



Hiley Unit 2H
Doddridge County WV
 Northing: 14272679.54
 Easting: 1690526.56
 As Drilled



To convert Magnetic North to Grid, Subtract 8.57°
 To convert True North to Grid, Subtract 0.11°

Azimuths to Grid North
 True North: -0.11°
 Magnetic North: -8.57°
 Magnetic Field
 Strength: 52224.9snT
 Dip Angle: 66.85°
 Date: 10/31/2014
 Model: BGGM2014

Patterson 347: GL 824' + KB 25' @ 849.0usft
 Gr: 824.0

		WELL DETAILS Hiley Unit 2H			
		Ground Level: 824.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14272679.54	1690526.56	39° 18' 14.478 N	80° 49' 22.291 W

Genie Lightfoot
 11:22, March 10 2015
 Scientific Drilling
 11220 NW 10th Street
 Yukon OK 73099

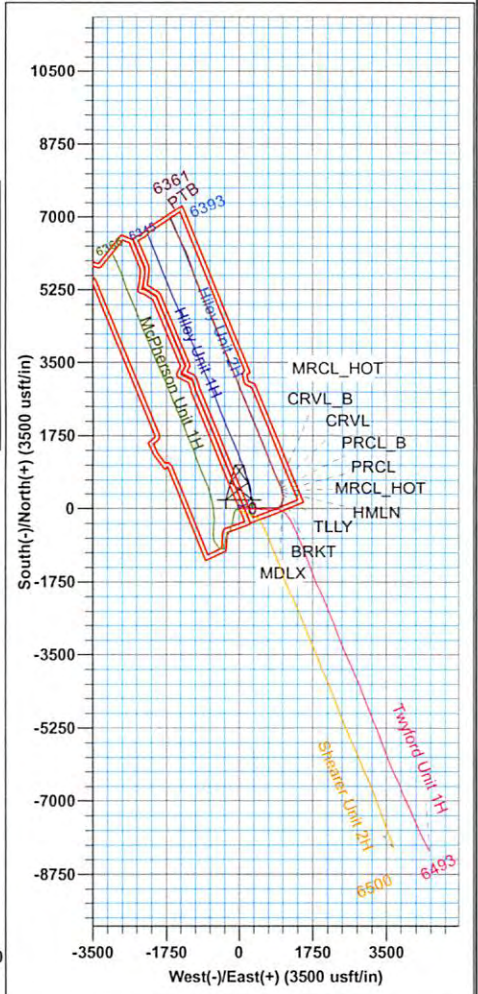
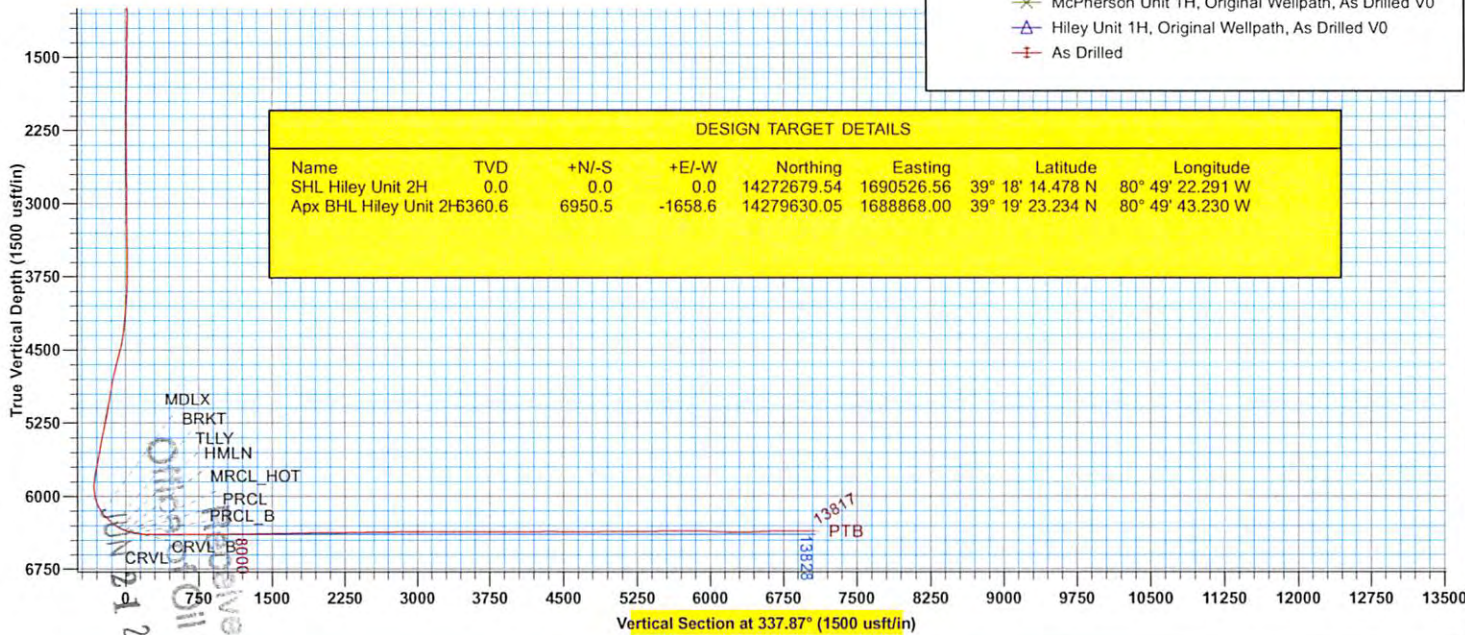
SITE DETAILS: Diane Davis Pad: Shearer/Hiley/McPherson/Twyford
 Site Centre Northing: 14272631.37
 Easting: 1690515.37
 Positional Uncertainty: 2.0
 Convergence: 0.11
 Local North: Grid

