

Cementing and Mud Details
Cimarex Energy Co. of Colorado
Crow Flats 16 State Com No. 2
Unit Letter M Section 16
T16S - R28E Eddy County, NM

1. Cementing & Setting Depth:

13 3/8" Surface

Set 335' of 13-3/8" H-40 48# ST&C casing. Cement with 390 sx Of Premium Plus cement + additives, circulate cement to surface.

8 5/8" Intermediate

Set 1800' of 8-5/8" J-55 24# LT&C casing. Cement with 422 sx Premium Cement + additives, circulate cement to surface.

5 1/2" Production

Set 10909' of 5-1/2" N-80 17# LT&C casing. Cement with 1550 sx Interfill H + additives / Permian Basin cement + additives. Estimated top of cement 1300'.

2. Pressure control Equipment:

A 13-3/8" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventor. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. BOP unit will be hydraulically operated. BOP will be nipped up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

3. Proposed Mud Circulating System:

Depth 0 - 335'

Mud Wt: 8.4-8.6

Viscosity: 30-32

Fluid Loss: May lose Circ

Type: Mud Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.

Depth: 335' - 1800'

Mud Wt: 9.7 - 9.9

Viscosity: 28 - 29

Fluid Loss: May lose circ.

Type: Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.

Depth: 1800' - 8300'

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Mud Weight: 8.4 - 9.9

Viscosity: 28 - 29

Fluid Loss: NC

Type: Fresh water. Paper for seepage. Lime for pH (9 - 9.5)

Depth: 8300' – 10000'

Mud Wt: 8.45 - 8.9

Viscosity: 28 - 29

Fluid Loss: NC

Type: Cut brine. Caustic for pH control.

Depth: 10000' – 10909'

Mud Wt: 8.9 – 9.7

Viscosity: 29 – 45

Fluid Loss: NC

Type: Cut Brine. Caustic for pH control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.



Cimarex Energy Co. of Colorado

5215 North O'Connor Blvd. ♦ Suite 1500 ♦ Irving, TX 75039 ♦ (972) 401-3111 ♦ Fax (972) 443-6486

Mailing Address: P.O. Box 140907 ♦ Irving, TX 75014-0907

A subsidiary of Cimarex Energy Co. ♦ A NYSE Listed Company ♦ "XEC"

April 16, 2007

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Mr. Bryan Arrant

Re: Statewide Rule 118
Hydrogen Sulfide Gas Contingency Plan
Proposed Crow Flats 16 State Com No. 2 Well

Dear Mr. Arrant:

In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. of Colorado does not anticipate that there will be enough H₂S from the surface to the Wolfcamp formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Crow Flats 16 State Com No. 2
16-16S-28E
660' FSL & 330' FWL
Eddy County, NM

If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 972-443-6489.

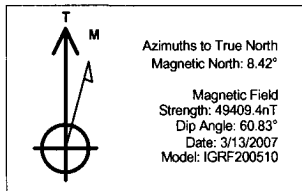
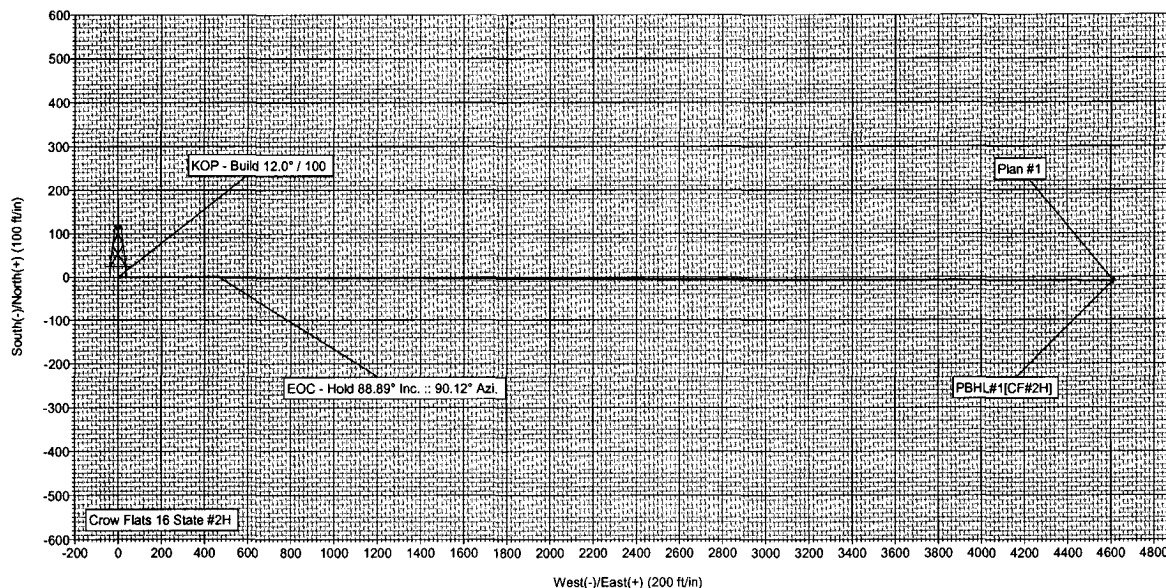
Yours truly,

A handwritten signature in cursive script that reads "Zeno Farris".

Zeno Farris
Manager, Operations Administration

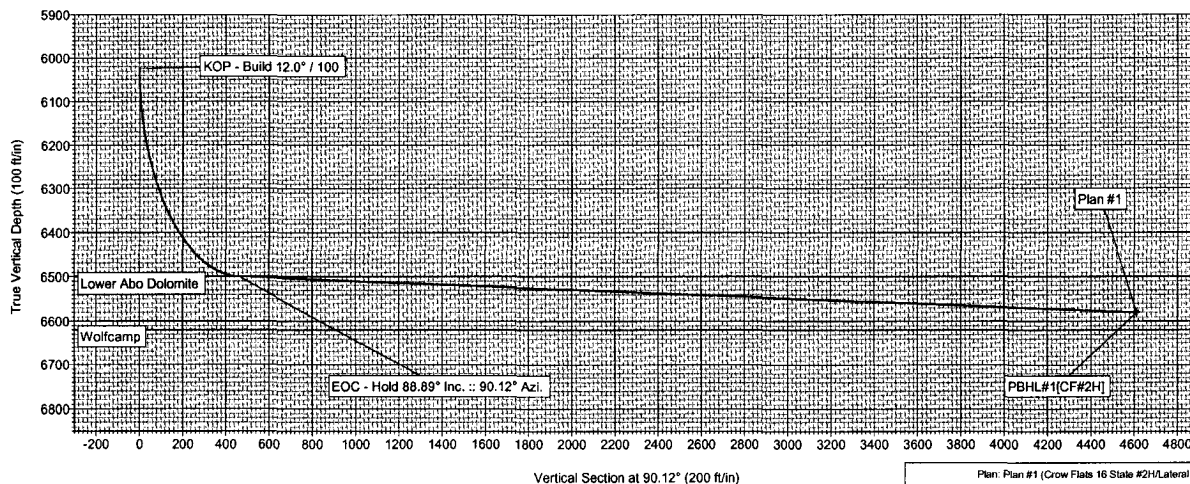


Project: Eddy Co., New Mexico
 Site: Crow Flats 16 State #2H
 Well: Crow Flats 16 State #2H
 Wellbore: Lateral #1 - 12°
 Plan: Plan #1 (Crow Flats 16 State #2H/Lateral #1 - 12°)



ANNOTATIONS		
TVD	MD	Annotation
6023.50	6023.50	KOP - Build 12.0° / 100
6500.72	6764.01	EOC - Hold 88.89° Inc. :: 90.12° Azi.

