.94 4,251.25 992.30 403,809.99 769,018.88 32,10656401 103,59800661 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,44.49 4,451.24 991.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,44.49 4,451.24 991.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,44.49 4,451.24 991.52 403,480.98 769,017.60 32,1071375 103,59800565 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,44.49 4,451.24 991.52 403,809.98 769,017.60 32,1071375 103,59800565 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,44.49																0.00
15,000.00 90.00 359.63 12,520.00 9,096.00 3,444.94 3,451.26 967.26 402,681.03 769,023.97 32,1045992 103,58900727 0.00 0.00 16,100.00 90.00 359.63 12,520.00 9,096.00 3,644.94 3,551.26 96.62 402,681.03 769,022.70 32,1045992 103,58900698 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,096.00 3,744.94 3,751.26 96.59 402,781.02 769,022.06 32,1045992 103,58900698 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,096.00 3,844.94 3,851.26 96.59 402,781.02 769,022.06 32,1045992 103,58900698 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,096.00 3,844.94 3,851.26 96.59 402,881.02 769,022.04 32,1051896 103,58900696 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.71 402,981.01 769,022.07 32,10491427 103,5890064 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.07 403,081.00 769,022.01 52,10628914 103,5890064 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.07 403,081.00 769,022.01 52,10628914 103,58900665 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.80 403,280.99 769,018.88 32,10658641 103,58900661 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,251.25 962.80 403,280.99 769,018.88 32,10658641 103,589000651 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,58900562 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,58900562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,58900562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 400,580.98 769,015.63 32,1071375 103,58900565 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 400,580.98 769,015.63 32,1071375 103,58900565 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 400,580.98 769,015.63 32,10716363 32,10716564 103,58900565 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,45		15,700.00	90.00	359.63	12,520.00	9,096.00	3,244.94	3,251.27	969.17	402,281.05	769,025.25	32.10381531	-103.59800756	0.00	0.00	0.00
16,000.00 90.00 359.63 12,520.00 9,066.00 3,544.94 3,551.26 967.26 402,581.03 769,022.34 32,10463992 103,59800713 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,066.00 3,744.94 3,751.26 96.62 402,581.02 769,022.07 32,10461479 103,59800683 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,066.00 3,844.94 3,851.26 965.98 402,781.02 769,022.05 32,10518966 103,59800683 0.00 0.00 16,400.00 90.00 359.63 12,520.00 9,066.00 3,844.94 3,851.26 965.35 402,881.02 769,022.05 32,10518966 103,59800684 0.00 0.00 16,400.00 90.00 359.63 12,520.00 9,066.00 3,944.94 3,951.25 964.71 402,981.01 769,020.79 32,10573940 103,59800684 0.00 0.00 16,400.00 90.00 359.63 12,520.00 9,066.00 4,044.94 4,051.25 964.07 403,081.00 769,020.15 32,1061427 103,59800684 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,066.00 4,044.94 4,051.25 962.80 403,280.99 769,018.88 32,10656401 103,59800611 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,066.00 4,244.94 4,251.25 962.80 403,280.99 768,018.88 32,10656401 103,59800611 0.00 0.00 16,800.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800652 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,680.98 769,015.63 32,1078369 103,59800552 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 960.25 403,680.98 769,015.63 32,1078369 103,59800552 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 960.25 403,680.98 769,015.05 32,1071375 103,598005652 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 960.25 403,680.98 769,015.05 32,1078369 103,59800552 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 960.25 403,																0.00
16,100.00 90.00 359.63 12,520.00 9,096.00 3,644.94 3,651.26 966.82 402,681.03 769,022.70 32,10491479 103,59800698 0.00 0.00 16,200.00 90.00 359.63 12,520.00 9,096.00 3,744.94 3,751.26 965.58 402,781.02 769,022.06 32,10518966 1303,59800698 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,851.25 965.58 402,881.02 769,022.14 32,10518966 1303,59800696 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.71 402,981.01 769,022.79 32,10573940 1303,5980064 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.07 403,081.00 769,022.15 32,10628914 1303,5980064 0.00 0.00 16,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,251.25 962.80 403,280.99 769,018.88 32,10658641 103,59800655 0.00 0.00 16,500.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,251.25 962.80 403,280.99 769,018.88 32,10658641 103,59800661 0.00 0.00 16,800.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,480.98 769,017.60 32,1071375 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 960.59 403,880.98 769,017.60 32,1071375 103,59800565 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 960.59 403,880.98 769,015.63 32,10786386 103,59800552 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 960.55 403,880.98 769,015.63 32,10786386 103,59800552 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 960.55 403,880.98 769,015.05 32,1078386 103,59800552 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 960.55 403,880.98 769,015.05 32,1078386 103,59800552 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.																0.00
