

Summit Oil & Gas

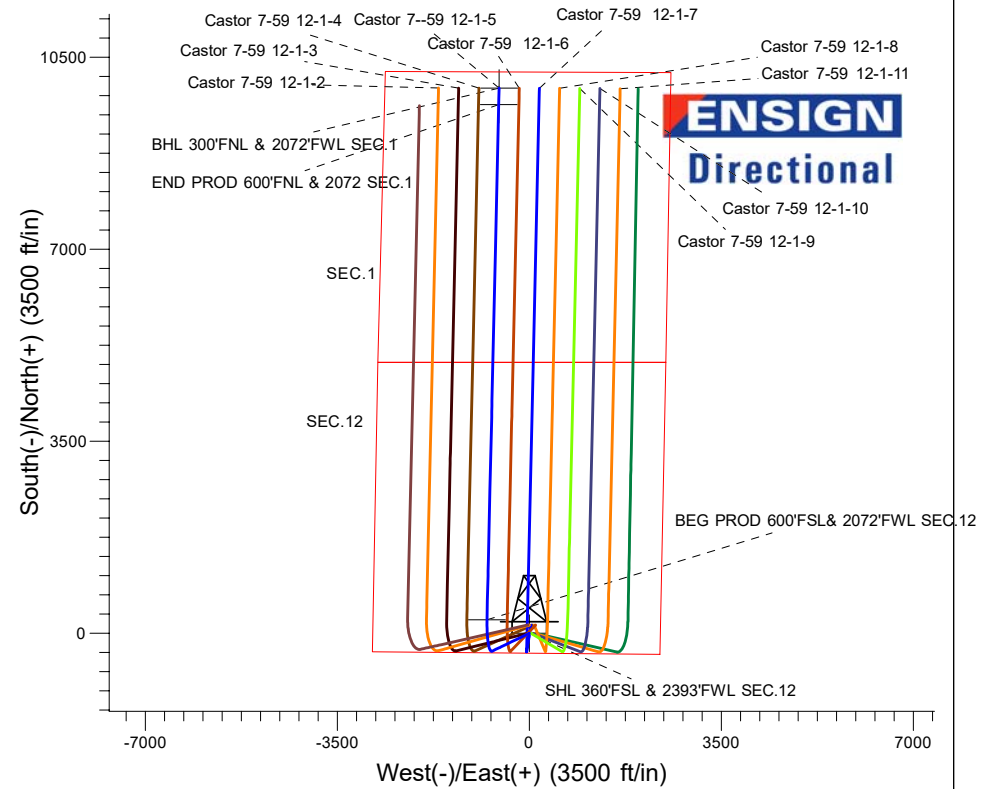
Well Name: Castor 7-59 12-1-5
 Surface Location: Castor Pad 12 SEC.12-7N-59W
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 4877.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1459071.48 3437441.04 40.582886 -103.925023
 Original Well Elev WELL @ 4892.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

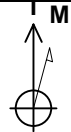
Name	TVD	+N/-S	+E/-W	Longitude	Latitude
SHL 360'FSL & 2393'FWL SEC.12	0.0	0.0	0.0	-103.925023	40.582886
BEG PROD 600'FSL & 2072'FWL SEC.12	5900.0	246.3	-773.6	-103.927808	40.583562
BHL 300'FNL & 2072'FWL SEC.1	5900.0	9936.4	-552.5	-103.927013	40.610160
END PROD 600'FNL & 2072 SEC.1	5900.0	9636.5	-558.4	-103.927034	40.609337

ANNOTATIONS

No annotation data is available.



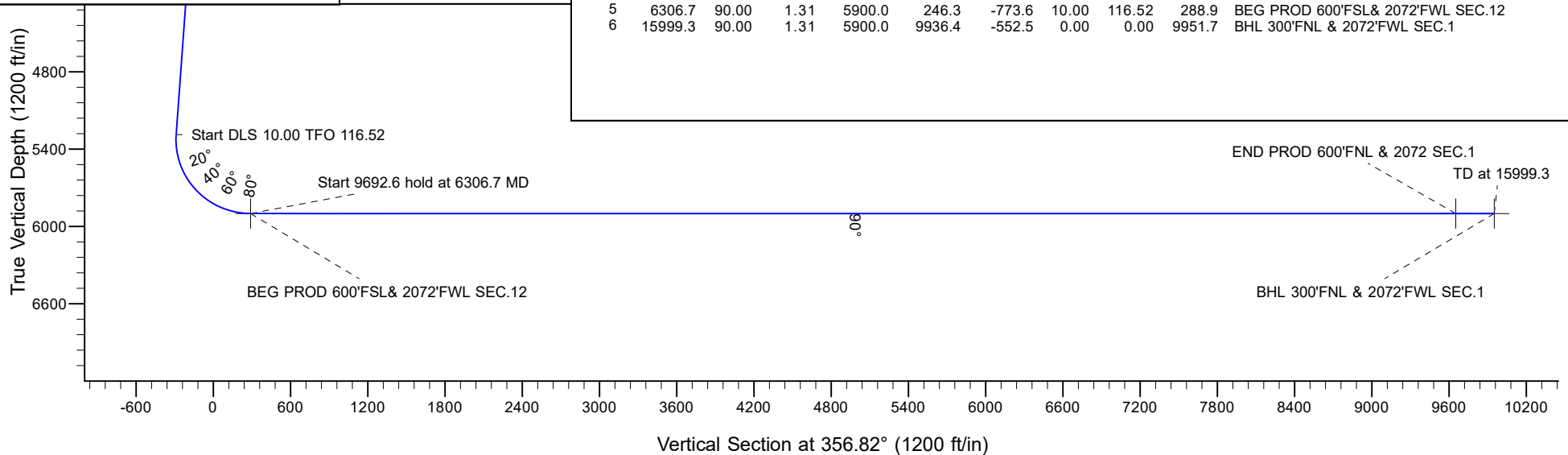
Castor Pad 12 SEC.12-7N-59W
 Castor 7-59 12-1-5
 Plan 2 REV 1 (5-4-22)
 13:49, May 04 2022



Azimuths to True North
 Magnetic North: 7.63°
 Magnetic Field
 Strength: 52080.6nT
 Dip Angle: 66.95°
 Date: 08/09/2021
 Model: HRGM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1646.4	10.93	244.37	1643.1	-22.5	-46.8	2.00	244.37	-19.8	
4	5357.4	10.93	244.37	5286.8	-326.8	-681.1	0.00	0.00	-288.5	
5	6306.7	90.00	1.31	5900.0	246.3	-773.6	10.00	116.52	288.9	BEG PROD 600'FSL & 2072'FWL SEC.12
6	15999.3	90.00	1.31	5900.0	9936.4	-552.5	0.00	0.00	9951.7	BHL 300'FNL & 2072'FWL SEC.1





Directional

Summit Oil & Gas

SEC.12-T7N-R59W

Castor Pad 12 SEC.12-7N-59W

Castor 7--59 12-1-5

Wellbore #1 Castor 12-1-5

Plan: Plan 2 REV 1 (5-4-22)

Standard Planning Report

04 May, 2022

Database:	US_EDM	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Company:	Summit Oil & Gas	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Project:	SEC.12-T7N-R59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site:	Castor Pad 12 SEC.12-7N-59W	North Reference:	True
Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Castor 12-1-5		
Design:	Plan 2 REV 1 (5-4-22)		

Project	SEC.12-T7N-R59W		
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		

Site	Castor Pad 12 SEC.12-7N-59W				
Site Position:		Northing:	1,459,221.10 usft	Latitude:	40.583298
From:	Lat/Long	Easting:	3,437,411.71 usft	Longitude:	-103.925119
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.02 °

Well	Castor 7--59 12-1-5					
Well Position	+N/-S	-150.1 ft	Northing:	1,459,071.49 usft	Latitude:	40.582886
	+E/-W	26.7 ft	Easting:	3,437,441.04 usft	Longitude:	-103.925023
Position Uncertainty		0.0 ft	Wellhead Elevation:		Ground Level:	4,877.0 ft

Wellbore	Wellbore #1 Castor 12-1-5				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	08/09/2021	7.63	66.95	52,080.60083534

Design	Plan 2 REV 1 (5-4-22)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	356.82

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,646.4	10.93	244.37	1,643.1	-22.5	-46.8	2.00	2.00	0.00	244.37	
5,357.4	10.93	244.37	5,286.8	-326.8	-681.1	0.00	0.00	0.00	0.00	
6,306.7	90.00	1.31	5,900.0	246.3	-773.6	10.00	8.33	12.32	116.52	BEG PROD 600'FSL&
15,999.3	90.00	1.31	5,900.0	9,936.4	-552.5	0.00	0.00	0.00	0.00	BHL 300'FNL & 2072'

Database:	US_EDM	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Company:	Summit Oil & Gas	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Project:	SEC.12-T7N-R59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site:	Castor Pad 12 SEC.12-7N-59W	North Reference:	True
Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Castor 12-1-5		
Design:	Plan 2 REV 1 (5-4-22)		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	2.00	244.37	1,200.0	-0.8	-1.6	-0.7	2.00	2.00	0.00
1,300.0	4.00	244.37	1,299.8	-3.0	-6.3	-2.7	2.00	2.00	0.00
1,400.0	6.00	244.37	1,399.5	-6.8	-14.1	-6.0	2.00	2.00	0.00
1,500.0	8.00	244.37	1,498.7	-12.1	-25.1	-10.6	2.00	2.00	0.00
1,600.0	10.00	244.37	1,597.5	-18.8	-39.2	-16.6	2.00	2.00	0.00
1,646.4	10.93	244.37	1,643.1	-22.5	-46.8	-19.8	2.00	2.00	0.00
1,700.0	10.93	244.37	1,695.7	-26.9	-56.0	-23.7	0.00	0.00	0.00
1,800.0	10.93	244.37	1,793.9	-35.1	-73.1	-31.0	0.00	0.00	0.00
1,900.0	10.93	244.37	1,892.1	-43.3	-90.2	-38.2	0.00	0.00	0.00
2,000.0	10.93	244.37	1,990.3	-51.5	-107.3	-45.4	0.00	0.00	0.00
2,100.0	10.93	244.37	2,088.5	-59.7	-124.4	-52.7	0.00	0.00	0.00
2,200.0	10.93	244.37	2,186.7	-67.9	-141.4	-59.9	0.00	0.00	0.00
2,300.0	10.93	244.37	2,284.8	-76.1	-158.5	-67.2	0.00	0.00	0.00
2,400.0	10.93	244.37	2,383.0	-84.3	-175.6	-74.4	0.00	0.00	0.00
2,500.0	10.93	244.37	2,481.2	-92.5	-192.7	-81.6	0.00	0.00	0.00
2,600.0	10.93	244.37	2,579.4	-100.7	-209.8	-88.9	0.00	0.00	0.00
2,700.0	10.93	244.37	2,677.6	-108.9	-226.9	-96.1	0.00	0.00	0.00
2,800.0	10.93	244.37	2,775.8	-117.1	-244.0	-103.4	0.00	0.00	0.00
2,900.0	10.93	244.37	2,874.0	-125.3	-261.1	-110.6	0.00	0.00	0.00
3,000.0	10.93	244.37	2,972.2	-133.5	-278.2	-117.8	0.00	0.00	0.00
3,100.0	10.93	244.37	3,070.3	-141.7	-295.3	-125.1	0.00	0.00	0.00
3,200.0	10.93	244.37	3,168.5	-149.9	-312.4	-132.3	0.00	0.00	0.00
3,300.0	10.93	244.37	3,266.7	-158.1	-329.4	-139.5	0.00	0.00	0.00
3,400.0	10.93	244.37	3,364.9	-166.3	-346.5	-146.8	0.00	0.00	0.00
3,500.0	10.93	244.37	3,463.1	-174.5	-363.6	-154.0	0.00	0.00	0.00
3,600.0	10.93	244.37	3,561.3	-182.7	-380.7	-161.3	0.00	0.00	0.00
3,700.0	10.93	244.37	3,659.5	-190.9	-397.8	-168.5	0.00	0.00	0.00
3,800.0	10.93	244.37	3,757.6	-199.1	-414.9	-175.7	0.00	0.00	0.00
3,900.0	10.93	244.37	3,855.8	-207.3	-432.0	-183.0	0.00	0.00	0.00
4,000.0	10.93	244.37	3,954.0	-215.5	-449.1	-190.2	0.00	0.00	0.00
4,100.0	10.93	244.37	4,052.2	-223.7	-466.2	-197.5	0.00	0.00	0.00
4,200.0	10.93	244.37	4,150.4	-231.9	-483.3	-204.7	0.00	0.00	0.00
4,300.0	10.93	244.37	4,248.6	-240.1	-500.3	-211.9	0.00	0.00	0.00
4,400.0	10.93	244.37	4,346.8	-248.3	-517.4	-219.2	0.00	0.00	0.00
4,500.0	10.93	244.37	4,445.0	-256.5	-534.5	-226.4	0.00	0.00	0.00
4,600.0	10.93	244.37	4,543.1	-264.7	-551.6	-233.7	0.00	0.00	0.00
4,700.0	10.93	244.37	4,641.3	-272.9	-568.7	-240.9	0.00	0.00	0.00
4,800.0	10.93	244.37	4,739.5	-281.1	-585.8	-248.1	0.00	0.00	0.00
4,900.0	10.93	244.37	4,837.7	-289.3	-602.9	-255.4	0.00	0.00	0.00
5,000.0	10.93	244.37	4,935.9	-297.5	-620.0	-262.6	0.00	0.00	0.00
5,100.0	10.93	244.37	5,034.1	-305.7	-637.1	-269.9	0.00	0.00	0.00
5,200.0	10.93	244.37	5,132.3	-313.9	-654.2	-277.1	0.00	0.00	0.00

