



Cimarex Energy Co., Inc.

Ward Co., Texas

Cimarex-University 18-38 #2H

Cimarex-University 18-38 #2H

Lateral

Plan: Plan #5

Standard Survey Report

13 December, 2007





Black Viper Energy

Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Cimarex-University 18-38 #2H
Project:	Ward Co., Texas	TVD Reference:	Rig KB @ 2812.00ft (Key Rig #92 KB Elev)
Site:	Cimarex-University 18-38 #2H	MD Reference:	Rig KB @ 2812.00ft (Key Rig #92 KB Elev)
Well:	Cimarex-University 18-38 #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #5	Database:	EDM 2003.14.1.0 Server DB

Project	Ward Co., Texas		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	Cimarex-University 18-38 #2H			
Site Position:		Northing:	715,197.40 ft	Latitude: 31° 35' 55.942 N
From:	Map	Easting:	1,070,805.16 ft	Longitude: 103° 19' 5.350 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence: -1.54 °

Well	Cimarex-University 18-38 #2H			
Well Position	+N/-S	0.00 ft	Northing:	715,197.40 ft
	+E/-W	0.00 ft	Easting:	1,070,805.16 ft
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft
			Ground Level:	2,796.00 ft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/20/2007	7.84	59.74	48,648

Design	Plan #5			
Audit Notes:				
Version:	ZERO	Phase:	PLAN	Tie On Depth: 12,243.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	218.33

Survey Tool Program	Date	12/13/2007		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
12,243.00	15,523.57	Plan #5 (Lateral)	MWD	MWD - Standard

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,243.00	93.10	217.80	11,462.75	-690.06	-594.02	909.72	0.00	0.00	0.00
Drop -0.53° / 100 :: Turn -0.25°									
12,300.00	92.80	217.66	11,459.82	-735.08	-628.85	966.64	0.58	-0.53	-0.25
Drop -3.60° / 100									
12,350.00	91.00	217.66	11,458.16	-774.64	-659.38	1,016.61	3.60	-3.60	0.00
EOD - Hold 91.0° Inc. :: 217.66° Azi.									
12,400.00	91.00	217.66	11,457.29	-814.22	-689.92	1,066.60	0.00	0.00	0.00
12,500.00	91.00	217.66	11,455.55	-893.37	-751.01	1,166.57	0.00	0.00	0.00
12,600.00	91.00	217.66	11,453.80	-972.52	-812.10	1,266.55	0.00	0.00	0.00
12,700.00	91.00	217.66	11,452.05	-1,051.68	-873.19	1,366.53	0.00	0.00	0.00
12,800.00	91.00	217.66	11,450.31	-1,130.83	-934.28	1,466.51	0.00	0.00	0.00
12,900.00	91.00	217.66	11,448.56	-1,209.98	-995.37	1,566.49	0.00	0.00	0.00
13,000.00	91.00	217.66	11,446.82	-1,289.14	-1,056.45	1,666.46	0.00	0.00	0.00



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Site:	Cimarex-University 18-38 #2H	MD Reference:	Rig KB @ 2812.00ft (Key Rig #92 KB Elev)
Well:	Cimarex-University 18-38 #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #5	Database:	EDM 2003.14.1.0 Server DB

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,100.00	91.00	217.66	11,445.07	-1,368.29	-1,117.54	1,766.44	0.00	0.00	0.00
13,200.00	91.00	217.66	11,443.32	-1,447.44	-1,178.63	1,866.42	0.00	0.00	0.00
13,300.00	91.00	217.66	11,441.57	-1,526.59	-1,239.72	1,966.40	0.00	0.00	0.00
13,400.00	91.00	217.66	11,439.83	-1,605.75	-1,300.81	2,066.38	0.00	0.00	0.00
13,500.00	91.00	217.66	11,438.08	-1,684.90	-1,361.89	2,166.35	0.00	0.00	0.00
13,600.00	91.00	217.66	11,436.33	-1,764.05	-1,422.98	2,266.33	0.00	0.00	0.00
13,700.00	91.00	217.66	11,434.58	-1,843.21	-1,484.07	2,366.31	0.00	0.00	0.00
13,800.00	91.00	217.66	11,432.84	-1,922.36	-1,545.16	2,466.29	0.00	0.00	0.00
13,900.00	91.00	217.66	11,431.09	-2,001.51	-1,606.25	2,566.27	0.00	0.00	0.00
14,000.00	91.00	217.66	11,429.34	-2,080.67	-1,667.33	2,666.24	0.00	0.00	0.00
14,100.00	91.00	217.66	11,427.59	-2,159.82	-1,728.42	2,766.22	0.00	0.00	0.00
14,200.00	91.00	217.66	11,425.84	-2,238.97	-1,789.51	2,866.20	0.00	0.00	0.00
14,300.00	91.00	217.66	11,424.09	-2,318.12	-1,850.60	2,966.18	0.00	0.00	0.00
14,400.00	91.00	217.66	11,422.34	-2,397.28	-1,911.69	3,066.16	0.00	0.00	0.00
14,500.00	91.00	217.66	11,420.60	-2,476.43	-1,972.78	3,166.13	0.00	0.00	0.00
14,600.00	91.00	217.66	11,418.85	-2,555.58	-2,033.86	3,266.11	0.00	0.00	0.00
14,700.00	91.00	217.66	11,417.10	-2,634.74	-2,094.95	3,366.09	0.00	0.00	0.00
14,800.00	91.00	217.66	11,415.35	-2,713.89	-2,156.04	3,466.07	0.00	0.00	0.00
14,900.00	91.00	217.66	11,413.60	-2,793.04	-2,217.13	3,566.05	0.00	0.00	0.00
15,000.00	91.00	217.66	11,411.85	-2,872.19	-2,278.22	3,666.02	0.00	0.00	0.00
15,100.00	91.00	217.66	11,410.09	-2,951.35	-2,339.30	3,766.00	0.00	0.00	0.00
15,200.00	91.00	217.66	11,408.34	-3,030.50	-2,400.39	3,865.98	0.00	0.00	0.00
15,300.00	91.00	217.66	11,406.59	-3,109.65	-2,461.48	3,965.96	0.00	0.00	0.00
15,400.00	91.00	217.66	11,404.84	-3,188.81	-2,522.57	4,065.94	0.00	0.00	0.00
15,500.00	91.00	217.66	11,403.09	-3,267.96	-2,583.66	4,165.91	0.00	0.00	0.00
15,523.57	91.00	217.66	11,402.87	-3,286.64	-2,598.03	4,189.48	0.03	-0.03	-0.01
PBHL#5[CU18-38#2H]									