16,200.00 90.00 359.63 12,520.00 9,066.00 3,744.94 3,751.26 965.98 402,781.02 769,022.06 32,10516966 103,598006683 0.00 0.00 16,400.00 90.00 359.63 12,520.00 9,066.00 3,844.94 3,851.26 965.35 402,881.02 769,021.05 22,10546463 103,598006684 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,051.25 964.07 403,081.00 769,021.05 32,1061427 103,59800664 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,144.94 4,151.25 962.80 403,181.00 769,021.05 32,1061427 103,59800665 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,244.94 4,251.25 962.80 403,209.39 769,018.80 32,1065420 110,59800625 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,244.94 4,251.25 962.80 403,209.39 769,018.80 32,10654601 103,59800655 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,244.94 4,251.25 962.80 403,209.39 769,018.80 32,10654601 103,59800655 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,066.00 4,344.94 4,451.24 961.52 403,409.38 769,017.50 32,1071375 103,59800562 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,409.38 769,017.50 32,1071375 103,59800562 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,409.38 769,017.50 32,1071375 103,59800562 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,451.24 961.52 403,609.37 769,016.33 32,1078663 103,59800562 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,651.24 960.25 403,609.37 769,016.33 32,1078663 103,59800565 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,444.94 4,651.24 960.25 403,609.37 769,016.33 32,1078663 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,844.94 4,851.24 960.25 403,609.37 769,016.33 32,1078636 103,59800563 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,844.94 4,851.24 960.25 403,609.37 769,016.33 32,1078636 103,59800562 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,844.94 4,851.24 969.25 403,609.37 769,016.33 32,1078636 103,59800565 0.00 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,066.00 4,844.94 4,851.24 969.85		16,100.00	90.00	359.63	12,520.00	9,096.00	3,644.94	3,651.26	966.62	402,681.03	769,022.70	32.10491479	-103.59800698	0.00	0.00	0.00
16,400.00 90.00 359.63 12,520.00 9,096.00 3,944.94 3,951.25 964.71 402,981.01 769,020.79 32,10573940 103,59800664 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,151.25 964.07 403,081.00 769,021.65 32,10661427 103,59800665 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 963.44 403,181.00 769,019.51 32,10628914 103,59800625 0.00 0.00 16,800.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.16 403,380.99 769,018.24 32,10668491 103,59800566 0.00 0.00 16,800.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.16 403,380.99 769,018.24 32,10668388 103,59800566 0.00 0.00 16,800.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.16 403,380.99 769,018.24 32,1068388 103,59800566 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.16 403,380.99 769,018.24 32,1068388 103,59800566 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 960.25 403,800.97 769,016.33 32,1078663 173,59800565 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 960.25 403,680.97 769,016.33 32,1078663 103,59800552 0.00 0.00 17,300.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 960.25 403,680.97 769,016.33 32,1078639 103,59800552 0.00 0.00 17,300.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 960.25 403,680.97 769,015.05 32,1078386 20,30 9,096.00 4,844.94 4,851.24 959.81 403,780.97 769,015.05 32,1078386 20,30 9,096.00 4,844.94 4,851.24 959.81 403,880.96 769,015.05 32,1078386 20,30 9,096.00 4,844.94 4,851.24 958.84 403,880.96 769,015.05 32,1078336 20,30 9,096.00 4,844.94 4,851.24 958.84 403,880.96 769,015.05 32,1078336 20,30 9,096.00 4,844.94 4,851.24 958.84 403,880.96 769,015.05 32,1082323 21,086800523 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		16,200.00			12,520.00		3,744.94			402,781.02		32.10518966				0.00
16,500.00 90.00 359.63 12,520.00 9,096.00 4,044.94 4,051.25 964.07 403,081.00 769.020.15 32.106/1427 103.59800640 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,096.00 4,144.94 4,151.25 962.84 403,280.99 769,018.24 32.10665401 1.03.59800625 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,096.00 4,244.94 4,251.25 962.16 403,280.99 769,018.24 32.10665401 1.03.59800696 0.00 0.00 16,600.00 90.00 359.63 12,520.00 9,096.00 4,344.94 4,351.25 962.16 403,280.99 769,018.24 32.10665808 103.59800596 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,344.94 4,451.24 961.52 403,480.98 769,016.98 32.10718735 103.59800567 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,551.24 960.89 403,580.98 769,016.98 32.107183862 103.59800567 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,551.24 960.89 403,580.98 769,016.98 32.107183862 103.59800567 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,744.94 4,751.24 960.89 403,580.98 769,016.98 32.10783862 103.59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,744.94 4,751.24 969.81 403,780.97 769,016.59 32.1078349 103.59800558 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,744.94 4,751.24 969.81 403,780.97 769,015.05 32.1078349 103.59800558 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,016.95 32.1078369 103.59800558 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,015.05 32.1078336 103.59800553 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,015.05 32.1021323 103.598005053 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,015.05 32.1021323 103.598005053 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,015.05 32.1021323 103.598005053 0.00 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 969.89 403,80.98 769,015.05 32.1021323 103.598005050 0.00 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.2		16,300.00			12,520.00		3,844.94			402,881.02		32.10546453				0.00
