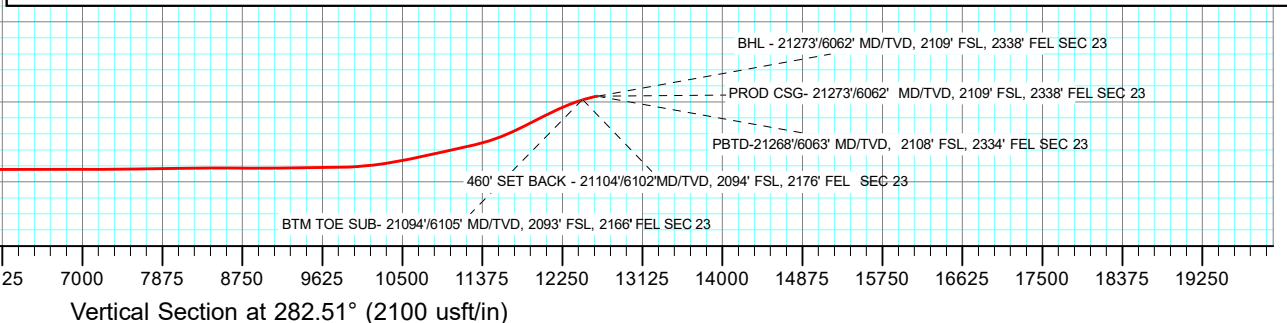
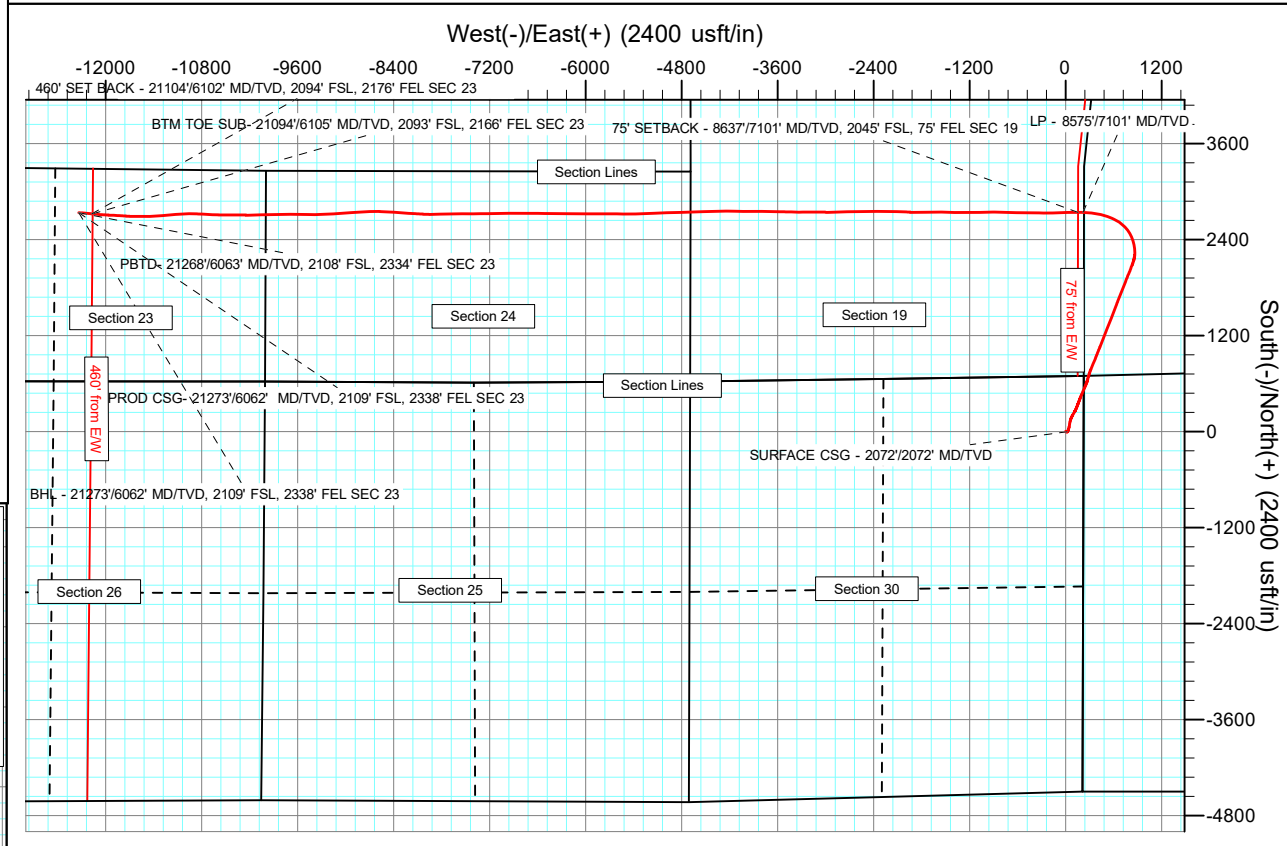
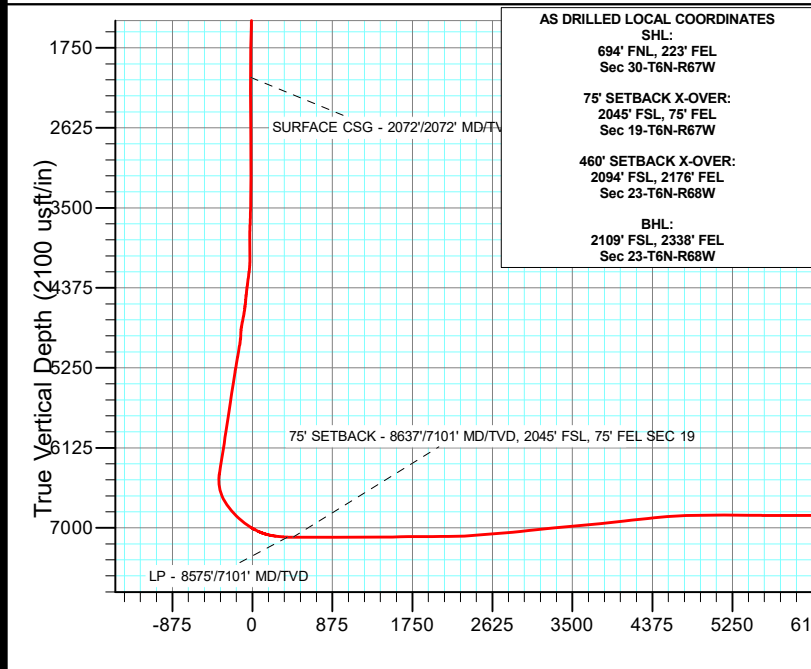
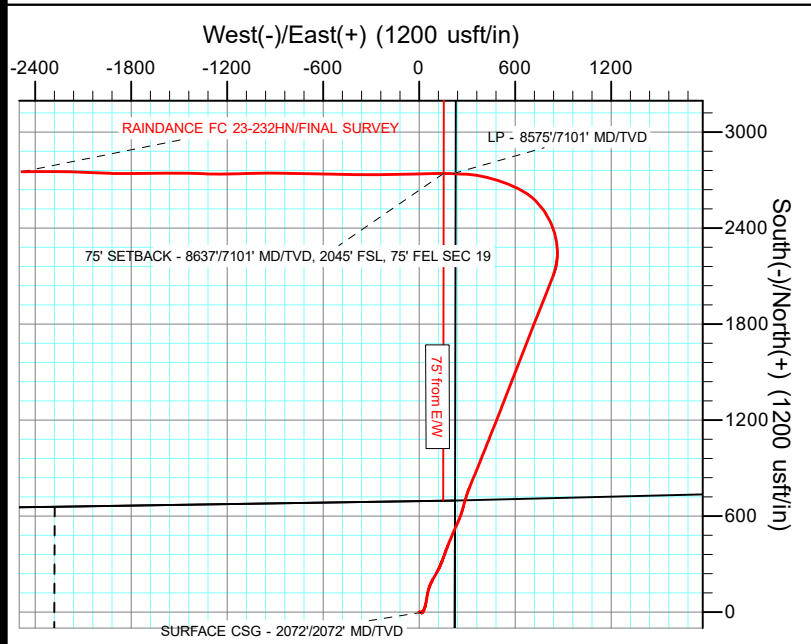


Project: WELD COUNTY
Site: SEC 30-T6N-R67W
Well: RAINDANCE FC 23-232HN
Wellbore: OWB
Design: FINAL SURVEY
API : 05-123-51581

PROJECT DETAILS: WELD COUNTY
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level



Azimuths to True North
Magnetic North: 7.92°
Magnetic Field
Strength: 51951.6nT
Dip Angle: 66.67°
Date: 8/18/2021
Model: IGRF2020



Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	SEC 30-T6N-R67W		
Site Position:		Northing:	1,412,754.87 usft
From:	Lat/Long	Easting:	3,159,584.52 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in

Well	RAINDANCE FC 23-232HN		
Well Position	+N/-S	0.00 usft	Northing: 1,412,056.51 usft
	+E/-W	0.00 usft	Easting: 3,159,364.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.37 °		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/18/2021	7.92	66.67	51,951.57759139

Design	FINAL SURVEY				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	282.51	

Survey Program	Date	10/20/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
15.00	21,273.00	FINAL SURVEY (OWB)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.31	119.56	100.00	-0.11	0.20	-0.22	0.36	0.36	0.00	
192.00	0.53	130.81	192.00	-0.51	0.74	-0.83	0.25	0.24	12.23	
279.00	0.53	145.58	278.99	-1.11	1.27	-1.48	0.16	0.00	16.98	
368.00	0.57	295.34	367.99	-1.26	1.10	-1.35	1.19	0.04	168.27	
458.00	0.48	296.48	457.99	-0.90	0.36	-0.55	0.10	-0.10	1.27	
548.00	0.26	285.76	547.99	-0.68	-0.17	0.02	0.26	-0.24	-11.91	
638.00	0.13	335.51	637.99	-0.53	-0.41	0.29	0.22	-0.14	55.28	
728.00	0.44	324.61	727.98	-0.15	-0.65	0.61	0.35	0.34	-12.11	

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
818.00	0.26	41.07	817.98	0.28	-0.72	0.76	0.51	-0.20	84.96
908.00	0.92	86.25	907.98	0.48	0.14	-0.03	0.84	0.73	50.20
998.00	0.92	104.62	997.97	0.35	1.56	-1.44	0.33	0.00	20.41
1,088.00	1.01	81.15	1,087.95	0.29	3.04	-2.90	0.45	0.10	-26.08
1,178.00	1.27	101.10	1,177.94	0.22	4.80	-4.64	0.52	0.29	22.17
1,268.00	0.97	92.49	1,267.92	-0.01	6.54	-6.39	0.38	-0.33	-9.57
1,357.00	1.14	100.49	1,356.90	-0.20	8.16	-8.01	0.25	0.19	8.99
1,447.00	1.98	92.40	1,446.87	-0.43	10.60	-10.44	0.96	0.93	-8.99
1,537.00	1.71	83.97	1,536.82	-0.35	13.49	-13.24	0.42	-0.30	-9.37
1,627.00	1.71	88.80	1,626.78	-0.18	16.16	-15.82	0.16	0.00	5.37
1,717.00	1.32	93.90	1,716.75	-0.23	18.54	-18.15	0.46	-0.43	5.67
1,807.00	0.44	122.46	1,806.74	-0.48	19.87	-19.50	1.06	-0.98	31.73