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Site:	Cimarex-University 18-38 #2H	MD Reference:	Rig KB @ 2812.00ft (Key Rig #92 KB Elev)
Well:	Cimarex-University 18-38 #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #5	Database:	EDM 2003.14.1.0 Server DB

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL#4[CU18-38#2H] - plan misses by 30.58ft at 15523.57ft MD (11402.87 TVD, -3286.64 N, -2598.03 E) - Point	0.00	0.00	11,372.29	-3,286.64	-2,598.03	711,910.76	1,068,207.13	31° 35' 22.735 N	103° 19' 34.357 W
z1 - plan misses by 11498.86ft at 12243.00ft MD (11462.75 TVD, -690.06 N, -594.02 E) - Point	0.00	0.00	0.00	0.00	0.00	715,197.40	1,070,805.16	31° 35' 55.942 N	103° 19' 5.350 W
PBHL#5[CU18-38#2H] - plan hits target - Point	0.00	0.00	11,402.87	-3,286.64	-2,598.03	711,910.76	1,068,207.13	31° 35' 22.735 N	103° 19' 34.357 W
PBHL#2[CU18-38#2H] - plan misses by 31.45ft at 15523.28ft MD (11402.68 TVD, -3286.38 N, -2597.88 E) - Point	0.00	0.00	11,434.13	-3,286.64	-2,598.03	711,910.76	1,068,207.13	31° 35' 22.735 N	103° 19' 34.357 W
PBHL#3[CU18-38#2H] - plan misses by 22.13ft at 15523.37ft MD (11402.68 TVD, -3286.45 N, -2597.93 E) - Point	0.00	0.00	11,424.81	-3,286.64	-2,598.03	711,910.76	1,068,207.13	31° 35' 22.735 N	103° 19' 34.357 W
PBHL#1[CU18-38#2H] - plan misses by 1.19ft at 15523.56ft MD (11402.68 TVD, -3286.61 N, -2598.05 E) - Point	0.00	0.00	11,403.87	-3,286.64	-2,598.03	711,910.76	1,068,207.13	31° 35' 22.735 N	103° 19' 34.357 W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	11,469.50	T/ 'D' Sand	Sand	1.00	38.33	
	11,482.50	B/ 'D' Sand	Sand	1.00	38.33	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
12,243.00	11,462.75	-690.06	-594.02	Drop -0.53° / 100 :: Turn -0.25°	
12,300.00	11,459.82	-735.08	-628.85	Drop -3.60° / 100	
12,350.00	11,458.16	-774.64	-659.38	EOD - Hold 91.0° Inc. :: 217.66° Azi.	

Checked By: _____	Approved By: _____	Date: _____
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Ward Co. , Texas
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Measured Dogleg Depth Rate (ft) (°/100ft)	Incl .	Azi m.	Verti cal Depth (ft)	Northi ngs (ft)	Easti ngs (ft)	Verti cal Secti on (ft)
12250.00 0.00	93.063	217.783	11462.38	695.58 S	598.30 W	916.71
12260.00 0.58	93.011	217.758	11461.85	703.48 S	604.42 W	926.69
12270.00 0.58	92.958	217.734	11461.33	711.37 S	610.53 W	936.68
12280.00 0.58	92.905	217.709	11460.82	719.27 S	616.64 W	946.67
12290.00 0.58	92.853	217.685	11460.31	727.18 S	622.75 W	956.65
12300.00 0.58	92.800	217.660	11459.82	735.08 S	628.85 W	966.64
12310.00 3.60	92.440	217.660	11459.36	742.99 S	634.95 W	976.63
12320.00 3.60	92.080	217.660	11458.97	750.90 S	641.06 W	986.62
12330.00 3.60	91.720	217.660	11458.64	758.81 S	647.16 W	996.61
12340.00 3.60	91.360	217.660	11458.37	766.73 S	653.27 W	1006.61
12350.00 3.60	91.000	217.660	11458.16	774.64 S	659.38 W	1016.61
12360.00 0.00	91.000	217.660	11457.99	782.56 S	665.49 W	1026.60
12370.00 0.00	91.000	217.660	11457.81	790.47 S	671.60 W	1036.60
12380.00 0.00	91.000	217.660	11457.64	798.39 S	677.71 W	1046.60
12390.00 0.00	91.000	217.660	11457.47	806.30 S	683.82 W	1056.60
12400.00 0.00	91.000	217.660	11457.29	814.22 S	689.92 W	1066.60
12410.00 0.00	91.000	217.660	11457.12	822.13 S	696.03 W	1076.59
12420.00 0.00	91.000	217.660	11456.94	830.05 S	702.14 W	1086.59
12430.00 0.00	91.000	217.660	11456.77	837.96 S	708.25 W	1096.59
12440.00 0.00	91.000	217.660	11456.59	845.88 S	714.36 W	1106.59
12450.00 0.00	91.000	217.660	11456.42	853.79 S	720.47 W	1116.59
12460.00 0.00	91.000	217.660	11456.24	861.71 S	726.58 W	1126.58
12470.00 0.00	91.000	217.660	11456.07	869.63 S	732.69 W	1136.58
12480.00 0.00	91.000	217.660	11455.89	877.54 S	738.79 W	1146.58
12490.00 0.00	91.000	217.660	11455.72	885.46 S	744.90 W	1156.58

