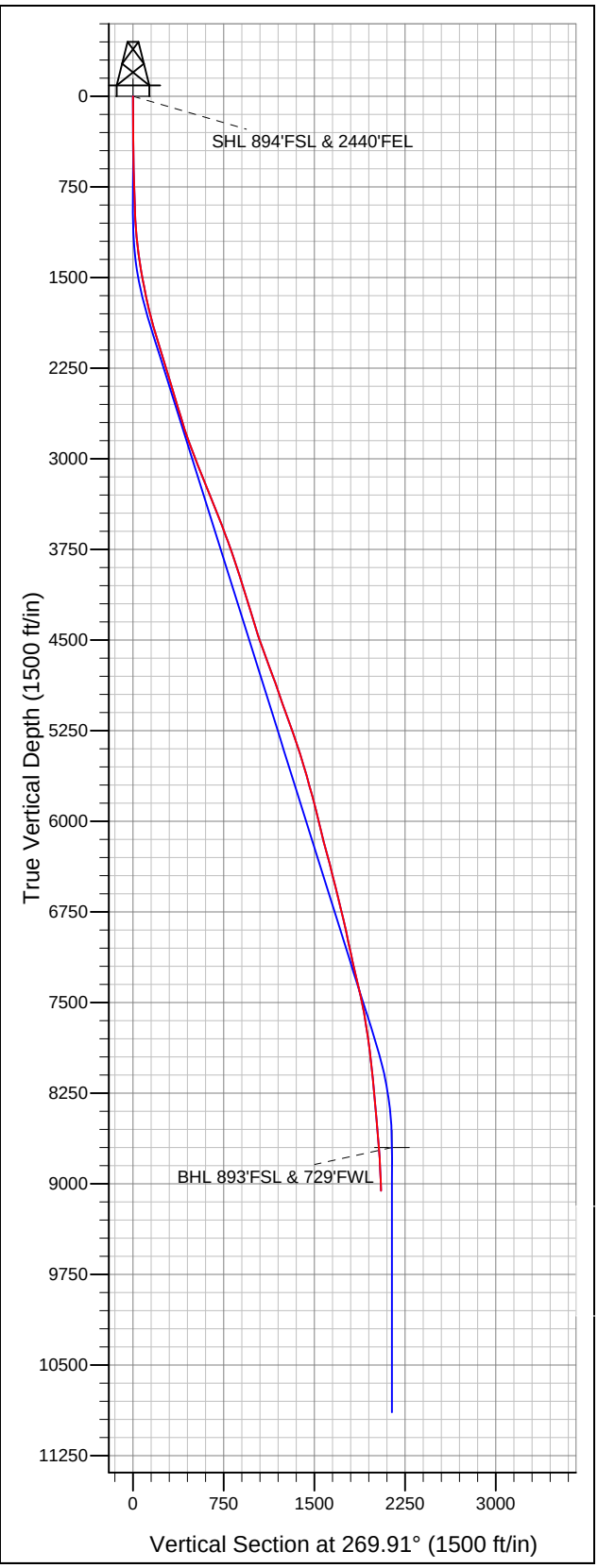
ENSIGN Directional

Well Name: NGL C-6A

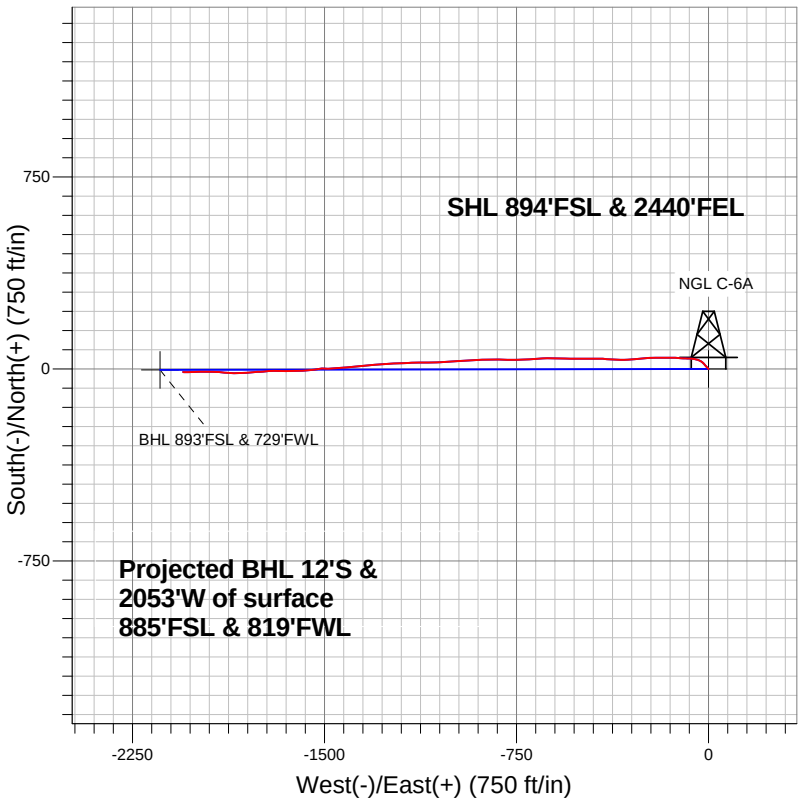
Surface Location: NGL C-6A Pad Sec.30-T3N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4953.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1313655.12	3221964.72	40.191650	-104.705460	

Ensign Rig # 138 RKB - 13' WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')



NGL Water Solutions DJ, LLC



LEGEND

- **NGL C-6A, Wellbore #1, Plan #2 (1-28-15) V0**
- **Wellbore #1**
- **Survey #1**

Final Survey Plot

Projected Final Survey -
9350'MD & 9057'TVD @ 2053'VS
2.3 deg Inc 276.5 deg AZ

Project: SEC.30-T3N-R65W
Site: NGL C-6A Pad Sec.30-T3N-R65W
Well: NGL C-6A
Plan: Wellbore #1

NGL Water Solutions DJ, LLC

SEC.30-T3N-R65W
NGL C-6A Pad Sec.30-T3N-R65W
NGL C-6A

Wellbore #1

Survey: Survey #1

Standard Survey Report

12 February, 2015

ENSIGN Directional

Survey Report

Company:	NGL Water Solutions DJ, LLC	**Local Co-ordinate Reference:**	Well NGL C-6A
Project:	SEC.30-T3N-R65W	**TVD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Site:	NGL C-6A Pad Sec.30-T3N-R65W	**MD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Well:	NGL C-6A	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	Landmark

Project SEC.30-T3N-R65W

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 C-6A Pad Sec.30-T3N-R65W

Site Position:		**Northing:**	1,313,655.12 ft	**Latitude:**	40.191650
From:	Lat/Long	**Easting:**	3,221,964.72 ft	**Longitude:**	-104.705460
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.51 °

Well NGL C-6A

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,313,655.12 ft	**Latitude:**	40.191650
	+E/-W	0.0 ft	**Easting:**	3,221,964.72 ft	**Longitude:**	-104.705460
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,953.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	8.34	66.77	52,654

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 (°)
	8,700.0	0.0	0.0	269.91

