

**SUMMIT**  
OILFIELD SERVICES, INC

Company: KLX  
Lease/Well: Houston 4-X  
State/County: Weld/CO  
API#: 05-123-13455

Survey Type: Memory Survey  
North Reference: True North  
Rig Name: NA  
RKB: NA

Date: 7/26/23  
Job Number: 13254-512313455  
Survey Engineer: Nathan Proffitt  
Instrument Number: GP1-1051

## Summit OilField Services

Houston 4-X Tubbing Survey

*Minimum Curvature Method*

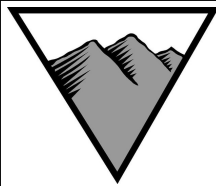
*Vertical Section Plane: 0.00*

*Vertical Section Reference: Wellhead*

*Rectangular Coordinates Reference: Wellhead*

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
0.00 ft	0.00	0.00	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00	0.00/100 ft
100.00 ft	0.45	143.44	100.00 ft	100.00 ft	-0.31 ft	-0.31 ft	0.23 ft	0.39 ft	143.44	0.45/100 ft
200.00 ft	0.58	147.06	100.00 ft	199.99 ft	-1.06 ft	-1.06 ft	0.74 ft	1.29 ft	144.87	0.14/100 ft
300.00 ft	0.54	160.45	100.00 ft	299.99 ft	-1.93 ft	-1.93 ft	1.18 ft	2.26 ft	148.57	0.14/100 ft
400.00 ft	0.54	160.18	100.00 ft	399.99 ft	-2.81 ft	-2.81 ft	1.49 ft	3.18 ft	152.01	0.00/100 ft
500.00 ft	0.33	149.31	100.00 ft	499.98 ft	-3.50 ft	-3.50 ft	1.80 ft	3.94 ft	152.78	0.22/100 ft
600.00 ft	0.48	137.65	100.00 ft	599.98 ft	-4.06 ft	-4.06 ft	2.23 ft	4.64 ft	151.21	0.17/100 ft
700.00 ft	0.50	189.55	100.00 ft	699.98 ft	-4.80 ft	-4.80 ft	2.44 ft	5.39 ft	153.02	0.43/100 ft
800.00 ft	0.50	203.80	100.00 ft	799.97 ft	-5.63 ft	-5.63 ft	2.20 ft	6.04 ft	158.68	0.12/100 ft
900.00 ft	0.37	193.19	100.00 ft	899.97 ft	-6.34 ft	-6.34 ft	1.95 ft	6.63 ft	162.91	0.15/100 ft
1000.00 ft	0.48	205.31	100.00 ft	999.97 ft	-7.03 ft	-7.03 ft	1.70 ft	7.23 ft	166.41	0.14/100 ft
1100.00 ft	0.28	201.68	100.00 ft	1099.97 ft	-7.63 ft	-7.63 ft	1.43 ft	7.76 ft	169.38	0.20/100 ft
1200.00 ft	0.38	188.07	100.00 ft	1199.96 ft	-8.18 ft	-8.18 ft	1.29 ft	8.28 ft	171.02	0.12/100 ft