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12500.00	91.000	217.660	11455.55	893.37 S	751.01 W	1166.57
0.00						
12510.00	91.000	217.660	11455.37	901.29 S	757.12 W	1176.57
0.00						
12520.00	91.000	217.660	11455.20	909.20 S	763.23 W	1186.57
0.00						
12530.00	91.000	217.660	11455.02	917.12 S	769.34 W	1196.57
0.00						
12540.00	91.000	217.660	11454.85	925.03 S	775.45 W	1206.57
0.00						
12550.00	91.000	217.660	11454.67	932.95 S	781.56 W	1216.56
0.00						
12560.00	91.000	217.660	11454.50	940.86 S	787.67 W	1226.56
0.00						
12570.00	91.000	217.660	11454.32	948.78 S	793.77 W	1236.56
0.00						
12580.00	91.000	217.660	11454.15	956.69 S	799.88 W	1246.56
0.00						
12590.00	91.000	217.660	11453.97	964.61 S	805.99 W	1256.55
0.00						
12600.00	91.000	217.660	11453.80	972.52 S	812.10 W	1266.55
0.00						
12610.00	91.000	217.660	11453.63	980.44 S	818.21 W	1276.55
0.00						
12620.00	91.000	217.660	11453.45	988.35 S	824.32 W	1286.55
0.00						
12630.00	91.000	217.660	11453.28	996.27 S	830.43 W	1296.55
0.00						
12640.00	91.000	217.660	11453.10	1004.19 S	836.54 W	1306.54
0.00						
12650.00	91.000	217.660	11452.93	1012.10 S	842.64 W	1316.54
0.00						
12660.00	91.000	217.660	11452.75	1020.02 S	848.75 W	1326.54
0.00						
12670.00	91.000	217.660	11452.58	1027.93 S	854.86 W	1336.54
0.00						
12680.00	91.000	217.660	11452.40	1035.85 S	860.97 W	1346.53
0.00						
12690.00	91.000	217.660	11452.23	1043.76 S	867.08 W	1356.53
0.00						
12700.00	91.000	217.660	11452.05	1051.68 S	873.19 W	1366.53
0.00						
12710.00	91.000	217.660	11451.88	1059.59 S	879.30 W	1376.53
0.00						
12720.00	91.000	217.660	11451.70	1067.51 S	885.41 W	1386.53
0.00						
12730.00	91.000	217.660	11451.53	1075.42 S	891.52 W	1396.52
0.00						
12740.00	91.000	217.660	11451.36	1083.34 S	897.62 W	1406.52
0.00						
12750.00	91.000	217.660	11451.18	1091.25 S	903.73 W	1416.52
0.00						
12760.00	91.000	217.660	11451.01	1099.17 S	909.84 W	1426.52
0.00						
12770.00	91.000	217.660	11450.83	1107.08 S	915.95 W	1436.51
0.00						
12780.00	91.000	217.660	11450.66	1115.00 S	922.06 W	1446.51
0.00						
12790.00	91.000	217.660	11450.48	1122.91 S	928.17 W	1456.51
0.00						
12800.00	91.001	217.660	11450.31	1130.83 S	934.28 W	1466.51
0.00						
12810.00	91.001	217.660	11450.13	1138.75 S	940.39 W	1476.51