16,670,0.0 9,0.0 359,63 12,520,0.0 9,086,0.0 4,144,94 4,151,25 98.3,44 403,181,0.0 760,119,51 32,10628914 103,598006625 0,0.0 0,0.0 16,670,0.0 9,0.0 359,63 12,520,0.0 9,086,0.0 4,244,94 4,251,25 982,16 403,380,39 768,018,24 32,10685401 103,59800516 0,0.0 0,0.0 16,680,0.0 90,0.0 359,63 12,520,0.0 9,086,0.0 4,244,94 4,251,25 982,16 403,380,39 768,018,24 32,10685401 103,59800566 0,0.0 0,0.0 16,680,0.0 90,0.0 359,63 12,520,0.0 9,086,0.0 4,244,94 4,251,25 962,16 403,380,39 768,017,20 32,107,1737 103,59800567 0,0.0 0,0.0 17,100,0.0 90,0.0 359,63 12,520,0.0 9,086,0.0 4,244,94 4,251,24 961,52 403,80,39 768,017,20 32,107,1838 21,073882 103,59800567 0,0.0 0,0.0 17,100,0.0 90,0.0 359,63 12,520,0.0 9,086,0.0 4,644,94 4,651,24 960,25 403,80,39 768,016,33 32,1078683 103,59800552 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 980,25 403,80,39 768,016,35 32,1078683 103,59800552 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 958,98 403,80,96 769,015,05 32,1021323 103,59800523 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 958,98 403,80,96 769,015,05 32,1021323 103,59800523 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 958,98 403,80,96 769,015,05 32,1021323 103,59800523 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 958,98 403,80,96 769,015,05 32,1021323 103,59800562 0,0.0 0,0.0 17,200,0.0 90,00 359,63 12,520,0.0 9,086,0.0 4,844,94 4,851,24 958,98 403,80,96 769,015,05 32,1021323 103,59800562 0,0.0 0,0.0 17,200,0.0 1											769,020.79					0.00
16,800.00 90.00 359.63 12,520.00 9,096.00 4,344.94 4,351.25 962.16 403,380.99 769,018.24 32.1088388 103,59800596 0.00 0.00 16,6900.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,80.98 769,016.96 32,1071375 103,59800567 0.00 0.00 17,000.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,551.24 960.89 403,580.98 769,016.96 32,10713862 103,59800567 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,096.00 4,644.94 4,651.24 960.89 403,580.98 769,016.98 32,10738862 103,59800567 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,644.94 4,651.24 959.61 403,680.97 769,016.98 32,10738862 103,59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 959.81 403,880.96 769,016.50 32,1078383 103,59800533 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,10821323 103,59800523 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,10821323 103,59800562 0.00 0.00 100 100 100 100 100 100 100 1		16,600.00	90.00	359.63	12,520.00	9,096.00	4,144.94	4,151.25	963.44	403,181.00	769,019.51	32.10628914	-103.59800625	0.00	0.00	0.00
16,900.00 90.00 359.63 12,520.00 9,096.00 4,444.94 4,451.24 961.52 403,460.98 769,017.60 32,1071.1375 103,598005612 0.00 0.00 17,100.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,551.24 960.25 403,680.97 769,016.30 32,1073862 103,59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,651.24 960.25 403,680.97 769,016.30 32,1073663 403,59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,651.24 960.25 403,680.97 769,016.30 32,1076363 4103,59800553 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,1082.1323 103,59800523 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,1082.1323 103,59800523 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,1082.1323 103,59800562 0.00 0.00 100 100 100 100 100 100 100 1		16,700.00									769,018.88				0.00	0.00
17,000.00 90.00 359.63 12,520.00 9,096.00 4,544.94 4,551.24 960.89 405,860.98 769,016.98 32.107868862 103.59800567 0.00 0.00 17,700.00 90.00 359.63 12,520.00 9,096.00 4,644.94 4,651.24 969.81 403,780.97 769,016.33 32.10786349 -103.59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,744.94 4,751.24 959.61 403,780.97 769,016.35 32.10786349 -103.59800538 0.00 0.00 17,300.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 959.81 403,780.95 769,016.55 32.10278323 -103.59800523 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 959.81 403,800.96 769,016.55 32.102782123 -103.59800523 0.00 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,944.94 4,851.24 959.81 403,800.96 769,016.25 32.10281232 -103.5980050523 0.00 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,944.94 4,951.23 958.34 403,800.96 769,016.25 32.10281232 -103.598005053 0.00 0.00 0.00 0.00 0.00 0.00 0.0		16,800.00			12,520.00		4,344.94 4.444.94	4,351.25 4.451.24		403,380.99 403,480.98	769,018.24 769,017,60					0.00
17,100.00 90.00 359.63 12,520.00 9,096.00 4,644.94 4,651.24 960.25 403,680.97 769,016.33 32,10766349 103,59800552 0.00 0.00 17,200.00 90.00 359.63 12,520.00 9,096.00 4,744.94 4,751.24 959.61 403,780.97 769,015.09 22,10793369 103,59800533 0.00 0.00 17,300.00 90.00 359.63 12,520.00 9,096.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,10821323 103,59800523 0.00 0.00 17,400.00 90.00 359.63 12,520.00 9,096.00 4,944.94 4,951.23 958.34 403,890.96 769,015.05 32,10821323 103,59800569 0.00 0.00 100 100 100 100 100 100 100 1		17,000.00			12,520.00		4,544.94	4,551.24	960.89	403,580.98	769,016.96					0.00
17,300.00 90.00 359.63 12,520.00 9,966.00 4,844.94 4,851.24 958.98 403,880.96 769,015.05 32,1082132 -103,59800523 0.00 0.00 17,400.00 90.00 950.00 359.63 12,520.00 9,966.00 4,944.94 4,951.23 958.34 403,890.96 769,015.05 32,1082132 -103,59800569 0.00 0.00 0.00		17,100.00	90.00	359.63	12,520.00	9,096.00	4,644.94	4,651.24	960.25	403,680.97	769,016.33	32.10766349	-103.59800552	0.00	0.00	0.00
17,400.00 90.00 359.63 12,520.00 9,996.00 4,944.94 4,951.23 958.34 403,980.96 769,014.42 32.10848810 -103.59800509 0.00 0.00		17,200.00		359.63	12,520.00	9,096.00	4,744.94	4,751.24	959.61	403,780.97	769,015.69	32.10793836		0.00		0.00
																0.00
- Cubication Service 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cascade 29 Federal 17H - BHL [	17,416.77	90.00	359.63	12,520.00	9,096.00	4,961.71	4,968.00	958.23	403,997.72	769,014.31			0.00	0.00	0.00

