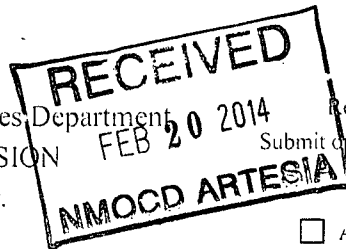


District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 292-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis 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

¹ API Number 30-015-42083	² Pool Code 24330	³ Pool Name Fenton Delaware, NW; Brushy Canyon
⁴ Property Code	⁵ Property Name LONE TREE DRAW 14 STATE COM	⁶ Well Number 3H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3219.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	21 S	27 E		335	SOUTH	960	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

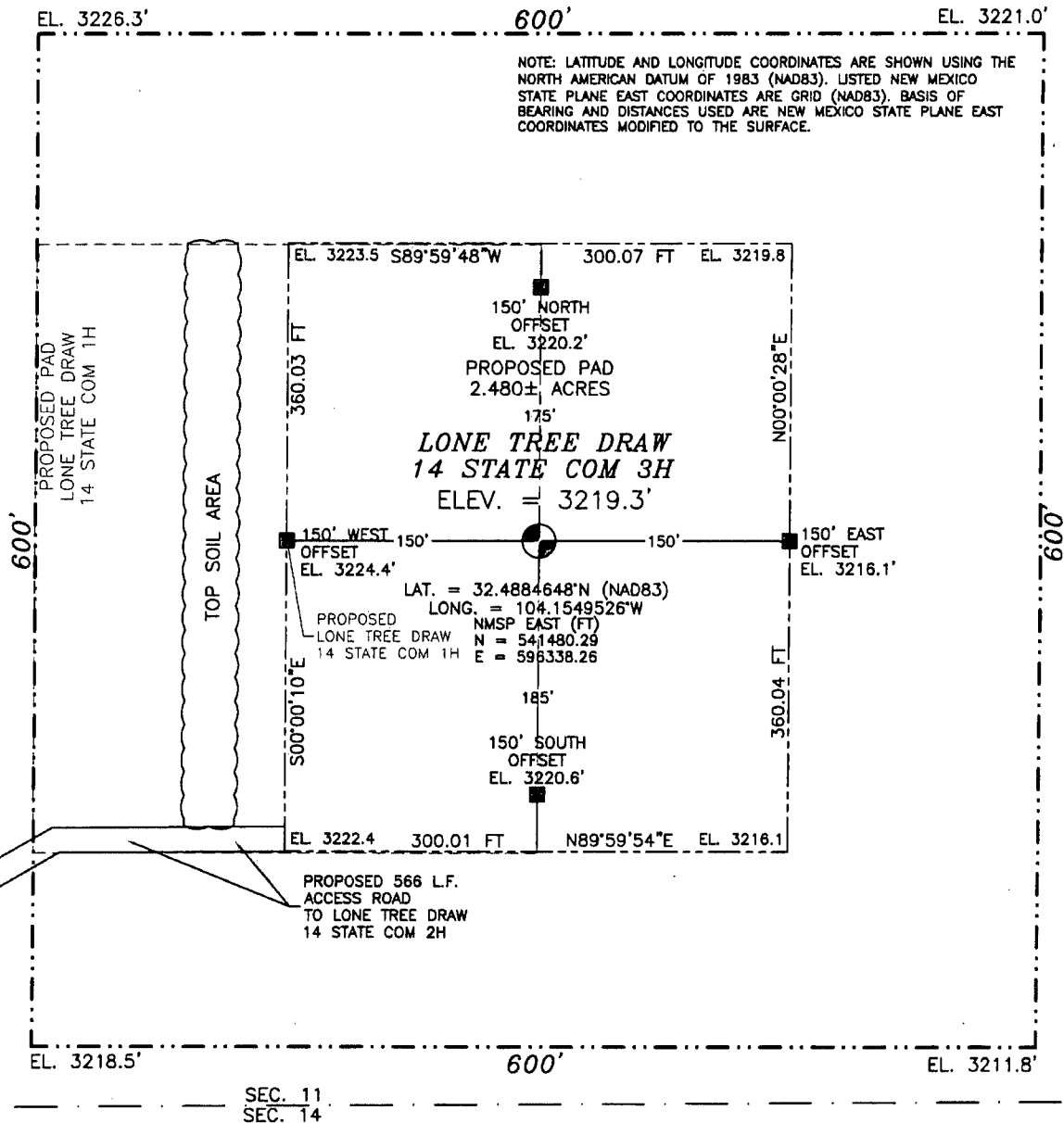
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	21 S	27 E		330	SOUTH	660	EAST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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