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Company:	Summit Oil & Gas	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Project:	SEC.12-T7N-R59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site:	Castor Pad 12 SEC.12-7N-59W	North Reference:	True
Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Castor 12-1-5		
Design:	Plan 2 REV 1 (5-4-22)		

Planned 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)
5,300.0	10.93	244.37	5,230.4	-322.1	-671.3	-284.3	0.00	0.00	0.00
5,357.4	10.93	244.37	5,286.8	-326.8	-681.1	-288.5	0.00	0.00	0.00
5,400.0	9.79	267.36	5,328.7	-328.7	-688.3	-290.0	10.00	-2.68	54.02
5,500.0	13.47	315.39	5,426.9	-320.8	-705.0	-281.2	10.00	3.69	48.03
5,600.0	21.57	335.50	5,522.2	-295.7	-720.9	-255.2	10.00	8.10	20.11
5,700.0	30.77	344.51	5,611.9	-254.2	-735.4	-213.0	10.00	9.20	9.01
5,800.0	40.33	349.61	5,693.2	-197.6	-748.1	-155.8	10.00	9.56	5.10
5,900.0	50.04	353.01	5,763.6	-127.5	-758.6	-85.2	10.00	9.71	3.40
6,000.0	59.82	355.56	5,821.0	-46.2	-766.6	-3.6	10.00	9.78	2.55
6,100.0	69.64	357.65	5,863.6	44.0	-771.9	86.7	10.00	9.82	2.08
6,200.0	79.49	359.48	5,890.2	140.2	-774.3	183.0	10.00	9.84	1.83
6,300.0	89.34	1.19	5,900.0	239.6	-773.7	282.2	10.00	9.85	1.72
6,306.7	90.00	1.31	5,900.0	246.3	-773.6	288.9	10.00	9.86	1.70
6,400.0	90.00	1.31	5,900.0	339.6	-771.4	381.9	0.00	0.00	0.00
6,500.0	90.00	1.31	5,900.0	439.5	-769.1	481.6	0.00	0.00	0.00
6,600.0	90.00	1.31	5,900.0	539.5	-766.9	581.3	0.00	0.00	0.00
6,700.0	90.00	1.31	5,900.0	639.5	-764.6	680.9	0.00	0.00	0.00
6,800.0	90.00	1.31	5,900.0	739.5	-762.3	780.6	0.00	0.00	0.00
6,900.0	90.00	1.31	5,900.0	839.4	-760.0	880.3	0.00	0.00	0.00
7,000.0	90.00	1.31	5,900.0	939.4	-757.7	980.0	0.00	0.00	0.00
7,100.0	90.00	1.31	5,900.0	1,039.4	-755.5	1,079.7	0.00	0.00	0.00
7,200.0	90.00	1.31	5,900.0	1,139.4	-753.2	1,179.4	0.00	0.00	0.00
7,300.0	90.00	1.31	5,900.0	1,239.3	-750.9	1,279.1	0.00	0.00	0.00
7,400.0	90.00	1.31	5,900.0	1,339.3	-748.6	1,378.8	0.00	0.00	0.00
7,500.0	90.00	1.31	5,900.0	1,439.3	-746.3	1,478.5	0.00	0.00	0.00
7,600.0	90.00	1.31	5,900.0	1,539.2	-744.1	1,578.2	0.00	0.00	0.00
7,700.0	90.00	1.31	5,900.0	1,639.2	-741.8	1,677.9	0.00	0.00	0.00
7,800.0	90.00	1.31	5,900.0	1,739.2	-739.5	1,777.6	0.00	0.00	0.00
7,900.0	90.00	1.31	5,900.0	1,839.2	-737.2	1,877.3	0.00	0.00	0.00
8,000.0	90.00	1.31	5,900.0	1,939.1	-734.9	1,977.0	0.00	0.00	0.00
8,100.0	90.00	1.31	5,900.0	2,039.1	-732.7	2,076.6	0.00	0.00	0.00
8,200.0	90.00	1.31	5,900.0	2,139.1	-730.4	2,176.3	0.00	0.00	0.00
8,300.0	90.00	1.31	5,900.0	2,239.1	-728.1	2,276.0	0.00	0.00	0.00
8,400.0	90.00	1.31	5,900.0	2,339.0	-725.8	2,375.7	0.00	0.00	0.00
8,500.0	90.00	1.31	5,900.0	2,439.0	-723.5	2,475.4	0.00	0.00	0.00
8,600.0	90.00	1.31	5,900.0	2,539.0	-721.2	2,575.1	0.00	0.00	0.00
8,700.0	90.00	1.31	5,900.0	2,639.0	-719.0	2,674.8	0.00	0.00	0.00
8,800.0	90.00	1.31	5,900.0	2,738.9	-716.7	2,774.5	0.00	0.00	0.00
8,900.0	90.00	1.31	5,900.0	2,838.9	-714.4	2,874.2	0.00	0.00	0.00
9,000.0	90.00	1.31	5,900.0	2,938.9	-712.1	2,973.9	0.00	0.00	0.00
9,100.0	90.00	1.31	5,900.0	3,038.9	-709.8	3,073.6	0.00	0.00	0.00
9,200.0	90.00	1.31	5,900.0	3,138.8	-707.6	3,173.3	0.00	0.00	0.00
9,300.0	90.00	1.31	5,900.0	3,238.8	-705.3	3,273.0	0.00	0.00	0.00
9,400.0	90.00	1.31	5,900.0	3,338.8	-703.0	3,372.7	0.00	0.00	0.00
9,500.0	90.00	1.31	5,900.0	3,438.8	-700.7	3,472.4	0.00	0.00	0.00
9,600.0	90.00	1.31	5,900.0	3,538.7	-698.4	3,572.0	0.00	0.00	0.00
9,700.0	90.00	1.31	5,900.0	3,638.7	-696.2	3,671.7	0.00	0.00	0.00
9,800.0	90.00	1.31	5,900.0	3,738.7	-693.9	3,771.4	0.00	0.00	0.00
9,900.0	90.00	1.31	5,900.0	3,838.7	-691.6	3,871.1	0.00	0.00	0.00
10,000.0	90.00	1.31	5,900.0	3,938.6	-689.3	3,970.8	0.00	0.00	0.00
10,100.0	90.00	1.31	5,900.0	4,038.6	-687.0	4,070.5	0.00	0.00	0.00
10,200.0	90.00	1.31	5,900.0	4,138.6	-684.8	4,170.2	0.00	0.00	0.00
10,300.0	90.00	1.31	5,900.0	4,238.5	-682.5	4,269.9	0.00	0.00	0.00
10,400.0	90.00	1.31	5,900.0	4,338.5	-680.2	4,369.6	0.00	0.00	0.00

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Wellbore:	Wellbore #1 Castor 12-1-5		
Design:	Plan 2 REV 1 (5-4-22)		

Planned 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)
10,500.0	90.00	1.31	5,900.0	4,438.5	-677.9	4,469.3	0.00	0.00	0.00
10,600.0	90.00	1.31	5,900.0	4,538.5	-675.6	4,569.0	0.00	0.00	0.00
10,700.0	90.00	1.31	5,900.0	4,638.4	-673.4	4,668.7	0.00	0.00	0.00
10,800.0	90.00	1.31	5,900.0	4,738.4	-671.1	4,768.4	0.00	0.00	0.00
10,900.0	90.00	1.31	5,900.0	4,838.4	-668.8	4,868.1	0.00	0.00	0.00
11,000.0	90.00	1.31	5,900.0	4,938.4	-666.5	4,967.8	0.00	0.00	0.00
11,100.0	90.00	1.31	5,900.0	5,038.3	-664.2	5,067.4	0.00	0.00	0.00
11,200.0	90.00	1.31	5,900.0	5,138.3	-661.9	5,167.1	0.00	0.00	0.00
11,300.0	90.00	1.31	5,900.0	5,238.3	-659.7	5,266.8	0.00	0.00	0.00
11,400.0	90.00	1.31	5,900.0	5,338.3	-657.4	5,366.5	0.00	0.00	0.00
11,500.0	90.00	1.31	5,900.0	5,438.2	-655.1	5,466.2	0.00	0.00	0.00
11,600.0	90.00	1.31	5,900.0	5,538.2	-652.8	5,565.9	0.00	0.00	0.00
11,700.0	90.00	1.31	5,900.0	5,638.2	-650.5	5,665.6	0.00	0.00	0.00
11,800.0	90.00	1.31	5,900.0	5,738.2	-648.3	5,765.3	0.00	0.00	0.00
11,900.0	90.00	1.31	5,900.0	5,838.1	-646.0	5,865.0	0.00	0.00	0.00
12,000.0	90.00	1.31	5,900.0	5,938.1	-643.7	5,964.7	0.00	0.00	0.00
12,100.0	90.00	1.31	5,900.0	6,038.1	-641.4	6,064.4	0.00	0.00	0.00
12,200.0	90.00	1.31	5,900.0	6,138.1	-639.1	6,164.1	0.00	0.00	0.00
12,300.0	90.00	1.31	5,900.0	6,238.0	-636.9	6,263.8	0.00	0.00	0.00
12,400.0	90.00	1.31	5,900.0	6,338.0	-634.6	6,363.5	0.00	0.00	0.00
12,500.0	90.00	1.31	5,900.0	6,438.0	-632.3	6,463.1	0.00	0.00	0.00
12,600.0	90.00	1.31	5,900.0	6,537.9	-630.0	6,562.8	0.00	0.00	0.00
12,700.0	90.00	1.31	5,900.0	6,637.9	-627.7	6,662.5	0.00	0.00	0.00
12,800.0	90.00	1.31	5,900.0	6,737.9	-625.5	6,762.2	0.00	0.00	0.00
12,900.0	90.00	1.31	5,900.0	6,837.9	-623.2	6,861.9	0.00	0.00	0.00
13,000.0	90.00	1.31	5,900.0	6,937.8	-620.9	6,961.6	0.00	0.00	0.00
13,100.0	90.00	1.31	5,900.0	7,037.8	-618.6	7,061.3	0.00	0.00	0.00
13,200.0	90.00	1.31	5,900.0	7,137.8	-616.3	7,161.0	0.00	0.00	0.00
13,300.0	90.00	1.31	5,900.0	7,237.8	-614.1	7,260.7	0.00	0.00	0.00
13,400.0	90.00	1.31	5,900.0	7,337.7	-611.8	7,360.4	0.00	0.00	0.00
13,500.0	90.00	1.31	5,900.0	7,437.7	-609.5	7,460.1	0.00	0.00	0.00
13,600.0	90.00	1.31	5,900.0	7,537.7	-607.2	7,559.8	0.00	0.00	0.00
13,700.0	90.00	1.31	5,900.0	7,637.7	-604.9	7,659.5	0.00	0.00	0.00
13,800.0	90.00	1.31	5,900.0	7,737.6	-602.6	7,759.2	0.00	0.00	0.00
13,900.0	90.00	1.31	5,900.0	7,837.6	-600.4	7,858.9	0.00	0.00	0.00
14,000.0	90.00	1.31	5,900.0	7,937.6	-598.1	7,958.5	0.00	0.00	0.00
14,100.0	90.00	1.31	5,900.0	8,037.6	-595.8	8,058.2	0.00	0.00	0.00
14,200.0	90.00	1.31	5,900.0	8,137.5	-593.5	8,157.9	0.00	0.00	0.00
14,300.0	90.00	1.31	5,900.0	8,237.5	-591.2	8,257.6	0.00	0.00	0.00
14,400.0	90.00	1.31	5,900.0	8,337.5	-589.0	8,357.3	0.00	0.00	0.00
14,500.0	90.00	1.31	5,900.0	8,437.5	-586.7	8,457.0	0.00	0.00	0.00
14,600.0	90.00	1.31	5,900.0	8,537.4	-584.4	8,556.7	0.00	0.00	0.00
14,700.0	90.00	1.31	5,900.0	8,637.4	-582.1	8,656.4	0.00	0.00	0.00
14,800.0	90.00	1.31	5,900.0	8,737.4	-579.8	8,756.1	0.00	0.00	0.00
14,900.0	90.00	1.31	5,900.0	8,837.4	-577.6	8,855.8	0.00	0.00	0.00
15,000.0	90.00	1.31	5,900.0	8,937.3	-575.3	8,955.5	0.00	0.00	0.00
15,100.0	90.00	1.31	5,900.0	9,037.3	-573.0	9,055.2	0.00	0.00	0.00
15,200.0	90.00	1.31	5,900.0	9,137.3	-570.7	9,154.9	0.00	0.00	0.00
15,300.0	90.00	1.31	5,900.0	9,237.2	-568.4	9,254.6	0.00	0.00	0.00
15,400.0	90.00	1.31	5,900.0	9,337.2	-566.2	9,354.3	0.00	0.00	0.00
15,500.0	90.00	1.31	5,900.0	9,437.2	-563.9	9,453.9	0.00	0.00	0.00
15,600.0	90.00	1.31	5,900.0	9,537.2	-561.6	9,553.6	0.00	0.00	0.00
15,700.0	90.00	1.31	5,900.0	9,637.1	-559.3	9,653.3	0.00	0.00	0.00
15,800.0	90.00	1.31	5,900.0	9,737.1	-557.0	9,753.0	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Company:	Summit Oil & Gas	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Project:	SEC.12-T7N-R59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site:	Castor Pad 12 SEC.12-7N-59W	North Reference:	True
Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Castor 12-1-5		
Design:	Plan 2 REV 1 (5-4-22)		