1,897.00	0.22	243.84	1,896.74	-0.74	20.00	-19.69	0.65	-0.24	134.87
1,987.00	0.40	229.51	1,986.74	-1.02	19.61	-19.37	0.22	0.20	-15.92
2,017.00	0.40	228.28	2,016.74	-1.16	19.45	-19.24	0.03	0.00	-4.10
2,072.00	0.25	266.22	2,071.74	-1.30	19.19	-19.02	0.46	-0.28	68.97
2,129.00	0.31	321.51	2,128.74	-1.18	18.97	-18.78	0.46	0.11	97.01
2,219.00	0.22	311.14	2,218.74	-0.88	18.69	-18.44	0.11	-0.10	-11.52
2,309.00	0.35	323.35	2,308.73	-0.55	18.40	-18.08	0.16	0.14	13.57
2,398.00	0.44	310.52	2,397.73	-0.11	17.97	-17.57	0.14	0.10	-14.42
2,488.00	0.53	338.29	2,487.73	0.51	17.56	-17.03	0.28	0.10	30.86
2,578.00	0.66	300.68	2,577.72	1.16	16.96	-16.30	0.45	0.14	-41.79
2,667.00	0.35	273.87	2,666.72	1.44	16.24	-15.55	0.43	-0.35	-30.12
2,757.00	0.88	178.77	2,756.72	0.76	15.99	-15.44	1.08	0.59	-105.67
2,847.00	1.41	172.53	2,846.70	-1.02	16.14	-15.98	0.60	0.59	-6.93
2,937.00	1.10	172.62	2,936.68	-2.98	16.40	-16.65	0.34	-0.34	0.10
3,026.00	0.53	154.87	3,025.67	-4.20	16.68	-17.20	0.69	-0.64	-19.94
3,116.00	0.44	178.16	3,115.67	-4.92	16.87	-17.54	0.24	-0.10	25.88
3,206.00	0.70	207.51	3,205.66	-5.75	16.63	-17.48	0.43	0.29	32.61
3,295.00	0.48	217.71	3,294.66	-6.53	16.15	-17.18	0.27	-0.25	11.46
3,385.00	0.88	57.04	3,384.65	-6.45	16.50	-17.50	1.49	0.44	-178.52
3,474.00	2.86	45.71	3,473.60	-4.53	18.66	-19.20	2.25	2.22	-12.73
3,564.00	4.66	36.56	3,563.41	-0.03	22.45	-21.92	2.10	2.00	-10.17
3,654.00	7.47	26.02	3,652.89	8.17	27.19	-24.78	3.35	3.12	-11.71
3,743.00	12.79	20.48	3,740.48	22.61	33.18	-27.50	6.07	5.98	-6.22
3,832.00	17.14	14.33	3,826.44	44.55	39.88	-29.28	5.20	4.89	-6.91
3,922.00	19.69	8.79	3,911.84	72.39	45.48	-28.72	3.43	2.83	-6.16
4,012.00	22.73	9.76	3,995.73	104.52	50.74	-26.90	3.40	3.38	1.08
4,101.00	25.71	15.38	4,076.90	140.09	58.78	-27.04	4.23	3.35	6.31
4,191.00	25.98	24.17	4,157.92	176.91	72.04	-32.00	4.26	0.30	9.77
4,280.00	23.69	30.41	4,238.70	210.13	89.07	-41.44	3.91	-2.57	7.01
4,369.00	24.75	29.62	4,319.87	241.75	107.33	-52.41	1.25	1.19	-0.89

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,459.00	28.62	25.14	4,400.27	277.65	125.81	-62.68	4.84	4.30	-4.98	
4,549.00	32.57	21.01	4,477.74	319.80	143.66	-70.97	4.97	4.39	-4.59	
4,639.00	37.58	20.22	4,551.37	368.20	161.84	-78.24	5.59	5.57	-0.88	
4,728.00	43.47	21.27	4,618.99	422.24	182.35	-86.55	6.66	6.62	1.18	
4,818.00	44.92	23.38	4,683.52	480.27	206.19	-97.26	2.29	1.61	2.34	
4,908.00	45.54	24.52	4,746.91	538.66	232.13	-109.93	1.13	0.69	1.27	
4,997.00	44.75	21.27	4,809.69	596.76	256.68	-121.31	2.74	-0.89	-3.65	