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	6022.50	0.00	0.00	6022.50	0.00	0.00	0.00	0.00	0.00	
2	6023.50	0.00	0.00	6023.50	0.00	0.00	0.00	0.00	0.00	
3	6764.01	88.89	90.12	6499.70	-0.98	467.06	12.00	90.12	-0.98	
4	10909.06	88.89	90.12	6580.00	-9.66	4611.32	0.00	0.00	-9.66	PBHL#1[CF#2H]



Plan: Plan #1 (Crow Flats 16 State #2H/Lateral #1 - 12°)
 Created By: L.D. Burton Date: April 13, 2007

Crow Flats 16 State #2H Lateral altPlan #1 12 Report 4-13-07
 Cimarex Energy Co., Inc.
 Crow Flats 16 State #2H - Plan #1

Eddy Co., New Mexico
 Crow Flats 16 State #2H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
6022.50	0.000	0.000	6022.50	0.00 N	0.00 E	0.00
0.00						
6023.50	0.000	0.000	6023.50	0.00 N	0.00 E	0.00
0.00						
6030.00	0.780	90.120	6030.00	0.00 S	0.04 E	0.04
12.00						
6040.00	1.981	90.120	6040.00	0.00 S	0.29 E	0.29
12.00						
6050.00	3.181	90.120	6049.99	0.00 S	0.74 E	0.74
12.00						
6060.00	4.381	90.120	6059.96	0.00 S	1.39 E	1.39
12.00						
6070.00	5.582	90.120	6069.93	0.00 S	2.26 E	2.26
12.00						
6080.00	6.782	90.120	6079.87	0.01 S	3.34 E	3.34
12.00						
6090.00	7.983	90.120	6089.79	0.01 S	4.62 E	4.62
12.00						
6100.00	9.183	90.120	6099.67	0.01 S	6.12 E	6.12
12.00						
6110.00	10.383	90.120	6109.53	0.02 S	7.82 E	7.82
12.00						
6120.00	11.584	90.120	6119.34	0.02 S	9.72 E	9.72
12.00						
6130.00	12.784	90.120	6129.12	0.02 S	11.83 E	11.83
12.00						
6140.00	13.984	90.120	6138.85	0.03 S	14.15 E	14.15
12.00						
6150.00	15.185	90.120	6148.52	0.03 S	16.66 E	16.67
12.00						
6160.00	16.385	90.120	6158.15	0.04 S	19.39 E	19.39
12.00						
6170.00	17.586	90.120	6167.71	0.05 S	22.31 E	22.31
12.00						
6180.00	18.786	90.120	6177.21	0.05 S	25.43 E	25.43
12.00						
6190.00	19.986	90.120	6186.64	0.06 S	28.75 E	28.75
12.00						
6200.00	21.187	90.120	6196.01	0.07 S	32.26 E	32.26
12.00						
6210.00	22.387	90.120	6205.29	0.08 S	35.97 E	35.97
12.00						
6220.00	23.588	90.120	6214.50	0.08 S	39.88 E	39.88
12.00						
6230.00	24.788	90.120	6223.62	0.09 S	43.98 E	43.98
12.00						
6240.00	25.988	90.120	6232.65	0.10 S	48.26 E	48.26
12.00						
6250.00	27.189	90.120	6241.59	0.11 S	52.74 E	52.74
12.00						

	Crow Flats 16 State #2H Lateral altPlan #1 12 Report 4-13-07					
6260.00	28.389	90.120	6250.44	0.12 S	57.40 E	57.40
12.00						
6270.00	29.590	90.120	6259.19	0.13 S	62.25 E	62.25
12.00						
6280.00	30.790	90.120	6267.83	0.14 S	67.28 E	67.28
12.00						
6290.00	31.990	90.120	6276.37	0.15 S	72.49 E	72.49
12.00						
6300.00	33.191	90.120	6284.79	0.16 S	77.87 E	77.87
12.00						
6310.00	34.391	90.120	6293.10	0.17 S	83.43 E	83.43
12.00						
6320.00	35.591	90.120	6301.30	0.19 S	89.17 E	89.17
12.00						
6330.00	36.792	90.120	6309.37	0.20 S	95.07 E	95.07
12.00						
6340.00	37.992	90.120	6317.31	0.21 S	101.14 E	101.14
12.00						
6350.00	39.193	90.120	6325.13	0.22 S	107.38 E	107.38
12.00						
6360.00	40.393	90.120	6332.81	0.24 S	113.78 E	113.78
12.00						
6370.00	41.593	90.120	6340.36	0.25 S	120.34 E	120.34
12.00						
6380.00	42.794	90.120	6347.77	0.27 S	127.06 E	127.06
12.00						
6390.00	43.994	90.120	6355.03	0.28 S	133.93 E	133.93
12.00						
6400.00	45.195	90.120	6362.15	0.30 S	140.95 E	140.95
12.00						
6410.00	46.395	90.120	6369.13	0.31 S	148.12 E	148.12
12.00						
6420.00	47.595	90.120	6375.95	0.33 S	155.43 E	155.43
12.00						
6430.00	48.796	90.120	6382.61	0.34 S	162.88 E	162.88
12.00						
6440.00	49.996	90.120	6389.12	0.36 S	170.48 E	170.48
12.00						
6450.00	51.196	90.120	6395.47	0.37 S	178.20 E	178.20
12.00						
6460.00	52.397	90.120	6401.65	0.39 S	186.06 E	186.06
12.00						
6470.00	53.597	90.120	6407.67	0.41 S	194.05 E	194.05
12.00						
6480.00	54.798	90.120	6413.52	0.42 S	202.16 E	202.16
12.00						
6490.00	55.998	90.120	6419.20	0.44 S	210.39 E	210.39
12.00						
6500.00	57.198	90.120	6424.70	0.46 S	218.74 E	218.74
12.00						
6510.00	58.399	90.120	6430.03	0.48 S	227.20 E	227.20
12.00						
6520.00	59.599	90.120	6435.18	0.49 S	235.77 E	235.77
12.00						
6530.00	60.800	90.120	6440.15	0.51 S	244.45 E	244.45
12.00						
6540.00	62.000	90.120	6444.94	0.53 S	253.23 E	253.23
12.00						
6550.00	63.200	90.120	6449.54	0.55 S	262.10 E	262.10
12.00						
6560.00	64.401	90.120	6453.96	0.57 S	271.08 E	271.08
12.00						
6570.00	65.601	90.120	6458.18	0.59 S	280.14 E	280.14