PROJECT DETAILS: Doddridge County WV
 Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level

LEGEND

- Shearer Unit 2H, Original Wellpath, As Drilled V0
- Twyford Unit 1H, Original Wellpath, As Drilled V0
- Hiley Unit 2H, Original Wellpath, Plan 6 V0
- McPherson Unit 1H, Original Wellpath, As Drilled V0
- Hiley Unit 1H, Original Wellpath, As Drilled V0
- As Drilled

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Hiley Unit 2H	0.0	0.0	0.0	14272679.54	1690526.56	39° 18' 14.478 N	80° 49' 22.291 W
Apx BHL Hiley Unit 2H	6360.6	6950.5	-1658.6	14279630.05	1688868.00	39° 19' 23.234 N	80° 49' 43.230 W



Original Oil & Gas
 March 21 2016



Antero

Doddridge County WV

Diane Davis Pad: Shearer/Hiley/McPherson/Twyford

Hiley Unit 2H

Original Wellpath

Design: As Drilled

EOW Completion Report

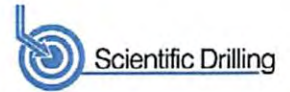
10 March, 2015



07/22/2016



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Doddridge County WV, McClellan District		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Diane Davis Pad: Shearer/Hiley/McPherson/Twyford		
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Site Position:		Northing:	14,272,631.37 usft	Latitude:	39° 18' 14.002 N
From:	Map	Easting:	1,690,515.37 usft	Longitude:	80° 49' 22.435 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11 °

Well	Hiley Unit 2H, Marcellus				
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Well Position	+N/-S	0.0 usft	Northing:	14,272,679.54 usft	Latitude:	39° 18' 14.478 N
	+E/-W	0.0 usft	Easting:	1,690,526.56 usft	Longitude:	80° 49' 22.291 W
Position Uncertainty	2.0 usft		Wellhead Elevation:	849.0 usft	Ground Level:	824.0 usft

Wellbore	Original Wellpath				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	10/31/2014	-8.46	66.85	52,225

Design	As Drilled				
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Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	337.87

Survey Program	Date 3/10/2015				
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From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
112.0	5,853.0	Survey #7 Final Gyro (Original Wellpath)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
5,853.0	13,817.0	Survey #8 MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1

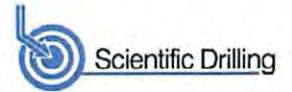
Survey									
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
112.0	0.28	285.63	112.0	0.1	-0.3	0.2	0.25
137.0	0.33	271.95	137.0	0.1	-0.4	0.2	0.35
162.0	0.27	282.88	162.0	0.1	-0.5	0.3	0.33
187.0	0.22	289.80	187.0	0.1	-0.6	0.4	0.23
212.0	0.22	250.32	212.0	0.1	-0.7	0.4	0.59
237.0	0.10	243.15	237.0	0.1	-0.8	0.4	0.49
262.0	0.18	242.03	262.0	0.1	-0.8	0.4	0.32
287.0	0.11	247.89	287.0	0.1	-0.9	0.4	0.29
312.0	0.08	268.07	312.0	0.0	-0.9	0.4	0.18
337.0	0.06	334.58	337.0	0.1	-1.0	0.4	0.31