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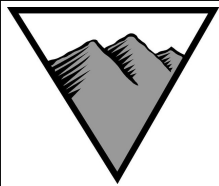
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Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
1300.00 ft	0.47	197.78	100.00 ft	1299.96 ft	-8.90 ft	-8.90 ft	1.12 ft	8.97 ft	172.81	0.11/100 ft
1400.00 ft	0.20	225.55	100.00 ft	1399.96 ft	-9.41 ft	-9.41 ft	0.87 ft	9.45 ft	174.70	0.30/100 ft
1500.00 ft	0.07	164.38	100.00 ft	1499.96 ft	-9.59 ft	-9.59 ft	0.76 ft	9.62 ft	175.46	0.18/100 ft
1600.00 ft	0.10	109.87	100.00 ft	1599.96 ft	-9.67 ft	-9.67 ft	0.86 ft	9.71 ft	174.91	0.08/100 ft
1700.00 ft	0.23	143.80	100.00 ft	1699.96 ft	-9.87 ft	-9.87 ft	1.06 ft	9.92 ft	173.84	0.16/100 ft
1800.00 ft	0.43	111.84	100.00 ft	1799.96 ft	-10.17 ft	-10.17 ft	1.54 ft	10.29 ft	171.41	0.27/100 ft
1900.00 ft	0.96	97.22	100.00 ft	1899.95 ft	-10.42 ft	-10.42 ft	2.72 ft	10.77 ft	165.37	0.55/100 ft
2000.00 ft	1.03	99.64	100.00 ft	1999.93 ft	-10.67 ft	-10.67 ft	4.44 ft	11.56 ft	157.41	0.08/100 ft
2100.00 ft	0.71	78.69	100.00 ft	2099.92 ft	-10.70 ft	-10.70 ft	5.93 ft	12.24 ft	151.00	0.45/100 ft
2200.00 ft	0.66	46.57	100.00 ft	2199.92 ft	-10.19 ft	-10.19 ft	6.95 ft	12.34 ft	145.68	0.38/100 ft
2300.00 ft	0.65	55.07	100.00 ft	2299.91 ft	-9.47 ft	-9.47 ft	7.84 ft	12.29 ft	140.38	0.10/100 ft
2400.00 ft	0.68	50.45	100.00 ft	2399.90 ft	-8.76 ft	-8.76 ft	8.76 ft	12.39 ft	135.00	0.06/100 ft
2500.00 ft	0.84	54.47	100.00 ft	2499.89 ft	-7.96 ft	-7.96 ft	9.82 ft	12.64 ft	129.03	0.17/100 ft
2600.00 ft	1.00	48.92	100.00 ft	2599.88 ft	-6.96 ft	-6.96 ft	11.07 ft	13.08 ft	122.15	0.18/100 ft
2700.00 ft	1.10	47.36	100.00 ft	2699.86 ft	-5.74 ft	-5.74 ft	12.44 ft	13.70 ft	114.77	0.10/100 ft
2800.00 ft	1.06	45.36	100.00 ft	2799.85 ft	-4.44 ft	-4.44 ft	13.80 ft	14.49 ft	107.83	0.05/100 ft
2900.00 ft	0.88	30.30	100.00 ft	2899.83 ft	-3.12 ft	-3.12 ft	14.85 ft	15.17 ft	101.88	0.31/100 ft
3000.00 ft	0.88	30.30	100.00 ft	2999.82 ft	-1.79 ft	-1.79 ft	15.62 ft	15.73 ft	96.55	0.00/100 ft
3100.00 ft	0.74	11.20	100.00 ft	3099.81 ft	-0.50 ft	-0.50 ft	16.14 ft	16.14 ft	91.76	0.30/100 ft
3200.00 ft	0.46	7.07	100.00 ft	3199.81 ft	0.53 ft	0.53 ft	16.31 ft	16.32 ft	88.13	0.28/100 ft
3300.00 ft	0.21	60.63	100.00 ft	3299.80 ft	1.02 ft	1.02 ft	16.52 ft	16.55 ft	86.48	0.37/100 ft