Survey Program **Date** 2/12/2015

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
905.0	9,350.0	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	318.20	1.0	0.0	0.0	0.0	0.31	0.31	0.00
SHL 894'FSL & 2440'FEL									
905.0	2.80	318.20	904.6	16.5	-14.7	14.7	0.31	0.31	0.00
1,000.0	4.00	316.30	999.5	20.6	-18.6	18.5	1.27	1.26	-2.00
1,096.0	6.00	309.90	1,095.1	26.2	-24.7	24.7	2.16	2.08	-6.67
1,191.0	6.90	299.00	1,189.5	32.2	-33.5	33.5	1.60	0.95	-11.47
1,286.0	7.50	286.00	1,283.8	36.7	-44.5	44.4	1.82	0.63	-13.68
1,381.0	8.70	278.50	1,377.8	39.4	-57.6	57.5	1.68	1.26	-7.89
1,476.0	9.80	271.70	1,471.6	40.7	-72.7	72.7	1.63	1.16	-7.16
1,572.0	11.00	272.80	1,566.0	41.4	-90.1	90.0	1.27	1.25	1.15
1,666.0	12.60	274.60	1,658.0	42.7	-109.2	109.2	1.75	1.70	1.91
1,761.0	13.10	271.20	1,750.6	43.8	-130.3	130.3	0.95	0.53	-3.58

Company:	NGL Water Solutions DJ, LLC	**Local Co-ordinate Reference:**	Well NGL C-6A
Project:	SEC.30-T3N-R65W	**TVD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Site:	NGL C-6A Pad Sec.30-T3N-R65W	**MD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Well:	NGL C-6A	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	Landmark