5,087.00	45.85	14.33	4,873.03	657.60	276.18	-127.17	5.61	1.22	-7.71	
5,177.00	46.15	17.32	4,935.56	719.87	293.83	-130.91	2.41	0.33	3.32	
5,266.00	46.02	22.41	4,997.31	780.14	315.60	-139.11	4.12	-0.15	5.72	
5,356.00	45.54	22.50	5,060.08	839.74	340.24	-150.25	0.54	-0.53	0.10	
5,446.00	45.58	22.15	5,123.09	899.19	364.65	-161.20	0.28	0.04	-0.39	
5,536.00	46.73	21.27	5,185.43	959.49	388.65	-171.57	1.46	1.28	-0.98	
5,625.00	46.73	22.15	5,246.44	1,019.70	412.62	-181.93	0.72	0.00	0.99	
5,715.00	44.92	21.45	5,309.15	1,079.62	436.60	-192.36	2.09	-2.01	-0.78	
5,805.00	44.66	21.80	5,373.03	1,138.57	459.96	-202.40	0.40	-0.29	0.39	
5,894.00	44.57	21.45	5,436.38	1,196.68	483.00	-212.30	0.29	-0.10	-0.39	
5,984.00	44.40	21.71	5,500.59	1,255.32	506.20	-222.24	0.28	-0.19	0.29	
6,074.00	44.62	21.10	5,564.77	1,314.06	529.22	-232.00	0.53	0.24	-0.68	
6,164.00	44.62	21.36	5,628.83	1,372.99	552.11	-241.58	0.20	0.00	0.29	
6,253.00	44.79	21.27	5,692.09	1,431.31	574.87	-251.16	0.20	0.19	-0.10	
6,343.00	44.92	21.01	5,755.89	1,490.52	597.76	-260.69	0.25	0.14	-0.29	
6,432.00	44.75	21.27	5,819.00	1,549.05	620.39	-270.10	0.28	-0.19	0.29	
6,522.00	44.84	21.01	5,882.87	1,608.19	643.26	-279.61	0.23	0.10	-0.29	
6,612.00	44.75	21.71	5,946.74	1,667.25	666.36	-289.37	0.56	-0.10	0.78	
6,702.00	44.79	21.45	6,010.63	1,726.19	689.67	-299.36	0.21	0.04	-0.29	
6,791.00	44.75	21.27	6,073.81	1,784.56	712.50	-309.00	0.15	-0.04	-0.20	
6,881.00	44.75	21.71	6,137.73	1,843.52	735.71	-318.89	0.34	0.00	0.49	
6,971.00	44.79	21.45	6,201.63	1,902.46	759.02	-328.88	0.21	0.04	-0.29	
7,060.00	44.70	22.15	6,264.84	1,960.63	782.29	-338.99	0.56	-0.10	0.79	
7,150.00	44.79	21.62	6,328.76	2,019.42	805.91	-349.31	0.43	0.10	-0.59	
7,240.00	44.84	21.27	6,392.61	2,078.46	829.10	-359.16	0.28	0.06	-0.39	
7,330.00	43.43	16.44	6,457.22	2,137.72	849.37	-366.12	4.05	-1.57	-5.37	
7,419.00	43.91	6.77	6,521.66	2,197.78	861.68	-365.13	7.52	0.54	-10.87	
7,509.00	44.57	357.72	6,586.21	2,260.39	864.11	-353.93	7.05	0.73	-10.06	
7,598.00	46.95	349.54	6,648.35	2,323.63	856.95	-333.25	7.10	2.67	-9.19	
7,688.00	48.70	342.34	6,708.82	2,388.24	840.71	-303.40	6.24	1.94	-8.00	
7,778.00	49.41	333.46	6,767.86	2,451.09	815.16	-264.83	7.49	0.79	-9.87	
7,867.00	50.24	324.32	6,825.35	2,509.19	780.06	-217.99	7.90	0.93	-10.27	
7,957.00	51.43	316.06	6,882.25	2,562.68	735.42	-162.82	7.23	1.32	-9.18	
7,977.00	51.21	315.44	6,894.75	2,573.86	724.53	-149.76	2.66	-1.10	-3.10	
8,066.00	54.95	303.66	6,948.32	2,618.88	669.73	-86.51	11.37	4.20	-13.24	
8,156.00	59.52	293.91	6,997.10	2,655.10	603.46	-13.97	10.42	5.08	-10.83	