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0. 00							
12820. 00	91. 001	217. 660	11449. 96	1146. 66 S	946. 49 W	1486. 50	
0. 00							
12830. 00	91. 001	217. 660	11449. 78	1154. 58 S	952. 60 W	1496. 50	
0. 00							
12840. 00	91. 001	217. 660	11449. 61	1162. 49 S	958. 71 W	1506. 50	
0. 00							
12850. 00	91. 001	217. 660	11449. 43	1170. 41 S	964. 82 W	1516. 50	
0. 00							
12860. 00	91. 001	217. 660	11449. 26	1178. 32 S	970. 93 W	1526. 50	
0. 00							
12870. 00	91. 001	217. 660	11449. 09	1186. 24 S	977. 04 W	1536. 49	
0. 00							
12880. 00	91. 001	217. 660	11448. 91	1194. 15 S	983. 15 W	1546. 49	
0. 00							
12890. 00	91. 001	217. 660	11448. 74	1202. 07 S	989. 26 W	1556. 49	
0. 00							
12900. 00	91. 001	217. 660	11448. 56	1209. 98 S	995. 37 W	1566. 49	
0. 00							
12910. 00	91. 001	217. 660	11448. 39	1217. 90 S	1001. 47 W	1576. 48	
0. 00							
12920. 00	91. 001	217. 660	11448. 21	1225. 81 S	1007. 58 W	1586. 48	
0. 00							
12930. 00	91. 001	217. 660	11448. 04	1233. 73 S	1013. 69 W	1596. 48	
0. 00							
12940. 00	91. 001	217. 660	11447. 86	1241. 64 S	1019. 80 W	1606. 48	
0. 00							
12950. 00	91. 001	217. 660	11447. 69	1249. 56 S	1025. 91 W	1616. 48	
0. 00							
12960. 00	91. 001	217. 660	11447. 51	1257. 47 S	1032. 02 W	1626. 47	
0. 00							
12970. 00	91. 001	217. 660	11447. 34	1265. 39 S	1038. 13 W	1636. 47	
0. 00							
12980. 00	91. 001	217. 660	11447. 16	1273. 31 S	1044. 24 W	1646. 47	
0. 00							
12990. 00	91. 001	217. 660	11446. 99	1281. 22 S	1050. 34 W	1656. 47	
0. 00							
13000. 00	91. 001	217. 660	11446. 82	1289. 14 S	1056. 45 W	1666. 46	
0. 00							
13010. 00	91. 001	217. 660	11446. 64	1297. 05 S	1062. 56 W	1676. 46	
0. 00							
13020. 00	91. 001	217. 660	11446. 47	1304. 97 S	1068. 67 W	1686. 46	
0. 00							
13030. 00	91. 001	217. 660	11446. 29	1312. 88 S	1074. 78 W	1696. 46	
0. 00							
13040. 00	91. 001	217. 660	11446. 12	1320. 80 S	1080. 89 W	1706. 46	
0. 00							
13050. 00	91. 001	217. 660	11445. 94	1328. 71 S	1087. 00 W	1716. 45	
0. 00							
13060. 00	91. 001	217. 660	11445. 77	1336. 63 S	1093. 11 W	1726. 45	
0. 00							
13070. 00	91. 001	217. 660	11445. 59	1344. 54 S	1099. 22 W	1736. 45	
0. 00							
13080. 00	91. 001	217. 660	11445. 42	1352. 46 S	1105. 32 W	1746. 45	
0. 00							
13090. 00	91. 001	217. 660	11445. 24	1360. 37 S	1111. 43 W	1756. 44	
0. 00							
13100. 00	91. 001	217. 660	11445. 07	1368. 29 S	1117. 54 W	1766. 44	
0. 00							
13110. 00	91. 001	217. 660	11444. 89	1376. 20 S	1123. 65 W	1776. 44	
0. 00							
13120. 00	91. 001	217. 660	11444. 72	1384. 12 S	1129. 76 W	1786. 44	
0. 00							

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13130.00 0.00	91.001	217.660	11444.54	1392.03 S	1135.87 W	1796.44
13140.00 0.00	91.001	217.660	11444.37	1399.95 S	1141.98 W	1806.43
13150.00 0.00	91.001	217.660	11444.20	1407.87 S	1148.09 W	1816.43
13160.00 0.00	91.001	217.660	11444.02	1415.78 S	1154.19 W	1826.43
13170.00 0.00	91.001	217.660	11443.85	1423.70 S	1160.30 W	1836.43
13180.00 0.00	91.001	217.660	11443.67	1431.61 S	1166.41 W	1846.42
13190.00 0.00	91.001	217.660	11443.50	1439.53 S	1172.52 W	1856.42
13200.00 0.00	91.001	217.660	11443.32	1447.44 S	1178.63 W	1866.42
13210.00 0.00	91.001	217.660	11443.15	1455.36 S	1184.74 W	1876.42
13220.00 0.00	91.001	217.660	11442.97	1463.27 S	1190.85 W	1886.42
13230.00 0.00	91.001	217.660	11442.80	1471.19 S	1196.96 W	1896.41
13240.00 0.00	91.001	217.660	11442.62	1479.10 S	1203.06 W	1906.41
13250.00 0.00	91.001	217.660	11442.45	1487.02 S	1209.17 W	1916.41
13260.00 0.00	91.001	217.660	11442.27	1494.93 S	1215.28 W	1926.41
13270.00 0.00	91.001	217.660	11442.10	1502.85 S	1221.39 W	1936.40
13280.00 0.00	91.001	217.660	11441.92	1510.76 S	1227.50 W	1946.40
13290.00 0.00	91.001	217.660	11441.75	1518.68 S	1233.61 W	1956.40
13300.00 0.00	91.001	217.660	11441.57	1526.59 S	1239.72 W	1966.40
13310.00 0.00	91.001	217.660	11441.40	1534.51 S	1245.83 W	1976.40
13320.00 0.00	91.001	217.660	11441.23	1542.43 S	1251.94 W	1986.39
13330.00 0.00	91.001	217.660	11441.05	1550.34 S	1258.04 W	1996.39
13340.00 0.00	91.001	217.660	11440.88	1558.26 S	1264.15 W	2006.39
13350.00 0.00	91.001	217.660	11440.70	1566.17 S	1270.26 W	2016.39
13360.00 0.00	91.001	217.660	11440.53	1574.09 S	1276.37 W	2026.38
13370.00 0.00	91.001	217.660	11440.35	1582.00 S	1282.48 W	2036.38
13380.00 0.00	91.001	217.660	11440.18	1589.92 S	1288.59 W	2046.38
13390.00 0.00	91.001	217.660	11440.00	1597.83 S	1294.70 W	2056.38
13400.00 0.00	91.001	217.660	11439.83	1605.75 S	1300.81 W	2066.38
13410.00 0.00	91.001	217.660	11439.65	1613.66 S	1306.91 W	2076.37
13420.00 0.00	91.001	217.660	11439.48	1621.58 S	1313.02 W	2086.37
13430.00 0.00	91.001	217.660	11439.30	1629.49 S	1319.13 W	2096.37
13440.00	91.001	217.660	11439.13	1637.41 S	1325.24 W	2106.37