Received
Office of Oil & Gas
JUN 21 2016



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)		
362.0	0.03	210.87	362.0	0.1	-1.0	0.4	0.32		
387.0	0.08	37.31	387.0	0.1	-1.0	0.4	0.44		
412.0	0.05	329.28	412.0	0.1	-1.0	0.4	0.31		
437.0	0.06	31.98	437.0	0.1	-1.0	0.5	0.23		
462.0	0.11	45.37	462.0	0.1	-0.9	0.5	0.21		
487.0	0.34	25.90	487.0	0.2	-0.9	0.5	0.96		
512.0	0.79	33.14	512.0	0.4	-0.8	0.7	1.82		
537.0	1.43	36.42	537.0	0.8	-0.5	0.9	2.57		
562.0	1.89	38.67	562.0	1.4	0.0	1.3	1.86		
587.0	2.38	40.70	587.0	2.1	0.6	1.8	1.98		
612.0	2.60	41.55	611.9	2.9	1.3	2.2	0.89		
637.0	2.86	38.92	636.9	3.8	2.1	2.8	1.15		
662.0	3.37	38.27	661.9	4.9	2.9	3.5	2.04		
687.0	3.73	36.25	686.8	6.1	3.8	4.2	1.52		
712.0	4.24	34.13	711.8	7.6	4.8	5.2	2.12		
737.0	4.39	33.72	736.7	9.1	5.9	6.2	0.61		
762.0	4.54	33.40	761.6	10.7	7.0	7.3	0.61		
787.0	4.70	32.47	786.5	12.4	8.1	8.5	0.71		
812.0	4.95	33.11	811.4	14.2	9.2	9.7	1.02		
837.0	4.98	32.72	836.4	16.0	10.4	10.9	0.18		
862.0	5.03	33.03	861.3	17.9	11.6	12.2	0.23		
887.0	5.18	33.27	886.2	19.7	12.8	13.5	0.61		
912.0	5.01	32.70	911.1	21.6	14.0	14.7	0.71		
937.0	4.45	35.15	936.0	23.3	15.1	15.9	2.38		
962.0	4.16	37.09	960.9	24.8	16.2	16.9	1.30		
987.0	3.99	38.98	985.8	26.2	17.3	17.7	0.87		
1,012.0	3.67	42.87	1,010.8	27.5	18.4	18.5	1.65		
1,037.0	3.25	50.19	1,035.7	28.5	19.5	19.1	2.44		
1,062.0	2.97	59.90	1,060.7	29.3	20.6	19.4	2.38		
1,087.0	3.12	73.43	1,085.7	29.8	21.8	19.4	2.93		
1,112.0	3.33	82.77	1,110.6	30.1	23.2	19.1	2.26		
1,137.0	3.44	86.94	1,135.6	30.2	24.7	18.7	1.08		
1,162.0	3.37	90.02	1,160.5	30.3	26.1	18.2	0.78		
1,187.0	3.16	97.98	1,185.5	30.2	27.6	17.6	2.00		
1,212.0	2.88	107.32	1,210.5	29.9	28.8	16.8	2.26		
1,237.0	2.64	114.20	1,235.4	29.5	30.0	16.0	1.63		
1,262.0	2.38	120.89	1,260.4	29.0	30.9	15.2	1.57		
1,287.0	2.22	123.56	1,285.4	28.4	31.8	14.4	0.77		
1,312.0	2.05	125.60	1,310.4	27.9	32.6	13.6	0.74		
1,337.0	1.86	125.04	1,335.4	27.4	33.3	12.9	0.76		
1,362.0	1.73	125.98	1,360.4	26.9	33.9	12.2	0.53		
1,387.0	1.48	125.63	1,385.3	26.5	34.5	11.6	1.00		
1,412.0	1.31	124.07	1,410.3	26.2	35.0	11.1	0.70		
1,437.0	1.17	118.64	1,435.3	25.9	35.4	10.7	0.73		

Received
Office of Oil & Gas
JUN 21 2016



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
1,462.0	1.10	116.63	1,460.3	25.7	35.9	10.3	0.32	
1,487.0	1.00	124.07	1,485.3	25.4	36.3	9.9	0.68	
1,512.0	0.92	114.54	1,510.3	25.2	36.6	9.6	0.71	
1,537.0	0.81	118.01	1,535.3	25.1	37.0	9.3	0.49	
1,562.0	0.75	117.76	1,560.3	24.9	37.3	9.0	0.24	
1,587.0	0.65	115.37	1,585.3	24.8	37.5	8.8	0.42	
1,612.0	0.55	114.73	1,610.3	24.7	37.8	8.6	0.40	
1,637.0	0.45	109.77	1,635.3	24.6	38.0	8.5	0.44	
1,662.0	0.33	115.29	1,660.3	24.5	38.1	8.4	0.50	
1,687.0	0.22	106.97	1,685.3	24.5	38.2	8.3	0.47	
1,712.0	0.22	101.37	1,710.3	24.5	38.3	8.2	0.09	
1,737.0	0.19	99.72	1,735.3	24.4	38.4	8.2	0.12	
1,762.0	0.20	123.24	1,760.3	24.4	38.5	8.1	0.32	
1,787.0	0.20	98.14	1,785.3	24.4	38.6	8.0	0.35	
1,812.0	0.16	108.86	1,810.3	24.4	38.6	8.0	0.21	
1,837.0	0.12	107.05	1,835.3	24.3	38.7	8.0	0.16	
1,862.0	0.17	78.53	1,860.3	24.3	38.8	7.9	0.35	
1,887.0	0.14	86.43	1,885.3	24.3	38.8	7.9	0.15	
1,912.0	0.16	100.51	1,910.3	24.3	38.9	7.9	0.17	
1,937.0	0.08	67.76	1,935.3	24.3	39.0	7.9	0.41	
1,962.0	0.11	91.98	1,960.3	24.4	39.0	7.9	0.20	
1,987.0	0.09	84.36	1,985.3	24.4	39.0	7.9	0.10	
2,012.0	0.09	80.10	2,010.3	24.4	39.1	7.8	0.03	
2,037.0	0.03	59.72	2,035.3	24.4	39.1	7.8	0.25	
2,062.0	0.10	56.61	2,060.3	24.4	39.1	7.8	0.28	
2,087.0	0.09	65.91	2,085.3	24.4	39.2	7.9	0.07	
2,112.0	0.07	78.29	2,110.3	24.4	39.2	7.8	0.11	
2,137.0	0.11	351.60	2,135.3	24.4	39.2	7.9	0.51	
2,162.0	0.10	335.25	2,160.3	24.5	39.2	7.9	0.13	
2,187.0	0.17	22.91	2,185.3	24.5	39.2	8.0	0.51	
2,212.0	0.09	312.13	2,210.3	24.6	39.2	8.0	0.66	
2,237.0	0.07	341.92	2,235.3	24.6	39.2	8.0	0.18	
2,262.0	0.12	318.11	2,260.3	24.6	39.2	8.1	0.25	
2,287.0	0.10	343.09	2,285.3	24.7	39.1	8.1	0.21	
2,312.0	0.09	357.66	2,310.3	24.7	39.1	8.2	0.10	
2,337.0	0.10	358.67	2,335.3	24.8	39.1	8.2	0.04	
2,362.0	0.15	284.34	2,360.3	24.8	39.1	8.2	0.62	
2,387.0	0.08	318.36	2,385.3	24.8	39.0	8.3	0.38	
2,412.0	0.14	353.58	2,410.3	24.9	39.0	8.3	0.35	
2,437.0	0.08	19.25	2,435.3	24.9	39.0	8.4	0.30	
2,462.0	0.11	355.12	2,460.3	24.9	39.0	8.4	0.20	
2,487.0	0.10	344.66	2,485.3	25.0	39.0	8.4	0.09	
2,512.0	0.14	16.86	2,510.3	25.0	39.0	8.5	0.31	
2,537.0	0.13	350.99	2,535.3	25.1	39.0	8.5	0.24	
2,562.0	0.28	344.68	2,560.3	25.2	39.0	8.6	0.61	



