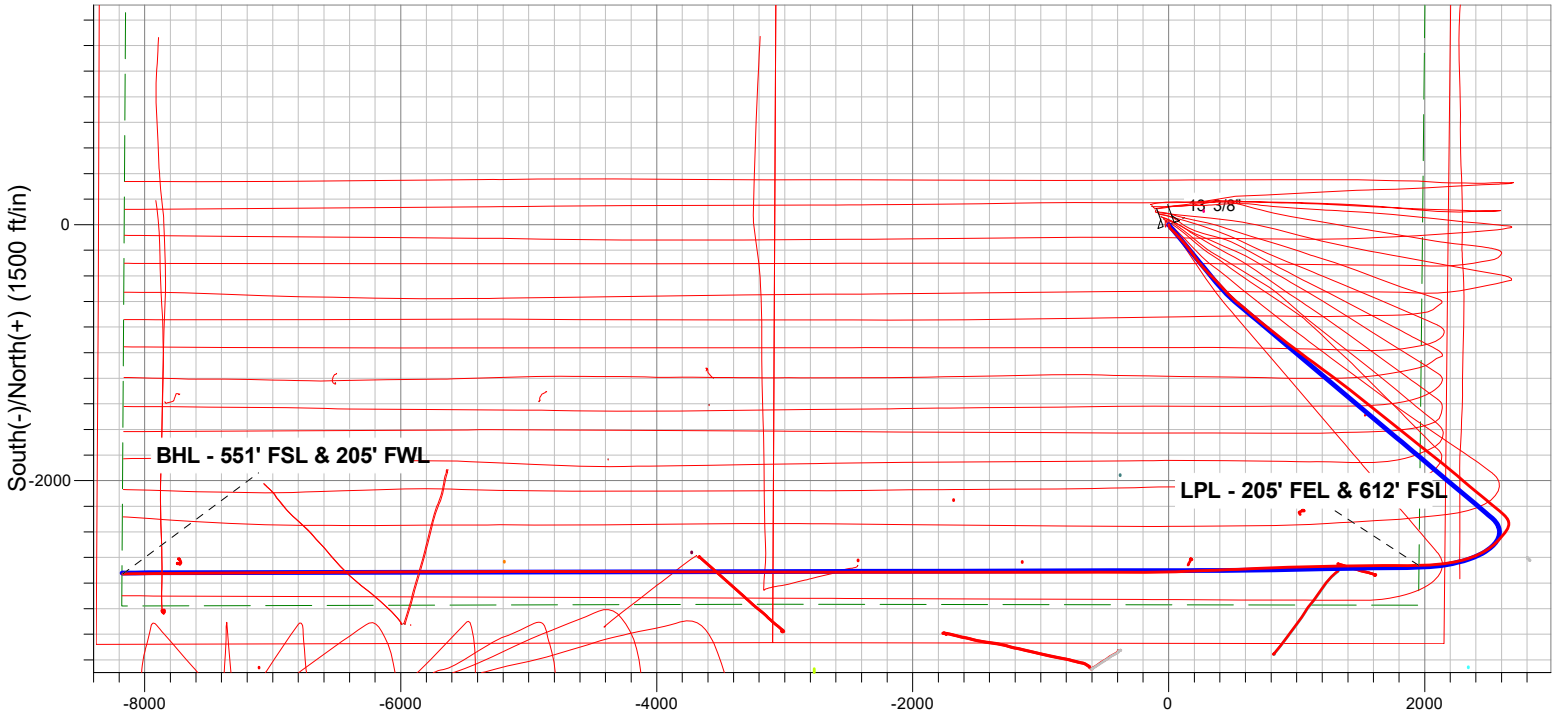
Chevron DJ Basin

GEORGE 22N
George Pad
North American Datum 1983 , US State Plane 1983, Colorado Northern Zone
Ground Elevation: 4718.0

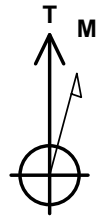
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1353413.20	3263815.82	40.299657	-104.554143

T41 - RKB 25' WELL @ 4743.0ft (T41 - RKB 25')

ENSIGN Directional



George Pad
GEORGE 22N
GEORGE 22N Final Surveys
13:08, May 13 2024



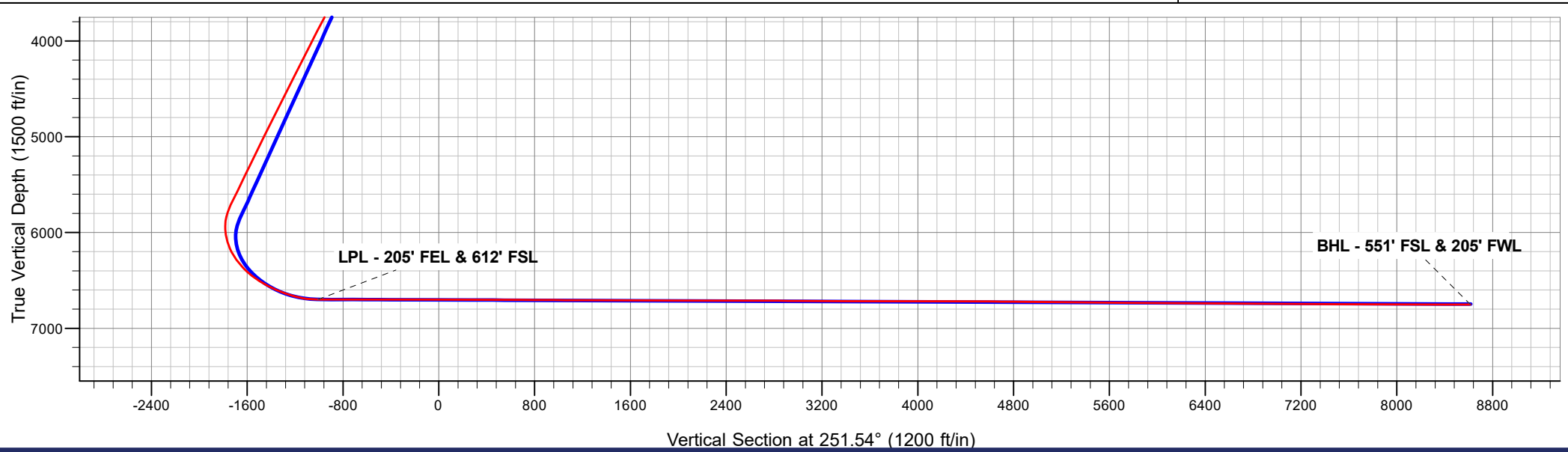
Azimuths to True North
Magnetic North: 7.65°

Magnetic Field
Strength: 51602.3nT
Dip Angle: 66.53°
Date: 04/04/2024
Model: HRGM

ANNOTATIONS

MD	TVD	Annotation
8241.0	6698.5	LPL - 205' FEL & 612' FSL
18367.0	6751.6	BHL - 551' FSL & 205' FWL

FINAL SURVEY
Projected Bottom Hole Location
18367' MD / 6751.6' TVD
89.96° INC / 269.61° AZM
551' FSL / 205' FWL



Chevron DJ Basin

SEC.21-T4N-R64W
George Pad
GEORGE 22N

GEORGE 22N

Design: GEORGE 22N Final Surveys

Survey Report - Geographic

13 May, 2024

Ensign

Survey Report - Geographic

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Well:	GEORGE 22N	**North Reference:**	True
Wellbore:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Design:	GEORGE 22N Final Surveys	**Database:**	US_EDM

Project	SEC.21-T4N-R64W, Weld County, CO		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	George Pad				
Site Position:		**Northing:**	1,353,524.28 usft	**Latitude:**	40.299965
From:	Lat/Long	**Easting:**	3,263,715.11 usft	**Longitude:**	-104.554500
Position Uncertainty:	0.0 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.61 °

Well	GEORGE 22N				
Well Position	**+N/-S** 0.0 ft	**Northing:**	1,353,413.20 usft	**Latitude:**	40.299657
	+E/-W 0.0 ft	**Easting:**	3,263,815.82 usft	**Longitude:**	-104.554143
Position Uncertainty	0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,718.0 ft

Wellbore	GEORGE 22N				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HRGM	04/04/2024	7.65	66.53	51,602.30138505

Design	GEORGE 22N Final Surveys				
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	251.54