Planned 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)	
15,900.0	90.00	1.31	5,900.0	9,837.1	-554.7	9,852.7	0.00	0.00	0.00	
15,999.3	90.00	1.31	5,900.0	9,936.4	-552.5	9,951.7	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL 360'FSL & 2393'FM - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	1,459,071.49	3,437,441.04	40.582886	-103.925023	
END PROD 600'FNL & 2 - plan misses target center by 1.0ft at 15699.4ft MD (5900.0 TVD, 9636.5 N, -559.3 E) - Point	0.00	0.00	5,900.0	9,636.5	-558.4	1,468,696.55	3,436,711.62	40.609337	-103.927034	
BHL 300'FNL & 2072'FM - plan hits target center - Point	0.00	0.00	5,900.0	9,936.4	-552.5	1,468,996.44	3,436,712.13	40.610160	-103.927013	
BEG PROD 600'FSL & 2 - plan hits target center - Point	0.00	0.00	5,900.0	246.3	-773.6	1,459,304.01	3,436,663.23	40.583562	-103.927808	



Directional

Summit Oil & Gas

SEC.12-T7N-R59W

Castor Pad 12 SEC.12-7N-59W

Castor 7--59 12-1-5

Wellbore #1 Castor 12-1-5

Plan 2 REV 1 (5-4-22)

Anticollision Report

04 May, 2022

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Reference	Plan 2 REV 1 (5-4-22)		
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:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	05/04/2022		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,999.3	Plan 2 REV 1 (5-4-22) (Wellbore #1 Casto	MWD	MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Castor Pad 12 SEC.12-7N-59W						
Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1	1,100.0	1,100.0	187.0	182.1	37.823	CC
Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1	15,999.3	15,975.6	367.8	-15.1	0.961	No-Go Zone - Stop Drilling, E
Castor 7-59 12-1-7 - Wellbore #1 Castor 12-1-7 - Plan 2	1,450.7	1,461.8	56.9	50.5	8.788	CC, ES
Castor 7-59 12-1-7 - Wellbore #1 Castor 12-1-7 - Plan 2	15,999.3	15,943.3	735.6	352.4	1.920	Collision Risk Procedures R
Castor 7-59 12-1-1 - Wellbore #1 Castor 12-1-1 - Plan 3	501.3	501.5	152.3	150.1	68.394	CC
Castor 7-59 12-1-1 - Wellbore #1 Castor 12-1-1 - Plan 3	600.0	599.6	152.5	149.9	56.854	ES
Castor 7-59 12-1-1 - Wellbore #1 Castor 12-1-1 - Plan 3	1,200.0	1,174.5	200.3	194.3	33.574	SF
Castor 7-59 12-1-10 - Wellbore #1 Castor 12-1-10 - Plan	700.0	700.0	55.8	52.7	17.743	CC, ES
Castor 7-59 12-1-10 - Wellbore #1 Castor 12-1-10 - Plan	900.0	896.1	62.3	58.3	15.617	SF
Castor 7-59 12-1-11 - Wellbore #1 Castor 12-1-11 - Plan	500.0	500.0	83.9	81.6	37.322	CC, ES
Castor 7-59 12-1-11 - Wellbore #1 Castor 12-1-11 - Plan	900.0	886.7	110.2	106.2	27.915	SF
Castor 7-59 12-1-12 - Wellbore #1 Castor 12-1-12 - Plan	300.0	300.0	111.9	110.6	83.007	CC, ES
Castor 7-59 12-1-12 - Wellbore #1 Castor 12-1-12 - Plan	900.0	870.3	170.9	167.0	43.247	SF
Castor 7-59 12-1-2 - Wellbore #1 Castor 12-1-2 - Plan 1	987.1	989.5	143.8	139.3	31.883	CC
Castor 7-59 12-1-2 - Wellbore #1 Castor 12-1-2 - Plan 1	1,000.0	1,002.2	143.8	139.2	31.411	ES
Castor 7-59 12-1-2 - Wellbore #1 Castor 12-1-2 - Plan 1	1,900.0	1,869.7	244.0	233.7	23.752	SF
Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2	700.0	700.0	28.1	24.9	8.916	CC, ES
Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2	15,999.3	16,150.6	735.8	350.7	1.911	Collision Risk Procedures R
Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3	2,300.0	2,321.3	117.2	103.6	8.647	CC
Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3	15,999.3	16,096.7	367.9	-15.0	0.961	No-Go Zone - Stop Drilling, E
Castor 7-59 12-1-8 - Wellbore #1 Castor 12-1-8 - Plan 3	1,199.2	1,207.2	144.7	139.3	26.529	CC
Castor 7-59 12-1-8 - Wellbore #1 Castor 12-1-8 - Plan 3	1,200.0	1,208.0	144.7	139.3	26.509	ES
Castor 7-59 12-1-8 - Wellbore #1 Castor 12-1-8 - Plan 3	1,500.0	1,504.9	164.6	157.7	23.711	SF
Castor 7-59 12-1-9 - Wellbore #1 Castor 12-1-9 - Plan 1	1,100.0	1,100.0	28.1	23.1	5.674	CC, ES, SF