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12.00						
6580.00	66.801	90.120	6462.22	0.61 S	289.29 E	289.29
12.00						
6590.00	68.002	90.120	6466.06	0.63 S	298.52 E	298.52
12.00						
6600.00	69.202	90.120	6469.71	0.64 S	307.83 E	307.83
12.00						
6610.00	70.403	90.120	6473.16	0.66 S	317.22 E	317.22
12.00						
6620.00	71.603	90.120	6476.42	0.68 S	326.67 E	326.67
12.00						
6630.00	72.803	90.120	6479.47	0.70 S	336.19 E	336.19
12.00						
6640.00	74.004	90.120	6482.33	0.72 S	345.78 E	345.78
12.00						
6650.00	75.204	90.120	6484.98	0.74 S	355.42 E	355.42
12.00						
6660.00	76.405	90.120	6487.44	0.76 S	365.11 E	365.11
12.00						
6670.00	77.605	90.120	6489.69	0.79 S	374.86 E	374.86
12.00						
6680.00	78.805	90.120	6491.73	0.81 S	384.64 E	384.64
12.00						
6690.00	80.006	90.120	6493.57	0.83 S	394.47 E	394.47
12.00						
6700.00	81.206	90.120	6495.20	0.85 S	404.34 E	404.34
12.00						
6710.00	82.406	90.120	6496.63	0.87 S	414.24 E	414.24
12.00						
6720.00	83.607	90.120	6497.84	0.89 S	424.16 E	424.16
12.00						
6730.00	84.807	90.120	6498.85	0.91 S	434.11 E	434.11
12.00						
6740.00	86.008	90.120	6499.65	0.93 S	444.08 E	444.08
12.00						
6750.00	87.208	90.120	6500.24	0.95 S	454.06 E	454.06
12.00						
6760.00	88.408	90.120	6500.63	0.97 S	464.05 E	464.05
12.00						
6764.01	88.890	90.120	6499.70	0.98 S	467.06 E	467.07
12.00						
6770.00	88.890	90.120	6499.82	0.99 S	473.05 E	473.05
0.00						
6780.00	88.890	90.120	6500.01	1.01 S	483.05 E	483.05
0.00						
6790.00	88.890	90.120	6500.21	1.03 S	493.05 E	493.05
0.00						
6800.00	88.890	90.120	6500.40	1.05 S	503.05 E	503.05
0.00						
6810.00	88.890	90.120	6500.59	1.07 S	513.04 E	513.04
0.00						
6820.00	88.890	90.120	6500.79	1.10 S	523.04 E	523.04
0.00						
6830.00	88.890	90.120	6500.98	1.12 S	533.04 E	533.04
0.00						
6840.00	88.890	90.120	6501.17	1.14 S	543.04 E	543.04
0.00						
6850.00	88.890	90.120	6501.37	1.16 S	553.04 E	553.04
0.00						
6860.00	88.890	90.120	6501.56	1.18 S	563.03 E	563.04
0.00						
6870.00	88.890	90.120	6501.76	1.20 S	573.03 E	573.03
0.00						

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6880.00	88.890	90.120	6501.95	1.22 S	583.03 E	583.03
0.00						
6890.00	88.890	90.120	6502.14	1.24 S	593.03 E	593.03
0.00						
6900.00	88.890	90.120	6502.34	1.26 S	603.03 E	603.03
0.00						
6910.00	88.890	90.120	6502.53	1.28 S	613.02 E	613.03
0.00						
6920.00	88.890	90.120	6502.72	1.30 S	623.02 E	623.02
0.00						
6930.00	88.890	90.120	6502.92	1.33 S	633.02 E	633.02
0.00						
6940.00	88.890	90.120	6503.11	1.35 S	643.02 E	643.02
0.00						
6950.00	88.890	90.120	6503.31	1.37 S	653.02 E	653.02
0.00						
6960.00	88.890	90.120	6503.50	1.39 S	663.01 E	663.02
0.00						
6970.00	88.890	90.120	6503.69	1.41 S	673.01 E	673.01
0.00						
6980.00	88.890	90.120	6503.89	1.43 S	683.01 E	683.01
0.00						
6990.00	88.890	90.120	6504.08	1.45 S	693.01 E	693.01
0.00						
7000.00	88.890	90.120	6504.27	1.47 S	703.01 E	703.01
0.00						
7010.00	88.890	90.120	6504.47	1.49 S	713.01 E	713.01
0.00						
7020.00	88.890	90.120	6504.66	1.51 S	723.00 E	723.01
0.00						
7030.00	88.890	90.120	6504.86	1.54 S	733.00 E	733.00
0.00						
7040.00	88.890	90.120	6505.05	1.56 S	743.00 E	743.00
0.00						
7050.00	88.890	90.120	6505.24	1.58 S	753.00 E	753.00
0.00						
7060.00	88.890	90.120	6505.44	1.60 S	763.00 E	763.00
0.00						
7070.00	88.890	90.120	6505.63	1.62 S	772.99 E	773.00
0.00						
7080.00	88.890	90.120	6505.82	1.64 S	782.99 E	782.99
0.00						
7090.00	88.890	90.120	6506.02	1.66 S	792.99 E	792.99
0.00						
7100.00	88.890	90.120	6506.21	1.68 S	802.99 E	802.99
0.00						
7110.00	88.890	90.120	6506.40	1.70 S	812.99 E	812.99
0.00						
7120.00	88.890	90.120	6506.60	1.72 S	822.98 E	822.99
0.00						
7130.00	88.890	90.120	6506.79	1.74 S	832.98 E	832.98
0.00						
7140.00	88.890	90.120	6506.99	1.77 S	842.98 E	842.98
0.00						
7150.00	88.890	90.120	6507.18	1.79 S	852.98 E	852.98
0.00						
7160.00	88.890	90.120	6507.37	1.81 S	862.98 E	862.98
0.00						
7170.00	88.890	90.120	6507.57	1.83 S	872.98 E	872.98
0.00						
7180.00	88.890	90.120	6507.76	1.85 S	882.97 E	882.98
0.00						
7190.00	88.890	90.120	6507.95	1.87 S	892.97 E	892.97

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0.00						
7200.00	88.890	90.120	6508.15	1.89 S	902.97 E	902.97
0.00						
7210.00	88.890	90.120	6508.34	1.91 S	912.97 E	912.97
0.00						
7220.00	88.890	90.120	6508.54	1.93 S	922.97 E	922.97
0.00						
7230.00	88.890	90.120	6508.73	1.95 S	932.96 E	932.97
0.00						
7240.00	88.890	90.120	6508.92	1.97 S	942.96 E	942.96
0.00						
7250.00	88.890	90.120	6509.12	2.00 S	952.96 E	952.96
0.00						
7260.00	88.890	90.120	6509.31	2.02 S	962.96 E	962.96
0.00						
7270.00	88.890	90.120	6509.50	2.04 S	972.96 E	972.96
0.00						
7280.00	88.890	90.120	6509.70	2.06 S	982.95 E	982.96
0.00						
7290.00	88.890	90.120	6509.89	2.08 S	992.95 E	992.95
0.00						
7300.00	88.890	90.120	6510.09	2.10 S	1002.95 E	1002.95
0.00						
7310.00	88.890	90.120	6510.28	2.12 S	1012.95 E	1012.95
0.00						
7320.00	88.890	90.120	6510.47	2.14 S	1022.95 E	1022.95
0.00						
7330.00	88.890	90.120	6510.67	2.16 S	1032.94 E	1032.95
0.00						
7340.00	88.890	90.120	6510.86	2.18 S	1042.94 E	1042.95
0.00						
7350.00	88.890	90.120	6511.05	2.21 S	1052.94 E	1052.94
0.00						
7360.00	88.890	90.120	6511.25	2.23 S	1062.94 E	1062.94
0.00						
7370.00	88.890	90.120	6511.44	2.25 S	1072.94 E	1072.94
0.00						
7380.00	88.890	90.120	6511.64	2.27 S	1082.94 E	1082.94
0.00						
7390.00	88.890	90.120	6511.83	2.29 S	1092.93 E	1092.94
0.00						
7400.00	88.890	90.120	6512.02	2.31 S	1102.93 E	1102.93
0.00						
7410.00	88.890	90.120	6512.22	2.33 S	1112.93 E	1112.93
0.00						
7420.00	88.890	90.120	6512.41	2.35 S	1122.93 E	1122.93
0.00						
7430.00	88.890	90.120	6512.60	2.37 S	1132.93 E	1132.93
0.00						
7440.00	88.890	90.120	6512.80	2.39 S	1142.92 E	1142.93
0.00						
7450.00	88.890	90.120	6512.99	2.41 S	1152.92 E	1152.92
0.00						
7460.00	88.890	90.120	6513.19	2.44 S	1162.92 E	1162.92
0.00						
7470.00	88.890	90.120	6513.38	2.46 S	1172.92 E	1172.92
0.00						
7480.00	88.890	90.120	6513.57	2.48 S	1182.92 E	1182.92
0.00						
7490.00	88.890	90.120	6513.77	2.50 S	1192.91 E	1192.92
0.00						
7500.00	88.890	90.120	6513.96	2.52 S	1202.91 E	1202.92
0.00						