EOW Completion Report



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Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
2,587.0	0.38	331.23	2,585.3	25.3	39.0	8.8	0.50
2,612.0	0.40	316.00	2,610.3	25.5	38.9	8.9	0.42
2,637.0	0.44	316.95	2,635.3	25.6	38.7	9.1	0.16
2,662.0	0.44	328.11	2,660.3	25.7	38.6	9.3	0.34
2,687.0	0.43	337.17	2,685.3	25.9	38.5	9.5	0.28
2,712.0	0.38	325.82	2,710.3	26.1	38.4	9.7	0.38
2,737.0	0.49	308.49	2,735.3	26.2	38.3	9.8	0.68
2,762.0	0.47	311.53	2,760.3	26.3	38.2	10.0	0.13
2,787.0	0.42	309.97	2,785.3	26.5	38.0	10.2	0.21
2,812.0	0.47	324.33	2,810.3	26.6	37.9	10.4	0.49
2,837.0	0.47	320.95	2,835.3	26.8	37.8	10.6	0.11
2,862.0	0.54	300.49	2,860.3	26.9	37.6	10.8	0.77
2,887.0	0.44	330.08	2,885.3	27.0	37.4	10.9	1.07
2,912.0	0.54	304.73	2,910.3	27.2	37.3	11.1	0.94
2,937.0	0.53	314.38	2,935.3	27.3	37.1	11.3	0.36
2,962.0	0.48	324.21	2,960.3	27.5	37.0	11.6	0.40
2,987.0	0.55	312.91	2,985.3	27.7	36.8	11.8	0.49
3,012.0	0.51	318.63	3,010.3	27.8	36.7	12.0	0.27
3,037.0	0.53	323.77	3,035.3	28.0	36.5	12.2	0.20
3,062.0	0.55	317.17	3,060.3	28.2	36.4	12.4	0.26
3,087.0	0.55	314.96	3,085.3	28.4	36.2	12.6	0.08
3,112.0	0.53	324.32	3,110.3	28.6	36.0	12.9	0.36
3,137.0	0.62	322.19	3,135.3	28.8	35.9	13.1	0.37
3,162.0	0.56	319.40	3,160.3	29.0	35.7	13.4	0.27
3,187.0	0.42	337.92	3,185.3	29.1	35.6	13.6	0.84
3,212.0	0.54	320.71	3,210.3	29.3	35.5	13.8	0.75
3,237.0	0.66	319.39	3,235.3	29.5	35.3	14.0	0.48
3,262.0	0.64	326.63	3,260.3	29.7	35.2	14.3	0.34
3,287.0	0.50	314.65	3,285.3	29.9	35.0	14.5	0.73
3,312.0	0.61	313.41	3,310.3	30.1	34.8	14.7	0.44
3,337.0	0.63	329.06	3,335.3	30.3	34.7	15.0	0.68
3,362.0	0.59	319.46	3,360.3	30.5	34.5	15.3	0.44
3,387.0	0.53	322.64	3,385.3	30.7	34.4	15.5	0.27
3,412.0	0.67	308.74	3,410.3	30.9	34.2	15.7	0.80
3,437.0	0.72	325.50	3,435.3	31.1	34.0	16.0	0.83
3,462.0	0.68	318.26	3,460.3	31.4	33.8	16.3	0.39
3,487.0	0.65	310.94	3,485.3	31.6	33.6	16.6	0.36
3,512.0	0.63	323.72	3,510.3	31.8	33.4	16.8	0.58
3,537.0	0.57	320.61	3,535.3	32.0	33.2	17.1	0.27
3,562.0	0.53	330.42	3,560.3	32.2	33.1	17.3	0.41
3,587.0	0.88	36.83	3,585.3	32.4	33.2	17.5	3.30
3,612.0	1.91	52.18	3,610.3	32.8	33.6	17.7	4.35
3,637.0	2.62	62.96	3,635.2	33.3	34.4	17.9	3.30
3,662.0	3.36	61.32	3,660.2	34.0	35.6	18.0	2.98