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,246.00	65.32	289.60	7,038.77	2,684.57	529.40	64.72	7.71	6.44	-4.79	
8,335.00	74.46	286.09	7,069.34	2,710.08	449.92	147.83	10.92	10.27	-3.94	
8,425.00	81.63	278.09	7,088.00	2,728.41	363.94	235.74	11.79	7.97	-8.89	
8,515.00	85.45	274.13	7,098.13	2,737.92	275.06	324.58	6.09	4.24	-4.40	
8,575.00	88.73	271.26	7,101.18	2,740.73	215.21	383.61	7.26	5.46	-4.78	
8,605.00	90.37	269.83	7,101.41	2,741.02	185.22	412.95	7.26	5.47	-4.77	
8,637.20	90.21	269.77	7,101.25	2,740.90	153.02	444.36	0.53	-0.49	-0.20	
8,694.00	89.93	269.65	7,101.18	2,740.61	96.22	499.75	0.53	-0.49	-0.20	
8,764.00	90.02	269.30	7,101.21	2,739.97	26.22	567.95	0.52	0.13	-0.50	
8,854.00	89.54	266.84	7,101.56	2,736.94	-63.72	655.09	2.78	-0.53	-2.73	
8,943.00	90.99	269.56	7,101.14	2,734.15	-152.66	741.32	3.46	1.63	3.06	
9,033.00	89.23	270.00	7,100.97	2,733.80	-242.66	829.11	2.02	-1.96	0.49	
9,122.00	89.32	269.48	7,102.10	2,733.40	-331.65	915.90	0.59	0.10	-0.58	
9,212.00	90.11	271.50	7,102.54	2,734.17	-421.64	1,003.92	2.41	0.88	2.24	
9,302.00	90.11	271.23	7,102.37	2,736.31	-511.61	1,092.22	0.30	0.00	-0.30	
9,392.00	90.15	271.06	7,102.17	2,738.11	-601.60	1,180.45	0.19	0.04	-0.19	
9,482.00	90.11	270.97	7,101.96	2,739.70	-691.58	1,268.65	0.11	-0.04	-0.10	
9,571.00	90.11	271.15	7,101.79	2,741.35	-780.57	1,355.88	0.20	0.00	0.20	
9,661.00	90.95	271.23	7,100.96	2,743.22	-870.54	1,444.12	0.94	0.93	0.09	
9,750.00	90.99	269.74	7,099.45	2,743.97	-959.52	1,531.15	1.67	0.04	-1.67	
9,840.00	90.95	268.33	7,097.93	2,742.46	-1,049.50	1,618.66	1.57	-0.04	-1.57	
9,930.00	90.95	267.72	7,096.44	2,739.35	-1,139.43	1,705.79	0.68	0.00	-0.68	
10,020.00	90.42	270.27	7,095.36	2,737.78	-1,229.40	1,793.28	2.89	-0.59	2.83	
10,109.00	90.11	271.41	7,094.95	2,739.08	-1,318.39	1,880.44	1.33	-0.35	1.28	
10,199.00	90.07	271.15	7,094.81	2,741.09	-1,408.37	1,968.71	0.29	-0.04	-0.29	
10,289.00	90.46	271.15	7,094.39	2,742.90	-1,498.35	2,056.95	0.43	0.43	0.00	
10,379.00	90.95	269.91	7,093.28	2,743.73	-1,588.33	2,144.98	1.48	0.54	-1.38	
10,468.00	90.90	269.83	7,091.85	2,743.53	-1,677.32	2,231.81	0.11	-0.06	-0.09	
10,558.00	92.35	268.07	7,089.30	2,741.88	-1,767.27	2,319.26	2.53	1.61	-1.96	
10,648.00	94.86	270.00	7,083.64	2,740.37	-1,857.06	2,406.60	3.52	2.79	2.14	
10,737.00	94.55	272.99	7,076.33	2,742.68	-1,945.72	2,493.65	3.37	-0.35	3.36	
10,827.00	94.33	272.46	7,069.37	2,746.95	-2,035.35	2,582.08	0.64	-0.24	-0.59	
10,917.00	94.59	271.94	7,062.37	2,750.39	-2,125.01	2,670.36	0.64	0.29	-0.58	