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7510.00	88.890	90.120	6514.15	2.54 S	1212.91 E	1212.91
0.00						
7520.00	88.890	90.120	6514.35	2.56 S	1222.91 E	1222.91
0.00						
7530.00	88.890	90.120	6514.54	2.58 S	1232.91 E	1232.91
0.00						
7540.00	88.890	90.120	6514.73	2.60 S	1242.90 E	1242.91
0.00						
7550.00	88.890	90.120	6514.93	2.62 S	1252.90 E	1252.91
0.00						
7560.00	88.890	90.120	6515.12	2.65 S	1262.90 E	1262.90
0.00						
7570.00	88.890	90.120	6515.32	2.67 S	1272.90 E	1272.90
0.00						
7580.00	88.890	90.120	6515.51	2.69 S	1282.90 E	1282.90
0.00						
7590.00	88.890	90.120	6515.70	2.71 S	1292.90 E	1292.90
0.00						
7600.00	88.890	90.120	6515.90	2.73 S	1302.89 E	1302.90
0.00						
7610.00	88.890	90.120	6516.09	2.75 S	1312.89 E	1312.89
0.00						
7620.00	88.890	90.120	6516.28	2.77 S	1322.89 E	1322.89
0.00						
7630.00	88.890	90.120	6516.48	2.79 S	1332.89 E	1332.89
0.00						
7640.00	88.890	90.120	6516.67	2.81 S	1342.89 E	1342.89
0.00						
7650.00	88.890	90.120	6516.87	2.83 S	1352.88 E	1352.89
0.00						
7660.00	88.890	90.120	6517.06	2.85 S	1362.88 E	1362.89
0.00						
7670.00	88.890	90.120	6517.25	2.88 S	1372.88 E	1372.88
0.00						
7680.00	88.890	90.120	6517.45	2.90 S	1382.88 E	1382.88
0.00						
7690.00	88.890	90.120	6517.64	2.92 S	1392.88 E	1392.88
0.00						
7700.00	88.890	90.120	6517.83	2.94 S	1402.87 E	1402.88
0.00						
7710.00	88.890	90.120	6518.03	2.96 S	1412.87 E	1412.88
0.00						
7720.00	88.890	90.120	6518.22	2.98 S	1422.87 E	1422.87
0.00						
7730.00	88.890	90.120	6518.42	3.00 S	1432.87 E	1432.87
0.00						
7740.00	88.890	90.120	6518.61	3.02 S	1442.87 E	1442.87
0.00						
7750.00	88.890	90.120	6518.80	3.04 S	1452.86 E	1452.87
0.00						
7760.00	88.890	90.120	6519.00	3.06 S	1462.86 E	1462.87
0.00						
7770.00	88.890	90.120	6519.19	3.08 S	1472.86 E	1472.86
0.00						
7780.00	88.890	90.120	6519.38	3.11 S	1482.86 E	1482.86
0.00						
7790.00	88.890	90.120	6519.58	3.13 S	1492.86 E	1492.86
0.00						
7800.00	88.890	90.120	6519.77	3.15 S	1502.86 E	1502.86
0.00						
7810.00	88.890	90.120	6519.97	3.17 S	1512.85 E	1512.86
0.00						
7820.00	88.890	90.120	6520.16	3.19 S	1522.85 E	1522.86

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0.00						
7830.00	88.890	90.120	6520.35	3.21 S	1532.85 E	1532.85
0.00						
7840.00	88.890	90.120	6520.55	3.23 S	1542.85 E	1542.85
0.00						
7850.00	88.890	90.120	6520.74	3.25 S	1552.85 E	1552.85
0.00						
7860.00	88.890	90.120	6520.93	3.27 S	1562.84 E	1562.85
0.00						
7870.00	88.890	90.120	6521.13	3.29 S	1572.84 E	1572.85
0.00						
7880.00	88.890	90.120	6521.32	3.32 S	1582.84 E	1582.84
0.00						
7890.00	88.890	90.120	6521.52	3.34 S	1592.84 E	1592.84
0.00						
7900.00	88.890	90.120	6521.71	3.36 S	1602.84 E	1602.84
0.00						
7910.00	88.890	90.120	6521.90	3.38 S	1612.83 E	1612.84
0.00						
7920.00	88.890	90.120	6522.10	3.40 S	1622.83 E	1622.84
0.00						
7930.00	88.890	90.120	6522.29	3.42 S	1632.83 E	1632.83
0.00						
7940.00	88.890	90.120	6522.48	3.44 S	1642.83 E	1642.83
0.00						
7950.00	88.890	90.120	6522.68	3.46 S	1652.83 E	1652.83
0.00						
7960.00	88.890	90.120	6522.87	3.48 S	1662.83 E	1662.83
0.00						
7970.00	88.890	90.120	6523.06	3.50 S	1672.82 E	1672.83
0.00						
7980.00	88.890	90.120	6523.26	3.52 S	1682.82 E	1682.82
0.00						
7990.00	88.890	90.120	6523.45	3.55 S	1692.82 E	1692.82
0.00						
8000.00	88.890	90.120	6523.65	3.57 S	1702.82 E	1702.82
0.00						
8010.00	88.890	90.120	6523.84	3.59 S	1712.82 E	1712.82
0.00						
8020.00	88.890	90.120	6524.03	3.61 S	1722.81 E	1722.82
0.00						
8030.00	88.890	90.120	6524.23	3.63 S	1732.81 E	1732.82
0.00						
8040.00	88.890	90.120	6524.42	3.65 S	1742.81 E	1742.81
0.00						
8050.00	88.890	90.120	6524.61	3.67 S	1752.81 E	1752.81
0.00						
8060.00	88.890	90.120	6524.81	3.69 S	1762.81 E	1762.81
0.00						
8070.00	88.890	90.120	6525.00	3.71 S	1772.80 E	1772.81
0.00						
8080.00	88.890	90.120	6525.20	3.73 S	1782.80 E	1782.81
0.00						
8090.00	88.890	90.120	6525.39	3.75 S	1792.80 E	1792.80
0.00						
8100.00	88.890	90.120	6525.58	3.78 S	1802.80 E	1802.80
0.00						
8110.00	88.890	90.120	6525.78	3.80 S	1812.80 E	1812.80
0.00						
8120.00	88.890	90.120	6525.97	3.82 S	1822.79 E	1822.80
0.00						
8130.00	88.890	90.120	6526.16	3.84 S	1832.79 E	1832.80
0.00						