Offset Design	Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1 (8-9-21)											Offset Site Error:	0.0 ft
Survey Program:	0-MWD											Offset Well Error:	0.0 ft
Reference	Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	(ft)		
0.0	0.0	0.0	0.0	0.0	0.0	37.19	149.0	113.0	187.0				
100.0	100.0	100.0	100.0	0.2	0.2	37.19	149.0	113.0	187.0	186.6	0.45	416.052	
200.0	200.0	200.0	200.0	0.4	0.4	37.19	149.0	113.0	187.0	186.1	0.90	208.026	
300.0	300.0	300.0	300.0	0.7	0.7	37.19	149.0	113.0	187.0	185.7	1.35	138.684	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1 (8-9-21)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
400.0	400.0	400.0	400.0	0.9	0.9	37.19	149.0	113.0	187.0	185.2	1.80	104.013				
500.0	500.0	500.0	500.0	1.1	1.1	37.19	149.0	113.0	187.0	184.8	2.25	83.210				
600.0	600.0	600.0	600.0	1.3	1.3	37.19	149.0	113.0	187.0	184.3	2.70	69.342				
700.0	700.0	700.0	700.0	1.6	1.6	37.19	149.0	113.0	187.0	183.9	3.15	59.436				
800.0	800.0	800.0	800.0	1.8	1.8	37.19	149.0	113.0	187.0	183.4	3.60	52.006				
900.0	900.0	900.0	900.0	2.0	2.0	37.19	149.0	113.0	187.0	183.0	4.05	46.228				
1,000.0	1,000.0	1,000.0	1,000.0	2.2	2.2	37.19	149.0	113.0	187.0	182.5	4.50	41.605				
1,100.0	1,100.0	1,100.0	1,100.0	2.5	2.5	37.19	149.0	113.0	187.0	182.1	4.94	37.823 CC				
1,200.0	1,200.0	1,200.0	1,200.0	2.7	2.7	153.05	149.0	113.0	188.6	183.2	5.37	35.086				
1,300.0	1,299.8	1,299.8	1,299.8	2.9	2.9	153.71	149.0	113.0	193.3	187.5	5.79	33.367				
1,400.0	1,399.5	1,406.9	1,406.9	3.1	3.1	154.79	147.6	111.7	199.3	193.1	6.20	32.141				
1,500.0	1,498.7	1,514.2	1,514.0	3.3	3.3	156.18	143.2	107.5	204.8	198.2	6.59	31.078				
1,600.0	1,597.5	1,621.6	1,621.0	3.6	3.5	157.84	136.0	100.6	209.9	202.9	6.99	30.042				
1,700.0	1,695.7	1,729.3	1,727.7	3.9	3.8	159.75	125.8	90.9	214.2	206.8	7.39	28.986				
1,800.0	1,793.9	1,834.6	1,831.6	4.2	4.1	161.62	113.2	78.8	215.5	207.7	7.80	27.621				
1,900.0	1,892.1	1,934.4	1,929.8	4.5	4.3	163.39	100.6	66.7	216.2	207.9	8.24	26.235				
2,000.0	1,990.3	2,034.2	2,028.0	4.9	4.6	165.14	88.0	54.7	217.0	208.3	8.68	24.987				
2,100.0	2,088.5	2,134.0	2,126.3	5.3	4.9	166.88	75.4	42.6	218.1	208.9	9.13	23.872				
2,200.0	2,186.7	2,233.7	2,224.5	5.6	5.3	168.60	62.8	30.6	219.3	209.7	9.59	22.861				
2,300.0	2,284.8	2,333.5	2,322.8	6.0	5.6	170.30	50.1	18.5	220.7	210.7	10.06	21.944				
2,400.0	2,383.0	2,433.3	2,421.0	6.4	6.0	171.97	37.5	6.5	222.4	211.8	10.53	21.110				
2,500.0	2,481.2	2,533.1	2,519.2	6.8	6.3	173.62	24.9	-5.6	224.2	213.1	11.02	20.349				
2,600.0	2,579.4	2,632.8	2,617.5	7.2	6.7	175.24	12.3	-17.6	226.2	214.7	11.51	19.650				
2,700.0	2,677.6	2,732.6	2,715.7	7.6	7.0	176.83	-0.3	-29.7	228.3	216.3	12.01	19.007				
2,800.0	2,775.8	2,832.4	2,814.0	8.0	7.4	178.40	-12.9	-41.7	230.7	218.2	12.53	18.412				
2,900.0	2,874.0	2,932.2	2,912.2	8.4	7.8	179.92	-25.5	-53.8	233.2	220.2	13.06	17.860				
3,000.0	2,972.2	3,031.9	3,010.4	8.9	8.2	-178.58	-38.1	-65.9	235.9	222.3	13.60	17.348				
3,100.0	3,070.3	3,131.7	3,108.7	9.3	8.5	-177.12	-50.7	-77.9	238.7	224.6	14.15	16.869				
3,200.0	3,168.5	3,231.5	3,206.9	9.7	8.9	-175.69	-63.3	-90.0	241.7	227.0	14.72	16.422				
3,300.0	3,266.7	3,331.3	3,305.2	10.1	9.3	-174.30	-75.9	-102.0	244.9	229.6	15.30	16.004				
3,400.0	3,364.9	3,431.0	3,403.4	10.5	9.7	-172.95	-88.5	-114.1	248.1	232.2	15.89	15.611				
3,500.0	3,463.1	3,530.8	3,501.6	11.0	10.1	-171.63	-101.1	-126.1	251.6	235.0	16.50	15.243				
3,600.0	3,561.3	3,630.6	3,599.9	11.4	10.5	-170.35	-113.7	-138.2	255.1	238.0	17.12	14.896				
3,700.0	3,659.5	3,730.4	3,698.1	11.8	10.9	-169.10	-126.3	-150.2	258.8	241.0	17.76	14.571				
3,800.0	3,757.6	3,830.1	3,796.4	12.2	11.3	-167.89	-138.9	-162.3	262.5	244.1	18.41	14.264				
3,900.0	3,855.8	3,929.9	3,894.6	12.7	11.7	-166.71	-151.5	-174.3	266.5	247.4	19.07	13.975				
4,000.0	3,954.0	4,029.7	3,992.8	13.1	12.1	-165.57	-164.1	-186.4	270.5	250.7	19.74	13.702				
4,100.0	4,052.2	4,129.5	4,091.1	13.5	12.4	-164.46	-176.7	-198.4	274.6	254.2	20.42	13.446				
4,200.0	4,150.4	4,229.3	4,189.3	13.9	12.8	-163.39	-189.3	-210.5	278.8	257.7	21.11	13.203				
4,300.0	4,248.6	4,329.0	4,287.6	14.4	13.2	-162.34	-201.9	-222.6	283.1	261.3	21.82	12.975				
4,400.0	4,346.8	4,428.8	4,385.8	14.8	13.6	-161.33	-214.5	-234.6	287.5	265.0	22.53	12.759				
4,500.0	4,445.0	4,528.6	4,484.0	15.2	14.0	-160.35	-227.1	-246.7	292.0	268.7	23.26	12.556				
4,600.0	4,543.1	4,628.4	4,582.3	15.6	14.4	-159.40	-239.7	-258.7	296.6	272.6	23.99	12.363				
4,700.0	4,641.3	4,728.1	4,680.5	16.1	14.8	-158.48	-252.3	-270.8	301.2	276.5	24.73	12.182				
4,800.0	4,739.5	4,827.9	4,778.8	16.5	15.2	-157.59	-265.0	-282.8	305.9	280.5	25.47	12.010				
4,900.0	4,837.7	4,927.7	4,877.0	16.9	15.6	-156.72	-277.6	-294.9	310.7	284.5	26.23	11.847				
5,000.0	4,935.9	5,027.5	4,975.2	17.4	16.0	-155.88	-290.2	-306.9	315.6	288.6	26.99	11.694				
5,100.0	5,034.1	5,127.2	5,073.5	17.8	16.4	-155.06	-302.8	-319.0	320.5	292.8	27.76	11.548				
5,200.0	5,132.3	5,227.0	5,171.7	18.2	16.8	-154.27	-315.4	-331.0	325.5	297.0	28.53	11.411				
5,300.0	5,230.4	5,326.7	5,269.9	18.7	17.2	-153.53	-327.8	-343.1	330.6	301.3	29.29	11.285				
5,400.0	5,328.7	5,425.9	5,368.2	19.1	17.5	-177.21	-329.7	-354.9	335.8	306.2	29.61	11.339				
5,500.0	5,426.9	5,523.7	5,464.1	19.3	17.6	133.86	-314.8	-366.0	341.1	311.5	29.59	11.528				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,600.0	5,522.2	5,620.3	5,555.1	19.5	17.6	113.00	-284.1	-376.2	346.4	317.0	29.40	11.783			
5,700.0	5,611.9	5,715.9	5,638.8	19.6	17.4	103.44	-239.1	-385.2	351.5	322.4	29.13	12.068			
5,800.0	5,693.2	5,810.7	5,713.4	19.6	17.3	98.03	-181.3	-392.9	356.2	327.3	28.87	12.338			
5,900.0	5,763.6	5,904.8	5,777.1	19.6	17.0	94.60	-112.5	-398.9	360.2	331.5	28.73	12.541			
6,000.0	5,821.0	5,998.3	5,828.6	19.6	16.8	92.35	-34.7	-403.3	363.6	334.8	28.80	12.623			
6,100.0	5,863.6	6,091.4	5,866.7	19.5	16.5	90.93	50.1	-405.9	366.0	336.9	29.18	12.543			
6,200.0	5,890.2	6,184.3	5,890.6	19.6	16.3	90.17	139.8	-406.8	367.5	337.6	29.90	12.294			
6,300.0	5,900.0	6,277.2	5,899.9	19.7	16.0	89.99	232.1	-405.8	368.0	337.1	30.94	11.893			
6,400.0	5,900.0	6,376.3	5,900.0	20.1	16.0	90.00	331.2	-403.5	368.0	335.6	32.37	11.369			
6,500.0	5,900.0	6,476.3	5,900.0	20.7	17.0	90.00	431.2	-401.2	368.0	333.9	34.12	10.784			
6,600.0	5,900.0	6,576.3	5,900.0	21.5	18.1	90.00	531.1	-399.0	368.0	331.8	36.20	10.164			
6,700.0	5,900.0	6,676.3	5,900.0	22.6	19.3	90.00	631.1	-396.7	368.0	329.4	38.56	9.544			
6,800.0	5,900.0	6,776.3	5,900.0	23.7	20.6	90.00	731.1	-394.4	368.0	326.9	41.13	8.946			
6,900.0	5,900.0	6,876.3	5,900.0	25.0	21.9	90.00	831.0	-392.1	368.0	324.1	43.89	8.384			
7,000.0	5,900.0	6,976.3	5,900.0	26.4	23.4	90.00	931.0	-389.9	368.0	321.2	46.81	7.862			
7,100.0	5,900.0	7,076.3	5,900.0	27.8	24.9	90.00	1,031.0	-387.6	368.0	318.1	49.85	7.382			
7,200.0	5,900.0	7,176.3	5,900.0	29.3	26.4	90.00	1,131.0	-385.3	368.0	315.0	52.99	6.944			
7,300.0	5,900.0	7,276.3	5,900.0	30.8	28.0	90.00	1,230.9	-383.0	368.0	311.8	56.22	6.545			
7,400.0	5,900.0	7,376.3	5,900.0	32.4	29.6	90.00	1,330.9	-380.7	368.0	308.5	59.52	6.182			
7,500.0	5,900.0	7,476.3	5,900.0	34.0	31.3	90.00	1,430.9	-378.5	368.0	305.1	62.88	5.852			
7,600.0	5,900.0	7,576.3	5,900.0	35.7	32.9	90.00	1,530.9	-376.2	368.0	301.7	66.30	5.550			
7,700.0	5,900.0	7,676.3	5,900.0	37.4	34.6	90.00	1,630.8	-373.9	368.0	298.2	69.76	5.275			
7,800.0	5,900.0	7,776.3	5,900.0	39.1	36.4	90.00	1,730.8	-371.6	368.0	294.7	73.26	5.023			
7,900.0	5,900.0	7,876.3	5,900.0	40.8	38.1	90.00	1,830.8	-369.3	368.0	291.2	76.78	4.792			
8,000.0	5,900.0	7,976.3	5,900.0	42.5	39.9	90.00	1,930.8	-367.1	368.0	287.6	80.34	4.580			
8,100.0	5,900.0	8,076.3	5,900.0	44.3	41.6	90.00	2,030.7	-364.8	368.0	284.0	83.92	4.384			
8,200.0	5,900.0	8,176.3	5,900.0	46.0	43.4	90.00	2,130.7	-362.5	368.0	280.4	87.53	4.204			
8,300.0	5,900.0	8,276.3	5,900.0	47.8	45.2	90.00	2,230.7	-360.2	368.0	276.8	91.15	4.037			
8,400.0	5,900.0	8,376.3	5,900.0	49.6	47.0	90.00	2,330.7	-358.0	368.0	273.2	94.79	3.882			
8,500.0	5,900.0	8,476.3	5,900.0	51.4	48.8	90.00	2,430.6	-355.7	367.9	269.5	98.45	3.738			
8,600.0	5,900.0	8,576.3	5,900.0	53.2	50.6	90.00	2,530.6	-353.4	367.9	265.8	102.11	3.603			
8,700.0	5,900.0	8,676.3	5,900.0	55.0	52.4	90.00	2,630.6	-351.1	367.9	262.2	105.79	3.478			
8,800.0	5,900.0	8,776.3	5,900.0	56.8	54.3	90.00	2,730.6	-348.8	367.9	258.5	109.49	3.361			