NW CORNER SEC. 11 LAT. = 32.5020183°N LONG. = 104.1609954°W NMSP EAST (FT) N = 546403.31 E = 592000.82 W/4 CORNER SEC. 11 LAT. = 32.4947873°N LONG. = 104.1691234°W NMSP EAST (FT) N = 543773.38 E = 591965.39 SECTION CORNER LAT. = 32.4874915°N LONG. = 104.1691038°W NMSP EAST (FT) N = 541119.20 E = 591975.53 W/4 CORNER SEC. 14 COMPUTED SW CORNER SEC. 14 COMPUTED	N/4 CORNER SEC. 11 LAT. = 32.5020348°N LONG. = 104.1603895°W NMSP EAST (FT) N = 546414.26 E = 594660.06 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. SEC. 11 LONE TREE DRAW 14 STATE COM 3H ELEV. = 3219.3' LAT. = 32.4884648°N (NAD83) LONG. = 104.1549526°W NMSP EAST (FT) N = 541480.29 E = 596338.26 QUARTER CORNER LAT. = 32.4875225°N LONG. = 104.1604750°W NMSP EAST (FT) N = 541134.89 E = 594636.10 SEC. 14 BOTTOM OF HOLE LAT. = 32.4738505°N LONG. = 104.1539181°W NMSP EAST (FT) N = 535161.24 E = 591564.20 S/4 CORNER SEC. 14 LAT. = 32.4729259°N LONG. = 104.1604404°W NMSP EAST (FT) N = 535824.49 E = 594655.36	NE CORNER SEC. 11 LAT. = 32.5020532°N LONG. = 104.1517459°W NMSP EAST (FT) N = 546425.39 E = 597318.60 E/4 CORNER SEC. 11 COMPUTED SECTION CORNER LAT. = 32.4875561°N LONG. = 104.1518461°W NMSP EAST (FT) N = 541151.32 E = 597296.69 E/4 CORNER SEC. 14 LAT. = 32.4802575°N LONG. = 104.1518272°W NMSP EAST (FT) N = 538496.13 E = 597307.02 SE CORNER SEC. 14 LAT. = 32.4729692°N LONG. = 104.1517858°W NMSP EAST (FT) N = 535844.67 E = 597324.30	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 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. <i>Linda Good</i> 2/19/2014 Signature Date Linda Good Printed Name linda.good@devon.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. SEPTEMBER 26, 2013 Date of Survey NEW MEXICO 12797 Signature and Seal of Professional Surveyor Certificate Number: ELM (MONT.) ARAMILLO, PLS 12797 SURVEY NO. 2185
--	--	--	---

**SECTION 11, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP**



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP, RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 800 (RAINS ROAD) ON THE RIGHT (EAST) GO DOWN CR 800 2.1 MILES (RAMBO BOOSTER) PAVEMENT ENDS CONTINUE EAST AT 2.3 MILES CALICHE ROAD TO THE RIGHT (EAST) ACROSS FROM A GRAVEL PIT GO RIGHT ON CALICHE ROAD 2.4 MILES FOLLOW FLAG ON LEFT (NORTH) SIDE OF ROAD FOR 900 L.F. TO SE CORNER OF PAD FOR LONE TREE DRAW 14 STATE COM 2H THEN GO TO NE CORNER OF SAID PAD THEN FOLLOW FLAG 418 L.F. TO SW CORNER OF PAD FOR LONE TREE DRAW 14 STATE COM 1H THEN GO EAST 150' TO THE SW CORNER OF PAD

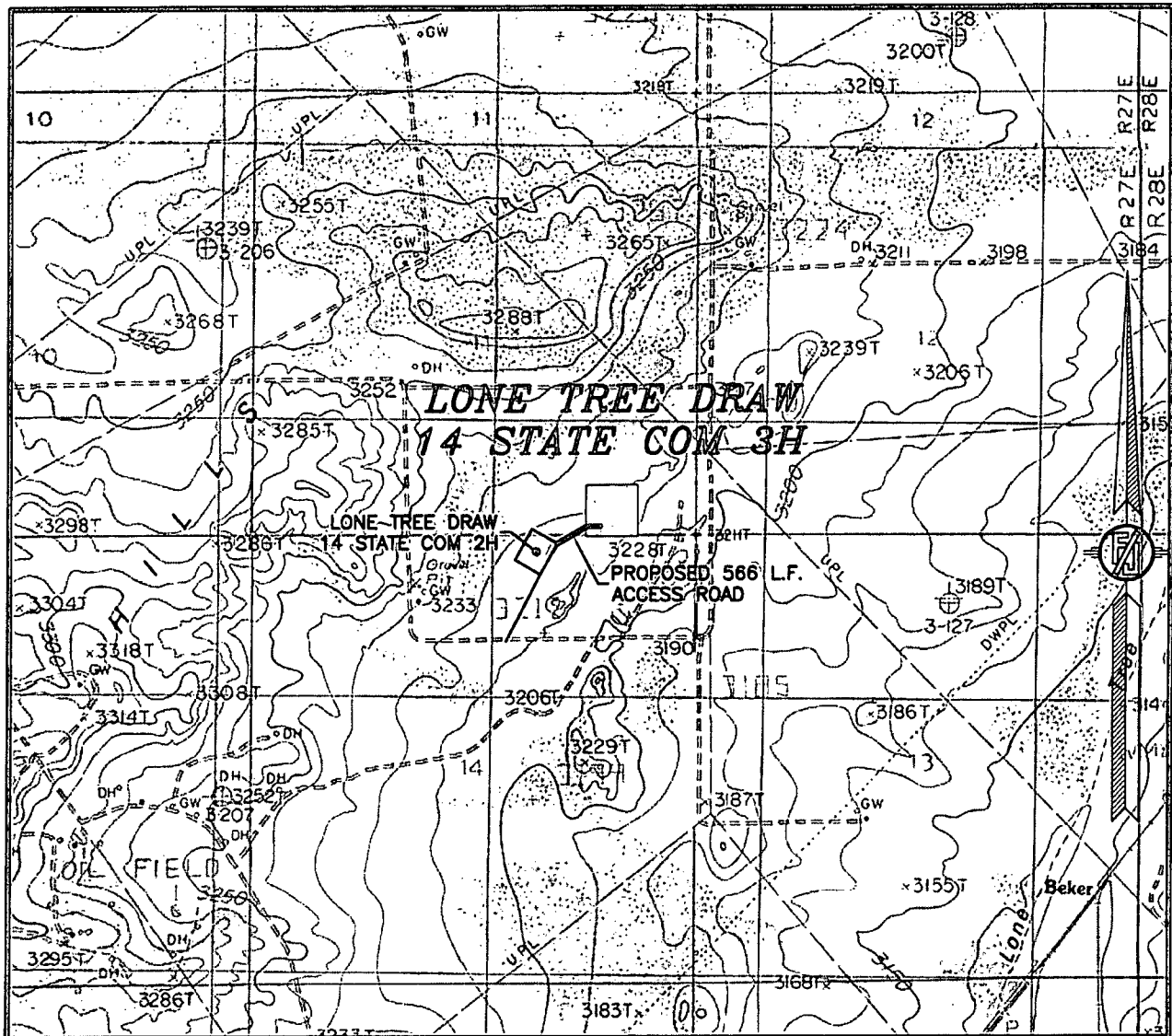
**DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14 STATE COM 3H
LOCATED 335 FT. FROM THE SOUTH LINE
AND 960 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

