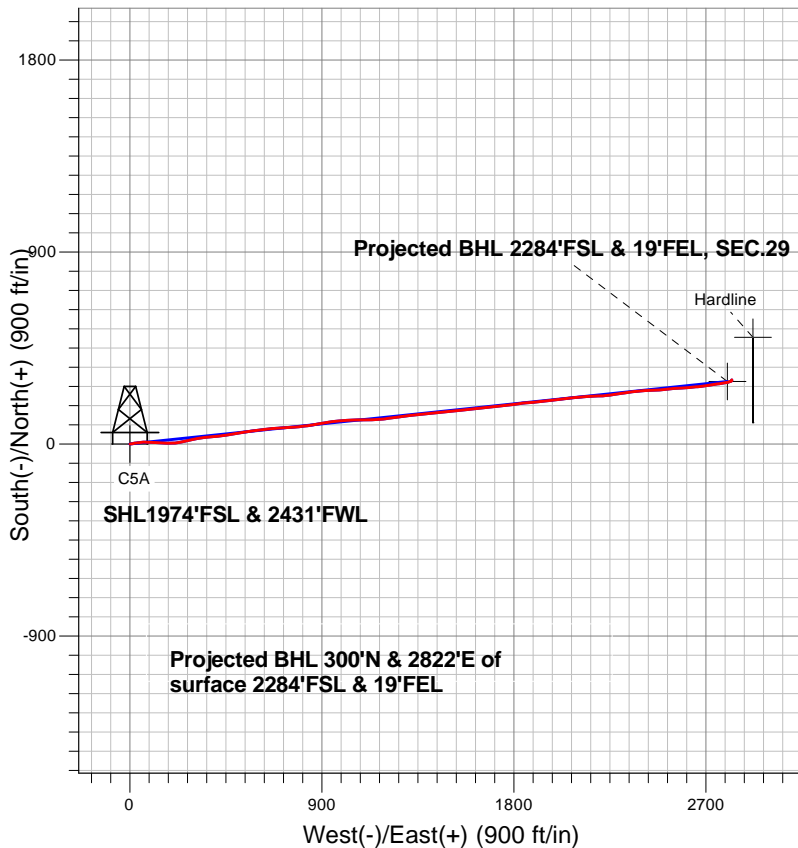


NGL Water Solutions DJ, LLC



LEGEND

- C5A, Wellbore #1, Plan 3 (Oct 1, 2015) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 9385'MD & 8812'TVD @
 1.2 deg Inc 9.6 deg AZ

Project: SEC.29-T2N-R64W
 Site: NGL C5A Pad Sec.29-T2N-R64W
 Well: C5A
 Plan: Wellbore #1



NGL Water Solutions DJ, LLC

SEC.29-T2N-R64W

NGL C5A Pad Sec.29-T2N-R64

W C5A

Wellbore #1

Survey: Survey #1

Standard Survey Report

09 October, 2015

Company:	NGL Water Solutions DJ, LLC	Local Co-ordinate Reference:	Well C5A
Project:	SEC.29-T2N-R64W	TVD Reference:	RKB @ 4953.0ft (Original Well Elev)
Site:	NGL C5A Pad Sec.29-T2N-R64	MD Reference:	RKB @ 4953.0ft (Original Well Elev)
Well:	W C5A	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Project	SEC.29-T2N-R64W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		NGL C5A Pad Sec.29-T2N-R64W				
Site Position:		Northing:	1,281,681.39	usft	Latitude:	40.102965
From:	Lat/Long	Easting:	3,256,564.90	usft	Longitude:	-104.582798
Position Uncertainty:	0.0	Slot Radius:	13-3/16	"	Grid Convergence:	0.59 °

Well	C5A					
Well Position	+N/-S	0.0 ft	Northing:	1,283,435.68 usft	Latitude:	40.107722
	+E/-W	0.0 ft	Easting:	3,258,549.60 usft	Longitude:	-104.575638
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,937.0 ft

Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/24/2015	8.38	66.63	52,411

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	84.03	

Survey Program		Date	10/9/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
136.0	9,385.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Hardline	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	10.3	0.03	83.50	10.3	0.0	0.0	0.0	0.29	0.29	0.00
	136.0	0.40	83.50	136.0	0.1	0.5	0.5	0.29	0.29	0.00
	227.0	0.60	116.30	227.0	-0.1	1.2	1.2	0.38	0.22	36.04
	320.0	0.40	81.30	320.0	-0.3	2.0	1.9	0.38	-0.22	-37.63
	412.0	0.40	62.30	412.0	-0.1	2.6	2.6	0.14	0.00	-20.65
	504.0	0.40	85.40	504.0	0.1	3.2	3.2	0.17	0.00	25.11
	577.0	0.50	70.10	577.0	0.2	3.7	3.7	0.21	0.14	-20.96
	661.0	0.80	80.50	661.0	0.4	4.7	4.7	0.38	0.36	12.38
	748.0	0.80	61.60	748.0	0.8	5.8	5.8	0.30	0.00	-21.72