Survey Program **Date** 05/13/2024

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
208.0	18,367.0	Survey #1 (GEORGE 22N)	MWD+IFR1+SAG+MS	OWSG MWD + IFR1 + Sag + Multi-Station Corre

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,353,413.20	3,263,815.82	40.299657	-104.554143
208.0	4.48	160.24	207.8	-7.6	2.7	1,353,405.58	3,263,818.65	40.299636	-104.554134
300.0	5.01	159.71	299.5	-14.8	5.4	1,353,398.46	3,263,821.34	40.299617	-104.554124
394.0	6.51	147.58	393.0	-23.1	9.6	1,353,390.16	3,263,825.71	40.299594	-104.554109
488.0	8.27	136.86	486.2	-32.6	17.1	1,353,380.81	3,263,833.29	40.299568	-104.554082
582.0	9.94	134.93	579.0	-43.2	27.5	1,353,370.26	3,263,843.77	40.299539	-104.554045
677.0	11.78	133.87	672.3	-55.8	40.3	1,353,357.88	3,263,856.69	40.299504	-104.553999
771.0	14.42	136.33	763.9	-70.9	55.3	1,353,342.93	3,263,871.86	40.299463	-104.553945
864.0	15.92	137.21	853.6	-88.6	71.9	1,353,325.37	3,263,888.70	40.299414	-104.553886
958.0	16.80	138.44	943.8	-108.2	89.7	1,353,305.93	3,263,906.68	40.299360	-104.553822
1,052.0	17.59	137.91	1,033.6	-128.9	108.2	1,353,285.43	3,263,925.43	40.299303	-104.553755
1,145.0	20.05	138.62	1,121.6	-151.3	128.2	1,353,263.25	3,263,945.63	40.299242	-104.553684

Ensign

Survey Report - Geographic

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Well:	GEORGE 22N	**North Reference:**	True
Wellbore:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Design:	GEORGE 22N Final Surveys	**Database:**	US_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,239.0	21.54	142.48	1,209.5	-177.1	149.4	1,353,237.70	3,263,967.07	40.299171	-104.553608
1,333.0	23.83	144.24	1,296.2	-206.2	171.0	1,353,208.83	3,263,988.99	40.299091	-104.553530
1,428.0	26.73	144.07	1,382.1	-239.1	194.7	1,353,176.21	3,264,013.09	40.299001	-104.553445
1,522.0	28.49	142.31	1,465.4	-274.0	220.9	1,353,141.63	3,264,039.58	40.298905	-104.553352
1,616.0	30.34	140.20	1,547.3	-309.9	249.8	1,353,105.96	3,264,068.86	40.298806	-104.553248
1,710.0	30.34	137.21	1,628.4	-345.6	281.1	1,353,070.63	3,264,100.57	40.298709	-104.553136
1,804.0	32.71	137.04	1,708.6	-381.6	314.5	1,353,034.97	3,264,134.39	40.298610	-104.553016
1,897.0	34.56	135.80	1,786.0	-418.9	350.0	1,352,998.05	3,264,170.30	40.298507	-104.552889
1,948.0	34.56	136.51	1,828.0	-439.8	370.1	1,352,977.40	3,264,190.56	40.298450	-104.552817
2,051.0	34.09	136.93	1,913.1	-482.1	409.9	1,352,935.55	3,264,230.83	40.298334	-104.552674
2,145.0	33.45	136.51	1,991.2	-520.1	445.7	1,352,897.90	3,264,267.05	40.298230	-104.552546
2,239.0	35.74	136.00	2,068.6	-558.7	482.6	1,352,859.75	3,264,304.36	40.298124	-104.552413
2,333.0	35.85	129.91	2,144.8	-596.1	522.8	1,352,822.76	3,264,344.95	40.298021	-104.552269
2,426.0	35.20	128.98	2,220.5	-630.4	564.6	1,352,788.87	3,264,387.04	40.297927	-104.552120
2,520.0	36.13	130.34	2,296.9	-665.4	606.7	1,352,754.34	3,264,429.60	40.297831	-104.551968
2,614.0	36.18	129.89	2,372.8	-701.1	649.1	1,352,719.07	3,264,472.38	40.297733	-104.551816
2,708.0	35.56	129.84	2,449.0	-736.4	691.4	1,352,684.22	3,264,515.03	40.297636	-104.551665
2,803.0	35.15	129.75	2,526.4	-771.6	733.7	1,352,649.49	3,264,557.64	40.297539	-104.551513
2,897.0	36.26	129.97	2,602.8	-806.8	775.8	1,352,614.78	3,264,600.12	40.297443	-104.551362
2,990.0	36.10	128.22	2,677.8	-841.4	818.4	1,352,580.62	3,264,643.09	40.297348	-104.551210
3,084.0	36.11	127.10	2,753.8	-875.2	862.2	1,352,547.25	3,264,687.29	40.297255	-104.551052
3,177.0	36.09	127.36	2,828.9	-908.4	905.9	1,352,514.57	3,264,731.27	40.297164	-104.550896
3,271.0	35.74	127.27	2,905.1	-941.8	949.7	1,352,481.61	3,264,775.48	40.297072	-104.550739
3,365.0	35.47	126.79	2,981.5	-974.8	993.4	1,352,449.12	3,264,819.51	40.296981	-104.550582
3,459.0	35.84	126.73	3,057.9	-1,007.6	1,037.3	1,352,416.80	3,264,863.75	40.296891	-104.550425
3,553.0	35.97	126.97	3,134.0	-1,040.6	1,081.4	1,352,384.22	3,264,908.21	40.296801	-104.550267
3,648.0	36.54	125.73	3,210.6	-1,073.9	1,126.7	1,352,351.41	3,264,953.81	40.296709	-104.550105
3,742.0	35.92	126.92	3,286.4	-1,106.8	1,171.4	1,352,318.98	3,264,998.92	40.296619	-104.549944
3,835.0	36.70	125.90	3,361.4	-1,139.5	1,215.7	1,352,286.78	3,265,043.59	40.296529	-104.549785
3,929.0	35.85	126.07	3,437.2	-1,172.2	1,260.7	1,352,254.58	3,265,088.93	40.296440	-104.549624
4,024.0	36.55	126.57	3,513.8	-1,205.4	1,305.9	1,352,221.84	3,265,134.49	40.296348	-104.549462
4,118.0	36.55	127.83	3,589.3	-1,239.3	1,350.5	1,352,188.47	3,265,179.43	40.296255	-104.549302
4,211.0	37.44	128.74	3,663.6	-1,273.9	1,394.4	1,352,154.27	3,265,223.72	40.296160	-104.549145
4,305.0	36.97	128.29	3,738.5	-1,309.3	1,438.9	1,352,119.35	3,265,268.56	40.296063	-104.548985
4,399.0	36.74	128.33	3,813.7	-1,344.3	1,483.2	1,352,084.87	3,265,313.17	40.295967	-104.548827
4,493.0	36.63	128.29	3,889.1	-1,379.1	1,527.2	1,352,050.54	3,265,357.60	40.295872	-104.548669
4,588.0	36.45	128.15	3,965.4	-1,414.1	1,571.7	1,352,016.02	3,265,402.41	40.295775	-104.548509
4,681.0	36.88	127.91	4,040.0	-1,448.3	1,615.4	1,351,982.28	3,265,446.51	40.295682	-104.548352
4,774.0	36.99	127.84	4,114.3	-1,482.6	1,659.5	1,351,948.44	3,265,490.99	40.295587	-104.548194
4,867.0	36.48	129.32	4,188.9	-1,517.3	1,703.0	1,351,914.23	3,265,534.84	40.295492	-104.548038
4,962.0	36.63	128.99	4,265.2	-1,553.0	1,746.9	1,351,878.97	3,265,579.09	40.295394	-104.547881
5,056.0	36.78	128.53	4,340.6	-1,588.2	1,790.7	1,351,844.27	3,265,623.27	40.295298	-104.547724
5,149.0	36.64	128.99	4,415.1	-1,623.0	1,834.0	1,351,809.93	3,265,666.99	40.295202	-104.547569
5,242.0	36.73	129.03	4,489.7	-1,658.0	1,877.2	1,351,775.42	3,265,710.53	40.295106	-104.547414
5,336.0	36.62	128.32	4,565.1	-1,693.1	1,921.0	1,351,740.81	3,265,754.73	40.295010	-104.547257
5,429.0	36.28	128.57	4,639.9	-1,727.4	1,964.3	1,351,706.92	3,265,798.36	40.294915	-104.547102
5,523.0	36.36	128.15	4,715.6	-1,762.0	2,008.0	1,351,672.84	3,265,842.38	40.294821	-104.546945
5,616.0	36.11	128.35	4,790.6	-1,796.0	2,051.1	1,351,639.27	3,265,885.91	40.294727	-104.546791
5,710.0	36.30	127.56	4,866.5	-1,830.1	2,094.9	1,351,605.59	3,265,930.05	40.294633	-104.546634
5,803.0	36.57	129.02	4,941.3	-1,864.4	2,138.3	1,351,571.83	3,265,973.76	40.294539	-104.546478
5,897.0	36.55	130.37	5,016.8	-1,900.1	2,181.4	1,351,536.54	3,266,017.22	40.294441	-104.546324
5,990.0	36.55	130.37	5,091.5	-1,936.0	2,223.5	1,351,501.12	3,266,059.79	40.294343	-104.546173
6,082.0	36.74	130.13	5,165.3	-1,971.5	2,265.5	1,351,466.09	3,266,102.08	40.294245	-104.546022
6,176.0	37.01	129.54	5,240.5	-2,007.6	2,308.8	1,351,430.42	3,266,145.77	40.294146	-104.545867
6,270.0	36.40	130.32	5,315.9	-2,043.7	2,351.9	1,351,394.83	3,266,189.24	40.294047	-104.545713