SEPTEMBER 26, 2013

SURVEY NO. 2185

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 **CARLSBAD, NEW MEXICO**

SECTION 11, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
CARLSBAD EAST

NOT TO SCALE

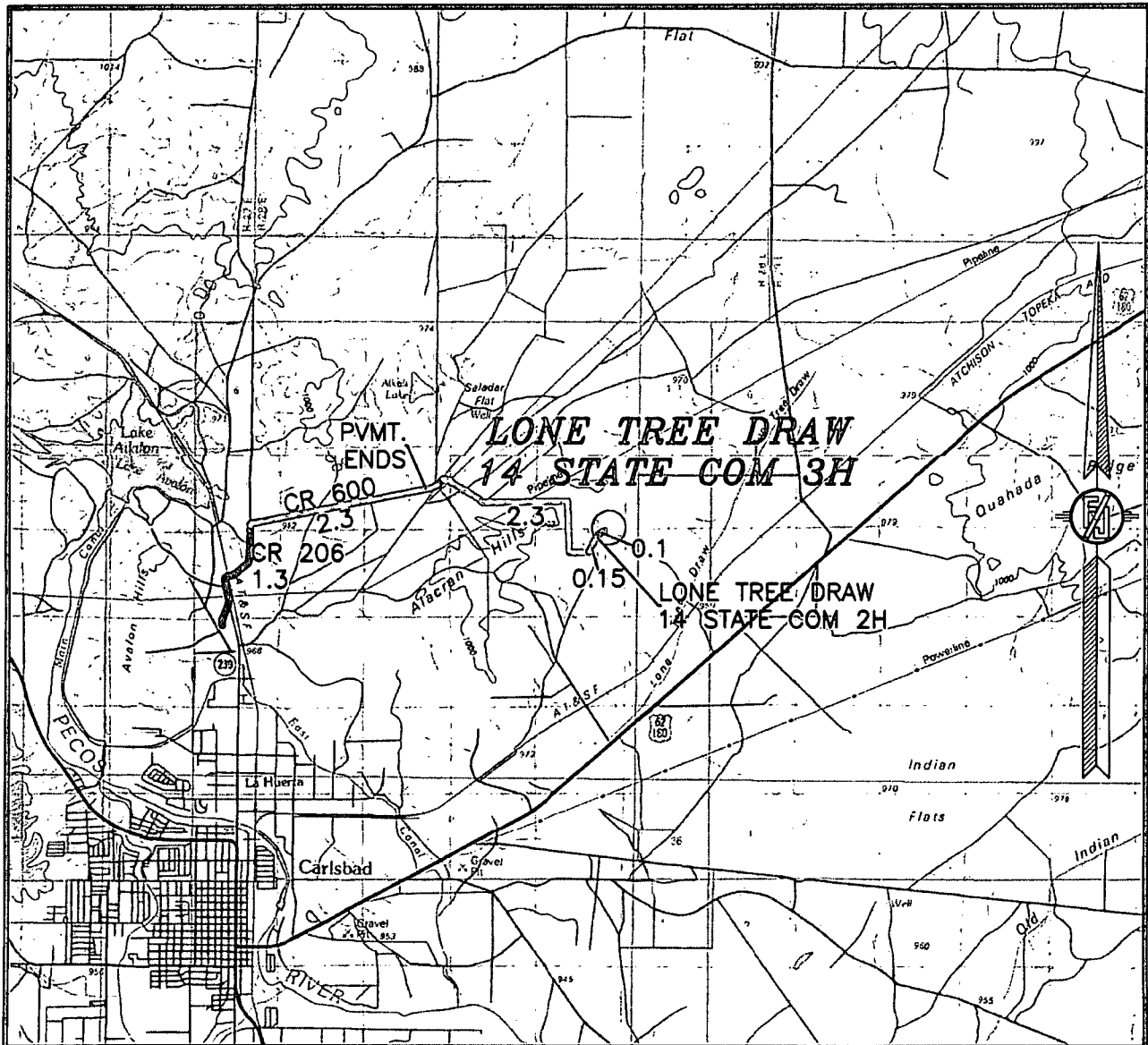
DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14 STATE COM 3H
LOCATED 335 FT. FROM THE SOUTH LINE
AND 960 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2185