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8140.00	88.890	90.120	6526.36	3.86 S	1842.79 E	1842.79
0.00						
8150.00	88.890	90.120	6526.55	3.88 S	1852.79 E	1852.79
0.00						
8160.00	88.890	90.120	6526.75	3.90 S	1862.79 E	1862.79
0.00						
8170.00	88.890	90.120	6526.94	3.92 S	1872.79 E	1872.79
0.00						
8180.00	88.890	90.120	6527.13	3.94 S	1882.78 E	1882.79
0.00						
8190.00	88.890	90.120	6527.33	3.96 S	1892.78 E	1892.79
0.00						
8200.00	88.890	90.120	6527.52	3.99 S	1902.78 E	1902.78
0.00						
8210.00	88.890	90.120	6527.71	4.01 S	1912.78 E	1912.78
0.00						
8220.00	88.890	90.120	6527.91	4.03 S	1922.78 E	1922.78
0.00						
8230.00	88.890	90.120	6528.10	4.05 S	1932.77 E	1932.78
0.00						
8240.00	88.890	90.120	6528.30	4.07 S	1942.77 E	1942.78
0.00						
8250.00	88.890	90.120	6528.49	4.09 S	1952.77 E	1952.77
0.00						
8260.00	88.890	90.120	6528.68	4.11 S	1962.77 E	1962.77
0.00						
8270.00	88.890	90.120	6528.88	4.13 S	1972.77 E	1972.77
0.00						
8280.00	88.890	90.120	6529.07	4.15 S	1982.76 E	1982.77
0.00						
8290.00	88.890	90.120	6529.26	4.17 S	1992.76 E	1992.77
0.00						
8300.00	88.890	90.120	6529.46	4.19 S	2002.76 E	2002.76
0.00						
8310.00	88.890	90.120	6529.65	4.22 S	2012.76 E	2012.76
0.00						
8320.00	88.890	90.120	6529.84	4.24 S	2022.76 E	2022.76
0.00						
8330.00	88.890	90.120	6530.04	4.26 S	2032.75 E	2032.76
0.00						
8340.00	88.890	90.120	6530.23	4.28 S	2042.75 E	2042.76
0.00						
8350.00	88.890	90.120	6530.43	4.30 S	2052.75 E	2052.76
0.00						
8360.00	88.890	90.120	6530.62	4.32 S	2062.75 E	2062.75
0.00						
8370.00	88.890	90.120	6530.81	4.34 S	2072.75 E	2072.75
0.00						
8380.00	88.890	90.120	6531.01	4.36 S	2082.75 E	2082.75
0.00						
8390.00	88.890	90.120	6531.20	4.38 S	2092.74 E	2092.75
0.00						
8400.00	88.890	90.120	6531.39	4.40 S	2102.74 E	2102.75
0.00						
8410.00	88.890	90.120	6531.59	4.42 S	2112.74 E	2112.74
0.00						
8420.00	88.890	90.120	6531.78	4.45 S	2122.74 E	2122.74
0.00						
8430.00	88.890	90.120	6531.98	4.47 S	2132.74 E	2132.74
0.00						
8440.00	88.890	90.120	6532.17	4.49 S	2142.73 E	2142.74
0.00						
8450.00	88.890	90.120	6532.36	4.51 S	2152.73 E	2152.74

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0.00						
8460.00	88.890	90.120	6532.56	4.53 S	2162.73 E	2162.73
0.00						
8470.00	88.890	90.120	6532.75	4.55 S	2172.73 E	2172.73
0.00						
8480.00	88.890	90.120	6532.94	4.57 S	2182.73 E	2182.73
0.00						
8490.00	88.890	90.120	6533.14	4.59 S	2192.72 E	2192.73
0.00						
8500.00	88.890	90.120	6533.33	4.61 S	2202.72 E	2202.73
0.00						
8510.00	88.890	90.120	6533.53	4.63 S	2212.72 E	2212.73
0.00						
8520.00	88.890	90.120	6533.72	4.66 S	2222.72 E	2222.72
0.00						
8530.00	88.890	90.120	6533.91	4.68 S	2232.72 E	2232.72
0.00						
8540.00	88.890	90.120	6534.11	4.70 S	2242.71 E	2242.72
0.00						
8550.00	88.890	90.120	6534.30	4.72 S	2252.71 E	2252.72
0.00						
8560.00	88.890	90.120	6534.49	4.74 S	2262.71 E	2262.72
0.00						
8570.00	88.890	90.120	6534.69	4.76 S	2272.71 E	2272.71
0.00						
8580.00	88.890	90.120	6534.88	4.78 S	2282.71 E	2282.71
0.00						
8590.00	88.890	90.120	6535.08	4.80 S	2292.71 E	2292.71
0.00						
8600.00	88.890	90.120	6535.27	4.82 S	2302.70 E	2302.71
0.00						
8610.00	88.890	90.120	6535.46	4.84 S	2312.70 E	2312.71
0.00						
8620.00	88.890	90.120	6535.66	4.86 S	2322.70 E	2322.70
0.00						
8630.00	88.890	90.120	6535.85	4.89 S	2332.70 E	2332.70
0.00						
8640.00	88.890	90.120	6536.04	4.91 S	2342.70 E	2342.70
0.00						
8650.00	88.890	90.120	6536.24	4.93 S	2352.69 E	2352.70
0.00						
8660.00	88.890	90.120	6536.43	4.95 S	2362.69 E	2362.70
0.00						
8670.00	88.890	90.120	6536.63	4.97 S	2372.69 E	2372.70
0.00						
8680.00	88.890	90.120	6536.82	4.99 S	2382.69 E	2382.69
0.00						
8690.00	88.890	90.120	6537.01	5.01 S	2392.69 E	2392.69
0.00						
8700.00	88.890	90.120	6537.21	5.03 S	2402.68 E	2402.69
0.00						
8710.00	88.890	90.120	6537.40	5.05 S	2412.68 E	2412.69
0.00						
8720.00	88.890	90.120	6537.59	5.07 S	2422.68 E	2422.69
0.00						
8730.00	88.890	90.120	6537.79	5.09 S	2432.68 E	2432.68
0.00						
8740.00	88.890	90.120	6537.98	5.12 S	2442.68 E	2442.68
0.00						
8750.00	88.890	90.120	6538.17	5.14 S	2452.68 E	2452.68
0.00						
8760.00	88.890	90.120	6538.37	5.16 S	2462.67 E	2462.68
0.00						