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Well:	GEORGE 22N	**North Reference:**	True
Wellbore:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Design:	GEORGE 22N Final Surveys	**Database:**	US_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,364.0	36.61	129.80	5,391.5	-2,079.7	2,394.7	1,351,359.30	3,266,232.42	40.293948	-104.545559
6,461.0	36.94	129.65	5,469.2	-2,116.8	2,439.3	1,351,322.66	3,266,277.47	40.293846	-104.545399
6,552.0	36.53	129.62	5,542.1	-2,151.5	2,481.2	1,351,288.40	3,266,319.75	40.293751	-104.545249
6,645.0	36.19	129.47	5,617.0	-2,186.6	2,523.8	1,351,253.75	3,266,362.64	40.293655	-104.545096
6,739.0	36.33	129.09	5,692.8	-2,221.8	2,566.8	1,351,219.01	3,266,406.05	40.293558	-104.544942
6,833.0	30.88	131.44	5,771.0	-2,255.3	2,606.5	1,351,185.89	3,266,446.13	40.293466	-104.544800
6,927.0	24.35	141.08	5,854.3	-2,286.4	2,636.8	1,351,155.13	3,266,476.76	40.293381	-104.544691
7,020.0	19.68	161.40	5,940.6	-2,316.3	2,653.9	1,351,125.49	3,266,494.15	40.293299	-104.544630
7,114.0	17.34	186.64	6,029.9	-2,345.2	2,657.3	1,351,096.57	3,266,497.89	40.293219	-104.544618
7,207.0	20.77	207.41	6,117.9	-2,373.7	2,648.1	1,351,068.03	3,266,488.99	40.293141	-104.544651
7,301.0	26.68	217.47	6,204.0	-2,405.2	2,627.6	1,351,036.23	3,266,468.79	40.293055	-104.544724
7,395.0	33.84	221.76	6,285.1	-2,441.6	2,597.3	1,350,999.58	3,266,438.87	40.292955	-104.544833
7,489.0	40.34	224.89	6,360.1	-2,482.7	2,558.3	1,350,958.04	3,266,400.36	40.292842	-104.544973
7,583.0	45.00	231.64	6,429.2	-2,524.9	2,510.7	1,350,915.32	3,266,353.24	40.292726	-104.545143
7,677.0	49.77	242.94	6,492.9	-2,562.0	2,452.6	1,350,877.66	3,266,295.49	40.292624	-104.545352
7,771.0	56.80	250.41	6,549.1	-2,591.5	2,383.4	1,350,847.36	3,266,226.66	40.292543	-104.545600
7,865.0	61.85	254.55	6,597.1	-2,615.8	2,306.4	1,350,822.29	3,266,149.85	40.292477	-104.545876
7,960.0	65.43	256.94	6,639.3	-2,636.7	2,223.9	1,350,800.48	3,266,067.60	40.292419	-104.546172
8,053.0	73.07	263.16	6,672.2	-2,651.6	2,138.3	1,350,784.68	3,265,982.20	40.292378	-104.546478
8,147.0	82.56	267.63	6,692.1	-2,658.9	2,046.9	1,350,776.40	3,265,890.83	40.292358	-104.546806
8,241.0	89.53	269.26	6,698.5	-2,661.4	1,953.2	1,350,772.87	3,265,797.18	40.292352	-104.547142
LPL - 205' FEL & 612' FSL									
8,334.0	89.74	269.41	6,699.1	-2,662.5	1,860.2	1,350,770.80	3,265,704.21	40.292349	-104.547475
8,429.0	90.11	270.39	6,699.3	-2,662.7	1,765.2	1,350,769.62	3,265,609.23	40.292348	-104.547816
8,522.0	89.96	269.54	6,699.2	-2,662.7	1,672.2	1,350,768.57	3,265,516.24	40.292348	-104.548149
8,617.0	90.17	269.19	6,699.1	-2,663.8	1,577.2	1,350,766.50	3,265,421.26	40.292345	-104.548490
8,711.0	89.76	268.54	6,699.1	-2,665.7	1,483.2	1,350,763.64	3,265,327.31	40.292340	-104.548827
8,805.0	90.35	269.31	6,699.1	-2,667.4	1,389.2	1,350,760.87	3,265,233.36	40.292335	-104.549164
8,898.0	89.41	269.14	6,699.3	-2,668.7	1,296.2	1,350,758.62	3,265,140.39	40.292332	-104.549497
8,991.0	89.78	269.84	6,699.9	-2,669.5	1,203.2	1,350,756.80	3,265,047.42	40.292329	-104.549830
9,086.0	90.20	269.44	6,699.9	-2,670.1	1,108.2	1,350,755.19	3,264,952.43	40.292328	-104.550171
9,179.0	89.39	268.09	6,700.3	-2,672.1	1,015.3	1,350,752.20	3,264,859.49	40.292322	-104.550504
9,273.0	90.26	267.98	6,700.5	-2,675.3	921.3	1,350,747.97	3,264,765.59	40.292314	-104.550841
9,366.0	89.36	266.85	6,700.9	-2,679.5	828.4	1,350,742.79	3,264,672.74	40.292302	-104.551174
9,460.0	89.97	267.60	6,701.4	-2,684.1	734.5	1,350,737.24	3,264,578.91	40.292290	-104.551510
9,553.0	89.84	267.36	6,701.6	-2,688.2	641.6	1,350,732.16	3,264,486.06	40.292278	-104.551843
9,647.0	90.26	268.05	6,701.5	-2,691.9	547.7	1,350,727.39	3,264,392.18	40.292268	-104.552180
9,741.0	89.30	267.01	6,701.8	-2,696.0	453.8	1,350,722.34	3,264,298.33	40.292257	-104.552517
9,835.0	90.35	267.97	6,702.1	-2,700.1	359.9	1,350,717.22	3,264,204.47	40.292246	-104.552853
9,928.0	89.17	268.01	6,702.5	-2,703.4	266.9	1,350,712.97	3,264,111.58	40.292237	-104.553187
10,023.0	89.29	268.20	6,703.8	-2,706.5	172.0	1,350,708.82	3,264,016.68	40.292228	-104.553527
10,117.0	90.22	267.78	6,704.2	-2,709.8	78.1	1,350,704.52	3,263,922.78	40.292219	-104.553864
10,210.0	89.63	268.34	6,704.3	-2,712.9	-14.9	1,350,700.38	3,263,829.88	40.292210	-104.554197
10,304.0	89.47	269.58	6,705.1	-2,714.6	-108.9	1,350,697.67	3,263,735.93	40.292206	-104.554534
10,398.0	89.76	269.56	6,705.7	-2,715.4	-202.9	1,350,695.96	3,263,641.95	40.292204	-104.554871
10,492.0	89.81	270.06	6,706.0	-2,715.7	-296.9	1,350,694.65	3,263,547.97	40.292203	-104.555208
10,585.0	89.82	270.27	6,706.3	-2,715.4	-389.9	1,350,693.92	3,263,454.97	40.292204	-104.555541
10,680.0	89.67	269.93	6,706.8	-2,715.2	-484.8	1,350,693.08	3,263,359.98	40.292204	-104.555881
10,773.0	89.43	270.14	6,707.5	-2,715.2	-577.8	1,350,692.14	3,263,266.99	40.292204	-104.556215
10,868.0	90.18	270.13	6,707.8	-2,715.0	-672.8	1,350,691.35	3,263,172.00	40.292205	-104.556555
10,961.0	90.13	270.53	6,707.6	-2,714.4	-765.8	1,350,690.89	3,263,079.01	40.292206	-104.556889
11,055.0	89.66	269.48	6,707.7	-2,714.4	-859.8	1,350,689.90	3,262,985.02	40.292206	-104.557226
11,243.0	89.44	270.02	6,709.2	-2,715.2	-1,047.8	1,350,687.07	3,262,797.06	40.292204	-104.557900
11,337.0	90.12	269.87	6,709.6	-2,715.3	-1,141.8	1,350,685.98	3,262,703.07	40.292204	-104.558237
11,431.0	89.68	270.79	6,709.7	-2,714.8	-1,235.8	1,350,685.52	3,262,609.08	40.292205	-104.558574