Survey Type:

Def Plan

Survey Error Model: Survey Program: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Dia (in)	(in) Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	12,000.000	1/100.000	30.000		A001Mb_MWD	Cascade 29 Federal 17H / Cimarex Cascade 29 Federal 17H Rev0 kFc 20Feb23
	1	12,000.000	17,420.710	1/100.000	30.000		A008Mb_MWD+IFR1+MS	Cascade 29 Federal 17H / Cimarex Cascade 29 Federal 17H Rev0 kFc 20Feb23



# Cimarex 10M Well Control Plan

Version 1.0

# **BOPE Preventer Utilization**

The table below displays all BHA components, drill pipe, casing, or open hole that could be present during a required shut in and the associated preventer component that would provide a barrier to flow. It is specific to the hole section that requires a 10M system. The mud system being utilized in the hole will always assumed to be the first barrier to flow. The below table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

<b>Drill String Element</b>	OD	Preventer	RWP
4" Drillpipe	4"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
4.5" Drillpipe	4.5"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
4" HWDP Drillpipe	4"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
4.5" HWDP Drillpipe	4.5"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
Drill Collars (including non- magnetic)	4.75- 5.25"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
Production Casing	5.5"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
Production Casing	5"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
Production Casing	4.5"	Lower Ram 3 1/2" - 5 ½" VBR* Upper Ram 3 1/2" - 5 ½" VBR*	10M
ALL	0-13 5/8"	Annular	5M
Open Hole		Blind Rams	10M

\*VBR - Variable Bore Ram

# **Well Control Procedures**

Proper well control response is highly specific to current well conditions and must be adapted based on environment as needed. The procedures below are given in "common" operating conditions to cover the basic and most necessary operations required during the wellbore construction. These include drilling ahead, tripping pipe, tripping BHA, running casing, and pipe out of the hole/open hole. In some of the procedures below, there will be a switch of control from the lesser RWP annular to the appropriate 10M RWP ram. The pressure at which this is done is variable based on overall well conditions that must be evaluated situationally. The pressure that control is switched may be equal to or less than the RWP but at no time will the pressure on the annular preventer exceed the RWP of the annular. The annular will be tested to 5,000 psi. This will be the RWP of the annular preventer.