11,007.00	94.77	270.53	7,055.02	2,752.32	-2,214.69	2,758.32	1.57	0.20	-1.57	
11,096.00	95.17	269.91	7,047.31	2,752.66	-2,303.35	2,844.96	0.83	0.45	-0.70	
11,186.00	96.31	269.91	7,038.31	2,752.52	-2,392.90	2,932.35	1.27	1.27	0.00	
11,276.00	96.79	269.48	7,028.05	2,752.05	-2,482.31	3,019.53	0.71	0.53	-0.48	
11,366.00	96.48	270.35	7,017.65	2,751.92	-2,571.71	3,106.77	1.02	-0.34	0.97	
11,455.00	94.51	268.07	7,009.12	2,750.69	-2,660.28	3,192.98	3.38	-2.21	-2.56	
11,545.00	94.24	267.54	7,002.26	2,747.25	-2,749.95	3,279.78	0.66	-0.30	-0.59	
11,635.00	94.02	266.93	6,995.78	2,742.92	-2,839.61	3,366.37	0.72	-0.24	-0.68	
11,724.00	95.56	270.53	6,988.34	2,740.96	-2,928.26	3,452.49	4.39	1.73	4.04	

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
11,814.00	95.60	271.85	6,979.59	2,742.82	-3,017.81	3,540.32	1.46	0.04	1.47	
11,904.00	96.13	270.53	6,970.39	2,744.68	-3,107.32	3,628.10	1.57	0.59	-1.47	
11,993.00	95.21	269.56	6,961.60	2,744.74	-3,195.88	3,714.58	1.50	-1.03	-1.09	
12,083.00	95.47	270.09	6,953.23	2,744.47	-3,285.49	3,802.00	0.65	0.29	0.59	
12,173.00	95.43	270.09	6,944.68	2,744.61	-3,375.09	3,889.49	0.04	-0.04	0.00	
12,262.00	96.35	271.67	6,935.54	2,745.97	-3,463.60	3,976.20	2.05	1.03	1.78	
12,352.00	96.13	271.32	6,925.76	2,748.30	-3,553.04	4,064.02	0.46	-0.24	-0.39	
12,441.00	96.13	271.76	6,916.26	2,750.68	-3,641.50	4,150.89	0.49	0.00	0.49	
12,531.00	95.56	270.27	6,907.09	2,752.27	-3,731.01	4,238.63	1.76	-0.63	-1.66	
12,621.00	95.39	269.91	6,898.50	2,752.41	-3,820.60	4,326.12	0.44	-0.19	-0.40	
12,711.00	95.21	269.65	6,890.19	2,752.06	-3,910.22	4,413.53	0.35	-0.20	-0.29	
12,800.00	95.87	271.15	6,881.60	2,752.68	-3,998.79	4,500.14	1.83	0.74	1.69	
12,890.00	93.89	270.97	6,873.94	2,754.34	-4,088.45	4,588.03	2.21	-2.20	-0.20	
12,980.00	93.93	270.79	6,867.81	2,755.72	-4,178.23	4,675.97	0.20	0.04	-0.20	
13,069.00	93.14	270.09	6,862.32	2,756.40	-4,267.05	4,762.84	1.18	-0.89	-0.79	
13,159.00	91.08	268.51	6,859.00	2,755.30	-4,356.98	4,850.39	2.88	-2.29	-1.76	
13,249.00	89.19	266.66	6,858.79	2,751.51	-4,446.89	4,937.34	2.94	-2.10	-2.06	
13,339.00	89.19	268.77	6,860.06	2,747.92	-4,536.81	5,024.35	2.34	0.00	2.34	
13,428.00	90.07	268.77	6,860.64	2,746.01	-4,625.78	5,110.80	0.99	0.99	0.00	
13,518.00	90.11	268.77	6,860.50	2,744.08	-4,715.76	5,198.22	0.04	0.04	0.00	
13,608.00	90.02	268.51	6,860.40	2,741.94	-4,805.74	5,285.60	0.31	-0.10	-0.29	
13,697.00	89.32	268.33	6,860.91	2,739.49	-4,894.70	5,371.92	0.81	-0.79	-0.20	
13,787.00	89.14	267.98	6,862.12	2,736.59	-4,984.65	5,459.10	0.44	-0.20	-0.39	