Ensign

Survey Report - Geographic

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Well:	GEORGE 22N	**North Reference:**	True
Wellbore:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Design:	GEORGE 22N Final Surveys	**Database:**	US_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,526.0	89.25	269.73	6,710.6	-2,714.3	-1,330.8	1,350,684.94	3,262,514.09	40.292206	-104.558914
11,620.0	89.64	269.61	6,711.5	-2,714.9	-1,424.8	1,350,683.39	3,262,420.11	40.292205	-104.559251
11,714.0	90.09	270.43	6,711.8	-2,714.9	-1,518.8	1,350,682.43	3,262,326.12	40.292205	-104.559588
11,808.0	89.50	269.63	6,712.1	-2,714.8	-1,612.8	1,350,681.47	3,262,232.13	40.292205	-104.559925
11,902.0	89.93	269.90	6,712.6	-2,715.2	-1,706.8	1,350,680.08	3,262,138.15	40.292204	-104.560262
11,996.0	90.20	270.40	6,712.5	-2,714.9	-1,800.8	1,350,679.33	3,262,044.15	40.292205	-104.560599
12,090.0	89.76	269.81	6,712.5	-2,714.8	-1,894.8	1,350,678.50	3,261,950.16	40.292205	-104.560936
12,184.0	89.93	270.14	6,712.7	-2,714.8	-1,988.8	1,350,677.45	3,261,856.17	40.292205	-104.561273
12,278.0	89.98	269.99	6,712.8	-2,714.7	-2,082.8	1,350,676.56	3,261,762.18	40.292205	-104.561610
12,371.0	89.16	270.05	6,713.5	-2,714.7	-2,175.8	1,350,675.60	3,261,669.19	40.292205	-104.561943
12,465.0	89.82	269.85	6,714.3	-2,714.8	-2,269.8	1,350,674.51	3,261,575.21	40.292205	-104.562280
12,559.0	89.69	270.18	6,714.8	-2,714.7	-2,363.8	1,350,673.54	3,261,481.22	40.292205	-104.562617
12,653.0	89.66	269.63	6,715.3	-2,714.9	-2,457.8	1,350,672.38	3,261,387.23	40.292205	-104.562954
12,746.0	89.81	270.09	6,715.7	-2,715.1	-2,550.8	1,350,671.16	3,261,294.25	40.292204	-104.563287
12,840.0	89.63	270.21	6,716.2	-2,714.9	-2,644.8	1,350,670.40	3,261,200.25	40.292205	-104.563624
12,933.0	89.75	270.54	6,716.7	-2,714.3	-2,737.8	1,350,670.02	3,261,107.26	40.292206	-104.563958
13,028.0	89.99	269.96	6,716.9	-2,713.8	-2,832.8	1,350,669.42	3,261,012.27	40.292207	-104.564298
13,121.0	89.48	269.97	6,717.3	-2,713.9	-2,925.8	1,350,668.37	3,260,919.28	40.292207	-104.564631
13,215.0	89.82	270.15	6,717.9	-2,713.8	-3,019.8	1,350,667.47	3,260,825.29	40.292207	-104.564968
13,309.0	89.63	270.00	6,718.3	-2,713.7	-3,113.8	1,350,666.59	3,260,731.30	40.292208	-104.565305
13,402.0	89.61	270.04	6,719.0	-2,713.6	-3,206.8	1,350,665.63	3,260,638.31	40.292208	-104.565639
13,496.0	90.20	270.25	6,719.1	-2,713.4	-3,300.8	1,350,664.86	3,260,544.32	40.292208	-104.565976
13,590.0	90.55	270.33	6,718.5	-2,712.9	-3,394.8	1,350,664.34	3,260,450.33	40.292210	-104.566313
13,684.0	90.31	269.88	6,717.8	-2,712.8	-3,488.8	1,350,663.51	3,260,356.34	40.292210	-104.566650
13,778.0	90.19	270.27	6,717.4	-2,712.6	-3,582.8	1,350,662.63	3,260,262.35	40.292210	-104.566987
13,872.0	89.33	270.12	6,717.8	-2,712.3	-3,676.8	1,350,661.94	3,260,168.35	40.292211	-104.567323
13,965.0	89.46	270.06	6,718.8	-2,712.2	-3,769.8	1,350,661.10	3,260,075.37	40.292212	-104.567657
14,059.0	89.66	270.47	6,719.5	-2,711.7	-3,863.8	1,350,660.53	3,259,981.38	40.292213	-104.567994
14,152.0	89.64	269.81	6,720.1	-2,711.5	-3,956.8	1,350,659.76	3,259,888.39	40.292213	-104.568327
14,246.0	89.40	269.77	6,720.8	-2,711.9	-4,050.8	1,350,658.42	3,259,794.40	40.292212	-104.568664
14,340.0	89.53	270.47	6,721.7	-2,711.7	-4,144.8	1,350,657.61	3,259,700.42	40.292213	-104.569001
14,434.0	89.68	270.47	6,722.4	-2,710.9	-4,238.7	1,350,657.38	3,259,606.42	40.292215	-104.569338
14,527.0	89.13	269.93	6,723.3	-2,710.6	-4,331.7	1,350,656.71	3,259,513.43	40.292216	-104.569671
14,620.0	89.40	270.15	6,724.5	-2,710.5	-4,424.7	1,350,655.79	3,259,420.45	40.292216	-104.570005
14,713.0	89.32	270.37	6,725.6	-2,710.1	-4,517.7	1,350,655.22	3,259,327.46	40.292217	-104.570338
14,807.0	89.56	270.32	6,726.5	-2,709.5	-4,611.7	1,350,654.78	3,259,233.47	40.292219	-104.570675
14,901.0	89.39	270.47	6,727.3	-2,708.9	-4,705.7	1,350,654.43	3,259,139.48	40.292220	-104.571012
14,995.0	89.31	270.18	6,728.4	-2,708.3	-4,799.7	1,350,653.96	3,259,045.49	40.292222	-104.571349
15,090.0	89.35	270.19	6,729.5	-2,708.0	-4,894.7	1,350,653.25	3,258,950.51	40.292223	-104.571689
15,184.0	89.09	269.36	6,730.8	-2,708.4	-4,988.7	1,350,651.88	3,258,856.53	40.292221	-104.572026
15,277.0	89.54	269.84	6,731.9	-2,709.0	-5,081.7	1,350,650.24	3,258,763.56	40.292220	-104.572360
15,372.0	89.27	269.73	6,732.9	-2,709.4	-5,176.7	1,350,648.87	3,258,668.58	40.292219	-104.572700
15,466.0	89.46	269.94	6,733.9	-2,709.7	-5,270.7	1,350,647.59	3,258,574.59	40.292218	-104.573037
15,560.0	89.48	270.38	6,734.8	-2,709.4	-5,364.7	1,350,646.85	3,258,480.61	40.292218	-104.573374
15,654.0	88.75	269.43	6,736.3	-2,709.6	-5,458.6	1,350,645.70	3,258,386.63	40.292218	-104.573711
15,749.0	89.08	269.76	6,738.1	-2,710.2	-5,553.6	1,350,644.01	3,258,291.67	40.292216	-104.574051
15,843.0	89.02	269.77	6,739.6	-2,710.6	-5,647.6	1,350,642.62	3,258,197.69	40.292215	-104.574388
15,936.0	89.46	269.48	6,740.9	-2,711.2	-5,740.6	1,350,641.02	3,258,104.72	40.292213	-104.574722
16,030.0	89.66	269.70	6,741.6	-2,711.9	-5,834.6	1,350,639.35	3,258,010.74	40.292211	-104.575059
16,124.0	89.57	269.46	6,742.2	-2,712.6	-5,928.6	1,350,637.66	3,257,916.76	40.292209	-104.575396
16,218.0	89.59	269.71	6,742.9	-2,713.3	-6,022.6	1,350,635.97	3,257,822.79	40.292207	-104.575732
16,313.0	89.91	270.00	6,743.3	-2,713.5	-6,117.6	1,350,634.72	3,257,727.80	40.292207	-104.576073
16,407.0	90.11	269.84	6,743.3	-2,713.6	-6,211.6	1,350,633.59	3,257,633.81	40.292206	-104.576410
16,501.0	89.91	269.76	6,743.3	-2,714.0	-6,305.6	1,350,632.26	3,257,539.82	40.292205	-104.576747
16,595.0	89.61	269.54	6,743.7	-2,714.5	-6,399.6	1,350,630.68	3,257,445.84	40.292204	-104.577084