Company:	NGL Water Solutions DJ, LLC	Local Co-ordinate Reference:	Well C5A
Project:	SEC.29-T2N-R64W	TVD Reference:	RKB @ 4957.0ft (Original Well Elev)
Site:	NGL C5A Pad Sec.29-T2N-R64	MD Reference:	RKB @ 4957.0ft (Original Well Elev)
Well:	W C5A	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
833.0	0.90	81.90	833.0	1.2	7.0	7.1	0.37	0.12	23.88
920.0	0.60	66.20	920.0	1.5	8.1	8.2	0.41	-0.34	-18.05
987.0	0.50	94.30	987.0	1.6	8.7	8.8	0.42	-0.15	41.94
1,059.0	0.50	88.00	1,058.9	1.6	9.3	9.4	0.08	0.00	-8.75
1,144.0	2.70	90.50	1,143.9	1.6	11.7	11.8	2.59	2.59	2.94
1,229.0	4.00	74.60	1,228.8	2.4	16.5	16.7	1.87	1.53	-18.71
1,314.0	5.30	80.30	1,313.5	3.8	23.3	23.5	1.62	1.53	6.71
1,399.0	6.90	83.80	1,398.0	5.0	32.2	32.6	1.93	1.88	4.12
1,484.0	8.20	81.90	1,482.3	6.4	43.3	43.7	1.56	1.53	-2.24
1,569.0	9.20	84.80	1,566.3	7.9	56.1	56.6	1.28	1.18	3.41
1,653.0	10.60	90.30	1,649.0	8.5	70.5	71.0	2.01	1.67	6.55
1,738.0	12.50	92.80	1,732.3	8.0	87.5	87.8	2.31	2.24	2.94
1,823.0	14.20	93.30	1,815.0	6.9	107.1	107.2	2.00	2.00	0.59
1,910.0	15.20	92.60	1,899.2	5.8	129.1	129.0	1.17	1.15	-0.80
1,995.0	16.10	92.60	1,981.0	4.7	152.0	151.7	1.06	1.06	0.00
2,080.0	17.30	92.20	2,062.4	3.7	176.4	175.9	1.42	1.41	-0.47
2,165.0	17.90	87.50	2,143.4	3.8	202.1	201.4	1.81	0.71	-5.53
2,250.0	17.80	80.10	2,224.4	6.6	228.0	227.4	2.67	-0.12	-8.71
2,335.0	17.40	77.10	2,305.4	11.7	253.2	253.0	1.17	-0.47	-3.53
2,420.0	17.80	76.40	2,386.4	17.6	278.2	278.5	0.53	0.47	-0.82
2,507.0	18.40	78.90	2,469.1	23.3	304.6	305.3	1.13	0.69	2.87
2,594.0	20.30	81.20	2,551.2	28.3	333.0	334.1	2.35	2.18	2.64
2,679.0	21.10	84.70	2,630.7	32.0	362.8	364.1	1.73	0.94	4.12
2,764.0	23.80	85.50	2,709.3	34.7	395.1	396.6	3.20	3.18	0.94
2,849.0	25.10	82.60	2,786.6	38.4	430.1	431.7	2.08	1.53	-3.41
2,936.0	24.70	80.30	2,865.5	43.8	466.3	468.3	1.20	-0.46	-2.64
3,021.0	24.20	80.30	2,942.9	49.8	501.0	503.4	0.59	-0.59	0.00
3,106.0	26.50	80.80	3,019.7	55.7	536.9	539.8	2.72	2.71	0.59
3,191.0	26.60	82.60	3,095.8	61.2	574.5	577.7	0.95	0.12	2.12
3,275.0	25.60	83.30	3,171.2	65.8	611.1	614.7	1.25	-1.19	0.83
3,362.0	24.70	84.50	3,250.0	69.7	647.9	651.6	1.19	-1.03	1.38
3,447.0	24.40	84.30	3,327.3	73.1	683.1	687.0	0.37	-0.35	-0.24
3,532.0	24.80	87.10	3,404.6	75.8	718.3	722.3	1.45	0.47	3.29
3,617.0	25.50	86.80	3,481.5	77.7	754.4	758.4	0.84	0.82	-0.35
3,704.0	26.60	83.80	3,559.7	80.9	792.5	796.6	1.97	1.26	-3.45
3,793.0	25.80	82.40	3,639.5	85.6	831.5	835.9	1.14	-0.90	-1.57
3,879.0	24.70	79.60	3,717.3	91.3	867.7	872.5	1.89	-1.28	-3.26
3,964.0	25.80	79.90	3,794.2	97.7	903.4	908.6	1.30	1.29	0.35
4,048.0	26.10	82.40	3,869.7	103.4	939.7	945.3	1.35	0.36	2.98
4,136.0	26.10	84.70	3,948.7	107.7	978.2	984.1	1.15	0.00	2.61
4,221.0	25.60	87.10	4,025.2	110.4	1,015.1	1,021.1	1.36	-0.59	2.82
4,306.0	25.80	88.40	4,101.8	111.8	1,051.9	1,057.9	0.70	0.24	1.53
4,393.0	28.40	89.20	4,179.3	112.7	1,091.6	1,097.4	3.02	2.99	0.92