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13450. 00	91. 001	217. 660	11438. 95	1645. 32 S	1331. 35 W	2116. 37
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13470. 00	91. 001	217. 660	11438. 60	1661. 15 S	1343. 57 W	2136. 36
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13480. 00	91. 001	217. 660	11438. 43	1669. 07 S	1349. 68 W	2146. 36
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13490. 00	91. 001	217. 660	11438. 25	1676. 99 S	1355. 79 W	2156. 36
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13500. 00	91. 001	217. 660	11438. 08	1684. 90 S	1361. 89 W	2166. 35
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13590. 00	91. 001	217. 660	11436. 51	1756. 14 S	1416. 87 W	2256. 33
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13600. 00	91. 001	217. 660	11436. 33	1764. 05 S	1422. 98 W	2266. 33
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13630. 00	91. 001	217. 660	11435. 81	1787. 80 S	1441. 31 W	2296. 33
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13640. 00	91. 001	217. 660	11435. 63	1795. 71 S	1447. 42 W	2306. 32
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13650. 00	91. 001	217. 660	11435. 46	1803. 63 S	1453. 53 W	2316. 32
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13660. 00	91. 001	217. 660	11435. 28	1811. 55 S	1459. 63 W	2326. 32
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13670. 00	91. 001	217. 660	11435. 11	1819. 46 S	1465. 74 W	2336. 32
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13680. 00	91. 001	217. 660	11434. 93	1827. 38 S	1471. 85 W	2346. 31
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13690. 00	91. 001	217. 660	11434. 76	1835. 29 S	1477. 96 W	2356. 31
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13700. 00	91. 002	217. 660	11434. 58	1843. 21 S	1484. 07 W	2366. 31
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13710. 00	91. 002	217. 660	11434. 41	1851. 12 S	1490. 18 W	2376. 31
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13720. 00	91. 002	217. 660	11434. 24	1859. 04 S	1496. 29 W	2386. 31
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13730. 00	91. 002	217. 660	11434. 06	1866. 95 S	1502. 40 W	2396. 30
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13740. 00	91. 002	217. 660	11433. 89	1874. 87 S	1508. 51 W	2406. 30
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13750. 00	91. 002	217. 660	11433. 71	1882. 78 S	1514. 61 W	2416. 30
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13760.00	91.002	217.660	11433.54	1890.70 S	1520.72 W	2426.30
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13780.00	91.002	217.660	11433.19	1906.53 S	1532.94 W	2446.29
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13790.00	91.002	217.660	11433.01	1914.44 S	1539.05 W	2456.29
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13800.00	91.002	217.660	11432.84	1922.36 S	1545.16 W	2466.29
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13810.00	91.002	217.660	11432.66	1930.27 S	1551.27 W	2476.29
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13820.00	91.002	217.660	11432.49	1938.19 S	1557.38 W	2486.28
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13830.00	91.002	217.660	11432.31	1946.11 S	1563.48 W	2496.28
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13840.00	91.002	217.660	11432.14	1954.02 S	1569.59 W	2506.28
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13850.00	91.002	217.660	11431.96	1961.94 S	1575.70 W	2516.28
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13860.00	91.002	217.660	11431.79	1969.85 S	1581.81 W	2526.27
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13870.00	91.002	217.660	11431.61	1977.77 S	1587.92 W	2536.27
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13880.00	91.002	217.660	11431.44	1985.68 S	1594.03 W	2546.27
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13890.00	91.002	217.660	11431.26	1993.60 S	1600.14 W	2556.27
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13900.00	91.002	217.660	11431.09	2001.51 S	1606.25 W	2566.27
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13910.00	91.002	217.660	11430.91	2009.43 S	1612.36 W	2576.26
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13920.00	91.002	217.660	11430.74	2017.34 S	1618.46 W	2586.26
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13930.00	91.002	217.660	11430.56	2025.26 S	1624.57 W	2596.26
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13940.00	91.002	217.660	11430.39	2033.17 S	1630.68 W	2606.26
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13950.00	91.002	217.660	11430.21	2041.09 S	1636.79 W	2616.26
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13960.00	91.002	217.660	11430.04	2049.00 S	1642.90 W	2626.25
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13970.00	91.002	217.660	11429.86	2056.92 S	1649.01 W	2636.25
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13980.00	91.002	217.660	11429.69	2064.83 S	1655.12 W	2646.25
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13990.00	91.002	217.660	11429.51	2072.75 S	1661.23 W	2656.25
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14000.00	91.002	217.660	11429.34	2080.67 S	1667.33 W	2666.24
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14010.00	91.002	217.660	11429.17	2088.58 S	1673.44 W	2676.24
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14020.00	91.002	217.660	11428.99	2096.50 S	1679.55 W	2686.24
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14030.00	91.002	217.660	11428.82	2104.41 S	1685.66 W	2696.24
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14040.00	91.002	217.660	11428.64	2112.33 S	1691.77 W	2706.24
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14050.00	91.002	217.660	11428.47	2120.24 S	1697.88 W	2716.23
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14060.00	91.002	217.660	11428.29	2128.16 S	1703.99 W	2726.23
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14070.00	91.002	217.660	11428.12	2136.07 S	1710.10 W	2736.23