Ensign

Survey Report - Geographic

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Well:	GEORGE 22N	**North Reference:**	True
Wellbore:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Design:	GEORGE 22N Final Surveys	**Database:**	US_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,688.0	89.46	269.80	6,744.4	-2,715.1	-6,492.6	1,350,629.15	3,257,352.86	40.292202	-104.577417
16,781.0	90.07	269.89	6,744.8	-2,715.3	-6,585.6	1,350,627.91	3,257,259.88	40.292201	-104.577751
16,875.0	89.76	269.17	6,744.9	-2,716.1	-6,679.6	1,350,626.13	3,257,165.90	40.292199	-104.578088
16,969.0	89.50	269.75	6,745.6	-2,717.0	-6,773.6	1,350,624.25	3,257,071.92	40.292197	-104.578424
17,063.0	89.66	269.64	6,746.2	-2,717.5	-6,867.6	1,350,622.74	3,256,977.94	40.292195	-104.578761
17,157.0	89.44	269.63	6,747.0	-2,718.1	-6,961.6	1,350,621.14	3,256,883.96	40.292194	-104.579098
17,251.0	89.59	269.78	6,747.8	-2,718.6	-7,055.6	1,350,619.66	3,256,789.98	40.292192	-104.579435
17,345.0	89.56	269.26	6,748.5	-2,719.4	-7,149.5	1,350,617.87	3,256,696.01	40.292190	-104.579772
17,439.0	89.61	269.72	6,749.2	-2,720.2	-7,243.5	1,350,616.03	3,256,602.03	40.292188	-104.580109
17,533.0	89.83	269.40	6,749.6	-2,720.9	-7,337.5	1,350,614.30	3,256,508.05	40.292185	-104.580446
17,626.0	89.89	269.44	6,749.8	-2,721.9	-7,430.5	1,350,612.37	3,256,415.08	40.292183	-104.580779
17,720.0	89.82	269.66	6,750.1	-2,722.6	-7,524.5	1,350,610.63	3,256,321.10	40.292181	-104.581116
17,813.0	89.96	269.57	6,750.3	-2,723.2	-7,617.5	1,350,609.01	3,256,228.12	40.292179	-104.581450
17,907.0	89.96	269.55	6,750.3	-2,723.9	-7,711.5	1,350,607.29	3,256,134.14	40.292177	-104.581787
18,001.0	89.84	269.54	6,750.5	-2,724.7	-7,805.5	1,350,605.54	3,256,040.16	40.292175	-104.582124
18,095.0	89.61	269.55	6,750.9	-2,725.4	-7,899.5	1,350,603.79	3,255,946.18	40.292173	-104.582461
18,188.0	89.86	269.37	6,751.4	-2,726.3	-7,992.5	1,350,601.92	3,255,853.20	40.292170	-104.582794
18,281.0	89.96	269.61	6,751.5	-2,727.1	-8,085.5	1,350,600.10	3,255,760.22	40.292168	-104.583127
18,367.0	89.96	269.61	6,751.6	-2,727.7	-8,171.5	1,350,598.60	3,255,674.24	40.292166	-104.583436
BHL - 551' FSL & 205' FWL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
50.0	50.0	13 3/8"	13-3/8	17-1/2

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,241.0	6,698.5	-2,661.4	1,953.2	LPL - 205' FEL & 612' FSL
18,367.0	6,751.6	-2,727.7	-8,171.5	BHL - 551' FSL & 205' FWL

Checked By: _____ Approved By: _____ Date: _____

Chevron DJ Basin

SEC.21-T4N-R64W
George Pad
GEORGE 22N

GEORGE 22N
GEORGE 22N Final Surveys

Anticollision Summary Report

13 May, 2024

Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Reference	GEORGE 22N Final Surveys		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0 ft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	3.50 **Sigma**	**Casing Method:**	N/A Unknown

Survey Program **Date** 05/13/2024

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
208.0	18,367.0	Survey #1 (GEORGE 22N)	MWD+IFR1+SAG+MS	OWSG MWD + IFR1 + Sag + Multi-Station Corre

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Balboa C20-24D Pad Sec.20-T4N-R64W						
Balboa C20-24D - Wellbore #1 - Wellbore #1	15,824.7	6,911.1	792.3	599.4	4.148	CC, ES
Balboa C20-24D - Wellbore #1 - Wellbore #1	15,900.0	6,911.3	795.9	601.8	4.140	SF
Chenoweth C20-25D - Wellbore #1 - Wellbore #1	17,253.5	7,023.7	689.6	464.9	3.092	CC, ES
Chenoweth C20-25D - Wellbore #1 - Wellbore #1	17,300.0	7,024.2	691.0	465.2	3.082	SF
George Offsets South						
Guttersen C28-715 - Guttersen C28-715 - Guttersen C28	8,400.0	17,385.0	1,028.4	946.4	12.895	CC, ES
Guttersen C28-715 - Guttersen C28-715 - Guttersen C28	9,200.0	17,385.0	1,308.9	1,186.6	10.897	SF
Guttersen C28-725 - Guttersen C28-725 - Guttersen C28	8,300.0	17,166.0	1,267.1	1,143.9	10.479	SF
Guttersen C28-725 - Guttersen C28-725 - Guttersen C28	9,058.3	17,166.0	1,014.3	929.6	12.301	CC, ES
Guttersen C28-735 - Guttersen C28-735 - Guttersen C28	9,730.7	17,115.0	990.2	900.2	11.291	CC, ES
Guttersen C28-735 - Guttersen C28-735 - Guttersen C28	10,400.0	17,115.0	1,202.6	1,081.4	10.111	SF
Guttersen C28-745 - Guttersen C28-745 - Guttersen C28	9,800.0	17,131.0	1,116.9	997.1	9.501	SF
Guttersen C28-745 - Guttersen C28-745 - Guttersen C28	10,333.3	17,131.0	969.6	871.6	10.125	CC, ES
Guttersen C28-755 - Guttersen C28-755 - Guttersen C28	11,000.0	17,086.0	969.3	861.7	9.194	CC, ES
Guttersen C28-755 - Guttersen C28-755 - Guttersen C28	11,400.0	17,086.0	1,052.9	932.1	8.875	SF
Guttersen C28-765 ST01 - Guttersen C28-765 ST01 - Gu	11,700.0	17,018.0	964.8	846.4	8.296	CC, ES
Guttersen C28-765 ST01 - Guttersen C28-765 ST01 - Gu	11,900.0	17,018.0	987.9	865.9	8.241	SF
Guttersen C28-775 - Guttersen C28-775 - Guttersen C28	12,308.9	17,302.0	964.6	835.2	7.581	CC, ES
Guttersen C28-775 - Guttersen C28-775 - Guttersen C28	12,400.0	17,302.0	968.8	838.7	7.570	SF
Guttersen C28-785 - Guttersen C28-785 - Guttersen C28	12,900.0	17,519.0	761.9	620.2	5.452	SF
Guttersen C28-785 - Guttersen C28-785 - Guttersen C28	12,962.6	17,519.0	759.4	618.2	5.456	CC, ES
JOHNSON C32-715 - JOHNSON C32-715 - JOHNSON (	13,800.0	7,169.0	500.3	350.8	3.384	ES, SF
JOHNSON C32-715 - JOHNSON C32-715 - JOHNSON (	13,825.6	7,143.6	499.0	351.2	3.417	CC
JOHNSON C32-725 - JOHNSON C32-725 - JOHNSON (	14,431.9	6,886.0	497.8	348.4	3.372	CC
JOHNSON C32-725 - JOHNSON C32-725 - JOHNSON (	14,431.9	6,886.0	497.8	348.4	3.372	ES, SF
JOHNSON C32-735 - JOHNSON C32-735 - JOHNSON (	15,025.9	6,720.0	528.5	362.5	3.217	ES, SF
JOHNSON C32-735 - JOHNSON C32-735 - JOHNSON (	15,057.3	6,698.0	528.4	364.2	3.251	CC
JOHNSON C32-745 - JOHNSON C32-745 - JOHNSON (	15,633.4	6,603.0	532.8	358.6	3.087	CC, ES, SF
JOHNSON C32-755 - JOHNSON C32-755 - JOHNSON (	16,331.7	6,750.1	562.0	375.1	3.032	CC
JOHNSON C32-755 - JOHNSON C32-755 - JOHNSON (	16,332.1	6,750.1	562.0	375.1	3.032	ES, SF
JOHNSON C32-765 - JOHNSON C32-765 - JOHNSON (	16,959.3	6,675.9	533.1	332.2	2.674	CC, ES, SF
JOHNSON C32-775 - JOHNSON C32-775 - JOHNSON (	17,562.4	6,604.0	553.1	347.3	2.708	CC, ES, SF
JOHNSON C32-785 - JOHNSON C32-785 - JOHNSON (	18,158.8	6,698.0	514.3	291.5	2.323	CC, ES, SF

Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
George Pad						
GEORGE 08N - GEORGE 08N - GEORGE 08N Final Su	0.0	0.0	210.0			
GEORGE 08N - GEORGE 08N - GEORGE 08N Final Su	1,300.0	1,329.9	384.3	369.4	30.689	SF
GEORGE 09N - GEORGE 09N - GEORGE 09N Final Su	0.0	0.0	195.0			
GEORGE 09N - GEORGE 09N - GEORGE 09N Final Su	5,900.0	5,661.3	2,018.5	1,947.9	29.561	SF
GEORGE 10N - GEORGE 10N - GEORGE 10N Final Su	0.0	0.0	180.0			
GEORGE 10N - GEORGE 10N - GEORGE 10N Final Su	800.0	813.2	225.1	214.3	26.678	SF
GEORGE 11N - GEORGE 11N - GEORGE 11N Final Sur	0.0	0.0	165.0			
GEORGE 11N - GEORGE 11N - GEORGE 11N Final Sur	6,700.0	6,612.1	2,022.5	1,940.0	25.230	SF
GEORGE 12N - GEORGE 12N - GEORGE 12N Final Su	0.0	0.0	150.0			
GEORGE 12N - GEORGE 12N - GEORGE 12N Final Su	6,700.0	6,665.3	1,806.5	1,721.6	21.865	SF
GEORGE 13N - GEORGE 13N - GEORGE 13N Final Su	0.0	0.0	135.0			
GEORGE 13N - GEORGE 13N - GEORGE 13N Final Su	18,367.0	17,319.0	1,989.0	1,654.8	5.989	SF
GEORGE 14N - GEORGE 14N - GEORGE 14N Final Su	0.0	0.0	120.0			
GEORGE 14N - GEORGE 14N - GEORGE 14N Final Su	18,367.0	17,307.9	1,773.5	1,439.1	5.335	SF
GEORGE 15NA - GEORGE 15NA - GEORGE 15NA Fina	0.0	0.0	105.0			
GEORGE 15NA - GEORGE 15NA - GEORGE 15NA Fina	18,367.0	17,366.0	1,536.2	1,202.9	4.633	SF
GEORGE 16N - GEORGE 16N - GEORGE 16N Final Su	0.0	0.0	90.0			
GEORGE 16N - GEORGE 16N - GEORGE 16N Final Su	18,367.0	17,404.6	1,310.0	976.7	3.952	SF
GEORGE 17N - George 17N - George 17N Final Survey	0.0	0.0	75.2			
GEORGE 17N - George 17N - George 17N Final Survey	18,367.0	17,397.0	1,110.4	776.7	3.344	SF
GEORGE 18N - GEORGE 18N - GEORGE 18N Final Su	0.0	0.0	60.0			
GEORGE 18N - GEORGE 18N - GEORGE 18N Final Su	18,367.0	17,506.0	903.5	570.4	2.725	SF
GEORGE 19NA - GEORGE 19NA - GEORGE 19NA Fina	0.0	0.0	45.0			
GEORGE 19NA - GEORGE 19NA - GEORGE 19NA Fina	18,367.0	17,443.8	659.2	326.2	1.987	SF
GEORGE 20N - GEORGE 20N - GEORGE 20N Final Su	0.0	0.0	30.0			
GEORGE 20N - GEORGE 20N - GEORGE 20N Final Su	17,300.0	17,140.2	381.1	73.6	1.241	Collision Monitoring, SF
GEORGE 20N - GEORGE 20N - GEORGE 20N Plan #2	0.0	0.0	30.0			
GEORGE 20N - GEORGE 20N - GEORGE 20N Plan #2	17,300.0	17,140.1	388.2	81.1	1.266	Collision Monitoring, SF
GEORGE 21N - GEORGE 21N - George 21N Plan #2 4-	0.0	0.0	15.0			
GEORGE 22N - GEORGE 22N - GEORGE 22N Plan #2	1,808.4	1,812.6	0.2	-19.7	-0.131	CC, SF
GEORGE 22N - GEORGE 22N - GEORGE 22N Plan #2	18,367.0	18,298.2	8.7	-288.5	0.021	Unacceptable Path, ES
GEORGE 23N - GEORGE 23N - GEORGE 23N Plan #2	696.2	694.6	3.4	-6.3	0.133	Unacceptable Path, CC, S
GEORGE 23N - GEORGE 23N - GEORGE 23N Plan #2	18,367.0	17,838.9	187.9	-318.3	0.368	Unacceptable Path, ES
Hanscome C28-30D Pad SEC.20-T4N-R64W						
Hanscome C28-30D - Hanscome C28-30D - Hanscome (	13,213.1	6,846.3	468.6	326.9	3.346	CC, ES, SF
Hanscome C29-27D 03-24-09 - Hanscome C29-27D - Ha	14,601.0	6,856.5	429.9	260.9	2.566	CC, ES, SF
Hanscome Pad Sec.28-T4N-R64W						
Hanscome C28-28D 03-26-09 - Hanscome C28-28D - Ha	10,568.9	6,730.5	610.0	516.5	6.672	CC, ES, SF
Hanscome C28-29D 03-25-09 - Hanscome C28-29D - Ha	11,934.9	6,890.1	481.8	359.5	4.000	CC, ES, SF
Novacek C28-27D Pad Sec.21-T4N-R64W						
Leonard C 21-16 (Exist.) - Wellbore #1 - Wellbore #1 sur	8,582.0	6,698.7	73.2	2.7	1.039	Collision Monitoring, CC,
Novacek C28-27D - Wellbore #1 - Wellbore #1	9,300.0	6,774.1	682.9	602.7	8.748	SF
Novacek C28-27D - Wellbore #1 - Wellbore #1	9,400.0	6,774.9	675.1	596.1	8.781	ES
Novacek C28-27D - Wellbore #1 - Wellbore #1	9,403.4	6,774.9	675.1	596.1	8.786	CC
SEC.15-T4N-R64W (Existing)						
STOCKLEY C22-79HN - STOCKLEY C22-79HN - STOC	7,900.0	11,094.5	93.3	22.6	1.330	Collision Monitoring, CC
STOCKLEY C22-79HN - STOCKLEY C22-79HN - STOC	8,000.0	11,113.4	100.2	-48.6	0.668	Authorization, ES, SF

Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
SEC.19-T4N-R64W (Exist)						
VCTOR C19-9 - VICTOR C19-9 - VICTOR C19-9	18,367.0	6,784.5	1,759.0	1,543.1	8.230	CC, ES, SF
VICTOR C19-16 (Vert) - VICTOR C19-16 - VICTOR C19	18,367.0	6,829.6	848.0	363.3	1.753	CC, ES, SF
SEC.20-T4N-R64W (Exist)						
BALBOA 20-1 (Vert) - BALBOA 20-1 - BALBOA 20-1	13,921.6	6,733.3	156.1	-340.2	0.311	Unacceptable Path, CC, E
BALBOA 20-3 - BALBOA 20-3 - BALBOA 20-3	15,058.9	6,741.9	1,402.6	1,225.8	8.033	CC
BALBOA 20-3 - BALBOA 20-3 - BALBOA 20-3	15,100.0	6,742.3	1,403.1	1,225.5	7.994	ES
BALBOA 20-3 - BALBOA 20-3 - BALBOA 20-3	15,200.0	6,743.7	1,410.4	1,231.1	7.960	SF
BALBOA C-20-2 (Vert) - BALBOA C-20-2 - BALBOA C-2(	13,800.0	6,709.4	1,306.6	1,154.5	8.716	CC, ES
BALBOA C-20-2 (Vert) - BALBOA C-20-2 - BALBOA C-2(	13,900.0	6,710.1	1,311.2	1,157.1	8.630	SF
BALBOA C20-23 (Vert) - BALBOA C20-23 - BALBOA C2	14,575.5	6,730.9	879.4	712.0	5.318	CC
BALBOA C20-23 (Vert) - BALBOA C20-23 - BALBOA C2	14,600.0	6,731.3	879.9	711.9	5.302	ES, SF
BALBOA C20-24D - BALBOA C20-24D - BALBOA 20C-2	15,832.8	6,911.2	796.0	602.9	4.163	CC, ES
BALBOA C20-24D - BALBOA C20-24D - BALBOA 20C-2	15,900.0	6,911.3	798.8	604.6	4.153	SF
BALBOA C20-4 (Vert) - BALBOA C20-4 - BALBOA C20-4	15,385.7	6,745.0	80.7	-103.0	0.432	Unacceptable Path, CC, E
BALBOA C20-9X - BALBOA C20-9X - BALBOA C20-9X	13,811.0	6,763.5	1,580.8	1,428.8	10.557	CC, ES
BALBOA C20-9X - BALBOA C20-9X - BALBOA C20-9X	14,000.0	6,768.7	1,592.3	1,436.8	10.388	SF
CHENOWETH 2 - CHENOWETH 2 - CHENOWETH 2	17,928.5	6,796.1	114.8	-120.8	0.482	Unacceptable Path, CC, E
CHENOWETH C20-25D - CHENOWETH C20-25D - CHI	17,258.7	7,023.7	693.2	468.5	3.107	CC, ES
CHENOWETH C20-25D - CHENOWETH C20-25D - CHI	17,300.0	7,024.2	694.3	468.5	3.097	SF
HANSCOME C28-30D - HANSCOME C28-30D - HANSC	13,217.0	6,845.3	465.0	323.1	3.318	CC, ES, SF
HANSCOME C29-27D - HANSCOME C29-27D - HANSC	14,603.5	6,855.5	424.4	255.4	2.533	CC, ES, SF
HIGHLAND 11-20 - HIGHLAND 11-20 - HIGHLAND 11-2	16,690.8	6,737.3	1,551.8	1,342.1	7.475	CC
HIGHLAND 11-20 - HIGHLAND 11-20 - HIGHLAND 11-2	16,700.0	6,737.5	1,551.8	1,341.9	7.468	ES
HIGHLAND 11-20 - HIGHLAND 11-20 - HIGHLAND 11-2	16,800.0	6,737.9	1,555.5	1,343.7	7.417	SF
HIGHLAND 12-20 - HIGHLAND 12-20 - HIGHLAND 12-2	17,913.7	6,773.6	1,399.7	1,164.0	5.990	CC, ES
HIGHLAND 12-20 - HIGHLAND 12-20 - HIGHLAND 12-2	18,000.0	6,773.2	1,402.4	1,165.0	5.958	SF
JOHNSON C29-28 (Vert) - JOHNSON C29-28 - JOHNSC	16,120.3	6,778.2	411.5	-102.9	0.799	Shut in, CC, ES, SF
KLINGENBERG C20-780 - KLINGENBERG C20-780 (Pi	18,059.0	6,813.4	292.4	53.9	1.228	Collision Monitoring, CC,
KLINGENBERG C20-780 - KLINGENBERG C20-780 (S	18,065.4	6,933.7	221.5	8.5	1.040	Collision Monitoring, CC,
KLINGENBERG C20-780 - KLINGENBERG C20-780 (S	18,065.4	6,933.8	221.5	8.5	1.040	Collision Monitoring, CC,
SEC.21-T4N-R64W (Exist)						
HANSCOME C21-24 (Vert) - HANSCOME C21-24 - HAN	10,576.3	6,703.3	762.4	283.4	1.595	CC, ES, SF
HANSCOME C21-79HN - HANSCOME C21-79HN - HAN	13,336.6	6,765.5	204.0	105.6	2.101	CC, ES
HANSCOME C21-79HN - HANSCOME C21-79HN - HAN	13,400.0	6,765.1	212.1	109.6	2.096	SF
HANSCOME C28-28D - HANSCOME C28-28D - HANSC	10,572.5	6,730.6	609.3	515.7	6.660	CC, ES, SF
HANSCOME C28-29D - HANSCOME C28-29D - HANSC	11,937.5	6,890.1	483.3	361.0	4.010	CC, ES, SF
JULIE C21-25 (Vert) - JULIE C21-25 - JULIE C21-25	11,874.8	6,739.4	566.7	80.5	1.166	Collision Monitoring, CC,
KLEIN 1 (Vert) - KLEIN 1 - KLEIN 1	12,621.2	6,740.1	96.5	-393.0	0.193	Unacceptable Path, CC, E
LEONARD 1 - LEONARD 1 - LEONARD 1	10,038.2	6,678.4	53.6	-28.3	0.644	Authorization, CC, ES, SF
LEONARD 21-14I4 (Vert) - LEONARD 21-14I4 - LEONAI	11,339.3	6,724.7	84.9	-398.3	0.172	Unacceptable Path, CC, E
LEONARD 21-16I4 - LEONARD 21-16I4 - LEONARD 21	9,163.9	6,684.4	420.0	349.1	6.102	CC
LEONARD 21-16I4 - LEONARD 21-16I4 - LEONARD 21	9,200.0	6,684.7	421.8	348.8	5.941	ES
LEONARD 21-16I4 - LEONARD 21-16I4 - LEONARD 21	9,300.0	6,684.3	442.6	365.1	5.863	SF
LEONARD 4 (Vert) - LEONARD 4 - LEONARD 4	835.8	798.5	283.6	224.9	4.995	CC
LEONARD 4 (Vert) - LEONARD 4 - LEONARD 4	1,000.0	956.0	288.0	218.3	4.243	ES
LEONARD 4 (Vert) - LEONARD 4 - LEONARD 4	1,300.0	1,238.0	325.4	235.9	3.710	SF
LEONARD C21-16 - LEONARD C21-16 - LEONARD C2	8,579.2	6,698.7	74.3	3.3	1.049	Collision Monitoring, CC,
NOVACEK C28-27D - NOVACEK C28-27D - NOVACEK	9,300.0	6,775.1	683.2	603.0	8.746	SF
NOVACEK C28-27D - NOVACEK C28-27D - NOVACEK	9,400.0	6,775.9	675.0	595.9	8.771	ES
NOVACEK C28-27D - NOVACEK C28-27D - NOVACEK	9,406.1	6,776.0	675.0	595.9	8.780	CC
THOUTT 2 - THOUTT 2 - THOUTT 2	4,608.4	4,102.2	80.8	32.9	1.723	CC, ES, SF

Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Summary

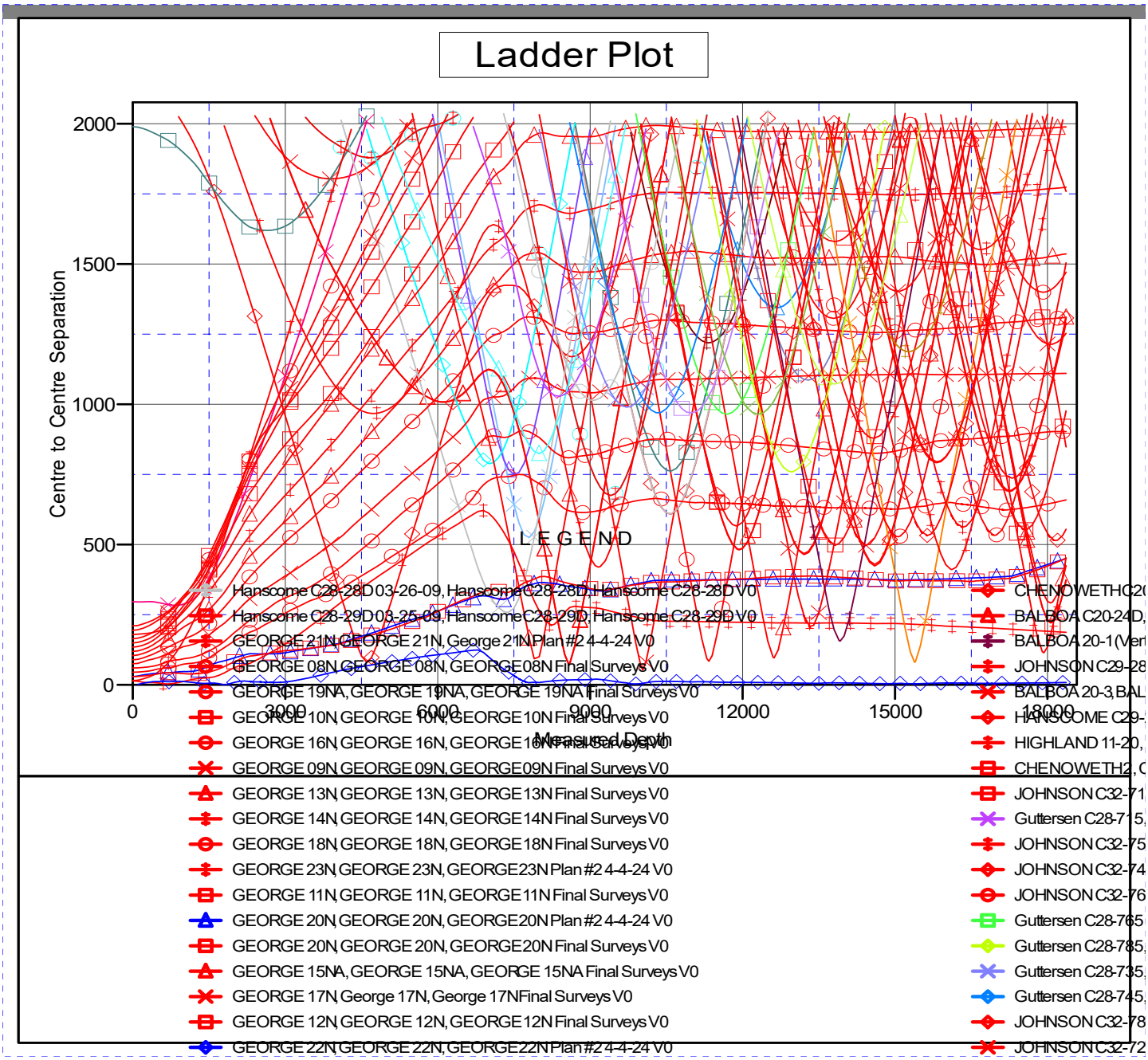
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
SEC.22-T4N-R64W (Exist)						
HERBST 1 - HERBST 1 - HERBST 1	7,368.2	6,194.6	258.8	209.7	5.495	CC, ES
HERBST 1 - HERBST 1 - HERBST 1	7,500.0	6,301.6	273.3	220.2	5.349	SF
HERBST C22-25 - HERBST C22-25 - HERBST C22-25	7,028.2	5,869.1	788.8	720.6	11.958	CC, ES
HERBST C22-25 - HERBST C22-25 - HERBST C22-25	7,100.0	5,940.4	792.9	723.7	11.836	SF
SEC.27-T4N-R64W (Exist)						
HERBST C27-30 (Vert) - HERBST C27-30 - HERBST C2	8,000.0	6,607.9	824.0	356.3	1.766	CC, ES, SF
SEC.28-T4N-R64W (Exist)						
HANSCOME 28-4 - HANSCOME 28-4 - HANSCOME 28	12,673.3	6,751.8	1,344.4	1,214.3	10.513	CC
HANSCOME 28-4 - HANSCOME 28-4 - HANSCOME 28	12,700.0	6,752.2	1,344.4	1,214.0	10.489	ES
HANSCOME 28-4 - HANSCOME 28-4 - HANSCOME 28	12,800.0	6,753.3	1,350.4	1,219.2	10.470	SF
HANSCOME C28-1 (Vert) - HANSCOME C28-1 - HANS(	11,330.7	6,723.7	1,219.3	736.4	2.533	CC, ES, SF
THOMPSON C28-79HN - THOMPSON C28-79HN - THC	13,285.6	10,884.0	1,086.7	944.7	7.769	CC, ES
THOMPSON C28-79HN - THOMPSON C28-79HN - THC	13,300.0	10,884.0	1,086.8	944.8	7.767	SF
SEC.29-T4N-R64W (Exist)						
CPC-JOHNSON 29-1 (Vert) - CPC-JOHNSON 29-1 - CP	13,815.9	6,742.4	1,072.8	575.9	2.165	CC, ES, SF
JOHNSON C29-29 (Vert) - JOHNSON C29-29 - JOHNS(	17,308.0	6,803.2	737.4	211.5	1.404	Collision Monitoring, CC,
JOHNSON R C29-2 (Vert) - JOHNSON R C29-2 - JOHN:	15,272.3	6,779.0	1,187.5	679.3	2.343	CC, ES, SF
UPRC 29-4H (Vert) - UPRC 29-4H - UPRC 29-4H	18,056.4	6,813.7	1,213.7	975.0	5.126	CC, ES
UPRC 29-4H (Vert) - UPRC 29-4H - UPRC 29-4H	18,100.0	6,814.0	1,214.5	975.2	5.117	SF
SEC.34-T4N-R64W GRID (Exist)						
Gittlein C34-775 - Gittlein C34-775 - Gittlein C34-775 PL/	7,519.0	18,523.6	750.5	418.7	2.271	CC
Gittlein C34-775 - Gittlein C34-775 - Gittlein C34-775 PL/	7,600.0	18,487.4	757.8	412.8	2.205	ES, SF
Gittlein C34-785 - Gittlein C34-785 (ST1) - Gittlein C34-7	7,800.0	18,278.8	525.4	338.9	2.842	CC
Gittlein C34-785 - Gittlein C34-785 (ST1) - Gittlein C34-7	7,900.0	18,278.8	545.9	317.7	2.407	ES
Gittlein C34-785 - Gittlein C34-785 (ST1) - Gittlein C34-7	8,000.0	18,278.8	590.6	328.3	2.264	SF

Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4743.0ft (T41 - RKB 25')	Coordinates are relative to: GEORGE 22N
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000	Grid Convergence at Surface is: 0.61°



Ensign

Anticollision Summary Report

Company:	Chevron DJ Basin	**Local Co-ordinate Reference:**	Well GEORGE 22N
Project:	SEC.21-T4N-R64W	**TVD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Reference Site:	George Pad	**MD Reference:**	WELL @ 4743.0ft (T41 - RKB 25')
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	GEORGE 22N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	3.50 sigma
Reference Wellbore	GEORGE 22N	**Database:**	US_EDM
Reference Design:	GEORGE 22N Final Surveys	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4743.0ft (T41 - RKB 25')	Coordinates are relative to: GEORGE 22N
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000	Grid Convergence at Surface is: 0.61°