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP, RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 600 (RAINS ROAD) ON THE RIGHT (EAST) GO DOWN CR 600 2.1 MILES (RAMBO BOOSTER) PAVEMENT ENDS CONTINUE EAST AT 2.3 MILES CALICHE ROAD TO THE RIGHT (EAST) ACROSS FROM A GRAVEL PIT GO RIGHT ON CALICHE ROAD 2.4 MILES FOLLOW FLAG ON LEFT (NORTH) SIDE OF ROAD FOR 900 L.F. TO SE CORNER OF PAD FOR LONE TREE DRAW 14 STATE COM 2H THEN GO TO NE. CORNER OF SAID PAD THEN FOLLOW FLAGS 418 L.F. TO SW. CORNER OF PAD FOR LONE TREE DRAW 14 STATE COM 1H THEN GO EAST 150' TO THE SW. CORNER OF PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.

LONE TREE DRAW 14 STATE COM 3H

LOCATED 335 FT. FROM THE SOUTH LINE
AND 960 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2185

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14 STATE COM 3H
LOCATED 335 FT. FROM THE SOUTH LINE
AND 960 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2185

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

LONE TREE DRAW 14 STATE-3H – APD DRILLING PLAN
SKS 10-16-2013

Casing Program:

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17-1/2"	0 - 100	13-3/8"	0 - 100	48#	ST&C	H-40
12-1/4"	100 - 2760	9-5/8"	0 - 2760	40#	LT&C	J-55
8-3/4"	2760 - 4300	5-1/2"	0 - 4300	17#	LT&C	P-110
8-3/4"	4300 - 10027	5-1/2"	4300 - 10027	17#	BT&C	P-110

Mud Program:

Depth	Mud Wt.	Visc.	Fluid Loss	Type System (Fluid)
0 - 100	8.4 – 9.0	30 – 34	N/C	FW
100 - 2760	9.8 – 10.0	28 – 32	N/C	Brine
2760 - 10027	8.6 – 9.0	28 – 32	N/C-12	FW

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as a 3M system prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as a 3M system prior to drilling out the intermediate casing shoe.

In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Cement Program:

String	Slurry	Amount and Type of Cement
13-3/8" Surface	Lead	Tail: 135 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg, 1.34 cf/sk, 6.34 gal/sk
9-5/8" Intermediate	Lead	Lead: 665 sacks (65:35) Class H Cement:Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.8 % Fresh Water, 12.9 ppg, 1.85 cf/sk, 9.81 gal/sk
	Tail	Tail: 220 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg, 1.33 cf/sk, 6.32 gal/sk
5-1/2" Production	Lead	Lead: 225 sacks Tuned Light Class C Based + 2 lbs/sack Kol-Seal+ 0.125 lbs/sack Poly-E-Flake + 0.2 lb/sack HR-800 + 70.01 % Fresh Water, 10.4 ppg, 2.91 cf/sk, 15.24 gal/sk
	Tail	Tail: 1465 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg,, 1.22 cf/sk, 5.38 gal/sk
	Contingency Plan For loss of Circulation	
	1st STAGE	
	Lead	Lead: 260 sacks (65:35) Class H Cement:Poz (Fly Ash): 6% BWOC Bentonite + 0.25% HR-601+ 0.125 lbs/sack Poly-E-Flake + 73.6 % Fresh Water, 12.5 ppg, 1.95 cf/sk, 10.79 gal/sk
	Tail	Tail: 1465 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, 1.22 cf/sk, 5.38 gal/sk
	2nd STAGE (DV tool 2810 ft)	
	Lead	Tail: 115 sacks Class C Cement + 63.5% Water, 14.8 ppg, 1.33 cf/sk, 6.34 gal/sk

- The above cement volumes based on at least Surface 100% excess, Intermediate 75% excess and Production is 25% excess. Actual cement volumes to be adjusted based on fluid caliper and/or caliper log data.
- If lost circulation is encountered while drilling the production wellbore, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Lone Tree Draw "14" State
Well: 3H
Wellbore: OH
Design: Plan #1 Draft 1