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14100. 00	91. 002	217. 660	11427. 59	2159. 82 S	1728. 42 W	2766. 22	
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14110. 00	91. 002	217. 660	11427. 42	2167. 73 S	1734. 53 W	2776. 22	
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14120. 00	91. 002	217. 660	11427. 24	2175. 65 S	1740. 64 W	2786. 22	
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14130. 00	91. 002	217. 660	11427. 07	2183. 56 S	1746. 75 W	2796. 22	
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14140. 00	91. 002	217. 660	11426. 89	2191. 48 S	1752. 86 W	2806. 21	
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14150. 00	91. 002	217. 660	11426. 72	2199. 39 S	1758. 97 W	2816. 21	
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14160. 00	91. 002	217. 660	11426. 54	2207. 31 S	1765. 08 W	2826. 21	
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14170. 00	91. 002	217. 660	11426. 37	2215. 23 S	1771. 18 W	2836. 21	
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14180. 00	91. 002	217. 660	11426. 19	2223. 14 S	1777. 29 W	2846. 20	
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14190. 00	91. 002	217. 660	11426. 02	2231. 06 S	1783. 40 W	2856. 20	
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14200. 00	91. 002	217. 660	11425. 84	2238. 97 S	1789. 51 W	2866. 20	
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14210. 00	91. 002	217. 660	11425. 67	2246. 89 S	1795. 62 W	2876. 20	
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14220. 00	91. 002	217. 660	11425. 49	2254. 80 S	1801. 73 W	2886. 20	
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14230. 00	91. 002	217. 660	11425. 32	2262. 72 S	1807. 84 W	2896. 19	
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14240. 00	91. 002	217. 660	11425. 14	2270. 63 S	1813. 95 W	2906. 19	
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14250. 00	91. 002	217. 660	11424. 97	2278. 55 S	1820. 05 W	2916. 19	
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14260. 00	91. 002	217. 660	11424. 79	2286. 46 S	1826. 16 W	2926. 19	
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14270. 00	91. 002	217. 660	11424. 62	2294. 38 S	1832. 27 W	2936. 18	
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14280. 00	91. 002	217. 660	11424. 44	2302. 29 S	1838. 38 W	2946. 18	
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14290. 00	91. 002	217. 660	11424. 27	2310. 21 S	1844. 49 W	2956. 18	
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14300. 00	91. 002	217. 660	11424. 09	2318. 12 S	1850. 60 W	2966. 18	
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14310. 00	91. 002	217. 660	11423. 92	2326. 04 S	1856. 71 W	2976. 18	
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14320. 00	91. 002	217. 660	11423. 74	2333. 95 S	1862. 82 W	2986. 17	
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14330. 00	91. 002	217. 660	11423. 57	2341. 87 S	1868. 93 W	2996. 17	
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14340. 00	91. 002	217. 660	11423. 39	2349. 79 S	1875. 03 W	3006. 17	
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14350. 00	91. 002	217. 660	11423. 22	2357. 70 S	1881. 14 W	3016. 17	
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14360. 00	91. 002	217. 660	11423. 04	2365. 62 S	1887. 25 W	3026. 16	
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14370. 00	91. 002	217. 660	11422. 87	2373. 53 S	1893. 36 W	3036. 16	
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14380. 00	91. 002	217. 660	11422. 69	2381. 45 S	1899. 47 W	3046. 16	
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14390.00	91.002	217.660	11422.52	2389.36 S	1905.58 W	3056.16
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14410.00	91.002	217.660	11422.17	2405.19 S	1917.80 W	3076.15
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14420.00	91.002	217.660	11421.99	2413.11 S	1923.90 W	3086.15
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14430.00	91.002	217.660	11421.82	2421.02 S	1930.01 W	3096.15
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14440.00	91.002	217.660	11421.64	2428.94 S	1936.12 W	3106.15
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14450.00	91.002	217.660	11421.47	2436.85 S	1942.23 W	3116.14
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14460.00	91.002	217.660	11421.29	2444.77 S	1948.34 W	3126.14
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14470.00	91.002	217.660	11421.12	2452.68 S	1954.45 W	3136.14
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14480.00	91.002	217.660	11420.95	2460.60 S	1960.56 W	3146.14
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14490.00	91.002	217.660	11420.77	2468.51 S	1966.67 W	3156.14
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14500.00	91.002	217.660	11420.60	2476.43 S	1972.78 W	3166.13
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14510.00	91.002	217.660	11420.42	2484.34 S	1978.88 W	3176.13
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14520.00	91.002	217.660	11420.25	2492.26 S	1984.99 W	3186.13
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14530.00	91.002	217.660	11420.07	2500.18 S	1991.10 W	3196.13
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14540.00	91.002	217.660	11419.90	2508.09 S	1997.21 W	3206.12
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14550.00	91.002	217.660	11419.72	2516.01 S	2003.32 W	3216.12
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14560.00	91.002	217.660	11419.55	2523.92 S	2009.43 W	3226.12
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14570.00	91.002	217.660	11419.37	2531.84 S	2015.54 W	3236.12
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14580.00	91.002	217.660	11419.20	2539.75 S	2021.65 W	3246.12
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14590.00	91.002	217.660	11419.02	2547.67 S	2027.75 W	3256.11
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14600.00	91.003	217.660	11418.85	2555.58 S	2033.86 W	3266.11
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14610.00	91.003	217.660	11418.67	2563.50 S	2039.97 W	3276.11
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14620.00	91.003	217.660	11418.50	2571.41 S	2046.08 W	3286.11
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14630.00	91.003	217.660	11418.32	2579.33 S	2052.19 W	3296.11
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14640.00	91.003	217.660	11418.15	2587.24 S	2058.30 W	3306.10
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14650.00	91.003	217.660	11417.97	2595.16 S	2064.41 W	3316.10
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14660.00	91.003	217.660	11417.80	2603.07 S	2070.52 W	3326.10
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14670.00	91.003	217.660	11417.62	2610.99 S	2076.62 W	3336.10
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14680.00	91.003	217.660	11417.45	2618.90 S	2082.73 W	3346.09
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14690.00	91.003	217.660	11417.27	2626.82 S	2088.84 W	3356.09
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14700.00	91.003	217.660	11417.10	2634.74 S	2094.95 W	3366.09