# Shutting In While Drilling

- 1. Sound alarm to alert crew
- 2. Space out drill string
- 3. Shut down pumps
- 4. Shut in uppermost BOPE preventer (typically the annular preventer) and open HCR.
- 5. Verify well is shut-in and flow has stopped
- 6. Notify supervisory personnel
- 7. Record data (SIDP, SICP, Pit Gain, and Time)
- 8. Hold pre-job safety meeting and discuss kill procedure

9. If pressure is anticipated to climb to the RWP of the annular preventer during kill procedure, swap control of the well to the upper pipe ram

# Shutting In While Tripping

- 1. Sound alarm and alert crew
- 2. Install open, full open safety valve and close valve
- 3. Shut in uppermost BOPE preventer (typically the annular preventer) and open HCR.
- 4. Verify well is shut-in and flow has stopped
- 5. Notify supervisory personnel
- 6. Record data (SIDP, SICP, Pit Gain, and Time)
- 7. Hold pre-job safety meeting and discuss kill procedure
- 8. If pressure is anticipated to climb to the RWP of the annular preventer during kill procedure, swap control of the well to the upper pipe ram

# Shutting In While Running Casing

- Sound alarm and alert crew
- 2. Install circulating swedge. Close high pressure, low torque valves.
- 3. Shut in uppermost BOPE preventer (typically the annular preventer) and open HCR.
- 4. Verify well is shut-in and flow has stopped
- 5. Notify supervisory personnel
- 6. Record data (SIDP, SICP, Pit Gain, and Time)
- 7. Hold Pre-job safety meeting and discuss kill procedure
- 8. If pressure is anticipated to climb to the RWP of the annular preventer during kill procedure, swap control of the well to the upper pipe ram

# Shutting in while out of hole

- 1. Sound alarm
- 2. Shut-in well: close blind rams
- 3. Verify well is shut-in and monitor pressures
- Notify supervisory personnel
- 5. Record data (SIDP, SICP, Pit Gain, and Time)
- 6. Hold Pre-job safety meeting and discuss kill procedure

# Shutting in prior to pulling BHA through stack

- 1. Prior to pulling last joint of drill pipe thru the stack space out and check flow. If flowing see steps below.
- 2. Sound alarm and alert crew
- 3. Install open, full open safety valve and close valve
- 4. Shut in upper pipe ram and open HCR.

- 5. Verify well is shut-in and flow has stopped
- 6. Notify supervisory personnel
- 7. Record data (SIDP, SICP, Pit Gain, and Time)
- 8. Hold pre-job safety meeting and discuss kill procedure

# Shutting in while BHA is in the stack and ram preventer and combo immediately available

- Sound alarm and alert crew
- 2. Stab Crossover and install open, full open safety valve and close valve
- 3. Space out drill string with upset just beneath the compatible pipe ram.
- 4. Shut in upper compatible pipe ram and open HCR.
- 5. Verify well is shut-in and flow has stopped
- 6. Notify supervisory personnel
- 7. Record data (SIDP, SICP, Pit Gain, and Time)
- 8. Hold pre-job safety meeting and discuss kill procedure

# Shutting in while BHA is in the stack and no ram preventer or combo immediately available

- 1. Sound alarm and alert crew
- 2. If possible pick up high enough, to pull string clear and follow "Open Hole" scenario
- 3. If not possible to pick up high enough:
  - 1. Stab Crossover, make up one joint/stand of drill pipe, and install open, full open safety valve and close valve
- 4. Space out drill string with upset just beneath the compatible pipe ram.
- 5. Shut in upper compatible pipe ram and open HCR.
- 6. Verify well is shut-in and flow has stopped
- 7. Notify supervisory personnel
- 8. Record data (SIDP, SICP, Pit Gain, and Time)
- 9. Hold pre-job safety meeting and discuss kill procedure

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

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** 

CONDITIONS

Action 211875

# **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	211875
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By		Condition Date
pkautz	None	5/4/2023