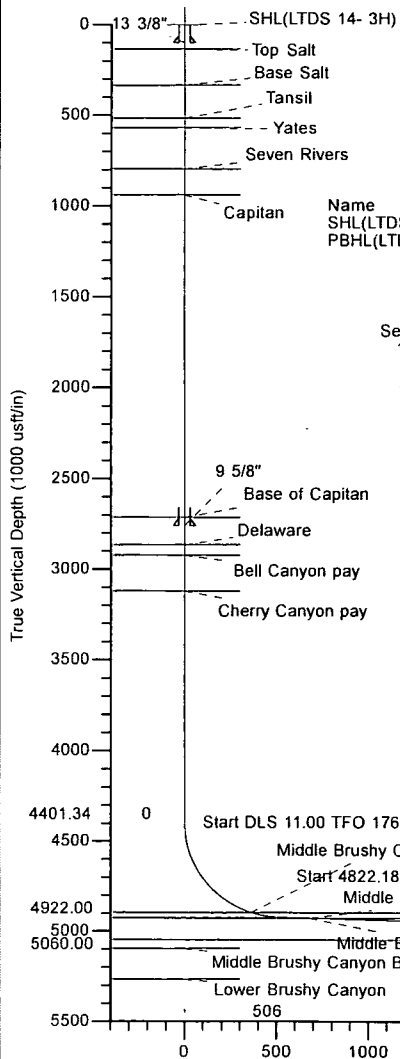
Azimuths to Grid North
True North: -0.10°
Magnetic North: 7.61°

Magnetic Field
Strength: 48460.6snT
Dip Angle: 60.26°
Date: 10/10/2013
Model: BGGM2013



PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

West(-)/East(+) (1000 usf/in)



DESIGN TARGET DETAILS

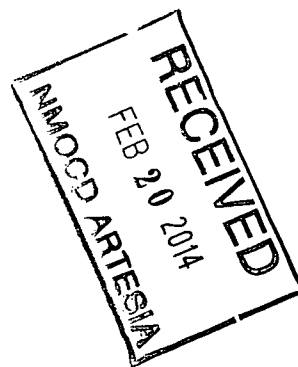
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(LTDS 14- 3H)	0.00	0.00	0.00	541480.28	596338.28	32° 29' 18.473 N	104° 9' 17.829 W
PBHL(LTDS 14- 3H)	5060.00	-5316.06	327.91	536164.22	596666.19	32° 28' 25.862 N	104° 9' 14.105 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annot
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4401.34	0.00	0.00	4401.34	0.00	0.00	0.00	0.00	0.00	
3	5204.61	88.36	176.47	4922.00	-505.00	31.15	11.00	176.47	505.96	
4	10026.79	88.36	176.47	5060.00	-5316.06	327.91	0.00	0.00	5326.16	

CASING DETAILS

TVD	MD	Name	Size
100.00	100.00	13 3/8"	13-3/8
2760.00	2760.00	9 5/8"	9-5/8
5060.00	10026.79	5 1/2"	5-1/2



5060 5 1/2" PBHL(LTDS 14- 3H)

Lease Lines Unavailable at time of planning

South(-)/North(+) (1000 usf/in)



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft 1 (3H/OH)
Lone Tree Draw "14" State
Created By: Heber Claros Date: 10/14, October 16 2013
Date: _____
Approved: _____ Date: _____

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Site:	Lone Tree Draw "14" State	MD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lone Tree Draw "14" State				
Site Position:		Northing:	541,480.29 usft	Latitude:	32° 29' 18.473 N
From:	Lat/Long	Easting:	596,338.28 usft	Longitude:	104° 9' 17.829 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well	3H					
Well Position	+N/-S	0.00 usft	Northing:	541,480.29 usft	Latitude:	32° 29' 18.473 N
	+E/-W	0.00 usft	Easting:	596,338.28 usft	Longitude:	104° 9' 17.829 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,219.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	10/10/13	7.71	60.26	48,461

Design		Plan #1 Draft 1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	176.47

Survey Tool Program		Date	10/15/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	10,026.79	Plan #1 Draft 1 (OH)	LEAM MWD-ADJ	MWD - Standard	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,401.34	0.00	0.00	4,401.34	0.00	0.00	0.00	0.00	0.00	0.00	
4,450.00	5.35	176.47	4,449.93	-2.27	0.14	2.27	11.00	11.00	0.00	
4,500.00	10.85	176.47	4,499.41	-9.30	0.57	9.32	11.00	11.00	0.00	
4,550.00	16.35	176.47	4,547.99	-21.03	1.30	21.07	11.00	11.00	0.00	
4,600.00	21.85	176.47	4,595.22	-37.36	2.30	37.43	11.00	11.00	0.00	
4,650.00	27.35	176.47	4,640.66	-58.13	3.59	58.24	11.00	11.00	0.00	
4,700.00	32.85	176.47	4,683.90	-83.15	5.13	83.30	11.00	11.00	0.00	
4,750.00	38.35	176.47	4,724.54	-112.19	6.92	112.40	11.00	11.00	0.00	
4,800.00	43.85	176.47	4,762.20	-144.98	8.94	145.26	11.00	11.00	0.00	
4,850.00	49.35	176.47	4,796.54	-181.23	11.18	181.57	11.00	11.00	0.00	