8,900.0	5,900.0	8,876.3	5,900.0	58.6	56.1	90.00	2,830.5	-346.6	367.9	254.8	113.19	3.251			
9,000.0	5,900.0	8,976.3	5,900.0	60.4	58.0	90.00	2,930.5	-344.3	367.9	251.0	116.90	3.148			
9,100.0	5,900.0	9,076.3	5,900.0	62.3	59.8	90.00	3,030.5	-342.0	367.9	247.3	120.61	3.051			
9,200.0	5,900.0	9,176.3	5,900.0	64.1	61.7	90.00	3,130.4	-339.7	367.9	243.6	124.34	2.959			
9,300.0	5,900.0	9,276.3	5,900.0	65.9	63.5	90.00	3,230.4	-337.4	367.9	239.9	128.07	2.873			
9,400.0	5,900.0	9,376.3	5,900.0	67.8	65.4	90.00	3,330.4	-335.2	367.9	236.1	131.81	2.791			
9,500.0	5,900.0	9,476.3	5,900.0	69.6	67.2	90.00	3,430.4	-332.9	367.9	232.4	135.55	2.714			
9,600.0	5,900.0	9,576.3	5,900.0	71.5	69.1	90.00	3,530.3	-330.6	367.9	228.6	139.30	2.641			
9,700.0	5,900.0	9,676.3	5,900.0	73.3	71.0	90.00	3,630.3	-328.3	367.9	224.9	143.05	2.572			
9,800.0	5,900.0	9,776.3	5,900.0	75.2	72.8	90.00	3,730.3	-326.1	367.9	221.1	146.81	2.506			
9,900.0	5,900.0	9,876.3	5,900.0	77.1	74.7	90.00	3,830.3	-323.8	367.9	217.3	150.57	2.443			
10,000.0	5,900.0	9,976.3	5,900.0	78.9	76.6	90.00	3,930.2	-321.5	367.9	213.6	154.34	2.384			
10,100.0	5,900.0	10,076.3	5,900.0	80.8	78.5	90.00	4,030.2	-319.2	367.9	209.8	158.10	2.327			
10,200.0	5,900.0	10,176.3	5,900.0	82.7	80.3	90.00	4,130.2	-316.9	367.9	206.0	161.88	2.273			
10,300.0	5,900.0	10,276.3	5,900.0	84.5	82.2	90.00	4,230.2	-314.7	367.9	202.3	165.65	2.221			
10,400.0	5,900.0	10,376.3	5,900.0	86.4	84.1	90.00	4,330.1	-312.4	367.9	198.5	169.43	2.171			
10,500.0	5,900.0	10,476.3	5,900.0	88.3	86.0	90.00	4,430.1	-310.1	367.9	194.7	173.21	2.124			
10,600.0	5,900.0	10,576.3	5,900.0	90.2	87.9	90.00	4,530.1	-307.8	367.9	190.9	176.99	2.079			
10,700.0	5,900.0	10,676.3	5,900.0	92.0	89.8	90.00	4,630.1	-305.5	367.9	187.1	180.78	2.035			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,800.0	5,900.0	10,776.3	5,900.0	93.9	91.6	90.00	4,730.0	-303.3	367.9	183.3	184.56	1.993	Collision Risk Procedures Req.		
10,900.0	5,900.0	10,876.3	5,900.0	95.8	93.5	90.00	4,830.0	-301.0	367.9	179.5	188.35	1.953	Collision Risk Procedures Req.		
11,000.0	5,900.0	10,976.3	5,900.0	97.7	95.4	90.00	4,930.0	-298.7	367.9	175.7	192.14	1.915	Collision Risk Procedures Req.		
11,100.0	5,900.0	11,076.3	5,900.0	99.6	97.3	90.00	5,030.0	-296.4	367.9	172.0	195.94	1.878	Collision Risk Procedures Req.		
11,200.0	5,900.0	11,176.3	5,900.0	101.5	99.2	90.00	5,129.9	-294.2	367.9	168.2	199.73	1.842	Collision Risk Procedures Req.		
11,300.0	5,900.0	11,276.3	5,900.0	103.3	101.1	90.00	5,229.9	-291.9	367.9	164.4	203.53	1.808	Collision Risk Procedures Req.		
11,400.0	5,900.0	11,376.3	5,900.0	105.2	103.0	90.00	5,329.9	-289.6	367.9	160.6	207.33	1.774	Collision Risk Procedures Req.		
11,500.0	5,900.0	11,476.3	5,900.0	107.1	104.9	90.00	5,429.9	-287.3	367.9	156.8	211.13	1.742	Collision Risk Procedures Req.		
11,600.0	5,900.0	11,576.3	5,900.0	109.0	106.8	90.00	5,529.8	-285.0	367.9	153.0	214.93	1.712	Collision Risk Procedures Req.		
11,700.0	5,900.0	11,676.3	5,900.0	110.9	108.7	90.00	5,629.8	-282.8	367.9	149.1	218.73	1.682	Collision Risk Procedures Req.		
11,800.0	5,900.0	11,776.3	5,900.0	112.8	110.6	90.00	5,729.8	-280.5	367.9	145.3	222.53	1.653	Collision Risk Procedures Req.		
11,900.0	5,900.0	11,876.3	5,900.0	114.7	112.5	90.00	5,829.7	-278.2	367.9	141.5	226.34	1.625	Collision Risk Procedures Req.		
12,000.0	5,900.0	11,976.3	5,900.0	116.6	114.4	90.00	5,929.7	-275.9	367.9	137.7	230.14	1.598	Collision Risk Procedures Req.		
12,100.0	5,900.0	12,076.3	5,900.0	118.5	116.3	90.00	6,029.7	-273.6	367.9	133.9	233.95	1.572	Collision Risk Procedures Req.		
12,200.0	5,900.0	12,176.3	5,900.0	120.4	118.2	90.00	6,129.7	-271.4	367.9	130.1	237.75	1.547	Collision Risk Procedures Req.		
12,300.0	5,900.0	12,276.3	5,900.0	122.3	120.1	90.00	6,229.6	-269.1	367.9	126.3	241.56	1.523	Collision Risk Procedures Req.		
12,400.0	5,900.0	12,376.3	5,900.0	124.2	122.0	90.00	6,329.6	-266.8	367.9	122.5	245.37	1.499	Collision Avoidance Req.		
12,500.0	5,900.0	12,476.3	5,900.0	126.1	123.9	90.00	6,429.6	-264.5	367.9	118.7	249.18	1.476	Collision Avoidance Req.		
12,600.0	5,900.0	12,576.3	5,900.0	128.0	125.8	90.00	6,529.6	-262.3	367.9	114.9	252.99	1.454	Collision Avoidance Req.		
12,700.0	5,900.0	12,676.3	5,900.0	129.9	127.7	90.00	6,629.5	-260.0	367.9	111.0	256.80	1.432	Collision Avoidance Req.		
12,800.0	5,900.0	12,776.3	5,900.0	131.8	129.6	90.00	6,729.5	-257.7	367.9	107.2	260.62	1.411	Collision Avoidance Req.		
12,900.0	5,900.0	12,876.3	5,900.0	133.7	131.5	90.00	6,829.5	-255.4	367.8	103.4	264.43	1.391	Collision Avoidance Req.		
13,000.0	5,900.0	12,976.3	5,900.0	135.6	133.4	90.00	6,929.5	-253.1	367.8	99.6	268.24	1.371	Collision Avoidance Req.		
13,100.0	5,900.0	13,076.3	5,900.0	137.5	135.3	90.00	7,029.4	-250.9	367.8	95.8	272.06	1.352	Collision Avoidance Req.		
13,200.0	5,900.0	13,176.3	5,900.0	139.4	137.2	90.00	7,129.4	-248.6	367.8	92.0	275.87	1.333	Collision Avoidance Req.		
13,300.0	5,900.0	13,276.3	5,900.0	141.3	139.1	90.00	7,229.4	-246.3	367.8	88.2	279.69	1.315	Collision Avoidance Req.		
13,400.0	5,900.0	13,376.3	5,900.0	143.2	141.0	90.00	7,329.4	-244.0	367.8	84.3	283.51	1.297	Collision Avoidance Req.		
13,500.0	5,900.0	13,476.3	5,900.0	145.1	142.9	90.00	7,429.3	-241.7	367.8	80.5	287.32	1.280	Collision Avoidance Req.		
13,600.0	5,900.0	13,576.3	5,900.0	147.0	144.8	90.00	7,529.3	-239.5	367.8	76.7	291.14	1.263	Collision Avoidance Req.		
13,700.0	5,900.0	13,676.3	5,900.0	148.9	146.7	90.00	7,629.3	-237.2	367.8	72.9	294.96	1.247	Collision Avoidance Req.		
13,800.0	5,900.0	13,776.3	5,900.0	150.8	148.6	90.00	7,729.3	-234.9	367.8	69.1	298.78	1.231	Collision Avoidance Req.		
13,900.0	5,900.0	13,876.3	5,900.0	152.7	150.5	90.00	7,829.2	-232.6	367.8	65.2	302.59	1.216	Collision Avoidance Req.		
14,000.0	5,900.0	13,976.3	5,900.0	154.6	152.5	90.00	7,929.2	-230.4	367.8	61.4	306.41	1.200	Collision Avoidance Req.		
14,100.0	5,900.0	14,076.3	5,900.0	156.5	154.4	90.00	8,029.2	-228.1	367.8	57.6	310.23	1.186	Collision Avoidance Req.		
14,200.0	5,900.0	14,176.3	5,900.0	158.4	156.3	90.00	8,129.2	-225.8	367.8	53.8	314.05	1.171	Collision Avoidance Req.		
14,300.0	5,900.0	14,276.3	5,900.0	160.3	158.2	90.00	8,229.1	-223.5	367.8	49.9	317.87	1.157	Collision Avoidance Req.		
14,400.0	5,900.0	14,376.3	5,900.0	162.2	160.1	90.00	8,329.1	-221.2	367.8	46.1	321.70	1.143	Collision Avoidance Req.		
14,500.0	5,900.0	14,476.3	5,900.0	164.1	162.0	90.00	8,429.1	-219.0	367.8	42.3	325.52	1.130	Collision Avoidance Req.		
14,600.0	5,900.0	14,576.3	5,900.0	166.0	163.9	90.00	8,529.0	-216.7	367.8	38.5	329.34	1.117	Collision Avoidance Req.		
14,700.0	5,900.0	14,676.3	5,900.0	167.9	165.8	90.00	8,629.0	-214.4	367.8	34.6	333.16	1.104	Collision Avoidance Req.		
14,800.0	5,900.0	14,776.3	5,900.0	169.8	167.7	90.00	8,729.0	-212.1	367.8	30.8	336.98	1.091	Collision Avoidance Req.		
14,900.0	5,900.0	14,876.3	5,900.0	171.7	169.6	90.00	8,829.0	-209.8	367.8	27.0	340.81	1.079	Collision Avoidance Req.		
15,000.0	5,900.0	14,976.3	5,900.0	173.6	171.5	90.00	8,928.9	-207.6	367.8	23.2	344.63	1.067	Collision Avoidance Req.		
15,100.0	5,900.0	15,076.3	5,900.0	175.6	173.5	90.00	9,028.9	-205.3	367.8	19.3	348.45	1.056	Collision Avoidance Req.		
15,200.0	5,900.0	15,176.3	5,900.0	177.5	175.4	90.00	9,128.9	-203.0	367.8	15.5	352.28	1.044	Collision Avoidance Req.		
15,300.0	5,900.0	15,276.3	5,900.0	179.4	177.3	90.00	9,228.9	-200.7	367.8	11.7	356.10	1.033	Collision Avoidance Req.		
15,400.0	5,900.0	15,376.3	5,900.0	181.3	179.2	90.00	9,328.8	-198.5	367.8	7.9	359.92	1.022	Collision Avoidance Req.		
15,500.0	5,900.0	15,476.3	5,900.0	183.2	181.1	90.00	9,428.8	-196.2	367.8	4.0	363.75	1.011	Collision Avoidance Req.		
15,600.0	5,900.0	15,576.3	5,900.0	185.1	183.0	90.00	9,528.8	-193.9	367.8	0.2	367.57	1.001	Collision Avoidance Req.		
15,700.0	5,900.0	15,676.3	5,900.0	187.0	184.9	90.00	9,628.8	-191.6	367.8	-3.6	371.40	0.990	No-Go Zone - Stop Drilling		
15,800.0	5,900.0	15,776.3	5,900.0	188.9	186.8	90.00	9,728.7	-189.3	367.8	-7.4	375.22	0.980	No-Go Zone - Stop Drilling		
15,900.0	5,900.0	15,876.3	5,900.0	190.8	188.7	90.00	9,828.7	-187.1	367.8	-11.3	379.05	0.970	No-Go Zone - Stop Drilling		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-6 - Wellbore #1 Castor 12-1-6 - Plan 1 (8-9-21)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,999.3	5,900.0	15,975.6	5,900.0	192.7	190.6	90.00	9,928.0	-184.8	367.8	-15.1	382.85	0.961	No-Go Zone - Stop Drilling, ES, SF