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14730. 00	91. 003	217. 660	11416. 57	2658. 48 S	2113. 28 W	3396. 08	
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14740. 00	91. 003	217. 660	11416. 40	2666. 40 S	2119. 39 W	3406. 08	
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14760. 00	91. 003	217. 660	11416. 05	2682. 23 S	2131. 60 W	3426. 08	
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14770. 00	91. 003	217. 660	11415. 87	2690. 14 S	2137. 71 W	3436. 07	
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14780. 00	91. 003	217. 660	11415. 70	2698. 06 S	2143. 82 W	3446. 07	
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14790. 00	91. 003	217. 660	11415. 52	2705. 97 S	2149. 93 W	3456. 07	
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14800. 00	91. 003	217. 660	11415. 35	2713. 89 S	2156. 04 W	3466. 07	
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14810. 00	91. 003	217. 660	11415. 17	2721. 80 S	2162. 15 W	3476. 07	
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14820. 00	91. 003	217. 660	11415. 00	2729. 72 S	2168. 26 W	3486. 06	
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14830. 00	91. 003	217. 660	11414. 82	2737. 63 S	2174. 37 W	3496. 06	
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14840. 00	91. 003	217. 660	11414. 65	2745. 55 S	2180. 47 W	3506. 06	
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14850. 00	91. 003	217. 660	11414. 47	2753. 46 S	2186. 58 W	3516. 06	
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14860. 00	91. 003	217. 660	11414. 30	2761. 38 S	2192. 69 W	3526. 05	
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14870. 00	91. 003	217. 660	11414. 12	2769. 30 S	2198. 80 W	3536. 05	
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14880. 00	91. 003	217. 660	11413. 95	2777. 21 S	2204. 91 W	3546. 05	
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14890. 00	91. 003	217. 660	11413. 77	2785. 13 S	2211. 02 W	3556. 05	
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14900. 00	91. 003	217. 660	11413. 60	2793. 04 S	2217. 13 W	3566. 05	
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14910. 00	91. 003	217. 660	11413. 42	2800. 96 S	2223. 24 W	3576. 04	
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14930. 00	91. 003	217. 660	11413. 07	2816. 79 S	2235. 45 W	3596. 04	
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14960. 00	91. 003	217. 660	11412. 55	2840. 53 S	2253. 78 W	3626. 03	
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14970. 00	91. 003	217. 660	11412. 37	2848. 45 S	2259. 89 W	3636. 03	
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14980. 00	91. 003	217. 660	11412. 20	2856. 36 S	2266. 00 W	3646. 03	
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14990. 00	91. 003	217. 660	11412. 02	2864. 28 S	2272. 11 W	3656. 03	
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15000. 00	91. 003	217. 660	11411. 85	2872. 19 S	2278. 22 W	3666. 02	
0. 00							
15010. 00	91. 003	217. 660	11411. 67	2880. 11 S	2284. 32 W	3676. 02	
0. 00							

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15020.00	91.003	217.660	11411.50	2888.02 S	2290.43 W	3686.02
0.00						
15030.00	91.003	217.660	11411.32	2895.94 S	2296.54 W	3696.02
0.00						
15040.00	91.003	217.660	11411.15	2903.86 S	2302.65 W	3706.01
0.00						
15050.00	91.003	217.660	11410.97	2911.77 S	2308.76 W	3716.01
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15060.00	91.003	217.660	11410.79	2919.69 S	2314.87 W	3726.01
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15070.00	91.003	217.660	11410.62	2927.60 S	2320.98 W	3736.01
0.00						
15080.00	91.003	217.660	11410.44	2935.52 S	2327.09 W	3746.01
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15090.00	91.003	217.660	11410.27	2943.43 S	2333.19 W	3756.00
0.00						
15100.00	91.003	217.660	11410.09	2951.35 S	2339.30 W	3766.00
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15110.00	91.003	217.660	11409.92	2959.26 S	2345.41 W	3776.00
0.00						
15120.00	91.003	217.660	11409.74	2967.18 S	2351.52 W	3786.00
0.00						
15130.00	91.003	217.660	11409.57	2975.09 S	2357.63 W	3795.99
0.00						
15140.00	91.003	217.660	11409.39	2983.01 S	2363.74 W	3805.99
0.00						
15150.00	91.003	217.660	11409.22	2990.92 S	2369.85 W	3815.99
0.00						
15160.00	91.003	217.660	11409.04	2998.84 S	2375.96 W	3825.99
0.00						
15170.00	91.003	217.660	11408.87	3006.75 S	2382.07 W	3835.99
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15190.00	91.003	217.660	11408.52	3022.58 S	2394.28 W	3855.98
0.00						
15200.00	91.003	217.660	11408.34	3030.50 S	2400.39 W	3865.98
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15210.00	91.003	217.660	11408.17	3038.42 S	2406.50 W	3875.98
0.00						
15220.00	91.003	217.660	11407.99	3046.33 S	2412.61 W	3885.97
0.00						
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0.00						
15240.00	91.003	217.660	11407.64	3062.16 S	2424.83 W	3905.97
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15250.00	91.003	217.660	11407.47	3070.08 S	2430.94 W	3915.97
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15260.00	91.003	217.660	11407.29	3077.99 S	2437.04 W	3925.97
0.00						
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0.00						
15280.00	91.003	217.660	11406.94	3093.82 S	2449.26 W	3945.96
0.00						
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0.00						
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0.00						
15330.00	91.003	217.660	11406.07	3133.40 S	2479.81 W	3995.95