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JUN 21 2016



EOW Completion Report



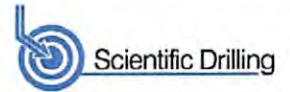
Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
3,687.0	4.32	69.60	3,685.1	34.6	37.1	18.1	4.42	
3,712.0	5.22	71.86	3,710.1	35.3	39.1	18.0	3.68	
3,737.0	6.07	73.28	3,734.9	36.0	41.4	17.8	3.45	
3,762.0	7.10	73.77	3,759.8	36.9	44.2	17.5	4.13	
3,787.0	7.72	75.08	3,784.6	37.7	47.3	17.1	2.57	
3,812.0	8.14	75.97	3,809.3	38.6	50.6	16.7	1.75	
3,837.0	8.69	78.02	3,834.0	39.4	54.2	16.1	2.51	
3,862.0	8.99	81.14	3,858.8	40.1	58.0	15.3	2.26	
3,887.0	9.31	82.82	3,883.4	40.7	61.9	14.3	1.67	
3,912.0	9.66	85.14	3,908.1	41.1	66.0	13.2	2.07	
3,937.0	10.22	86.94	3,932.7	41.4	70.3	11.8	2.56	
3,962.0	10.81	86.89	3,957.3	41.6	74.9	10.4	2.36	
3,987.0	11.58	86.61	3,981.8	41.9	79.7	8.8	3.09	
4,012.0	12.02	86.80	4,006.3	42.2	84.8	7.1	1.77	
4,037.0	12.76	87.24	4,030.7	42.5	90.2	5.4	2.98	
4,062.0	13.44	87.86	4,055.1	42.7	95.8	3.5	2.78	
4,087.0	13.87	88.47	4,079.4	42.9	101.7	1.4	1.81	
4,112.0	14.13	88.67	4,103.6	43.1	107.8	-0.7	1.06	
4,137.0	14.51	89.25	4,127.8	43.2	114.0	-2.9	1.62	
4,162.0	14.81	89.63	4,152.0	43.2	120.3	-5.3	1.26	
4,187.0	15.08	90.60	4,176.2	43.2	126.7	-7.7	1.47	
4,212.0	15.38	91.22	4,200.3	43.1	133.3	-10.3	1.37	
4,237.0	15.36	91.24	4,224.4	43.0	139.9	-12.9	0.08	
4,262.0	15.80	91.12	4,248.5	42.8	146.6	-15.6	1.76	
4,287.0	16.64	90.28	4,272.5	42.7	153.6	-18.3	3.49	
4,312.0	17.27	90.33	4,296.4	42.7	160.9	-21.1	2.52	
4,337.0	17.83	91.48	4,320.2	42.6	168.4	-24.0	2.63	
4,362.0	18.94	92.38	4,344.0	42.3	176.3	-27.2	4.58	
4,387.0	19.69	94.11	4,367.6	41.8	184.6	-30.8	3.77	
4,412.0	20.30	96.44	4,391.0	41.1	193.1	-34.7	4.01	
4,437.0	21.42	98.52	4,414.4	39.9	201.9	-39.1	5.37	
4,462.0	22.45	99.52	4,437.6	38.4	211.1	-43.9	4.38	
4,487.0	22.78	99.85	4,460.7	36.8	220.6	-49.0	1.41	
4,512.0	23.63	99.91	4,483.7	35.1	230.3	-54.2	3.40	
4,537.0	24.83	100.62	4,506.5	33.3	240.4	-59.7	4.94	
4,562.0	25.13	100.86	4,529.1	31.3	250.8	-65.5	1.27	
4,587.0	25.87	100.88	4,551.7	29.3	261.4	-71.3	2.96	
4,612.0	26.28	100.73	4,574.1	27.2	272.2	-77.3	1.66	
4,637.0	26.50	100.47	4,596.5	25.2	283.1	-83.3	0.99	
4,662.0	26.95	99.81	4,618.9	23.2	294.1	-89.3	2.16	
4,687.0	26.75	97.88	4,641.2	21.5	305.3	-95.1	3.58	
4,712.0	26.73	97.15	4,663.5	20.0	316.4	-100.7	1.32	
4,737.0	27.04	96.55	4,685.8	18.7	327.7	-106.2	1.65	
4,762.0	27.01	96.27	4,708.1	17.4	339.0	-111.6	0.52	

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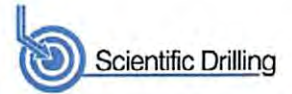


Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
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Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
4,787.0	27.39	95.62	4,730.3	16.2	350.3	-117.0	1.93	
4,812.0	27.74	95.21	4,752.5	15.1	361.8	-122.3	1.59	
4,837.0	27.75	94.66	4,774.6	14.1	373.4	-127.6	1.02	
4,862.0	27.69	93.65	4,796.7	13.3	385.0	-132.8	1.89	
4,887.0	27.97	92.68	4,818.8	12.6	396.7	-137.7	2.13	
4,912.0	28.17	91.78	4,840.9	12.2	408.4	-142.6	1.87	
4,937.0	28.00	90.69	4,862.9	11.9	420.2	-147.3	2.16	
4,962.0	27.83	89.36	4,885.0	11.9	431.9	-151.7	2.58	
4,987.0	27.62	88.61	4,907.2	12.1	443.5	-155.9	1.63	
5,012.0	27.09	88.38	4,929.4	12.4	455.0	-159.9	2.16	
5,037.0	27.41	88.41	4,951.6	12.7	466.5	-163.9	1.28	
5,062.0	28.01	88.33	4,973.7	13.1	478.1	-168.0	2.40	
5,087.0	28.13	88.56	4,995.8	13.4	489.8	-172.1	0.65	
5,112.0	27.85	88.33	5,017.9	13.7	501.6	-176.3	1.20	
5,137.0	27.29	87.87	5,040.0	14.1	513.1	-180.3	2.40	
5,162.0	27.58	87.41	5,062.2	14.6	524.6	-184.1	1.44	
5,187.0	27.63	87.61	5,084.4	15.1	536.2	-188.0	0.42	
5,212.0	27.67	87.86	5,106.5	15.5	547.8	-192.0	0.49	
5,237.0	27.51	87.94	5,128.7	16.0	559.4	-195.9	0.66	
5,262.0	27.38	87.67	5,150.8	16.4	570.9	-199.9	0.72	
5,287.0	27.47	86.95	5,173.0	16.9	582.4	-203.7	1.37	
5,312.0	27.04	86.09	5,195.3	17.6	593.8	-207.4	2.33	
5,337.0	26.76	86.29	5,217.6	18.4	605.1	-210.9	1.18	
5,362.0	26.61	86.96	5,239.9	19.0	616.3	-214.5	1.34	
5,387.0	26.31	87.85	5,262.3	19.5	627.4	-218.3	1.99	
5,412.0	26.31	88.79	5,284.7	19.9	638.5	-222.1	1.67	
5,437.0	26.39	90.48	5,307.1	19.9	649.6	-226.2	3.02	
5,462.0	26.59	91.96	5,329.5	19.7	660.8	-230.7	2.76	
5,487.0	26.55	92.82	5,351.8	19.2	671.9	-235.3	1.55	
5,512.0	26.65	93.13	5,374.2	18.7	683.1	-240.1	0.68	
5,537.0	26.47	92.85	5,396.5	18.1	694.3	-244.8	0.88	
5,562.0	26.95	92.38	5,418.9	17.6	705.5	-249.5	2.10	
5,587.0	26.99	91.59	5,441.2	17.2	716.8	-254.1	1.44	
5,612.0	26.91	90.88	5,463.4	16.9	728.2	-258.6	1.33	
5,637.0	26.82	90.06	5,485.7	16.8	739.5	-263.0	1.53	
5,662.0	26.61	89.75	5,508.1	16.8	750.7	-267.2	1.01	
5,687.0	26.28	89.62	5,530.5	16.9	761.8	-271.3	1.34	
5,712.0	25.34	89.61	5,553.0	17.0	772.7	-275.4	3.76	
5,737.0	25.14	90.18	5,575.6	17.0	783.4	-279.4	1.26	
5,762.0	25.59	90.53	5,598.2	16.9	794.1	-283.5	1.90	
5,787.0	26.35	90.74	5,620.6	16.8	805.0	-287.7	3.06	
5,812.0	26.46	90.59	5,643.0	16.7	816.2	-292.0	0.51	
5,837.0	26.32	90.34	5,665.4	16.6	827.3	-296.3	0.71	
5,853.0	26.62	90.35	5,679.7	16.6	834.4	-299.0	1.88	



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Design:	As Drilled	Database:	Oklahoma District

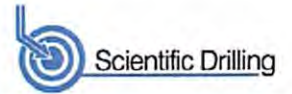
Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,946.0	27.35	87.90	5,762.6	17.2	876.6	-314.3	1.43
5,978.0	26.56	87.07	5,791.1	17.8	891.1	-319.1	2.73
6,009.0	25.85	88.38	5,819.0	18.4	904.7	-323.8	2.95
6,040.0	25.25	85.75	5,846.9	19.1	918.1	-328.2	4.14
6,072.0	25.05	77.29	5,875.9	21.1	931.5	-331.4	11.24
6,103.0	25.91	67.87	5,903.9	25.1	944.2	-332.5	13.35
6,134.0	26.77	59.82	5,931.7	31.1	956.5	-331.5	11.84
6,166.0	26.83	50.95	5,960.3	39.3	968.4	-328.4	12.49
6,197.0	26.32	43.09	5,988.0	48.7	978.5	-323.5	11.45
6,229.0	26.37	38.63	6,016.7	59.5	987.8	-317.0	6.19
6,260.0	28.07	32.38	6,044.3	71.0	996.0	-309.4	10.72
6,291.0	30.05	27.42	6,071.4	84.1	1,003.5	-300.1	10.05
6,322.0	32.43	23.51	6,097.9	98.6	1,010.4	-289.3	10.08
6,354.0	35.71	20.13	6,124.4	115.2	1,017.0	-276.4	11.83
6,385.0	39.35	17.05	6,148.9	133.1	1,023.0	-262.1	13.21
6,409.0	41.74	14.93	6,167.2	148.1	1,027.3	-249.8	11.48
MDLX							
6,416.0	42.44	14.35	6,172.4	152.6	1,028.5	-246.0	11.48
6,448.0	45.44	10.99	6,195.4	174.3	1,033.3	-227.8	11.87
6,480.0	46.53	8.93	6,217.7	197.0	1,037.3	-208.3	5.75
6,511.0	48.20	6.61	6,238.7	219.6	1,040.4	-188.5	7.70
6,543.0	51.09	3.68	6,259.4	243.8	1,042.5	-166.9	11.41
6,575.0	54.74	359.72	6,278.7	269.4	1,043.3	-143.5	15.08
6,599.0	57.00	357.10	6,292.1	289.2	1,042.7	-124.9	13.05
BRKT							
6,606.0	57.67	356.36	6,295.9	295.1	1,042.4	-119.3	13.05
6,638.0	60.30	353.79	6,312.4	322.4	1,040.0	-93.1	10.72
6,659.0	62.15	352.82	6,322.5	340.7	1,037.9	-75.4	9.71
TLLY							
6,669.0	63.04	352.37	6,327.1	349.5	1,036.7	-66.8	9.71
6,701.0	66.49	350.56	6,340.8	378.1	1,032.4	-38.7	11.93
6,729.0	70.08	348.65	6,351.1	403.7	1,027.7	-13.2	14.32
HMLN							
6,733.0	70.60	348.38	6,352.5	407.4	1,027.0	-9.5	14.32
6,759.0	74.05	346.67	6,360.4	431.6	1,021.6	14.9	14.66
MRCL_HOT							
6,764.0	74.71	346.35	6,361.7	436.2	1,020.5	19.7	14.66
6,773.0	75.35	345.87	6,364.0	444.7	1,018.4	28.3	8.78
PRCL							
6,796.0	76.98	344.64	6,369.5	466.3	1,012.7	50.4	8.78
6,827.0	79.17	342.25	6,375.9	495.3	1,004.1	80.6	10.33
6,828.0	79.20	342.20	6,376.1	496.3	1,003.8	81.6	5.42
PRCL_B							
6,859.0	80.10	340.76	6,381.7	525.2	994.1	112.0	5.42
6,891.0	81.72	339.88	6,386.7	555.0	983.5	143.6	5.74