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-7 - Wellbore #1Castor 12-1-7 - Plan 2 REV 1 (5-4-2)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	11.02	149.7	29.2	152.5						
100.0	100.0	100.0	100.0	0.2	0.2	11.02	149.7	29.2	152.5	152.1	0.45	339.346			
200.0	200.0	200.0	200.0	0.4	0.4	11.02	149.7	29.2	152.5	151.6	0.90	169.673			
300.0	300.0	300.0	300.0	0.7	0.7	11.02	149.7	29.2	152.5	151.2	1.35	113.115			
400.0	400.0	405.6	405.6	0.9	0.9	11.04	147.8	28.8	150.7	148.9	1.79	84.304			
500.0	500.0	510.9	510.7	1.1	1.1	11.11	142.1	27.9	145.2	143.0	2.22	65.410			
600.0	600.0	615.6	614.9	1.3	1.3	11.24	132.6	26.4	136.0	133.4	2.66	51.079			
700.0	700.0	715.3	714.0	1.6	1.6	11.42	121.5	24.5	124.8	121.7	3.10	40.283			
800.0	800.0	814.7	812.8	1.8	1.9	11.63	110.5	22.7	113.5	110.0	3.54	32.093			
900.0	900.0	914.0	911.5	2.0	2.2	11.88	99.4	20.9	102.3	98.3	3.98	25.683			
1,000.0	1,000.0	1,013.4	1,010.2	2.2	2.5	12.20	88.4	19.1	91.0	86.6	4.43	20.546			
1,100.0	1,100.0	1,112.8	1,109.0	2.5	2.7	12.61	77.4	17.3	79.8	74.9	4.88	16.345			
1,200.0	1,200.0	1,212.2	1,207.8	2.7	3.0	130.06	66.3	15.5	69.6	64.3	5.31	13.104			
1,300.0	1,299.8	1,311.8	1,306.7	2.9	3.4	134.80	55.3	13.7	62.0	56.2	5.74	10.792			
1,400.0	1,399.5	1,411.3	1,405.6	3.1	3.7	142.91	44.2	11.9	57.6	51.4	6.21	9.264			
1,450.7	1,449.9	1,461.8	1,455.8	3.2	3.8	148.15	38.6	10.9	56.9	50.5	6.48	8.788	CC, ES		
1,500.0	1,498.7	1,510.7	1,504.4	3.3	4.0	153.66	33.1	10.1	57.6	50.8	6.75	8.529			
1,600.0	1,597.5	1,609.9	1,602.9	3.6	4.3	164.86	22.1	8.2	62.9	55.6	7.34	8.572			
1,700.0	1,695.7	1,708.7	1,701.1	3.9	4.6	174.27	11.2	6.4	73.3	65.4	7.95	9.220			
1,800.0	1,793.9	1,807.5	1,799.3	4.2	4.9	-178.75	0.2	4.6	85.5	77.0	8.54	10.012			
1,900.0	1,892.1	1,906.3	1,897.4	4.5	5.2	-173.56	-10.8	2.9	98.7	89.6	9.13	10.812			
2,000.0	1,990.3	2,005.1	1,995.6	4.9	5.5	-169.61	-21.8	1.1	112.4	102.7	9.71	11.580			
2,100.0	2,088.5	2,103.8	2,093.7	5.3	5.8	-166.52	-32.8	-0.7	126.6	116.3	10.30	12.299			
2,200.0	2,186.7	2,202.6	2,191.9	5.6	6.1	-164.06	-43.7	-2.5	141.1	130.2	10.88	12.962			
2,300.0	2,284.8	2,301.4	2,290.1	6.0	6.4	-162.06	-54.7	-4.3	155.8	144.3	11.48	13.570			
2,400.0	2,383.0	2,400.2	2,388.2	6.4	6.7	-160.41	-65.7	-6.1	170.6	158.5	12.08	14.127			
2,500.0	2,481.2	2,499.0	2,486.4	6.8	7.0	-159.02	-76.7	-7.9	185.5	172.8	12.68	14.635			
2,600.0	2,579.4	2,597.8	2,584.5	7.2	7.4	-157.84	-87.6	-9.7	200.6	187.3	13.28	15.100			
2,700.0	2,677.6	2,696.6	2,682.7	7.6	7.7	-156.82	-98.6	-11.5	215.7	201.8	13.89	15.525			
2,800.0	2,775.8	2,795.3	2,780.8	8.0	8.0	-155.94	-109.6	-13.3	230.8	216.3	14.50	15.916			
2,900.0	2,874.0	2,894.1	2,879.0	8.4	8.3	-155.16	-120.6	-15.1	246.0	230.9	15.12	16.275			
3,000.0	2,972.2	2,992.9	2,977.2	8.9	8.6	-154.48	-131.5	-16.9	261.3	245.6	15.73	16.606			
3,100.0	3,070.3	3,091.7	3,075.3	9.3	8.9	-153.87	-142.5	-18.7	276.6	260.2	16.35	16.911			
3,200.0	3,168.5	3,190.5	3,173.5	9.7	9.2	-153.32	-153.5	-20.5	291.9	274.9	16.98	17.194			
3,300.0	3,266.7	3,289.3	3,271.6	10.1	9.5	-152.83	-164.5	-22.3	307.2	289.6	17.60	17.456			
3,400.0	3,364.9	3,388.0	3,369.8	10.5	9.8	-152.39	-175.4	-24.1	322.6	304.3	18.22	17.700			
3,500.0	3,463.1	3,486.8	3,467.9	11.0	10.1	-151.98	-186.4	-25.9	337.9	319.1	18.85	17.927			
3,600.0	3,561.3	3,585.6	3,566.1	11.4	10.5	-151.62	-197.4	-27.7	353.3	333.8	19.48	18.140			
3,700.0	3,659.5	3,684.4	3,664.3	11.8	10.8	-151.28	-208.4	-29.5	368.7	348.6	20.11	18.338			
3,800.0	3,757.6	3,783.2	3,762.4	12.2	11.1	-150.97	-219.3	-31.3	384.1	363.4	20.74	18.524			
3,900.0	3,855.8	3,882.0	3,860.6	12.7	11.4	-150.68	-230.3	-33.1	399.5	378.2	21.37	18.699			
4,000.0	3,954.0	3,980.8	3,958.7	13.1	11.7	-150.41	-241.3	-34.9	415.0	393.0	22.00	18.863			
4,100.0	4,052.2	4,079.5	4,056.9	13.5	12.0	-150.17	-252.3	-36.7	430.4	407.8	22.63	19.018			
4,200.0	4,150.4	4,178.3	4,155.0	13.9	12.3	-149.94	-263.2	-38.5	445.9	422.6	23.27	19.164			
4,300.0	4,248.6	4,277.1	4,253.2	14.4	12.6	-149.72	-274.2	-40.3	461.3	437.4	23.90	19.302			
4,400.0	4,346.8	4,375.9	4,351.4	14.8	12.9	-149.52	-285.2	-42.1	476.8	452.2	24.53	19.433			
4,500.0	4,445.0	4,474.7	4,449.5	15.2	13.2	-149.34	-296.2	-43.9	492.2	467.1	25.17	19.556			
4,600.0	4,543.1	4,573.5	4,547.7	15.6	13.6	-149.16	-307.1	-45.7	507.7	481.9	25.81	19.674			
4,700.0	4,641.3	4,672.3	4,645.8	16.1	13.9	-148.99	-318.1	-47.5	523.2	496.7	26.44	19.786			
4,800.0	4,739.5	4,770.1	4,743.1	16.5	14.1	-148.92	-328.2	-49.2	538.7	511.7	27.02	19.934			
4,900.0	4,837.7	4,867.4	4,840.2	16.9	14.3	-149.18	-335.2	-50.3	554.5	527.0	27.50	20.161			
5,000.0	4,935.9	4,964.3	4,937.0	17.4	14.5	-149.76	-339.0	-50.9	570.6	542.6	27.91	20.445			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-7 - Wellbore #1Castor 12-1-7 - Plan 2 REV 1 (5-4-2)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
5,100.0	5,034.1	5,061.4	5,034.1	17.8	14.6	-150.61	-339.6	-51.1	587.0	558.7	28.27	20.763				
5,200.0	5,132.3	5,159.6	5,132.3	18.2	14.8	-151.48	-339.6	-51.1	603.7	575.0	28.62	21.091				
5,300.0	5,230.4	5,257.8	5,230.4	18.7	14.9	-152.32	-339.6	-51.1	620.4	591.5	28.97	21.420				
5,400.0	5,328.7	5,356.0	5,328.7	19.1	15.0	-176.32	-339.6	-51.1	637.4	608.1	29.31	21.748				
5,500.0	5,426.9	5,453.9	5,426.0	19.3	15.1	134.69	-331.0	-50.9	654.3	624.8	29.50	22.179				
5,600.0	5,522.2	5,551.6	5,520.4	19.5	15.0	113.75	-306.0	-50.3	670.7	641.2	29.46	22.764				
5,700.0	5,611.9	5,649.5	5,609.3	19.6	14.9	104.10	-265.3	-49.4	686.1	656.9	29.25	23.455				
5,800.0	5,693.2	5,747.6	5,690.2	19.6	14.7	98.58	-209.9	-48.1	700.1	671.1	28.97	24.170				
5,900.0	5,763.6	5,846.1	5,760.6	19.6	14.5	95.03	-141.3	-46.5	712.2	683.5	28.73	24.792				
6,000.0	5,821.0	5,945.1	5,818.5	19.6	14.3	92.67	-61.3	-44.7	722.1	693.4	28.68	25.181				
6,100.0	5,863.6	6,044.4	5,861.9	19.5	14.3	91.13	27.9	-42.6	729.5	700.5	28.94	25.205				
6,200.0	5,890.2	6,144.0	5,889.4	19.6	14.5	90.27	123.5	-40.4	734.0	704.4	29.60	24.795				
6,300.0	5,900.0	6,243.9	5,899.9	19.7	15.0	90.00	222.7	-38.2	735.7	705.0	30.69	23.970				
6,400.0	5,900.0	6,344.0	5,900.0	20.1	15.6	90.00	322.8	-35.9	735.7	703.6	32.11	22.915				
6,500.0	5,900.0	6,444.0	5,900.0	20.7	16.4	90.00	422.8	-33.6	735.7	701.8	33.92	21.691				
6,600.0	5,900.0	6,544.0	5,900.0	21.5	17.4	90.00	522.7	-31.3	735.7	699.7	36.05	20.409				
6,700.0	5,900.0	6,644.0	5,900.0	22.6	18.6	90.00	622.7	-29.1	735.7	697.3	38.45	19.136				
6,800.0	5,900.0	6,744.0	5,900.0	23.7	19.9	90.00	722.7	-26.8	735.7	694.7	41.06	17.916				
6,900.0	5,900.0	6,844.0	5,900.0	25.0	21.2	90.00	822.7	-24.5	735.7	691.9	43.86	16.773				
7,000.0	5,900.0	6,944.0	5,900.0	26.4	22.7	90.00	922.6	-22.2	735.7	688.9	46.81	15.718				
7,100.0	5,900.0	7,044.0	5,900.0	27.8	24.2	90.00	1,022.6	-19.9	735.7	685.8	49.88	14.751				
7,200.0	5,900.0	7,144.0	5,900.0	29.3	25.8	90.00	1,122.6	-17.7	735.7	682.7	53.04	13.870				
7,300.0	5,900.0	7,244.0	5,900.0	30.8	27.4	90.00	1,222.6	-15.4	735.7	679.4	56.29	13.069				
7,400.0	5,900.0	7,344.0	5,900.0	32.4	29.1	90.00	1,322.5	-13.1	735.7	676.1	59.62	12.341				
7,500.0	5,900.0	7,444.0	5,900.0	34.0	30.7	90.00	1,422.5	-10.8	735.7	672.7	63.00	11.679				
7,600.0	5,900.0	7,544.0	5,900.0	35.7	32.5	90.00	1,522.5	-8.5	735.7	669.3	66.43	11.076				
7,700.0	5,900.0	7,644.0	5,900.0	37.4	34.2	90.00	1,622.5	-6.3	735.7	665.8	69.90	10.525				
7,800.0	5,900.0	7,744.0	5,900.0	39.1	35.9	90.00	1,722.4	-4.0	735.7	662.3	73.41	10.022				
7,900.0	5,900.0	7,844.0	5,900.0	40.8	37.7	90.00	1,822.4	-1.7	735.7	658.8	76.95	9.561				
8,000.0	5,900.0	7,944.0	5,900.0	42.5	39.5	90.00	1,922.4	0.6	735.7	655.2	80.52	9.138				
8,100.0	5,900.0	8,044.0	5,900.0	44.3	41.3	90.00	2,022.3	2.9	735.7	651.6	84.11	8.747				
8,200.0	5,900.0	8,144.0	5,900.0	46.0	43.1	90.00	2,122.3	5.1	735.7	648.0	87.72	8.387				
8,300.0	5,900.0	8,244.0	5,900.0	47.8	44.9	90.00	2,222.3	7.4	735.7	644.4	91.35	8.054				
8,400.0	5,900.0	8,344.0	5,900.0	49.6	46.7	90.00	2,322.3	9.7	735.7	640.7	95.00	7.745				
8,500.0	5,900.0	8,444.0	5,900.0	51.4	48.5	90.00	2,422.2	12.0	735.7	637.0	98.66	7.457				
8,600.0	5,900.0	8,544.0	5,900.0	53.2	50.4	90.00	2,522.2	14.3	735.7	633.4	102.33	7.189				
8,700.0	5,900.0	8,644.0	5,900.0	55.0	52.2	90.00	2,622.2	16.5	735.7	629.7	106.02	6.939				
8,800.0	5,900.0	8,744.0	5,900.0	56.8	54.1	90.00	2,722.2	18.8	735.7	626.0	109.71	6.706				
8,900.0	5,900.0	8,844.0	5,900.0	58.6	55.9	90.00	2,822.1	21.1	735.7	622.3	113.42	6.487				
9,000.0	5,900.0	8,944.0	5,900.0	60.4	57.8	90.00	2,922.1	23.4	735.7	618.6	117.13	6.281				
9,100.0	5,900.0	9,044.0	5,900.0	62.3	59.6	90.00	3,022.1	25.7	735.7	614.8	120.85	6.087				
9,200.0	5,900.0	9,144.0	5,900.0	64.1	61.5	90.00	3,122.1	27.9	735.7	611.1	124.58	5.905				
9,300.0	5,900.0	9,244.0	5,900.0	65.9	63.4	90.00	3,222.0	30.2	735.7	607.4	128.32	5.733				
9,400.0	5,900.0	9,344.0	5,900.0	67.8	65.2	90.00	3,322.0	32.5	735.7	603.6	132.06	5.571				
9,500.0	5,900.0	9,444.0	5,900.0	69.6	67.1	90.00	3,422.0	34.8	735.7	599.9	135.80	5.417				
9,600.0	5,900.0	9,544.0	5,900.0	71.5	69.0	90.00	3,522.0	37.1	735.7	596.1	139.55	5.272				
9,700.0	5,900.0	9,644.0	5,900.0	73.3	70.9	90.00	3,621.9	39.3	735.7	592.4	143.31	5.133				
9,800.0	5,900.0	9,744.0	5,900.0	75.2	72.8	90.00	3,721.9	41.6	735.7	588.6	147.07	5.002				
9,900.0	5,900.0	9,844.0	5,900.0	77.1	74.6	90.00	3,821.9	43.9	735.7	584.8	150.83	4.877				
10,000.0	5,900.0	9,944.0	5,900.0	78.9	76.5	90.00	3,921.9	46.2	735.7	581.1	154.60	4.759				
10,100.0	5,900.0	10,044.0	5,900.0	80.8	78.4	90.00	4,021.8	48.5	735.7	577.3	158.37	4.645				
10,200.0	5,900.0	10,144.0	5,900.0	82.7	80.3	90.00	4,121.8	50.7	735.7	573.5	162.15	4.537				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-7 - Wellbore #1Castor 12-1-7 - Plan 2 REV 1 (5-4-2)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
10,300.0	5,900.0	10,244.0	5,900.0	84.5	82.2	90.00	4,221.8	53.0	735.7	569.8	165.92	4.434				
10,400.0	5,900.0	10,344.0	5,900.0	86.4	84.1	90.00	4,321.8	55.3	735.7	566.0	169.70	4.335				
10,500.0	5,900.0	10,444.0	5,900.0	88.3	86.0	90.00	4,421.7	57.6	735.7	562.2	173.48	4.241				
10,600.0	5,900.0	10,544.0	5,900.0	90.2	87.9	90.00	4,521.7	59.8	735.7	558.4	177.27	4.150				
10,700.0	5,900.0	10,644.0	5,900.0	92.0	89.7	90.00	4,621.7	62.1	735.7	554.6	181.06	4.063				
10,800.0	5,900.0	10,744.0	5,900.0	93.9	91.6	90.00	4,721.6	64.4	735.7	550.8	184.84	3.980				
10,900.0	5,900.0	10,844.0	5,900.0	95.8	93.5	90.00	4,821.6	66.7	735.7	547.0	188.63	3.900				
11,000.0	5,900.0	10,944.0	5,900.0	97.7	95.4	90.00	4,921.6	69.0	735.7	543.2	192.43	3.823				
11,100.0	5,900.0	11,044.0	5,900.0	99.6	97.3	90.00	5,021.6	71.2	735.7	539.4	196.22	3.749				
11,200.0	5,900.0	11,144.0	5,900.0	101.5	99.2	90.00	5,121.5	73.5	735.7	535.6	200.02	3.678				
11,300.0	5,900.0	11,244.0	5,900.0	103.3	101.1	90.00	5,221.5	75.8	735.7	531.8	203.81	3.609				
11,400.0	5,900.0	11,344.0	5,900.0	105.2	103.0	90.00	5,321.5	78.1	735.7	528.0	207.61	3.543				
11,500.0	5,900.0	11,444.0	5,900.0	107.1	104.9	90.00	5,421.5	80.4	735.7	524.2	211.41	3.480				
11,600.0	5,900.0	11,544.0	5,900.0	109.0	106.8	90.00	5,521.4	82.6	735.7	520.4	215.22	3.418				
11,700.0	5,900.0	11,644.0	5,900.0	110.9	108.7	90.00	5,621.4	84.9	735.7	516.6	219.02	3.359				
11,800.0	5,900.0	11,744.0	5,900.0	112.8	110.6	90.00	5,721.4	87.2	735.7	512.8	222.82	3.302				
11,900.0	5,900.0	11,844.0	5,900.0	114.7	112.5	90.00	5,821.4	89.5	735.7	509.0	226.63	3.246				
12,000.0	5,900.0	11,944.0	5,900.0	116.6	114.4	90.00	5,921.3	91.8	735.7	505.2	230.43	3.192				
12,100.0	5,900.0	12,044.0	5,900.0	118.5	116.3	90.00	6,021.3	94.0	735.7	501.4	234.24	3.141				
12,200.0	5,900.0	12,144.0	5,900.0	120.4	118.2	90.00	6,121.3	96.3	735.7	497.6	238.05	3.090				
12,300.0	5,900.0	12,244.0	5,900.0	122.3	120.1	90.00	6,221.3	98.6	735.6	493.8	241.86	3.042				
12,400.0	5,900.0	12,344.0	5,900.0	124.2	122.1	90.00	6,321.2	100.9	735.6	490.0	245.67	2.994				
12,500.0	5,900.0	12,444.0	5,900.0	126.1	124.0	90.00	6,421.2	103.2	735.6	486.2	249.48	2.949				
12,600.0	5,900.0	12,544.0	5,900.0	128.0	125.9	90.00	6,521.2	105.4	735.6	482.4	253.29	2.904				
12,700.0	5,900.0	12,644.0	5,900.0	129.9	127.8	90.00	6,621.2	107.7	735.6	478.5	257.10	2.861				
12,800.0	5,900.0	12,744.0	5,900.0	131.8	129.7	90.00	6,721.1	110.0	735.6	474.7	260.92	2.819				
12,900.0	5,900.0	12,844.0	5,900.0	133.7	131.6	90.00	6,821.1	112.3	735.6	470.9	264.73	2.779				
13,000.0	5,900.0	12,944.0	5,900.0	135.6	133.5	90.00	6,921.1	114.6	735.6	467.1	268.54	2.739				
13,100.0	5,900.0	13,044.0	5,900.0	137.5	135.4	90.00	7,021.1	116.8	735.6	463.3	272.36	2.701				
13,200.0	5,900.0	13,144.0	5,900.0	139.4	137.3	90.00	7,121.0	119.1	735.6	459.5	276.17	2.664				
13,300.0	5,900.0	13,244.0	5,900.0	141.3	139.2	90.00	7,221.0	121.4	735.6	455.6	279.99	2.627				
13,400.0	5,900.0	13,344.0	5,900.0	143.2	141.1	90.00	7,321.0	123.7	735.6	451.8	283.81	2.592				
13,500.0	5,900.0	13,444.0	5,900.0	145.1	143.0	90.00	7,420.9	126.0	735.6	448.0	287.62	2.558				
13,600.0	5,900.0	13,544.0	5,900.0	147.0	144.9	90.00	7,520.9	128.2	735.6	444.2	291.44	2.524				
13,700.0	5,900.0	13,644.0	5,900.0	148.9	146.9	90.00	7,620.9	130.5	735.6	440.4	295.26	2.491				
13,800.0	5,900.0	13,744.0	5,900.0	150.8	148.8	90.00	7,720.9	132.8	735.6	436.5	299.08	2.460				
13,900.0	5,900.0	13,844.0	5,900.0	152.7	150.7	90.00	7,820.8	135.1	735.6	432.7	302.90	2.429				
14,000.0	5,900.0	13,944.0	5,900.0	154.6	152.6	90.00	7,920.8	137.4	735.6	428.9	306.72	2.398				
14,100.0	5,900.0	14,044.0	5,900.0	156.5	154.5	90.00	8,020.8	139.6	735.6	425.1	310.54	2.369				
14,200.0	5,900.0	14,144.0	5,900.0	158.4	156.4	90.00	8,120.8	141.9	735.6	421.3	314.36	2.340				
14,300.0	5,900.0	14,244.0	5,900.0	160.3	158.3	90.00	8,220.7	144.2	735.6	417.4	318.18	2.312				
14,400.0	5,900.0	14,344.0	5,900.0	162.2	160.2	90.00	8,320.7	146.5	735.6	413.6	322.00	2.285				
14,500.0	5,900.0	14,444.0	5,900.0	164.1	162.1	90.00	8,420.7	148.7	735.6	409.8	325.82	2.258				
14,600.0	5,900.0	14,544.0	5,900.0	166.0	164.0	90.00	8,520.7	151.0	735.6	406.0	329.65	2.232				
14,700.0	5,900.0	14,644.0	5,900.0	167.9	166.0	90.00	8,620.6	153.3	735.6	402.1	333.47	2.206				
14,800.0	5,900.0	14,744.0	5,900.0	169.8	167.9	90.00	8,720.6	155.6	735.6	398.3	337.29	2.181				
14,900.0	5,900.0	14,844.0	5,900.0	171.7	169.8	90.00	8,820.6	157.9	735.6	394.5	341.11	2.157				
15,000.0	5,900.0	14,944.0	5,900.0	173.6	171.7	90.00	8,920.6	160.1	735.6	390.7	344.94	2.133				
15,100.0	5,900.0	15,044.0	5,900.0	175.6	173.6	90.00	9,020.5	162.4	735.6	386.9	348.76	2.109				
15,200.0	5,900.0	15,144.0	5,900.0	177.5	175.5	90.00	9,120.5	164.7	735.6	383.0	352.58	2.086				
15,300.0	5,900.0	15,244.0	5,900.0	179.4	177.4	90.00	9,220.5	167.0	735.6	379.2	356.41	2.064				
15,400.0	5,900.0	15,344.0	5,900.0	181.3	179.3	90.00	9,320.5	169.3	735.6	375.4	360.23	2.042				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-7 - Wellbore #1Castor 12-1-7 - Plan 2 REV 1 (5-4-2	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
15,500.0	5,900.0	15,444.0	5,900.0	183.2	181.3	90.00	9,420.4	171.5	735.6	371.5	364.06	2.021			
15,600.0	5,900.0	15,544.0	5,900.0	185.1	183.2	90.00	9,520.4	173.8	735.6	367.7	367.88	2.000	Collision Risk Procedures Req.		
15,700.0	5,900.0	15,644.0	5,900.0	187.0	185.1	90.00	9,620.4	176.1	735.6	363.9	371.71	1.979	Collision Risk Procedures Req.		
15,800.0	5,900.0	15,744.0	5,900.0	188.9	187.0	90.00	9,720.3	178.4	735.6	360.1	375.53	1.959	Collision Risk Procedures Req.		
15,900.0	5,900.0	15,844.0	5,900.0	190.8	188.9	90.00	9,820.3	180.7	735.6	356.2	379.36	1.939	Collision Risk Procedures Req.		
15,999.3	5,900.0	15,943.3	5,900.0	192.7	190.8	90.00	9,919.6	182.9	735.6	352.4	383.16	1.920	Collision Risk Procedures Req., SF		