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8770.00	88.890	90.120	6538.56	5.18 S	2472.67 E	2472.68	
0.00							
8780.00	88.890	90.120	6538.76	5.20 S	2482.67 E	2482.67	
0.00							
8790.00	88.890	90.120	6538.95	5.22 S	2492.67 E	2492.67	
0.00							
8800.00	88.890	90.120	6539.14	5.24 S	2502.67 E	2502.67	
0.00							
8810.00	88.890	90.120	6539.34	5.26 S	2512.66 E	2512.67	
0.00							
8820.00	88.890	90.120	6539.53	5.28 S	2522.66 E	2522.67	
0.00							
8830.00	88.890	90.120	6539.72	5.30 S	2532.66 E	2532.67	
0.00							
8840.00	88.890	90.120	6539.92	5.33 S	2542.66 E	2542.66	
0.00							
8850.00	88.890	90.120	6540.11	5.35 S	2552.66 E	2552.66	
0.00							
8860.00	88.890	90.120	6540.31	5.37 S	2562.65 E	2562.66	
0.00							
8870.00	88.890	90.120	6540.50	5.39 S	2572.65 E	2572.66	
0.00							
8880.00	88.890	90.120	6540.69	5.41 S	2582.65 E	2582.66	
0.00							
8890.00	88.890	90.120	6540.89	5.43 S	2592.65 E	2592.65	
0.00							
8900.00	88.890	90.120	6541.08	5.45 S	2602.65 E	2602.65	
0.00							
8910.00	88.890	90.120	6541.27	5.47 S	2612.64 E	2612.65	
0.00							
8920.00	88.890	90.120	6541.47	5.49 S	2622.64 E	2622.65	
0.00							
8930.00	88.890	90.120	6541.66	5.51 S	2632.64 E	2632.65	
0.00							
8940.00	88.890	90.120	6541.86	5.53 S	2642.64 E	2642.64	
0.00							
8950.00	88.890	90.120	6542.05	5.56 S	2652.64 E	2652.64	
0.00							
8960.00	88.890	90.120	6542.24	5.58 S	2662.64 E	2662.64	
0.00							
8970.00	88.890	90.120	6542.44	5.60 S	2672.63 E	2672.64	
0.00							
8980.00	88.890	90.120	6542.63	5.62 S	2682.63 E	2682.64	
0.00							
8990.00	88.890	90.120	6542.82	5.64 S	2692.63 E	2692.64	
0.00							
9000.00	88.890	90.120	6543.02	5.66 S	2702.63 E	2702.63	
0.00							
9010.00	88.890	90.120	6543.21	5.68 S	2712.63 E	2712.63	
0.00							
9020.00	88.890	90.120	6543.41	5.70 S	2722.62 E	2722.63	
0.00							
9030.00	88.890	90.120	6543.60	5.72 S	2732.62 E	2732.63	
0.00							
9040.00	88.890	90.120	6543.79	5.74 S	2742.62 E	2742.63	
0.00							
9050.00	88.890	90.120	6543.99	5.77 S	2752.62 E	2752.62	
0.00							
9060.00	88.890	90.120	6544.18	5.79 S	2762.62 E	2762.62	
0.00							
9070.00	88.890	90.120	6544.37	5.81 S	2772.61 E	2772.62	
0.00							
9080.00	88.890	90.120	6544.57	5.83 S	2782.61 E	2782.62	

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0.00						
9090.00	88.890	90.120	6544.76	5.85 S	2792.61 E	2792.62
0.00						
9100.00	88.890	90.120	6544.96	5.87 S	2802.61 E	2802.61
0.00						
9110.00	88.890	90.120	6545.15	5.89 S	2812.61 E	2812.61
0.00						
9120.00	88.890	90.120	6545.34	5.91 S	2822.60 E	2822.61
0.00						
9130.00	88.890	90.120	6545.54	5.93 S	2832.60 E	2832.61
0.00						
9140.00	88.890	90.120	6545.73	5.95 S	2842.60 E	2842.61
0.00						
9150.00	88.890	90.120	6545.92	5.97 S	2852.60 E	2852.61
0.00						
9160.00	88.890	90.120	6546.12	6.00 S	2862.60 E	2862.60
0.00						
9170.00	88.890	90.120	6546.31	6.02 S	2872.60 E	2872.60
0.00						
9180.00	88.890	90.120	6546.50	6.04 S	2882.59 E	2882.60
0.00						
9190.00	88.890	90.120	6546.70	6.06 S	2892.59 E	2892.60
0.00						
9200.00	88.890	90.120	6546.89	6.08 S	2902.59 E	2902.60
0.00						
9210.00	88.890	90.120	6547.09	6.10 S	2912.59 E	2912.59
0.00						
9220.00	88.890	90.120	6547.28	6.12 S	2922.59 E	2922.59
0.00						
9230.00	88.890	90.120	6547.47	6.14 S	2932.58 E	2932.59
0.00						
9240.00	88.890	90.120	6547.67	6.16 S	2942.58 E	2942.59
0.00						
9250.00	88.890	90.120	6547.86	6.18 S	2952.58 E	2952.59
0.00						
9260.00	88.890	90.120	6548.05	6.20 S	2962.58 E	2962.58
0.00						
9270.00	88.890	90.120	6548.25	6.23 S	2972.58 E	2972.58
0.00						
9280.00	88.890	90.120	6548.44	6.25 S	2982.57 E	2982.58
0.00						
9290.00	88.890	90.120	6548.64	6.27 S	2992.57 E	2992.58
0.00						
9300.00	88.890	90.120	6548.83	6.29 S	3002.57 E	3002.58
0.00						
9310.00	88.890	90.120	6549.02	6.31 S	3012.57 E	3012.58
0.00						
9320.00	88.890	90.120	6549.22	6.33 S	3022.57 E	3022.57
0.00						
9330.00	88.890	90.120	6549.41	6.35 S	3032.57 E	3032.57
0.00						
9340.00	88.890	90.120	6549.60	6.37 S	3042.56 E	3042.57
0.00						
9350.00	88.890	90.120	6549.80	6.39 S	3052.56 E	3052.57
0.00						
9360.00	88.890	90.120	6549.99	6.41 S	3062.56 E	3062.57
0.00						
9370.00	88.890	90.120	6550.19	6.44 S	3072.56 E	3072.56
0.00						
9380.00	88.890	90.120	6550.38	6.46 S	3082.56 E	3082.56
0.00						
9390.00	88.890	90.120	6550.57	6.48 S	3092.55 E	3092.56
0.00						