Company:	NGL Water Solutions DJ, LLC	Local Co-ordinate Reference:	Well C5A
Project:	SEC.29-T2N-R64W	TVD Reference:	RKB @ 4957.0ft (Original Well Elev)
Site:	NGL C5A Pad Sec.29-T2N-R64	MD Reference:	RKB @ 4957.0ft (Original Well Elev)
Well:	W C5A	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,478.0	29.60	87.80	4,253.6	113.7	1,132.8	1,138.4	1.62	1.41	-1.65
4,563.0	27.30	86.10	4,328.4	115.9	1,173.2	1,178.9	2.87	-2.71	-2.00
4,648.0	25.80	81.50	4,404.4	119.9	1,210.9	1,216.8	2.99	-1.76	-5.41
4,733.0	24.40	81.70	4,481.4	125.2	1,246.6	1,252.9	1.65	-1.65	0.24
4,818.0	23.20	83.40	4,559.1	129.7	1,280.6	1,287.1	1.63	-1.41	2.00
4,903.0	23.80	84.00	4,637.1	133.4	1,314.3	1,321.0	0.76	0.71	0.71
4,988.0	25.30	83.80	4,714.4	137.1	1,349.4	1,356.4	1.77	1.76	-0.24
5,073.0	25.10	83.10	4,791.3	141.3	1,385.4	1,392.5	0.42	-0.24	-0.82
5,160.0	23.10	84.00	4,870.7	145.3	1,420.7	1,428.1	2.34	-2.30	1.03
5,245.0	22.10	84.50	4,949.2	148.5	1,453.2	1,460.7	1.20	-1.18	0.59
5,330.0	23.60	85.20	5,027.5	151.5	1,486.0	1,493.7	1.79	1.76	0.82
5,415.0	24.40	84.70	5,105.2	154.5	1,520.5	1,528.3	0.97	0.94	-0.59
5,502.0	24.90	84.00	5,184.2	158.1	1,556.6	1,564.6	0.67	0.57	-0.80
5,587.0	24.40	83.30	5,261.5	162.0	1,591.8	1,600.0	0.68	-0.59	-0.82
5,673.0	22.80	82.00	5,340.3	166.4	1,626.0	1,634.5	1.96	-1.86	-1.51
5,758.0	21.90	83.60	5,418.9	170.5	1,658.0	1,666.8	1.28	-1.06	1.88
5,843.0	22.50	85.40	5,497.6	173.6	1,690.0	1,698.9	1.07	0.71	2.12
5,928.0	22.40	83.80	5,576.2	176.6	1,722.3	1,731.3	0.73	-0.12	-1.88
6,013.0	23.00	83.80	5,654.6	180.2	1,754.9	1,764.1	0.71	0.71	0.00
6,099.0	24.70	82.90	5,733.2	184.2	1,789.4	1,798.9	2.02	1.98	-1.05
6,184.0	24.30	81.90	5,810.6	188.8	1,824.4	1,834.1	0.68	-0.47	-1.18
6,269.0	23.30	85.00	5,888.4	192.8	1,858.4	1,868.4	1.88	-1.18	3.65
6,354.0	23.10	87.00	5,966.5	195.1	1,891.8	1,901.9	0.96	-0.24	2.35
6,439.0	24.20	82.00	6,044.4	198.4	1,925.8	1,935.9	2.69	1.29	-5.88
6,523.0	25.70	82.00	6,120.5	203.3	1,960.8	1,971.4	1.79	1.79	0.00
6,608.0	24.40	82.90	6,197.5	208.1	1,996.5	2,007.3	1.59	-1.53	1.06
6,696.0	23.10	83.30	6,278.1	212.3	2,031.7	2,042.8	1.49	-1.48	0.45
6,781.0	21.80	83.80	6,356.6	216.0	2,064.0	2,075.2	1.55	-1.53	0.59
6,866.0	21.60	85.00	6,435.6	219.1	2,095.2	2,106.7	0.57	-0.24	1.41
6,952.0	22.70	87.10	6,515.3	221.3	2,127.6	2,139.1	1.58	1.28	2.44
7,037.0	24.40	88.40	6,593.2	222.6	2,161.5	2,172.9	2.09	2.00	1.53
7,122.0	25.90	86.40	6,670.1	224.3	2,197.6	2,209.0	2.03	1.76	-2.35
7,207.0	25.00	84.00	6,746.9	227.3	2,234.0	2,245.5	1.61	-1.06	-2.82
7,292.0	24.50	81.30	6,824.1	231.8	2,269.3	2,281.1	1.45	-0.59	-3.18
7,376.0	25.40	81.00	6,900.2	237.3	2,304.3	2,316.5	1.08	1.07	-0.36
7,461.0	27.30	82.60	6,976.4	242.7	2,341.6	2,354.2	2.39	2.24	1.88
7,546.0	24.50	83.60	7,052.8	247.1	2,378.5	2,391.3	3.33	-3.29	1.18
7,631.0	24.00	87.00	7,130.3	250.0	2,413.2	2,426.2	1.74	-0.59	4.00
7,716.0	23.90	88.20	7,208.0	251.4	2,447.7	2,460.6	0.59	-0.12	1.41
7,803.0	24.90	84.50	7,287.3	253.8	2,483.6	2,496.5	2.10	1.15	-4.25
7,890.0	24.20	84.80	7,366.4	257.1	2,519.6	2,532.6	0.82	-0.80	0.34
7,975.0	22.60	85.90	7,444.4	259.9	2,553.2	2,566.4	1.95	-1.88	1.29
8,060.0	23.40	86.10	7,522.6	262.2	2,586.3	2,599.6	0.95	0.94	0.24