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Site:	Lone Tree Draw "14" State	MD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	54.85	176.47	4,827.24	-220.60	13.61	221.01	11.00	11.00	0.00
4,950.00	60.35	176.47	4,854.02	-262.72	16.21	263.22	11.00	11.00	0.00
5,000.00	65.85	176.47	4,876.63	-307.21	18.95	307.79	11.00	11.00	0.00
5,050.00	71.35	176.47	4,894.87	-353.65	21.81	354.33	11.00	11.00	0.00
5,056.80	72.10	176.47	4,897.00	-360.10	22.21	360.78	11.00	11.00	0.00
Middle Brushy Canyon A									
5,100.00	76.85	176.47	4,908.56	-401.63	24.77	402.40	11.00	11.00	0.00
5,150.00	82.35	176.47	4,917.58	-450.70	27.80	451.56	11.00	11.00	0.00
5,204.61	88.36	176.47	4,922.00	-505.00	31.15	505.96	11.00	11.00	0.00
5,300.00	88.36	176.47	4,924.73	-600.17	37.02	601.31	0.00	0.00	0.00
5,379.42	88.36	176.47	4,927.00	-679.41	41.91	680.70	0.00	0.00	0.00
Middle Brushy Canyon A1 - Middle Brushy Canyon A1 Base									
5,400.00	88.36	176.47	4,927.59	-699.94	43.17	701.27	0.00	0.00	0.00
5,500.00	88.36	176.47	4,930.45	-799.71	49.33	801.23	0.00	0.00	0.00
5,600.00	88.36	176.47	4,933.31	-899.48	55.48	901.19	0.00	0.00	0.00
5,700.00	88.36	176.47	4,936.17	-999.25	61.64	1,001.15	0.00	0.00	0.00
5,800.00	88.36	176.47	4,939.04	-1,099.02	67.79	1,101.11	0.00	0.00	0.00
5,900.00	88.36	176.47	4,941.90	-1,198.79	73.95	1,201.07	0.00	0.00	0.00
6,000.00	88.36	176.47	4,944.76	-1,298.56	80.10	1,301.03	0.00	0.00	0.00
6,100.00	88.36	176.47	4,947.62	-1,398.33	86.25	1,400.98	0.00	0.00	0.00
6,200.00	88.36	176.47	4,950.48	-1,498.10	92.41	1,500.94	0.00	0.00	0.00
6,300.00	88.36	176.47	4,953.35	-1,597.87	98.56	1,600.90	0.00	0.00	0.00
6,400.00	88.36	176.47	4,956.21	-1,697.63	104.72	1,700.86	0.00	0.00	0.00
6,500.00	88.36	176.47	4,959.07	-1,797.40	110.87	1,800.82	0.00	0.00	0.00
6,600.00	88.36	176.47	4,961.93	-1,897.17	117.02	1,900.78	0.00	0.00	0.00
6,700.00	88.36	176.47	4,964.79	-1,996.94	123.18	2,000.74	0.00	0.00	0.00
6,800.00	88.36	176.47	4,967.65	-2,096.71	129.33	2,100.70	0.00	0.00	0.00
6,900.00	88.36	176.47	4,970.52	-2,196.48	135.49	2,200.66	0.00	0.00	0.00
7,000.00	88.36	176.47	4,973.38	-2,296.25	141.64	2,300.62	0.00	0.00	0.00
7,100.00	88.36	176.47	4,976.24	-2,396.02	147.79	2,400.57	0.00	0.00	0.00
7,200.00	88.36	176.47	4,979.10	-2,495.79	153.95	2,500.53	0.00	0.00	0.00
7,300.00	88.36	176.47	4,981.96	-2,595.56	160.10	2,600.49	0.00	0.00	0.00
7,400.00	88.36	176.47	4,984.83	-2,695.33	166.26	2,700.45	0.00	0.00	0.00
7,500.00	88.36	176.47	4,987.69	-2,795.10	172.41	2,800.41	0.00	0.00	0.00
7,600.00	88.36	176.47	4,990.55	-2,894.87	178.57	2,900.37	0.00	0.00	0.00
7,700.00	88.36	176.47	4,993.41	-2,994.64	184.72	3,000.33	0.00	0.00	0.00
7,800.00	88.36	176.47	4,996.27	-3,094.41	190.87	3,100.29	0.00	0.00	0.00
7,900.00	88.36	176.47	4,999.13	-3,194.18	197.03	3,200.25	0.00	0.00	0.00
8,000.00	88.36	176.47	5,002.00	-3,293.95	203.18	3,300.21	0.00	0.00	0.00
8,100.00	88.36	176.47	5,004.86	-3,393.71	209.34	3,400.17	0.00	0.00	0.00
8,200.00	88.36	176.47	5,007.72	-3,493.48	215.49	3,500.12	0.00	0.00	0.00
8,300.00	88.36	176.47	5,010.58	-3,593.25	221.64	3,600.08	0.00	0.00	0.00
8,400.00	88.36	176.47	5,013.44	-3,693.02	227.80	3,700.04	0.00	0.00	0.00
8,500.00	88.36	176.47	5,016.31	-3,792.79	233.95	3,800.00	0.00	0.00	0.00