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9400.00	88.890	90.120	6550.77	6.50 S	3102.55 E	3102.56
0.00						
9410.00	88.890	90.120	6550.96	6.52 S	3112.55 E	3112.56
0.00						
9420.00	88.890	90.120	6551.15	6.54 S	3122.55 E	3122.55
0.00						
9430.00	88.890	90.120	6551.35	6.56 S	3132.55 E	3132.55
0.00						
9440.00	88.890	90.120	6551.54	6.58 S	3142.54 E	3142.55
0.00						
9450.00	88.890	90.120	6551.74	6.60 S	3152.54 E	3152.55
0.00						
9460.00	88.890	90.120	6551.93	6.62 S	3162.54 E	3162.55
0.00						
9470.00	88.890	90.120	6552.12	6.64 S	3172.54 E	3172.55
0.00						
9480.00	88.890	90.120	6552.32	6.67 S	3182.54 E	3182.54
0.00						
9490.00	88.890	90.120	6552.51	6.69 S	3192.53 E	3192.54
0.00						
9500.00	88.890	90.120	6552.70	6.71 S	3202.53 E	3202.54
0.00						
9510.00	88.890	90.120	6552.90	6.73 S	3212.53 E	3212.54
0.00						
9520.00	88.890	90.120	6553.09	6.75 S	3222.53 E	3222.54
0.00						
9530.00	88.890	90.120	6553.29	6.77 S	3232.53 E	3232.53
0.00						
9540.00	88.890	90.120	6553.48	6.79 S	3242.53 E	3242.53
0.00						
9550.00	88.890	90.120	6553.67	6.81 S	3252.52 E	3252.53
0.00						
9560.00	88.890	90.120	6553.87	6.83 S	3262.52 E	3262.53
0.00						
9570.00	88.890	90.120	6554.06	6.85 S	3272.52 E	3272.53
0.00						
9580.00	88.890	90.120	6554.25	6.87 S	3282.52 E	3282.52
0.00						
9590.00	88.890	90.120	6554.45	6.90 S	3292.52 E	3292.52
0.00						
9600.00	88.890	90.120	6554.64	6.92 S	3302.51 E	3302.52
0.00						
9610.00	88.890	90.120	6554.83	6.94 S	3312.51 E	3312.52
0.00						
9620.00	88.890	90.120	6555.03	6.96 S	3322.51 E	3322.52
0.00						
9630.00	88.890	90.120	6555.22	6.98 S	3332.51 E	3332.52
0.00						
9640.00	88.890	90.120	6555.42	7.00 S	3342.51 E	3342.51
0.00						
9650.00	88.890	90.120	6555.61	7.02 S	3352.50 E	3352.51
0.00						
9660.00	88.890	90.120	6555.80	7.04 S	3362.50 E	3362.51
0.00						
9670.00	88.890	90.120	6556.00	7.06 S	3372.50 E	3372.51
0.00						
9680.00	88.890	90.120	6556.19	7.08 S	3382.50 E	3382.51
0.00						
9690.00	88.890	90.120	6556.38	7.11 S	3392.50 E	3392.50
0.00						
9700.00	88.890	90.120	6556.58	7.13 S	3402.49 E	3402.50
0.00						
9710.00	88.890	90.120	6556.77	7.15 S	3412.49 E	3412.50

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0.00						
9720.00	88.890	90.120	6556.97	7.17 S	3422.49 E	3422.50
0.00						
9730.00	88.890	90.120	6557.16	7.19 S	3432.49 E	3432.50
0.00						
9740.00	88.890	90.120	6557.35	7.21 S	3442.49 E	3442.49
0.00						
9750.00	88.890	90.120	6557.55	7.23 S	3452.49 E	3452.49
0.00						
9760.00	88.890	90.120	6557.74	7.25 S	3462.48 E	3462.49
0.00						
9770.00	88.890	90.120	6557.93	7.27 S	3472.48 E	3472.49
0.00						
9780.00	88.890	90.120	6558.13	7.29 S	3482.48 E	3482.49
0.00						
9790.00	88.890	90.120	6558.32	7.31 S	3492.48 E	3492.49
0.00						
9800.00	88.890	90.120	6558.52	7.34 S	3502.48 E	3502.48
0.00						
9810.00	88.890	90.120	6558.71	7.36 S	3512.47 E	3512.48
0.00						
9820.00	88.890	90.120	6558.90	7.38 S	3522.47 E	3522.48
0.00						
9830.00	88.890	90.120	6559.10	7.40 S	3532.47 E	3532.48
0.00						
9840.00	88.890	90.120	6559.29	7.42 S	3542.47 E	3542.48
0.00						
9850.00	88.890	90.120	6559.48	7.44 S	3552.47 E	3552.47
0.00						
9860.00	88.890	90.120	6559.68	7.46 S	3562.46 E	3562.47
0.00						
9870.00	88.890	90.120	6559.87	7.48 S	3572.46 E	3572.47
0.00						
9880.00	88.890	90.120	6560.07	7.50 S	3582.46 E	3582.47
0.00						
9890.00	88.890	90.120	6560.26	7.52 S	3592.46 E	3592.47
0.00						
9900.00	88.890	90.120	6560.45	7.54 S	3602.46 E	3602.46
0.00						
9910.00	88.890	90.120	6560.65	7.57 S	3612.45 E	3612.46
0.00						
9920.00	88.890	90.120	6560.84	7.59 S	3622.45 E	3622.46
0.00						
9930.00	88.890	90.120	6561.03	7.61 S	3632.45 E	3632.46
0.00						
9940.00	88.890	90.120	6561.23	7.63 S	3642.45 E	3642.46
0.00						
9950.00	88.890	90.120	6561.42	7.65 S	3652.45 E	3652.46
0.00						
9960.00	88.890	90.120	6561.61	7.67 S	3662.45 E	3662.45
0.00						
9970.00	88.890	90.120	6561.81	7.69 S	3672.44 E	3672.45
0.00						
9980.00	88.890	90.120	6562.00	7.71 S	3682.44 E	3682.45
0.00						
9990.00	88.890	90.120	6562.20	7.73 S	3692.44 E	3692.45
0.00						
10000.00	88.890	90.120	6562.39	7.75 S	3702.44 E	3702.45
0.00						
10010.00	88.890	90.120	6562.58	7.78 S	3712.44 E	3712.44
0.00						
10020.00	88.890	90.120	6562.78	7.80 S	3722.43 E	3722.44
0.00						

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10030.00	88.890	90.120	6562.97	7.82 S	3732.43 E	3732.44
0.00						
10040.00	88.890	90.120	6563.16	7.84 S	3742.43 E	3742.44
0.00						
10050.00	88.890	90.120	6563.36	7.86 S	3752.43 E	3752.44
0.00						
10060.00	88.890	90.120	6563.55	7.88 S	3762.43 E	3762.43
0.00						
10070.00	88.890	90.120	6563.75	7.90 S	3772.42 E	3772.43
0.00						
10080.00	88.890	90.120	6563.94	7.92 S	3782.42 E	3782.43
0.00						
10090.00	88.890	90.120	6564.13	7.94 S	3792.42 E	3792.43
0.00						
10100.00	88.890	90.120	6564.33	7.96 S	3802.42 E	3802.43
0.00						
10110.00	88.890	90.120	6564.52	7.98 S	3812.42 E	3812.43
0.00						
10120.00	88.890	90.120	6564.71	8.01 S	3822.42 E	3822.42
0.00						
10130.00	88.890	90.120	6564.91	8.03 S	3832.41 E	3832.42
0.00						
10140.00	88.890	90.120	6565.10	8.05 S	3842.41 E	3842.42
0.00						
10150.00	88.890	90.120	6565.30	8.07 S	3852.41 E	3852.42
0.00						
10160.00	88.890	90.120	6565.49	8.09 S	3862.41 E	3862.42
0.00						
10170.00	88.890	90.120	6565.68	8.11 S	3872.41 E	3872.41
0.00						
10180.00	88.890	90.120	6565.88	8.13 S	3882.40 E	3882.41
0.00						
10190.00	88.890	90.120	6566.07	8.15 S	3892.40 E	3892.41
0.00						
10200.00	88.890	90.120	6566.26	8.17 S	3902.40 E	3902.41
0.00						
10210.00	88.890	90.120	6566.46	8.19 S	3912.40 E	3912.41
0.00						
10220.00	88.890	90.120	6566.65	8.22 S	3922.40 E	3922.40
0.00						
10230.00	88.890	90.120	6566.85	8.24 S	3932.39 E	3932.40
0.00						
10240.00	88.890	90.120	6567.04	8.26 S	3942.39 E	3942.40
0.00						
10250.00	88.890	90.120	6567.23	8.28 S	3952.39 E	3952.40
0.00						
10260.00	88.890	90.120	6567.43	8.30 S	3962.39 E	3962.40
0.00						
10270.00	88.890	90.120	6567.62	8.32 S	3972.39 E	3972.40
0.00						
10280.00	88.890	90.120	6567.81	8.34 S	3982.38 E	3982.39
0.00						
10290.00	88.890	90.120	6568.01	8.36 S	3992.38 E	3992.39
0.00						
10300.00	88.890	90.120	6568.20	8.38 S	4002.38 E	4002.39
0.00						
10310.00	88.890	90.120	6568.40	8.40 S	4012.38 E	4012.39
0.00						
10320.00	88.890	90.120	6568.59	8.42 S	4022.38 E	4022.39
0.00						
10330.00	88.890	90.120	6568.78	8.45 S	4032.38 E	4032.38
0.00						
10340.00	88.890	90.120	6568.98	8.47 S	4042.37 E	4042.38