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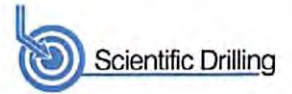
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
6,900.0	82.80	339.30	6,388.0	563.3	980.3	152.5	13.61
CRVL							
6,927.0	86.05	337.58	6,390.6	588.3	970.5	179.4	13.61
CRVL_B							
6,943.0	87.98	336.56	6,391.4	603.0	964.2	195.3	13.61
6,975.0	90.27	335.26	6,391.9	632.2	951.2	227.3	8.23
7,038.0	90.17	335.36	6,391.7	689.5	924.9	290.3	0.22
7,132.0	89.23	335.34	6,392.2	774.9	885.7	384.2	1.00
7,226.0	89.23	336.23	6,393.4	860.6	847.1	478.1	0.95
7,320.0	90.10	337.74	6,394.0	947.1	810.4	572.1	1.85
7,414.0	89.70	338.03	6,394.1	1,034.2	775.0	666.1	0.53
7,508.0	89.73	338.50	6,394.6	1,121.5	740.2	760.1	0.50
7,602.0	91.48	338.76	6,393.6	1,209.1	705.9	854.1	1.88
7,696.0	90.10	337.95	6,392.3	1,296.4	671.3	948.0	1.70
7,791.0	89.06	338.14	6,393.0	1,384.5	635.7	1,043.0	1.11
7,885.0	89.87	336.58	6,393.9	1,471.3	599.6	1,137.0	1.87
7,979.0	91.88	336.55	6,392.4	1,557.5	562.2	1,231.0	2.14
8,073.0	91.31	335.30	6,389.8	1,643.3	523.8	1,324.9	1.46
8,167.0	90.81	337.40	6,388.1	1,729.4	486.1	1,418.8	2.30
8,261.0	90.47	338.55	6,387.0	1,816.5	450.9	1,512.8	1.28
8,356.0	91.94	338.15	6,385.0	1,904.8	415.9	1,607.8	1.60
8,450.0	91.24	338.62	6,382.4	1,992.1	381.2	1,701.8	0.90
8,544.0	91.47	338.69	6,380.2	2,079.7	347.0	1,795.7	0.26
8,638.0	91.17	337.79	6,378.0	2,166.9	312.2	1,889.7	1.01
8,732.0	90.54	336.23	6,376.6	2,253.5	275.5	1,983.7	1.79
8,823.0	90.87	336.13	6,375.5	2,336.7	238.7	2,074.6	0.38
8,915.0	90.54	337.66	6,374.4	2,421.3	202.6	2,166.6	1.70
9,006.0	90.97	337.73	6,373.2	2,505.5	168.1	2,257.6	0.48
9,098.0	90.20	339.27	6,372.3	2,591.1	134.4	2,349.6	1.87
9,190.0	91.14	337.31	6,371.2	2,676.6	100.4	2,441.6	2.36
9,281.0	91.85	339.71	6,368.8	2,761.2	67.0	2,532.5	2.75
9,373.0	90.44	338.75	6,367.0	2,847.2	34.4	2,624.5	1.85
9,465.0	89.83	338.70	6,366.7	2,932.9	1.0	2,716.5	0.67
9,557.0	89.43	337.31	6,367.3	3,018.2	-33.4	2,808.5	1.57
9,649.0	89.83	338.96	6,367.9	3,103.6	-67.7	2,900.5	1.85
9,741.0	89.53	339.12	6,368.5	3,189.5	-100.6	2,992.4	0.37
9,834.0	91.04	338.13	6,368.0	3,276.1	-134.5	3,085.4	1.94
9,928.0	91.34	337.17	6,366.0	3,363.0	-170.2	3,179.4	1.07
10,022.0	89.97	336.54	6,365.0	3,449.5	-207.2	3,273.4	1.60
10,116.0	90.07	337.72	6,364.9	3,536.1	-243.7	3,367.4	1.26
10,211.0	89.77	339.15	6,365.1	3,624.4	-278.6	3,462.4	1.54
10,305.0	90.40	335.42	6,364.9	3,711.1	-314.9	3,556.3	4.02
10,399.0	89.70	337.81	6,364.8	3,797.4	-352.2	3,650.3	2.65
10,493.0	89.70	336.83	6,365.3	3,884.1	-388.4	3,744.3	1.04
10,587.0	90.10	342.15	6,365.5	3,972.1	-421.4	3,838.2	5.68