Company:	NGL Water Solutions DJ, LLC	Local Co-ordinate Reference:	Well C5A
Project:	SEC.29-T2N-R64W	TVD Reference:	RKB @ 4957.0ft (Original Well Elev)
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Well:	W C5A	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,145.0	23.30	85.70	7,600.7	264.6	2,619.9	2,633.2	0.22	-0.12	-0.47	
8,230.0	22.80	84.30	7,678.9	267.5	2,653.1	2,666.5	0.87	-0.59	-1.65	
8,314.0	19.20	82.20	7,757.3	271.0	2,683.0	2,696.6	4.38	-4.29	-2.50	
8,399.0	17.10	81.70	7,838.1	274.7	2,709.2	2,723.1	2.48	-2.47	-0.59	
8,484.0	15.60	81.00	7,919.6	278.3	2,732.9	2,747.0	1.78	-1.76	-0.82	
8,568.0	13.90	82.70	8,000.9	281.3	2,754.0	2,768.3	2.09	-2.02	2.02	
8,653.0	12.10	81.00	8,083.7	284.0	2,772.9	2,787.4	2.16	-2.12	-2.00	
8,738.0	9.30	79.90	8,167.2	286.6	2,788.5	2,803.2	3.30	-3.29	-1.29	
8,823.0	7.30	77.30	8,251.3	289.0	2,800.5	2,815.4	2.39	-2.35	-3.06	
8,908.0	4.40	71.30	8,335.9	291.2	2,808.9	2,824.0	3.48	-3.41	-7.06	
8,993.0	3.80	70.80	8,420.6	293.2	2,814.6	2,829.9	0.71	-0.71	-0.59	
9,078.0	1.90	56.70	8,505.5	294.9	2,818.5	2,833.9	2.37	-2.24	-16.59	
9,153.0	0.90	38.60	8,580.5	296.1	2,819.9	2,835.4	1.44	-1.33	-24.13	
9,238.0	1.00	35.10	8,665.5	297.2	2,820.7	2,836.3	0.14	0.12	-4.12	
9,323.0	1.20	9.80	8,750.5	298.7	2,821.3	2,837.1	0.61	0.24	-29.76	
9,335.0	1.20	9.60	8,762.5	298.9	2,821.4	2,837.1	0.03	0.00	-1.67	
9,385.0	1.20	9.60	8,812.5	300.0	2,821.5	2,837.4	0.00	0.00	0.00	
BHL 2277'FSL & 40'FEL Sec 29										

Checked By: _____	Approved By: _____	Date: _____
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