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0.00						
10350.00	88.890	90.120	6569.17	8.49 S	4052.37 E	4052.38
0.00						
10360.00	88.890	90.120	6569.36	8.51 S	4062.37 E	4062.38
0.00						
10370.00	88.890	90.120	6569.56	8.53 S	4072.37 E	4072.38
0.00						
10380.00	88.890	90.120	6569.75	8.55 S	4082.37 E	4082.37
0.00						
10390.00	88.890	90.120	6569.94	8.57 S	4092.36 E	4092.37
0.00						
10400.00	88.890	90.120	6570.14	8.59 S	4102.36 E	4102.37
0.00						
10410.00	88.890	90.120	6570.33	8.61 S	4112.36 E	4112.37
0.00						
10420.00	88.890	90.120	6570.53	8.63 S	4122.36 E	4122.37
0.00						
10430.00	88.890	90.120	6570.72	8.65 S	4132.36 E	4132.37
0.00						
10440.00	88.890	90.120	6570.91	8.68 S	4142.35 E	4142.36
0.00						
10450.00	88.890	90.120	6571.11	8.70 S	4152.35 E	4152.36
0.00						
10460.00	88.890	90.120	6571.30	8.72 S	4162.35 E	4162.36
0.00						
10470.00	88.890	90.120	6571.49	8.74 S	4172.35 E	4172.36
0.00						
10480.00	88.890	90.120	6571.69	8.76 S	4182.35 E	4182.36
0.00						
10490.00	88.890	90.120	6571.88	8.78 S	4192.34 E	4192.35
0.00						
10500.00	88.890	90.120	6572.08	8.80 S	4202.34 E	4202.35
0.00						
10510.00	88.890	90.120	6572.27	8.82 S	4212.34 E	4212.35
0.00						
10520.00	88.890	90.120	6572.46	8.84 S	4222.34 E	4222.35
0.00						
10530.00	88.890	90.120	6572.66	8.86 S	4232.34 E	4232.35
0.00						
10540.00	88.890	90.120	6572.85	8.89 S	4242.34 E	4242.34
0.00						
10550.00	88.890	90.120	6573.04	8.91 S	4252.33 E	4252.34
0.00						
10560.00	88.890	90.120	6573.24	8.93 S	4262.33 E	4262.34
0.00						
10570.00	88.890	90.120	6573.43	8.95 S	4272.33 E	4272.34
0.00						
10580.00	88.890	90.120	6573.63	8.97 S	4282.33 E	4282.34
0.00						
10590.00	88.890	90.120	6573.82	8.99 S	4292.33 E	4292.34
0.00						
10600.00	88.890	90.120	6574.01	9.01 S	4302.32 E	4302.33
0.00						
10610.00	88.890	90.120	6574.21	9.03 S	4312.32 E	4312.33
0.00						
10620.00	88.890	90.120	6574.40	9.05 S	4322.32 E	4322.33
0.00						
10630.00	88.890	90.120	6574.59	9.07 S	4332.32 E	4332.33
0.00						
10640.00	88.890	90.120	6574.79	9.09 S	4342.32 E	4342.33
0.00						
10650.00	88.890	90.120	6574.98	9.12 S	4352.31 E	4352.32
0.00						

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10660.00	88.890	90.120	6575.18	9.14 S	4362.31 E	4362.32
0.00						
10670.00	88.890	90.120	6575.37	9.16 S	4372.31 E	4372.32
0.00						
10680.00	88.890	90.120	6575.56	9.18 S	4382.31 E	4382.32
0.00						
10690.00	88.890	90.120	6575.76	9.20 S	4392.31 E	4392.32
0.00						
10700.00	88.890	90.120	6575.95	9.22 S	4402.30 E	4402.31
0.00						
10710.00	88.890	90.120	6576.14	9.24 S	4412.30 E	4412.31
0.00						
10720.00	88.890	90.120	6576.34	9.26 S	4422.30 E	4422.31
0.00						
10730.00	88.890	90.120	6576.53	9.28 S	4432.30 E	4432.31
0.00						
10740.00	88.890	90.120	6576.73	9.30 S	4442.30 E	4442.31
0.00						
10750.00	88.890	90.120	6576.92	9.32 S	4452.30 E	4452.31
0.00						
10760.00	88.890	90.120	6577.11	9.35 S	4462.29 E	4462.30
0.00						
10770.00	88.890	90.120	6577.31	9.37 S	4472.29 E	4472.30
0.00						
10780.00	88.890	90.120	6577.50	9.39 S	4482.29 E	4482.30
0.00						
10790.00	88.890	90.120	6577.69	9.41 S	4492.29 E	4492.30
0.00						
10800.00	88.890	90.120	6577.89	9.43 S	4502.29 E	4502.30
0.00						
10810.00	88.890	90.120	6578.08	9.45 S	4512.28 E	4512.29
0.00						
10820.00	88.890	90.120	6578.27	9.47 S	4522.28 E	4522.29
0.00						
10830.00	88.890	90.120	6578.47	9.49 S	4532.28 E	4532.29
0.00						
10840.00	88.890	90.120	6578.66	9.51 S	4542.28 E	4542.29
0.00						
10850.00	88.890	90.120	6578.86	9.53 S	4552.28 E	4552.29
0.00						
10860.00	88.890	90.120	6579.05	9.56 S	4562.27 E	4562.28
0.00						
10870.00	88.890	90.120	6579.24	9.58 S	4572.27 E	4572.28
0.00						
10880.00	88.890	90.120	6579.44	9.60 S	4582.27 E	4582.28
0.00						
10890.00	88.890	90.120	6579.63	9.62 S	4592.27 E	4592.28
0.00						
10900.00	88.890	90.120	6579.82	9.64 S	4602.27 E	4602.28
0.00						
10909.06	88.890	90.120	6580.00	9.66 S	4611.32 E	4611.33
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to True North.
 Vertical depths are relative to WELL. Northings and Eastings are relative to well.
 The Dogleg Severity is in Degrees per 100 feet.
 Vertical Section is from slot and calculated along an Azimuth of 90.120° (True).
 Coordinate System is North American Datum 1983 US State Plane 1983, Texas North Central Zone.

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Central meridian is -98.500° .
Grid Convergence at Surface is -3.102° .

Based upon Minimum Curvature type calculations, at a Measured Depth of 10909.06ft.,
the Bottom Hole Displacement is 4611.33ft., in the Direction of 90.120° (True).