13,877.00	89.14	268.07	6,863.47	2,733.49	-5,074.58	5,546.23	0.10	0.00	0.10	
13,966.00	89.85	266.66	6,864.25	2,729.40	-5,163.48	5,632.13	1.77	0.80	-1.58	
14,056.00	90.11	266.93	6,864.28	2,724.37	-5,253.34	5,718.76	0.42	0.29	0.30	
14,145.00	90.02	268.42	6,864.18	2,720.76	-5,342.26	5,804.80	1.68	-0.10	1.67	
14,235.00	90.07	270.35	6,864.11	2,719.79	-5,432.25	5,892.44	2.15	0.06	2.14	
14,325.00	90.02	270.62	6,864.04	2,720.55	-5,522.25	5,980.46	0.31	-0.06	0.30	
14,415.00	90.11	270.62	6,863.94	2,721.53	-5,612.25	6,068.53	0.10	0.10	0.00	
14,504.00	90.02	269.83	6,863.84	2,721.88	-5,701.24	6,155.49	0.89	-0.10	-0.89	
14,594.00	89.98	269.91	6,863.84	2,721.67	-5,791.24	6,243.31	0.10	-0.04	0.09	
14,684.00	90.02	269.39	6,863.84	2,721.12	-5,881.24	6,331.05	0.58	0.04	-0.58	
14,774.00	90.15	270.35	6,863.71	2,720.92	-5,971.24	6,418.87	1.08	0.14	1.07	
14,863.00	90.11	270.88	6,863.50	2,721.87	-6,060.24	6,505.96	0.60	-0.04	0.60	
14,953.00	90.15	270.88	6,863.30	2,723.26	-6,150.22	6,594.11	0.04	0.04	0.00	
15,043.00	90.15	270.79	6,863.06	2,724.57	-6,240.21	6,682.25	0.10	0.00	-0.10	
15,133.00	90.29	270.35	6,862.72	2,725.46	-6,330.21	6,770.30	0.51	0.16	-0.49	
15,223.00	90.15	270.79	6,862.37	2,726.36	-6,420.20	6,858.35	0.51	-0.16	0.49	
15,312.00	90.15	270.44	6,862.14	2,727.31	-6,509.20	6,945.44	0.39	0.00	-0.39	
15,402.00	89.45	270.53	6,862.45	2,728.08	-6,599.19	7,033.46	0.78	-0.78	0.10	
15,492.00	89.32	270.44	6,863.42	2,728.84	-6,689.19	7,121.48	0.18	-0.14	-0.10	
15,582.00	90.11	270.35	6,863.87	2,729.46	-6,779.18	7,209.48	0.88	0.88	-0.10	

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,671.00	90.15	270.27	6,863.67	2,729.94	-6,868.18	7,296.47	0.10	0.04	-0.09	
15,761.00	90.95	269.83	6,862.80	2,730.02	-6,958.18	7,384.34	1.01	0.89	-0.49	
15,851.00	90.99	268.68	6,861.28	2,728.85	-7,048.15	7,471.93	1.28	0.04	-1.28	
15,940.00	91.03	268.95	6,859.71	2,727.01	-7,137.12	7,558.39	0.31	0.04	0.30	
16,030.00	90.86	268.60	6,858.23	2,725.08	-7,227.09	7,645.80	0.43	-0.19	-0.39	
16,119.00	91.08	269.65	6,856.72	2,723.72	-7,316.06	7,732.37	1.21	0.25	1.18	
16,209.00	91.08	269.65	6,855.02	2,723.18	-7,406.05	7,820.10	0.00	0.00	0.00	
16,299.00	91.08	269.65	6,853.33	2,722.63	-7,496.03	7,907.82	0.00	0.00	0.00	
16,389.00	91.08	269.39	6,851.63	2,721.87	-7,586.01	7,995.50	0.29	0.00	-0.29	
16,478.00	90.15	270.00	6,850.67	2,721.40	-7,675.00	8,082.28	1.25	-1.04	0.69	
16,568.00	90.15	268.16	6,850.44	2,719.95	-7,764.98	8,169.81	2.04	0.00	-2.04	
16,658.00	90.11	267.98	6,850.23	2,716.92	-7,854.93	8,256.97	0.20	-0.04	-0.20	