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-1 - Wellbore #1 Castor 12-1-1 - Plan 3 (9-13-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-10.07	150.1	-26.7	152.5						
100.0	100.0	100.0	100.0	0.2	0.2	-10.07	150.1	-26.7	152.5	152.0	0.45	339.143			
200.0	200.0	200.0	200.0	0.4	0.4	-10.07	150.1	-26.7	152.5	151.6	0.90	169.571			
300.0	300.0	300.0	300.0	0.7	0.7	-10.07	150.1	-26.7	152.5	151.1	1.35	113.048			
400.0	400.0	400.2	400.2	0.9	0.9	-10.73	149.7	-28.4	152.4	150.6	1.78	85.409			
500.0	500.0	500.2	500.0	1.1	1.1	-12.70	148.6	-33.5	152.3	150.1	2.22	68.577			
501.3	501.3	501.5	501.3	1.1	1.1	-12.73	148.5	-33.6	152.3	150.1	2.23	68.394	CC		
600.0	600.0	599.6	599.1	1.3	1.3	-15.96	146.7	-41.9	152.5	149.9	2.68	56.854	ES		
700.0	700.0	698.4	697.1	1.6	1.6	-20.43	144.0	-53.6	153.7	150.5	3.18	48.362			
800.0	800.0	796.2	793.7	1.8	1.9	-25.96	140.7	-68.5	156.6	152.9	3.71	42.204			
900.0	900.0	892.9	888.7	2.0	2.3	-32.28	136.6	-86.3	162.0	157.7	4.27	37.917			
1,000.0	1,000.0	988.2	981.6	2.2	2.7	-39.01	132.0	-106.9	170.8	166.0	4.85	35.215			
1,100.0	1,100.0	1,082.0	1,072.3	2.5	3.1	-45.76	126.7	-130.1	183.7	178.3	5.43	33.863			
1,200.0	1,200.0	1,174.5	1,161.0	2.7	3.7	63.55	120.9	-155.9	200.3	194.3	5.97	33.574	SF		
1,300.0	1,299.8	1,266.3	1,248.1	2.9	4.2	58.33	114.5	-184.1	219.4	212.9	6.48	33.831			
1,400.0	1,399.5	1,357.3	1,333.5	3.1	4.9	54.07	107.6	-214.8	240.2	233.2	7.01	34.258			
1,500.0	1,498.7	1,447.6	1,417.2	3.3	5.5	50.61	100.1	-247.9	262.4	254.8	7.55	34.768			
1,600.0	1,597.5	1,540.9	1,502.7	3.6	6.3	47.76	91.9	-284.4	285.2	277.0	8.15	35.008			
1,700.0	1,695.7	1,638.1	1,591.6	3.9	7.1	45.75	83.2	-322.7	306.7	297.9	8.82	34.788			
1,800.0	1,793.9	1,735.4	1,680.6	4.2	7.9	44.19	74.6	-361.0	328.2	318.7	9.50	34.544			
1,900.0	1,892.1	1,832.7	1,769.6	4.5	8.8	42.82	65.9	-399.3	350.0	339.8	10.19	34.347			
2,000.0	1,990.3	1,930.0	1,858.6	4.9	9.6	41.61	57.2	-437.6	371.9	361.0	10.88	34.188			
2,100.0	2,088.5	2,027.3	1,947.6	5.3	10.4	40.54	48.6	-476.0	393.9	382.4	11.57	34.061			
2,200.0	2,186.7	2,124.6	2,036.6	5.6	11.3	39.57	39.9	-514.3	416.1	403.9	12.25	33.960			
2,300.0	2,284.8	2,221.9	2,125.6	6.0	12.1	38.71	31.2	-552.6	438.4	425.5	12.94	33.880			
2,400.0	2,383.0	2,319.1	2,214.6	6.4	13.0	37.93	22.6	-591.0	460.7	447.1	13.63	33.816			
2,500.0	2,481.2	2,416.4	2,303.6	6.8	13.8	37.22	13.9	-629.3	483.2	468.9	14.31	33.765			
2,600.0	2,579.4	2,513.7	2,392.6	7.2	14.6	36.57	5.3	-667.6	505.7	490.7	14.99	33.726			
2,700.0	2,677.6	2,611.0	2,481.6	7.6	15.5	35.98	-3.4	-705.9	528.2	512.6	15.68	33.695			
2,800.0	2,775.8	2,708.3	2,570.5	8.0	16.3	35.44	-12.1	-744.3	550.8	534.5	16.36	33.671			
2,900.0	2,874.0	2,805.6	2,659.5	8.4	17.2	34.94	-20.7	-782.6	573.5	556.4	17.04	33.653			
3,000.0	2,972.2	2,902.8	2,748.5	8.9	18.0	34.47	-29.4	-820.9	596.2	578.4	17.72	33.640			
3,100.0	3,070.3	3,000.1	2,837.5	9.3	18.9	34.05	-38.1	-859.2	618.9	600.5	18.40	33.631			
3,200.0	3,168.5	3,097.4	2,926.5	9.7	19.7	33.65	-46.7	-897.6	641.6	622.5	19.08	33.624			
3,300.0	3,266.7	3,194.7	3,015.5	10.1	20.6	33.28	-55.4	-935.9	664.4	644.6	19.76	33.620			
3,400.0	3,364.9	3,292.0	3,104.5	10.5	21.4	32.93	-64.0	-974.2	687.2	666.8	20.44	33.618			
3,500.0	3,463.1	3,389.3	3,193.5	11.0	22.3	32.61	-72.7	-1,012.6	710.0	688.9	21.12	33.618			
3,600.0	3,561.3	3,486.5	3,282.5	11.4	23.2	32.30	-81.4	-1,050.9	732.9	711.1	21.80	33.619			
3,700.0	3,659.5	3,583.8	3,371.5	11.8	24.0	32.02	-90.0	-1,089.2	755.7	733.3	22.48	33.622			
3,800.0	3,757.6	3,681.1	3,460.5	12.2	24.9	31.75	-98.7	-1,127.5	778.6	755.5	23.16	33.625			
3,900.0	3,855.8	3,778.4	3,549.5	12.7	25.7	31.49	-107.4	-1,165.9	801.5	777.7	23.83	33.628			
4,000.0	3,954.0	3,875.7	3,638.5	13.1	26.6	31.25	-116.0	-1,204.2	824.4	799.9	24.51	33.633			
4,100.0	4,052.2	3,973.0	3,727.5	13.5	27.4	31.03	-124.7	-1,242.5	847.3	822.1	25.19	33.638			
4,200.0	4,150.4	4,070.3	3,816.5	13.9	28.3	30.81	-133.3	-1,280.9	870.3	844.4	25.87	33.643			
4,300.0	4,248.6	4,167.5	3,905.5	14.4	29.1	30.61	-142.0	-1,319.2	893.2	866.7	26.55	33.648			
4,400.0	4,346.8	4,264.8	3,994.5	14.8	30.0	30.42	-150.7	-1,357.5	916.2	888.9	27.22	33.654			
4,500.0	4,445.0	4,362.1	4,083.5	15.2	30.8	30.23	-159.3	-1,395.8	939.1	911.2	27.90	33.660			
4,600.0	4,543.1	4,459.4	4,172.5	15.6	31.7	30.06	-168.0	-1,434.2	962.1	933.5	28.58	33.666			
4,700.0	4,641.3	4,556.7	4,261.5	16.1	32.5	29.89	-176.6	-1,472.5	985.1	955.8	29.26	33.671			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-10 - Wellbore #1 Castor 12-1-10 - Plan 1 (8-9-21)	Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.38	-0.4	55.8	55.8						
100.0	100.0	100.0	100.0	0.2	0.2	90.38	-0.4	55.8	55.8	55.4	0.45	124.198			
200.0	200.0	200.0	200.0	0.4	0.4	90.38	-0.4	55.8	55.8	54.9	0.90	62.099			
300.0	300.0	300.0	300.0	0.7	0.7	90.38	-0.4	55.8	55.8	54.5	1.35	41.399			
400.0	400.0	400.0	400.0	0.9	0.9	90.38	-0.4	55.8	55.8	54.0	1.80	31.049			
500.0	500.0	500.0	500.0	1.1	1.1	90.38	-0.4	55.8	55.8	53.6	2.25	24.840			
600.0	600.0	600.0	600.0	1.3	1.3	90.38	-0.4	55.8	55.8	53.1	2.70	20.700			
700.0	700.0	700.0	700.0	1.6	1.6	90.38	-0.4	55.8	55.8	52.7	3.15	17.743 CC, ES			
800.0	800.0	798.2	798.2	1.8	1.8	90.98	-1.0	57.4	57.4	53.9	3.57	16.070			
900.0	900.0	896.1	896.0	2.0	2.0	92.57	-2.8	62.1	62.3	58.3	3.99	15.617 SF			
1,000.0	1,000.0	993.6	993.1	2.2	2.2	94.74	-5.8	69.9	70.4	66.0	4.41	15.988			
1,100.0	1,100.0	1,090.4	1,089.2	2.5	2.4	97.03	-9.9	80.6	81.9	77.1	4.82	16.984			
1,200.0	1,200.0	1,186.1	1,183.8	2.7	2.7	-145.59	-15.2	94.2	98.2	93.0	5.23	18.790			
1,300.0	1,299.8	1,280.1	1,276.1	2.9	3.0	-144.86	-21.5	110.4	120.5	114.9	5.62	21.441			
1,400.0	1,399.5	1,374.7	1,368.6	3.1	3.3	-144.80	-28.7	129.0	148.1	142.1	6.04	24.519			
1,500.0	1,498.7	1,469.8	1,461.6	3.3	3.7	-145.27	-36.0	148.0	178.7	172.2	6.49	27.543			
1,600.0	1,597.5	1,564.0	1,553.6	3.6	4.1	-146.03	-43.2	166.7	212.0	205.0	6.95	30.496			
1,700.0	1,695.7	1,657.3	1,644.7	3.9	4.5	-147.08	-50.4	185.3	247.7	240.3	7.43	33.349			
1,800.0	1,793.9	1,750.5	1,735.7	4.2	4.9	-148.05	-57.5	203.8	283.8	275.9	7.91	35.867			
1,900.0	1,892.1	1,843.6	1,826.8	4.5	5.3	-148.80	-64.7	222.4	320.0	311.6	8.41	38.055			
2,000.0	1,990.3	1,936.8	1,917.8	4.9	5.7	-149.40	-71.9	240.9	356.2	347.3	8.91	39.961			
2,100.0	2,088.5	2,029.9	2,008.8	5.3	6.1	-149.89	-79.0	259.4	392.5	383.0	9.43	41.628			
2,200.0	2,186.7	2,123.1	2,099.8	5.6	6.6	-150.30	-86.2	278.0	428.7	418.8	9.95	43.095			
2,300.0	2,284.8	2,216.3	2,190.8	6.0	7.0	-150.64	-93.4	296.5	465.0	454.5	10.47	44.391			
2,400.0	2,383.0	2,309.4	2,281.8	6.4	7.4	-150.94	-100.5	315.0	501.3	490.3	11.01	45.543			
2,500.0	2,481.2	2,402.6	2,372.8	6.8	7.8	-151.19	-107.7	333.6	537.6	526.0	11.54	46.572			
2,600.0	2,579.4	2,495.7	2,463.8	7.2	8.3	-151.41	-114.8	352.1	573.9	561.8	12.08	47.495			
2,700.0	2,677.6	2,588.9	2,554.8	7.6	8.7	-151.61	-122.0	370.7	610.2	597.6	12.63	48.326			
2,800.0	2,775.8	2,682.0	2,645.9	8.0	9.1	-151.78	-129.2	389.2	646.5	633.3	13.17	49.078			
2,900.0	2,874.0	2,775.2	2,736.9	8.4	9.6	-151.94	-136.3	407.7	682.8	669.1	13.72	49.761			
3,000.0	2,972.2	2,868.4	2,827.9	8.9	10.0	-152.08	-143.5	426.3	719.1	704.9	14.27	50.383			
3,100.0	3,070.3	2,961.5	2,918.9	9.3	10.4	-152.20	-150.6	444.8	755.5	740.6	14.83	50.952			
3,200.0	3,168.5	3,054.7	3,009.9	9.7	10.9	-152.32	-157.8	463.3	791.8	776.4	15.38	51.474			
3,300.0	3,266.7	3,147.8	3,100.9	10.1	11.3	-152.42	-165.0	481.9	828.1	812.2	15.94	51.954			
3,400.0	3,364.9	3,241.0	3,191.9	10.5	11.7	-152.52	-172.1	500.4	864.5	848.0	16.50	52.397			
3,500.0	3,463.1	3,334.1	3,282.9	11.0	12.2	-152.60	-179.3	519.0	900.8	883.7	17.06	52.807			
3,600.0	3,561.3	3,427.3	3,374.0	11.4	12.6	-152.69	-186.4	537.5	937.1	919.5	17.62	53.187			
3,700.0	3,659.5	3,520.4	3,465.0	11.8	13.1	-152.76	-193.6	556.0	973.5	955.3	18.18	53.541			