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Site:	Lone Tree Draw "14" State	MD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	88.36	176.47	5,019.17	-3,892.56	240.11	3,899.96	0.00	0.00	0.00
8,700.00	88.36	176.47	5,022.03	-3,992.33	246.26	3,999.92	0.00	0.00	0.00
8,800.00	88.36	176.47	5,024.89	-4,092.10	252.41	4,099.88	0.00	0.00	0.00
8,900.00	88.36	176.47	5,027.75	-4,191.87	258.57	4,199.84	0.00	0.00	0.00
9,000.00	88.36	176.47	5,030.62	-4,291.64	264.72	4,299.80	0.00	0.00	0.00
9,100.00	88.36	176.47	5,033.48	-4,391.41	270.88	4,399.76	0.00	0.00	0.00
9,200.00	88.36	176.47	5,036.34	-4,491.18	277.03	4,499.71	0.00	0.00	0.00
9,300.00	88.36	176.47	5,039.20	-4,590.95	283.18	4,599.67	0.00	0.00	0.00
9,400.00	88.36	176.47	5,042.06	-4,690.72	289.34	4,699.63	0.00	0.00	0.00
9,500.00	88.36	176.47	5,044.92	-4,790.49	295.49	4,799.59	0.00	0.00	0.00
9,572.53	88.36	176.47	5,047.00	-4,862.85	299.96	4,872.10	0.00	0.00	0.00
Bone Spring Lime									
9,600.00	88.36	176.47	5,047.79	-4,890.26	301.65	4,899.55	0.00	0.00	0.00
9,700.00	88.36	176.47	5,050.65	-4,990.03	307.80	4,999.51	0.00	0.00	0.00
9,800.00	88.36	176.47	5,053.51	-5,089.80	313.96	5,099.47	0.00	0.00	0.00
9,900.00	88.36	176.47	5,056.37	-5,189.56	320.11	5,199.43	0.00	0.00	0.00
10,000.00	88.36	176.47	5,059.23	-5,289.33	326.26	5,299.39	0.00	0.00	0.00
10,026.79	88.36	176.47	5,060.00	-5,316.06	327.91	5,326.16	0.00	0.00	0.00
PBHL(LTDS 14- 3H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL(LTDS 14- 3H)	0.00	0.00	0.00	0.00	0.00	541,480.29	596,338.28	32° 29' 18.473 N	104° 9' 17.829 W
- plan misses target center by 4401.34usft at 4401.34usft MD (4401.34 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL(LTDS 14- 3H)	0.00	0.00	5,060.00	-5,316.06	327.91	536,164.22	596,666.19	32° 28' 25.862 N	104° 9' 14.105 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
100.00	100.00	13 3/8"	13-3/8	17-1/2
2,760.00	2,760.00	9 5/8"	9-5/8	12-1/4
10,026.79	5,060.00	5 1/2"	5-1/2	6

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Site:	Lone Tree Draw "14" State	MD Reference:	GE 3219' + KB 26' @ 3245.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
135.00	135.00	Top Salt		0.01	
335.00	335.00	Base Salt		0.01	
516.00	516.00	Tansil		0.01	
569.00	569.00	Yates		0.01	
796.00	796.00	Seven Rivers		0.01	
939.00	939.00	Capitan		0.01	
2,714.00	2,714.00	Base of Capitan		0.01	
2,865.00	2,865.00	Delaware		0.01	
2,923.00	2,923.00	Bell Canyon pay		0.01	
3,121.00	3,121.00	Cherry Canyon pay		0.01	
5,056.80	4,897.00	Middle Brushy Canyon A		0.01	
5,379.42	4,927.00	Middle Brushy Canyon A1		0.01	
5,379.42	4,927.00	Middle Brushy Canyon A1 Base		0.01	
9,572.53	5,047.00	Bone Spring Lime		0.01	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00
4401.34	0.00	0.00	4401.34	0.00	0.00	0.00	0.00	0.00	0.00
4450.00	5.35	176.47	4449.93	-2.27	0.14	11.00	11.00	0.00	2.27