16,747.00	90.20	270.62	6,849.99	2,715.83	-7,943.92	8,343.61	2.97	0.10	2.97	
16,837.00	90.20	272.81	6,849.68	2,718.53	-8,033.87	8,432.01	2.43	0.00	2.43	
16,927.00	90.24	273.43	6,849.33	2,723.43	-8,123.74	8,520.80	0.69	0.04	0.69	
17,016.00	90.15	273.52	6,849.03	2,728.82	-8,212.57	8,608.70	0.14	-0.10	0.10	
17,106.00	89.58	273.87	6,849.24	2,734.62	-8,302.39	8,697.63	0.74	-0.63	0.39	
17,196.00	89.71	273.96	6,849.80	2,740.77	-8,392.17	8,786.62	0.18	0.14	0.10	
17,285.00	89.89	273.61	6,850.11	2,746.64	-8,480.98	8,874.59	0.44	0.20	-0.39	
17,375.00	90.46	272.99	6,849.84	2,751.82	-8,570.83	8,963.43	0.94	0.63	-0.69	
17,420.00	89.80	271.50	6,849.73	2,753.58	-8,615.79	9,007.70	3.62	-1.47	-3.31	
17,464.00	90.11	270.18	6,849.77	2,754.23	-8,659.79	9,050.79	3.08	0.70	-3.00	
17,509.00	90.73	267.37	6,849.44	2,753.27	-8,704.77	9,094.50	6.39	1.38	-6.24	
17,554.00	90.59	264.90	6,848.92	2,750.23	-8,749.66	9,137.67	5.50	-0.31	-5.49	
17,599.00	90.77	264.73	6,848.39	2,746.17	-8,794.47	9,180.54	0.55	0.40	-0.38	
17,644.00	90.68	264.55	6,847.82	2,741.96	-8,839.27	9,223.36	0.45	-0.20	-0.40	
17,734.00	90.68	267.10	6,846.75	2,735.41	-8,929.02	9,309.56	2.83	0.00	2.83	
17,823.00	90.46	266.14	6,845.86	2,730.17	-9,017.86	9,395.15	1.11	-0.25	-1.08	
17,913.00	90.59	265.78	6,845.04	2,723.83	-9,107.63	9,481.42	0.43	0.14	-0.40	
18,002.00	90.59	267.98	6,844.12	2,718.98	-9,196.49	9,567.12	2.47	0.00	2.47	
18,092.00	90.64	269.48	6,843.16	2,716.99	-9,286.46	9,654.52	1.67	0.06	1.67	
18,181.00	90.68	268.24	6,842.13	2,715.22	-9,375.44	9,741.00	1.39	0.04	-1.39	
18,271.00	91.34	269.83	6,840.54	2,713.70	-9,465.41	9,828.50	1.91	0.73	1.77	
18,361.00	92.44	271.58	6,837.58	2,714.81	-9,555.35	9,916.55	2.30	1.22	1.94	
18,451.00	93.67	270.97	6,832.78	2,716.81	-9,645.19	10,004.70	1.53	1.37	-0.68	
18,540.00	95.47	269.12	6,825.69	2,716.88	-9,733.90	10,091.31	2.90	2.02	-2.08	
18,630.00	95.65	269.83	6,816.97	2,716.06	-9,823.47	10,178.58	0.81	0.20	0.79	
18,720.00	97.23	269.30	6,806.87	2,715.38	-9,912.90	10,265.74	1.85	1.76	-0.59	
18,809.00	99.39	268.16	6,794.01	2,713.43	-10,000.94	10,351.26	2.74	2.43	-1.28	
18,899.00	100.04	266.14	6,778.82	2,709.02	-10,089.53	10,436.80	2.33	0.72	-2.24	
18,989.00	102.29	269.74	6,761.39	2,705.84	-10,177.75	10,522.23	4.65	2.50	4.00	
19,078.00	101.06	271.50	6,743.38	2,706.78	-10,264.90	10,607.51	2.38	-1.38	1.98	
19,168.00	100.88	270.27	6,726.25	2,708.15	-10,353.24	10,694.06	1.36	-0.20	-1.37	
19,258.00	101.45	269.48	6,708.82	2,707.96	-10,441.54	10,780.21	1.07	0.63	-0.88	

Survey Report

Company:	GREAT WESTERN OPERATING COMPANY	Local Co-ordinate Reference:	Well RAINDANCE FC 23-232HN