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)
1,856.0	13.80	269.60	1,843.0	43.9	-152.4	152.3	0.83	0.74	-1.68
1,951.0	17.20	270.60	1,934.6	44.0	-177.8	177.7	3.59	3.58	1.05
2,047.0	16.80	269.50	2,026.4	44.0	-205.9	205.8	0.53	-0.42	-1.15
2,142.0	16.80	266.70	2,117.3	43.1	-233.3	233.2	0.85	0.00	-2.95
2,237.0	17.10	265.50	2,208.2	41.2	-260.9	260.9	0.49	0.32	-1.26
2,332.0	16.50	264.30	2,299.1	38.8	-288.3	288.2	0.73	-0.63	-1.26
2,426.0	17.30	266.20	2,389.1	36.5	-315.5	315.5	1.03	0.85	2.02
2,522.0	17.20	271.00	2,480.8	35.8	-344.0	343.9	1.49	-0.10	5.00
2,617.0	16.50	273.60	2,571.7	36.9	-371.5	371.4	1.08	-0.74	2.74
2,712.0	16.80	275.00	2,662.7	38.9	-398.6	398.5	0.53	0.32	1.47
2,807.0	17.80	270.50	2,753.4	40.3	-426.8	426.7	1.76	1.05	-4.74
2,902.0	19.80	269.70	2,843.3	40.3	-457.4	457.3	2.12	2.11	-0.84
2,997.0	20.40	270.40	2,932.5	40.3	-490.1	490.0	0.68	0.63	0.74
3,092.0	21.20	269.50	3,021.3	40.3	-523.8	523.7	0.91	0.84	-0.95
3,187.0	22.40	272.00	3,109.6	40.8	-559.1	559.0	1.60	1.26	2.63
3,282.0	21.90	271.50	3,197.5	41.9	-594.9	594.8	0.56	-0.53	-0.53
3,377.0	21.80	269.00	3,285.7	42.0	-630.2	630.1	0.98	-0.11	-2.63
3,472.0	21.70	265.60	3,374.0	40.4	-665.4	665.3	1.33	-0.11	-3.58
3,568.0	21.10	267.20	3,463.3	38.2	-700.3	700.3	0.87	-0.63	1.67
3,663.0	21.50	267.20	3,551.9	36.5	-734.8	734.7	0.42	0.42	0.00
3,758.0	20.80	269.50	3,640.5	35.5	-769.0	769.0	1.14	-0.74	2.42
3,853.0	19.70	270.90	3,729.6	35.6	-801.9	801.9	1.27	-1.16	1.47
3,948.0	18.50	271.40	3,819.4	36.2	-833.0	832.9	1.27	-1.26	0.53
4,043.0	17.90	270.60	3,909.6	36.7	-862.7	862.6	0.68	-0.63	-0.84
4,137.0	17.00	267.90	3,999.3	36.4	-890.8	890.8	1.29	-0.96	-2.87
4,232.0	17.80	266.80	4,089.9	35.1	-919.2	919.2	0.91	0.84	-1.16
4,327.0	17.90	265.90	4,180.4	33.2	-948.3	948.2	0.31	0.11	-0.95
4,423.0	16.60	266.10	4,272.0	31.2	-976.7	976.6	1.36	-1.35	0.21
4,518.0	16.70	265.00	4,363.1	29.1	-1,003.8	1,003.8	0.35	0.11	-1.16
4,613.0	18.50	266.80	4,453.6	27.1	-1,032.5	1,032.4	1.98	1.89	1.89
4,708.0	19.50	268.70	4,543.4	25.9	-1,063.4	1,063.3	1.24	1.05	2.00
4,803.0	19.90	269.60	4,632.9	25.4	-1,095.4	1,095.3	0.53	0.42	0.95
4,898.0	20.20	269.20	4,722.1	25.1	-1,128.0	1,127.9	0.35	0.32	-0.42
4,993.0	20.40	268.30	4,811.2	24.4	-1,160.9	1,160.9	0.39	0.21	-0.95
5,088.0	19.40	266.90	4,900.5	23.0	-1,193.2	1,193.2	1.17	-1.05	-1.47
5,183.0	19.40	267.00	4,990.1	21.3	-1,224.7	1,224.7	0.03	0.00	0.11
5,278.0	19.00	267.10	5,079.9	19.7	-1,255.9	1,255.9	0.42	-0.42	0.11
5,373.0	20.40	266.50	5,169.3	17.9	-1,287.9	1,287.9	1.49	1.47	-0.63
5,468.0	19.60	265.20	5,258.6	15.6	-1,320.3	1,320.3	0.96	-0.84	-1.37
5,563.0	18.20	264.30	5,348.4	12.8	-1,350.9	1,350.9	1.51	-1.47	-0.95
5,658.0	18.50	263.50	5,438.6	9.6	-1,380.7	1,380.7	0.41	0.32	-0.84
5,753.0	16.50	264.50	5,529.2	6.6	-1,409.1	1,409.1	2.13	-2.11	1.05
5,848.0	15.90	264.70	5,620.4	4.1	-1,435.5	1,435.5	0.63	-0.63	0.21
5,944.0	15.80	266.70	5,712.8	2.1	-1,461.6	1,461.6	0.58	-0.10	2.08
6,039.0	14.80	270.30	5,804.4	1.5	-1,486.7	1,486.7	1.45	-1.05	3.79
6,134.0	14.10	270.00	5,896.4	1.5	-1,510.4	1,510.4	0.74	-0.74	-0.32
6,229.0	13.50	259.50	5,988.7	-0.5	-1,532.8	1,532.8	2.71	-0.63	-11.05
6,324.0	14.20	262.20	6,080.9	-4.1	-1,555.3	1,555.3	1.00	0.74	2.84
6,419.0	14.70	266.60	6,172.9	-6.4	-1,578.9	1,578.9	1.27	0.53	4.63
6,514.0	15.10	267.90	6,264.7	-7.6	-1,603.3	1,603.3	0.55	0.42	1.37
6,609.0	14.10	269.70	6,356.7	-8.1	-1,627.2	1,627.2	1.16	-1.05	1.89
6,704.0	14.20	271.00	6,448.8	-7.9	-1,650.4	1,650.4	0.35	0.11	1.37
6,799.0	14.40	273.00	6,540.8	-7.1	-1,673.9	1,673.9	0.56	0.21	2.11
6,895.0	13.60	268.30	6,634.0	-6.8	-1,697.1	1,697.1	1.45	-0.83	-4.90