4500.00	10.85	176.47	4499.41	-9.30	0.57	11.00	11.00	0.00	9.32
4550.00	16.35	176.47	4547.99	-21.03	1.30	11.00	11.00	0.00	21.07
4600.00	21.85	176.47	4595.22	-37.36	2.30	11.00	11.00	0.00	37.43
4650.00	27.35	176.47	4640.66	-58.13	3.59	11.00	11.00	0.00	58.24
4700.00	32.85	176.47	4683.90	-83.15	5.13	11.00	11.00	0.00	83.30
4750.00	38.35	176.47	4724.54	-112.19	6.92	11.00	11.00	0.00	112.40
4800.00	43.85	176.47	4762.20	-144.98	8.94	11.00	11.00	0.00	145.26
4850.00	49.35	176.47	4796.54	-181.23	11.18	11.00	11.00	0.00	181.57
4900.00	54.85	176.47	4827.24	-220.60	13.61	11.00	11.00	0.00	221.01
4950.00	60.35	176.47	4854.02	-262.72	16.21	11.00	11.00	0.00	263.22
5000.00	65.85	176.47	4876.63	-307.21	18.95	11.00	11.00	0.00	307.79
5050.00	71.35	176.47	4894.87	-353.65	21.81	11.00	11.00	0.00	354.33
5100.00	76.85	176.47	4908.56	-401.63	24.77	11.00	11.00	0.00	402.40
5150.00	82.35	176.47	4917.58	-450.70	27.80	11.00	11.00	0.00	451.56
5204.61	88.36	176.47	4922.00	-505.00	31.15	11.00	11.00	0.00	505.96
5300.00	88.36	176.47	4924.73	-600.17	37.02	0.00	0.00	0.00	601.31
5400.00	88.36	176.47	4927.59	-699.94	43.17	0.00	0.00	0.00	701.27
5500.00	88.36	176.47	4930.45	-799.71	49.33	0.00	0.00	0.00	801.23
5600.00	88.36	176.47	4933.31	-899.48	55.48	0.00	0.00	0.00	901.19
5700.00	88.36	176.47	4936.17	-999.25	61.64	0.00	0.00	0.00	1001.15
5800.00	88.36	176.47	4939.04	-1099.02	67.79	0.00	0.00	0.00	1101.11
5900.00	88.36	176.47	4941.90	-1198.79	73.95	0.00	0.00	0.00	1201.07
6000.00	88.36	176.47	4944.76	-1298.56	80.10	0.00	0.00	0.00	1301.03
6100.00	88.36	176.47	4947.62	-1398.33	86.25	0.00	0.00	0.00	1400.98
6200.00	88.36	176.47	4950.48	-1498.10	92.41	0.00	0.00	0.00	1500.94
6300.00	88.36	176.47	4953.35	-1597.87	98.56	0.00	0.00	0.00	1600.90
6400.00	88.36	176.47	4956.21	-1697.63	104.72	0.00	0.00	0.00	1700.86
6500.00	88.36	176.47	4959.07	-1797.40	110.87	0.00	0.00	0.00	1800.82
6600.00	88.36	176.47	4961.93	-1897.17	117.02	0.00	0.00	0.00	1900.78
6700.00	88.36	176.47	4964.79	-1996.94	123.18	0.00	0.00	0.00	2000.74
6800.00	88.36	176.47	4967.65	-2096.71	129.33	0.00	0.00	0.00	2100.70
6900.00	88.36	176.47	4970.52	-2196.48	135.49	0.00	0.00	0.00	2200.66
7000.00	88.36	176.47	4973.38	-2296.25	141.64	0.00	0.00	0.00	2300.62
7100.00	88.36	176.47	4976.24	-2396.02	147.79	0.00	0.00	0.00	2400.57
7200.00	88.36	176.47	4979.10	-2495.79	153.95	0.00	0.00	0.00	2500.53
7300.00	88.36	176.47	4981.96	-2595.56	160.10	0.00	0.00	0.00	2600.49
7400.00	88.36	176.47	4984.83	-2695.33	166.26	0.00	0.00	0.00	2700.45
7500.00	88.36	176.47	4987.69	-2795.10	172.41	0.00	0.00	0.00	2800.41
7600.00	88.36	176.47	4990.55	-2894.87	178.57	0.00	0.00	0.00	2900.37
7700.00	88.36	176.47	4993.41	-2994.64	184.72	0.00	0.00	0.00	3000.33
7800.00	88.36	176.47	4996.27	-3094.41	190.87	0.00	0.00	0.00	3100.29
7900.00	88.36	176.47	4999.13	-3194.18	197.03	0.00	0.00	0.00	3200.25
8000.00	88.36	176.47	5002.00	-3293.95	203.18	0.00	0.00	0.00	3300.21
8100.00	88.36	176.47	5004.86	-3393.71	209.34	0.00	0.00	0.00	3400.17
8200.00	88.36	176.47	5007.72	-3493.48	215.49	0.00	0.00	0.00	3500.12
8300.00	88.36	176.47	5010.58	-3593.25	221.64	0.00	0.00	0.00	3600.08
8400.00	88.36	176.47	5013.44	-3693.02	227.80	0.00	0.00	0.00	3700.04

8500.00	88.36	176.47	5016.31	-3792.79	233.95	0.00	0.00	0.00	3800.00
8600.00	88.36	176.47	5019.17	-3892.56	240.11	0.00	0.00	0.00	3899.96
8700.00	88.36	176.47	5022.03	-3992.33	246.26	0.00	0.00	0.00	3999.92
8800.00	88.36	176.47	5024.89	-4092.10	252.41	0.00	0.00	0.00	4099.88
8900.00	88.36	176.47	5027.75	-4191.87	258.57	0.00	0.00	0.00	4199.84
9000.00	88.36	176.47	5030.62	-4291.64	264.72	0.00	0.00	0.00	4299.80
9100.00	88.36	176.47	5033.48	-4391.41	270.88	0.00	0.00	0.00	4399.76
9200.00	88.36	176.47	5036.34	-4491.18	277.03	0.00	0.00	0.00	4499.71
9300.00	88.36	176.47	5039.20	-4590.95	283.18	0.00	0.00	0.00	4599.67
9400.00	88.36	176.47	5042.06	-4690.72	289.34	0.00	0.00	0.00	4699.63
9500.00	88.36	176.47	5044.92	-4790.49	295.49	0.00	0.00	0.00	4799.59
9600.00	88.36	176.47	5047.79	-4890.26	301.65	0.00	0.00	0.00	4899.55
9700.00	88.36	176.47	5050.65	-4990.03	307.80	0.00	0.00	0.00	4999.51
9800.00	88.36	176.47	5053.51	-5089.80	313.96	0.00	0.00	0.00	5099.47
9900.00	88.36	176.47	5056.37	-5189.56	320.11	0.00	0.00	0.00	5199.43
10000.00	88.36	176.47	5059.23	-5289.33	326.26	0.00	0.00	0.00	5299.39
10026.79	88.36	176.47	5060.00	-5316.06	327.91	0.00	0.00	0.00	5326.16