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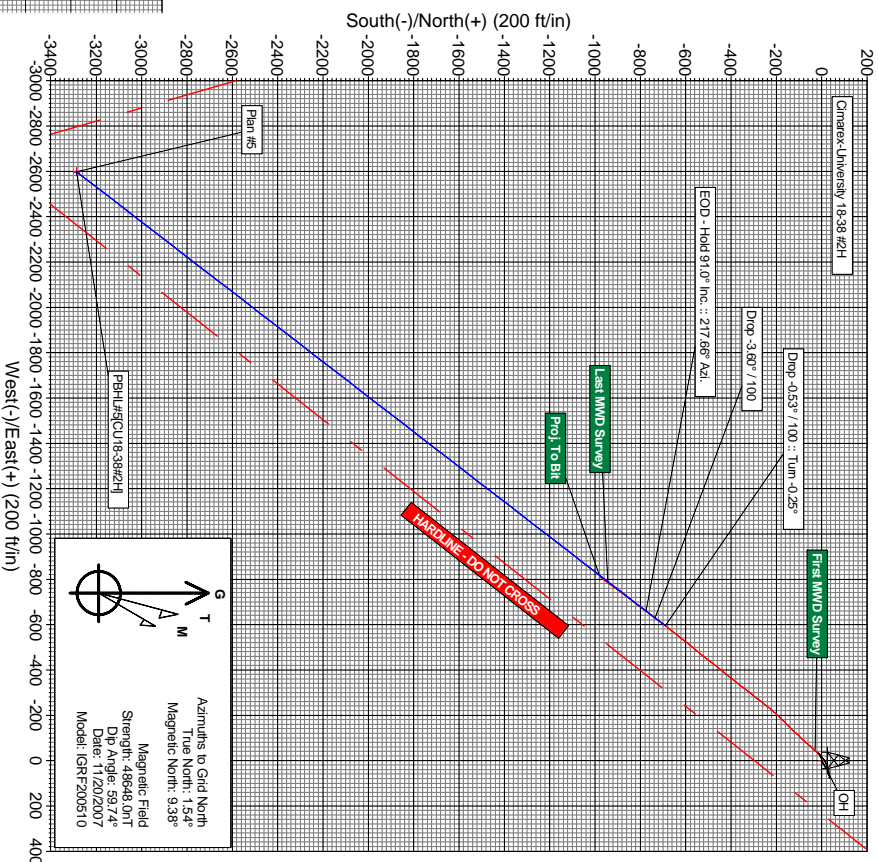
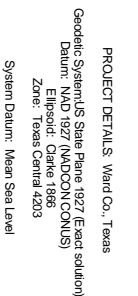
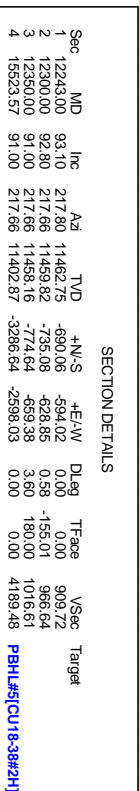
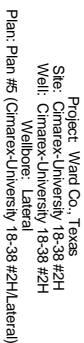
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15420.00	91.003	217.660	11404.49	3204.64 S	2534.79 W	4085.93	
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15430.00	91.003	217.660	11404.32	3212.55 S	2540.89 W	4095.93	
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15460.00	91.003	217.660	11403.79	3236.30 S	2559.22 W	4125.92	
0.00							
15470.00	91.003	217.660	11403.62	3244.21 S	2565.33 W	4135.92	
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15480.00	91.003	217.660	11403.44	3252.13 S	2571.44 W	4145.92	
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15490.00	91.003	217.660	11403.27	3260.04 S	2577.55 W	4155.92	
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15500.00	91.004	217.660	11403.09	3267.96 S	2583.66 W	4165.91	
0.00							
15510.00	91.001	217.659	11402.92	3275.87 S	2589.76 W	4175.91	
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15520.00	90.998	217.659	11402.74	3283.79 S	2595.87 W	4185.91	
0.03							
15523.57	90.997	217.659	11402.87	3286.64 S	2598.03 W	4189.48	
0.03							

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Rig KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Site and calculated along an Azimuth of 218.326° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), Texas Central 4203.
Central meridian is -100.333°.
Grid Convergence at Surface is -1.537°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 15523.57ft., the Bottom Hole Displacement is 4189.48ft., in the Direction of 218.326° (Grid).



CIMAREX-UNIVERSITY 18-38 #2H



Plan: Plan #5 (Cimarex-University 18-38 #2H(Lateral))
Created By: L.D. Burton Date: December 13, 2000