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Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

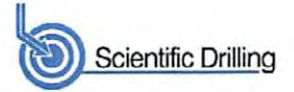
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
10,681.0	90.34	344.81	6,365.1	4,062.2	-448.1	3,931.8	2.84
10,776.0	89.56	343.21	6,365.2	4,153.5	-474.3	4,026.2	1.87
10,870.0	90.81	339.42	6,364.9	4,242.6	-504.4	4,120.0	4.25
10,964.0	90.23	337.58	6,364.1	4,330.0	-538.8	4,214.0	2.05
11,058.0	90.50	334.34	6,363.5	4,415.9	-577.1	4,307.9	3.46
11,152.0	89.70	335.85	6,363.3	4,501.1	-616.7	4,401.8	1.82
11,246.0	89.36	338.38	6,364.1	4,587.7	-653.2	4,495.8	2.72
11,340.0	89.03	337.40	6,365.4	4,674.8	-688.6	4,589.8	1.10
11,434.0	89.97	334.14	6,366.2	4,760.5	-727.2	4,683.7	3.61
11,528.0	91.24	335.17	6,365.2	4,845.4	-767.4	4,777.6	1.74
11,622.0	91.34	337.07	6,363.1	4,931.4	-805.5	4,871.5	2.02
11,716.0	90.47	334.65	6,361.6	5,017.1	-843.9	4,965.4	2.74
11,810.0	89.93	336.70	6,361.3	5,102.8	-882.6	5,059.3	2.26
11,904.0	89.53	339.02	6,361.7	5,189.8	-918.0	5,153.3	2.50
11,998.0	91.07	337.92	6,361.2	5,277.3	-952.5	5,247.3	2.01
12,092.0	90.84	337.44	6,359.7	5,364.2	-988.2	5,341.3	0.57
12,186.0	90.34	334.99	6,358.7	5,450.2	-1,026.1	5,435.3	2.66
12,280.0	89.83	340.35	6,358.6	5,537.1	-1,061.8	5,529.2	5.73
12,374.0	89.97	340.60	6,358.7	5,625.7	-1,093.2	5,623.1	0.30
12,468.0	89.93	340.85	6,358.8	5,714.5	-1,124.3	5,717.0	0.27
12,562.0	89.63	340.37	6,359.2	5,803.1	-1,155.5	5,810.9	0.60
12,657.0	90.03	343.30	6,359.5	5,893.4	-1,185.1	5,905.7	3.11
12,751.0	88.42	342.39	6,360.7	5,983.2	-1,212.8	5,999.3	1.97
12,845.0	87.34	337.84	6,364.2	6,071.5	-1,244.8	6,093.1	4.97
12,939.0	88.37	336.58	6,367.7	6,158.1	-1,281.1	6,187.1	1.73
13,033.0	90.04	333.76	6,369.0	6,243.4	-1,320.6	6,280.9	3.49
13,128.0	91.72	334.39	6,367.6	6,328.8	-1,362.1	6,375.7	1.89
13,222.0	91.98	332.72	6,364.5	6,412.9	-1,404.0	6,469.4	1.80
13,316.0	91.71	335.41	6,361.5	6,497.4	-1,445.1	6,563.1	2.87
13,410.0	90.47	336.73	6,359.7	6,583.3	-1,483.2	6,657.1	1.93
13,504.0	89.97	334.72	6,359.4	6,669.0	-1,521.8	6,751.0	2.20
13,598.0	90.03	334.46	6,359.4	6,753.9	-1,562.2	6,844.8	0.28
13,692.0	89.46	332.62	6,359.8	6,838.1	-1,604.0	6,938.6	2.05
13,757.0	89.34	334.03	6,360.5	6,896.1	-1,633.2	7,003.4	2.18
13,817.0	90.42	336.00	6,360.6	6,950.5	-1,658.6	7,063.3	3.74

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well Hiley Unit 2H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	Hiley Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,409.0	6,167.2	148.1	1,027.3	MDLX
6,599.0	6,292.1	289.2	1,042.7	BRKT
6,659.0	6,322.5	340.7	1,037.9	TLLY
6,729.0	6,351.1	403.7	1,027.7	HMLN
6,759.0	6,360.4	431.6	1,021.6	MRCL_HOT
6,773.0	6,364.0	444.7	1,018.4	PRCL
6,828.0	6,376.1	496.3	1,003.8	PRCL_B
6,900.0	6,388.0	563.3	980.3	CRVL
6,927.0	6,390.6	588.3	970.5	CRVL_B
13,817.0	6,360.6	6,950.5	-1,658.6	PTB

Checked By: _____ Approved By: _____ Date: _____

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