Project:	WELD COUNTY	TVD Reference:	KB 20' @ 4808.00usft
Site:	SEC 30-T6N-R67W	MD Reference:	KB 20' @ 4808.00usft
Well:	RAINDANCE FC 23-232HN	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM 5000.16 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
19,347.00	102.77	270.09	6,690.15	2,707.63	-10,528.55	10,865.09	1.63	1.48	0.69	
19,437.00	102.68	272.90	6,670.33	2,709.92	-10,616.30	10,951.25	3.05	-0.10	3.12	
19,527.00	102.20	272.99	6,650.94	2,714.43	-10,704.07	11,037.92	0.54	-0.53	0.10	
19,616.00	101.98	272.29	6,632.30	2,718.44	-10,791.01	11,123.66	0.81	-0.25	-0.79	
19,706.00	102.37	271.67	6,613.32	2,721.48	-10,878.93	11,210.15	0.80	0.43	-0.69	
19,796.00	103.21	269.12	6,593.39	2,722.09	-10,966.69	11,295.95	2.92	0.93	-2.83	
19,885.00	104.97	268.24	6,571.72	2,720.11	-11,052.98	11,379.77	2.20	1.98	-0.99	
19,975.00	106.81	265.52	6,547.08	2,715.40	-11,139.40	11,463.12	3.55	2.04	-3.02	
20,041.00	108.75	264.20	6,526.92	2,709.78	-11,201.99	11,523.00	3.50	2.94	-2.00	
20,131.00	112.75	264.20	6,495.04	2,701.27	-11,285.71	11,602.89	4.44	4.44	0.00	
20,220.00	113.50	266.05	6,460.09	2,694.32	-11,367.25	11,680.99	2.09	0.84	2.08	
20,310.00	113.45	268.51	6,424.23	2,690.40	-11,449.70	11,760.64	2.51	-0.06	2.73	
20,400.00	114.29	270.44	6,387.81	2,689.64	-11,532.00	11,840.81	2.17	0.93	2.14	
20,489.00	116.35	270.27	6,349.75	2,690.14	-11,612.44	11,919.45	2.32	2.31	-0.19	
20,579.00	117.19	272.11	6,309.21	2,691.80	-11,692.77	11,998.24	2.05	0.93	2.04	
20,669.00	117.93	274.05	6,267.57	2,696.09	-11,772.44	12,076.94	2.08	0.82	2.16	
20,758.00	116.75	272.81	6,226.69	2,700.81	-11,851.35	12,155.00	1.81	-1.33	-1.39	
20,848.00	113.45	272.90	6,188.52	2,704.87	-11,932.74	12,235.34	3.67	-3.67	0.10	
20,937.00	110.33	273.43	6,155.34	2,709.43	-12,015.19	12,316.82	3.55	-3.51	0.60	
21,027.00	108.35	274.84	6,125.54	2,715.56	-12,099.88	12,400.82	2.65	-2.20	1.57	
21,094.00	106.65	275.30	6,105.39	2,721.21	-12,163.52	12,464.18	2.61	-2.53	0.68	
21,094.88	106.63	275.30	6,105.13	2,721.29	-12,164.36	12,465.02	2.61	-2.53	0.67	
21,104.47	106.39	275.37	6,102.41	2,722.14	-12,173.52	12,474.14	2.62	-2.54	0.67	
21,117.00	106.07	275.45	6,098.91	2,723.27	-12,185.50	12,486.08	2.62	-2.54	0.67	
21,207.00	103.12	275.36	6,076.23	2,731.48	-12,272.20	12,572.50	3.28	-3.28	-0.10	
21,245.00	102.24	275.19	6,067.89	2,734.89	-12,309.11	12,609.27	2.36	-2.32	-0.45	
21,268.00	102.24	275.19	6,063.01	2,736.92	-12,331.50	12,631.57	0.00	0.00	0.00	
21,273.00	102.24	275.19	6,061.95	2,737.36	-12,336.36	12,636.42	0.00	0.00	0.00	