Company:	NGL Water Solutions DJ, LLC	**Local Co-ordinate Reference:**	Well NGL C-6A
Project:	SEC.30-T3N-R65W	**TVD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Site:	NGL C-6A Pad Sec.30-T3N-R65W	**MD Reference:**	WELL @ 4966.0ft (Ensign Rig # 138 RKB - 13')
Well:	NGL C-6A	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	Landmark

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)
6,990.0	13.40	265.10	6,726.4	-8.1	-1,719.2	1,719.2	0.81	-0.21	-3.37
7,085.0	13.50	265.70	6,818.8	-9.9	-1,741.2	1,741.2	0.18	0.11	0.63
7,180.0	12.60	267.80	6,911.3	-11.1	-1,762.6	1,762.7	1.07	-0.95	2.21
7,275.0	12.10	266.70	7,004.1	-12.1	-1,782.9	1,783.0	0.58	-0.53	-1.16
7,370.0	12.00	260.80	7,097.0	-14.2	-1,802.6	1,802.6	1.30	-0.11	-6.21
7,465.0	13.10	265.90	7,189.7	-16.6	-1,823.1	1,823.1	1.64	1.16	5.37
7,560.0	12.80	272.80	7,282.3	-16.8	-1,844.4	1,844.4	1.66	-0.32	7.26
7,655.0	14.30	274.30	7,374.7	-15.4	-1,866.6	1,866.6	1.62	1.58	1.58
7,750.0	11.60	274.60	7,467.3	-13.8	-1,887.8	1,887.8	2.84	-2.84	0.32
7,845.0	10.20	274.90	7,560.5	-12.3	-1,905.7	1,905.7	1.47	-1.47	0.32
7,940.0	9.10	271.80	7,654.2	-11.4	-1,921.6	1,921.6	1.28	-1.16	-3.26
8,035.0	8.90	271.10	7,748.0	-11.0	-1,936.5	1,936.5	0.24	-0.21	-0.74
8,130.0	7.70	270.90	7,842.0	-10.7	-1,950.2	1,950.2	1.26	-1.26	-0.21
8,225.0	7.30	270.30	7,936.2	-10.6	-1,962.6	1,962.6	0.43	-0.42	-0.63
8,320.0	6.00	268.50	8,030.6	-10.7	-1,973.6	1,973.6	1.39	-1.37	-1.89
8,415.0	5.90	268.70	8,125.1	-10.9	-1,983.4	1,983.4	0.11	-0.11	0.21
8,510.0	5.30	269.00	8,219.6	-11.1	-1,992.7	1,992.7	0.63	-0.63	0.32
8,605.0	4.70	271.40	8,314.3	-11.1	-2,001.0	2,001.0	0.67	-0.63	2.53
8,700.0	5.00	268.90	8,408.9	-11.1	-2,009.0	2,009.0	0.39	0.32	-2.63
8,796.0	5.50	268.40	8,504.5	-11.3	-2,017.8	2,017.8	0.52	0.52	-0.52
8,891.0	4.40	267.20	8,599.2	-11.6	-2,026.0	2,026.0	1.16	-1.16	-1.26
8,986.0	4.30	265.80	8,693.9	-12.0	-2,033.1	2,033.2	0.15	-0.11	-1.47
8,999.6	4.20	266.21	8,707.5	-12.1	-2,034.2	2,034.2	0.77	-0.74	2.98
BHL 893'FSL & 729'FWL									
9,081.0	3.60	269.10	8,788.7	-12.4	-2,039.7	2,039.7	0.77	-0.74	3.56
9,176.0	3.00	269.50	8,883.5	-12.4	-2,045.1	2,045.2	0.63	-0.63	0.42
9,271.0	2.50	277.00	8,978.4	-12.2	-2,049.7	2,049.7	0.65	-0.53	7.89
9,350.0	2.30	276.50	9,057.3	-11.8	-2,053.0	2,053.0	0.25	-0.25	-0.63

Checked By: _____ Approved By: _____ Date: _____