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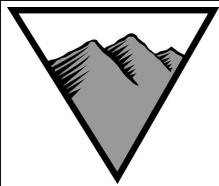
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Survey Engineer: Nathan Proffitt  
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
3400.00 ft	0.29	27.87	100.00 ft	3399.80 ft	1.33 ft	1.33 ft	16.79 ft	16.85 ft	85.47	0.16/100 ft
3500.00 ft	0.18	352.97	100.00 ft	3499.80 ft	1.71 ft	1.71 ft	16.89 ft	16.98 ft	84.20	0.18/100 ft
3600.00 ft	0.06	40.21	100.00 ft	3599.80 ft	1.92 ft	1.92 ft	16.91 ft	17.02 ft	83.53	0.15/100 ft
3700.00 ft	0.22	58.78	100.00 ft	3699.80 ft	2.06 ft	2.06 ft	17.11 ft	17.23 ft	83.14	0.16/100 ft
3800.00 ft	0.37	54.10	100.00 ft	3799.80 ft	2.35 ft	2.35 ft	17.53 ft	17.69 ft	82.38	0.16/100 ft
3900.00 ft	0.36	50.97	100.00 ft	3899.80 ft	2.73 ft	2.73 ft	18.04 ft	18.24 ft	81.38	0.03/100 ft
4000.00 ft	0.64	103.05	100.00 ft	3999.79 ft	2.80 ft	2.80 ft	18.82 ft	19.03 ft	81.53	0.51/100 ft
4100.00 ft	0.89	134.41	100.00 ft	4099.79 ft	2.13 ft	2.13 ft	19.92 ft	20.04 ft	83.89	0.48/100 ft
4200.00 ft	0.97	132.16	100.00 ft	4199.77 ft	1.02 ft	1.02 ft	21.11 ft	21.13 ft	87.24	0.09/100 ft
4300.00 ft	0.90	121.83	100.00 ft	4299.76 ft	0.03 ft	0.03 ft	22.41 ft	22.41 ft	89.91	0.18/100 ft
4400.00 ft	0.54	90.80	100.00 ft	4399.75 ft	-0.39 ft	-0.39 ft	23.55 ft	23.55 ft	90.94	0.52/100 ft
4500.00 ft	0.35	60.36	100.00 ft	4499.75 ft	-0.24 ft	-0.24 ft	24.28 ft	24.28 ft	90.57	0.30/100 ft
4600.00 ft	0.43	88.94	100.00 ft	4599.75 ft	-0.09 ft	-0.09 ft	24.92 ft	24.92 ft	90.20	0.21/100 ft
4700.00 ft	0.62	10.62	100.00 ft	4699.74 ft	0.46 ft	0.46 ft	25.39 ft	25.40 ft	88.97	0.68/100 ft
4800.00 ft	0.56	353.05	100.00 ft	4799.74 ft	1.47 ft	1.47 ft	25.43 ft	25.48 ft	86.68	0.19/100 ft
4900.00 ft	0.80	338.50	100.00 ft	4899.73 ft	2.60 ft	2.60 ft	25.12 ft	25.25 ft	84.09	0.29/100 ft
5000.00 ft	0.75	350.97	100.00 ft	4999.72 ft	3.90 ft	3.90 ft	24.76 ft	25.07 ft	81.05	0.17/100 ft
5100.00 ft	1.00	6.34	100.00 ft	5099.71 ft	5.41 ft	5.41 ft	24.76 ft	25.34 ft	77.67	0.34/100 ft
5200.00 ft	0.93	348.98	100.00 ft	5199.70 ft	7.08 ft	7.08 ft	24.70 ft	25.69 ft	74.01	0.30/100 ft
5300.00 ft	1.12	347.54	100.00 ft	5299.68 ft	8.83 ft	8.83 ft	24.33 ft	25.88 ft	70.05	0.19/100 ft
5400.00 ft	1.28	353.03	100.00 ft	5399.66 ft	10.90 ft	10.90 ft	23.98 ft	26.34 ft	65.56	0.20/100 ft

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5500.00 ft	1.24	358.76	100.00 ft	5499.63 ft	13.09 ft	13.09 ft	23.82 ft	27.18 ft	61.21	0.13/100 ft
5600.00 ft	0.80	17.12	100.00 ft	5599.62 ft	14.85 ft	14.85 ft	24.01 ft	28.23 ft	58.27	0.54/100 ft
5700.00 ft	0.75	34.53	100.00 ft	5699.61 ft	16.06 ft	16.06 ft	24.58 ft	29.36 ft	56.85	0.24/100 ft
5800.00 ft	0.68	53.16	100.00 ft	5799.60 ft	16.95 ft	16.95 ft	25.43 ft	30.56 ft	56.31	0.24/100 ft

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# JobMaster Program Version 5.01C1

Job Number: 87990

Customer: MDS

Well Name: Houston 4-X