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-11 - Wellbore #1 Castor 12-1-11 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.50	-0.7	83.9	83.9						
100.0	100.0	100.0	100.0	0.2	0.2	90.50	-0.7	83.9	83.9	83.4	0.45	186.609			
200.0	200.0	200.0	200.0	0.4	0.4	90.50	-0.7	83.9	83.9	83.0	0.90	93.304			
300.0	300.0	300.0	300.0	0.7	0.7	90.50	-0.7	83.9	83.9	82.5	1.35	62.203			
400.0	400.0	400.0	400.0	0.9	0.9	90.50	-0.7	83.9	83.9	82.1	1.80	46.652			
500.0	500.0	500.0	500.0	1.1	1.1	90.50	-0.7	83.9	83.9	81.6	2.25	37.322 CC, ES			
600.0	600.0	597.2	597.2	1.3	1.3	90.79	-1.2	85.5	85.5	82.8	2.68	31.960			
700.0	700.0	694.2	694.1	1.6	1.5	91.62	-2.5	90.2	90.4	87.3	3.10	29.217			
800.0	800.0	790.8	790.3	1.8	1.7	92.81	-4.8	98.1	98.6	95.1	3.52	28.029			
900.0	900.0	886.7	885.5	2.0	2.0	94.17	-7.9	108.9	110.2	106.2	3.95	27.915 SF			
1,000.0	1,000.0	981.7	979.4	2.2	2.3	95.54	-11.9	122.7	125.0	120.6	4.37	28.571			
1,100.0	1,100.0	1,075.7	1,071.8	2.5	2.6	96.83	-16.7	139.3	143.1	138.3	4.80	29.793			
1,200.0	1,200.0	1,168.1	1,162.1	2.7	2.9	-146.46	-22.2	158.4	165.8	160.6	5.22	31.789			
1,300.0	1,299.8	1,258.3	1,249.5	2.9	3.4	-145.95	-28.3	179.8	194.4	188.8	5.62	34.594			
1,400.0	1,399.5	1,351.4	1,339.2	3.1	3.8	-145.86	-35.2	203.6	227.7	221.7	6.06	37.564			
1,500.0	1,498.7	1,444.6	1,429.0	3.3	4.3	-146.10	-42.1	227.6	263.9	257.3	6.53	40.396			
1,600.0	1,597.5	1,536.6	1,517.7	3.6	4.8	-146.54	-48.9	251.2	302.7	295.7	7.00	43.252			
1,700.0	1,695.7	1,627.6	1,605.4	3.9	5.3	-147.31	-55.7	274.6	343.9	336.4	7.50	45.885			
1,800.0	1,793.9	1,718.4	1,692.9	4.2	5.8	-148.12	-62.4	297.9	385.5	377.5	7.99	48.257			
1,900.0	1,892.1	1,809.3	1,780.4	4.5	6.3	-148.78	-69.1	321.3	427.1	418.6	8.49	50.292			
2,000.0	1,990.3	1,900.1	1,867.9	4.9	6.8	-149.32	-75.8	344.6	468.8	459.8	9.01	52.047			
2,100.0	2,088.5	1,990.9	1,955.4	5.3	7.3	-149.77	-82.6	368.0	510.5	501.0	9.53	53.570			
2,200.0	2,186.7	2,081.7	2,043.0	5.6	7.8	-150.15	-89.3	391.3	552.2	542.1	10.06	54.900			
2,300.0	2,284.8	2,172.6	2,130.5	6.0	8.3	-150.48	-96.0	414.6	593.9	583.3	10.59	56.069			
2,400.0	2,383.0	2,263.4	2,218.0	6.4	8.8	-150.77	-102.7	438.0	635.7	624.5	11.13	57.101			
2,500.0	2,481.2	2,354.2	2,305.5	6.8	9.3	-151.02	-109.4	461.3	677.4	665.8	11.68	58.018			
2,600.0	2,579.4	2,445.1	2,393.0	7.2	9.9	-151.24	-116.2	484.6	719.2	707.0	12.22	58.836			
2,700.0	2,677.6	2,535.9	2,480.6	7.6	10.4	-151.44	-122.9	508.0	761.0	748.2	12.77	59.569			
2,800.0	2,775.8	2,626.7	2,568.1	8.0	10.9	-151.62	-129.6	531.3	802.7	789.4	13.33	60.229			
2,900.0	2,874.0	2,717.5	2,655.6	8.4	11.4	-151.78	-136.3	554.7	844.5	830.7	13.88	60.827			
3,000.0	2,972.2	2,808.4	2,743.1	8.9	11.9	-151.92	-143.0	578.0	886.3	871.9	14.44	61.369			
3,100.0	3,070.3	2,899.2	2,830.6	9.3	12.5	-152.05	-149.8	601.3	928.1	913.1	15.00	61.862			
3,200.0	3,168.5	2,990.0	2,918.2	9.7	13.0	-152.17	-156.5	624.7	969.9	954.4	15.57	62.313			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-12 - Wellbore #1 Castor 12-1-12 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.56	-1.1	111.9	111.9				
100.0	100.0	100.0	100.0	0.2	0.2	0.2	0.2	90.56	-1.1	111.9	111.9	111.5	0.45	249.020	
200.0	200.0	200.0	200.0	0.4	0.4	0.4	0.4	90.56	-1.1	111.9	111.9	111.0	0.90	124.510	
300.0	300.0	300.0	300.0	0.7	0.7	0.7	0.7	90.56	-1.1	111.9	111.9	110.6	1.35	83.007 CC, ES	
400.0	400.0	396.3	396.3	0.9	0.9	0.9	0.9	90.73	-1.5	113.5	113.6	111.8	1.78	63.864	
500.0	500.0	492.4	492.2	1.1	1.1	1.1	1.1	91.23	-2.5	118.2	118.5	116.3	2.21	53.741	
600.0	600.0	588.0	587.5	1.3	1.3	1.3	1.3	91.97	-4.3	126.0	126.7	124.1	2.64	48.036	
700.0	700.0	683.0	681.9	1.6	1.6	1.6	1.6	92.86	-6.8	136.8	138.2	135.1	3.07	44.950	
800.0	800.0	777.2	775.0	1.8	1.9	1.8	1.9	93.80	-10.0	150.6	153.0	149.5	3.51	43.537	
900.0	900.0	870.3	866.5	2.0	2.2	2.0	2.2	94.72	-13.8	167.1	170.9	167.0	3.95	43.247 SF	
1,000.0	1,000.0	962.2	956.3	2.2	2.6	2.2	2.6	95.59	-18.2	186.2	192.1	187.7	4.39	43.742	
1,100.0	1,100.0	1,052.8	1,044.1	2.5	3.0	2.5	3.0	96.37	-23.2	207.8	216.4	211.6	4.83	44.803	
1,200.0	1,200.0	1,141.4	1,129.4	2.7	3.5	2.7	3.5	-147.20	-28.7	231.5	245.1	239.9	5.25	46.648	
1,300.0	1,299.8	1,228.7	1,212.6	2.9	4.0	2.9	4.0	-146.75	-34.6	257.3	279.5	273.8	5.68	49.233	
1,400.0	1,399.5	1,321.2	1,300.3	3.1	4.6	3.1	4.6	-146.60	-41.1	285.6	317.6	311.4	6.15	51.645	
1,500.0	1,498.7	1,412.4	1,387.0	3.3	5.1	3.3	5.1	-146.68	-47.6	313.5	358.4	351.7	6.62	54.122	
1,600.0	1,597.5	1,502.4	1,472.4	3.6	5.7	3.6	5.7	-146.91	-53.9	341.0	401.8	394.7	7.11	56.483	
1,700.0	1,695.7	1,591.1	1,556.6	3.9	6.3	3.9	6.3	-147.49	-60.2	368.2	447.6	440.0	7.62	58.742	
1,800.0	1,793.9	1,679.7	1,640.7	4.2	6.9	4.2	6.9	-148.19	-66.4	395.2	493.8	485.6	8.12	60.792	
1,900.0	1,892.1	1,768.2	1,724.8	4.5	7.5	4.5	7.5	-148.78	-72.7	422.3	539.9	531.3	8.63	62.529	
2,000.0	1,990.3	1,856.8	1,808.9	4.9	8.0	4.9	8.0	-149.27	-78.9	449.4	586.1	577.0	9.16	64.011	
2,100.0	2,088.5	1,945.4	1,893.0	5.3	8.6	5.3	8.6	-149.69	-85.2	476.5	632.4	622.7	9.69	65.286	
2,200.0	2,186.7	2,034.0	1,977.1	5.6	9.2	5.6	9.2	-150.06	-91.4	503.6	678.7	668.4	10.22	66.390	
2,300.0	2,284.8	2,122.5	2,061.2	6.0	9.8	6.0	9.8	-150.38	-97.6	530.7	724.9	714.2	10.76	67.351	
2,400.0	2,383.0	2,211.1	2,145.3	6.4	10.4	6.4	10.4	-150.66	-103.9	557.8	771.2	759.9	11.31	68.193	
2,500.0	2,481.2	2,299.7	2,229.4	6.8	11.0	6.8	11.0	-150.90	-110.1	584.9	817.6	805.7	11.86	68.935	
2,600.0	2,579.4	2,388.3	2,313.5	7.2	11.6	7.2	11.6	-151.13	-116.4	612.0	863.9	851.5	12.41	69.593	
2,700.0	2,677.6	2,476.8	2,397.6	7.6	12.2	7.6	12.2	-151.33	-122.6	639.1	910.2	897.3	12.97	70.178	
2,800.0	2,775.8	2,565.4	2,481.7	8.0	12.8	8.0	12.8	-151.51	-128.9	666.2	956.6	943.0	13.53	70.701	

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-2 - Wellbore #1 Castor 12-1-2 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	0.43	149.7	1.1	149.7						
100.0	100.0	100.0	100.0	0.2	0.2	0.43	149.7	1.1	149.7	149.3	0.45	333.096			
200.0	200.0	200.0	200.0	0.4	0.4	0.43	149.7	1.1	149.7	148.8	0.90	166.548			
300.0	300.0	300.0	300.0	0.7	0.7	0.43	149.7	1.1	149.7	148.4	1.35	111.032			
400.0	400.0	400.0	400.0	0.9	0.9	0.43	149.7	1.1	149.7	147.9	1.80	83.274			
500.0	500.0	500.0	500.0	1.1	1.1	0.43	149.7	1.1	149.7	147.5	2.25	66.619			
600.0	600.0	601.4	601.4	1.3	1.3	-0.24	149.2	-0.6	149.3	146.6	2.68	55.603			
700.0	700.0	702.6	702.4	1.6	1.5	-2.24	147.8	-5.8	147.9	144.8	3.12	47.462			
800.0	800.0	803.3	802.7	1.8	1.8	-5.63	145.4	-14.3	146.1	142.5	3.57	40.922			
900.0	900.0	903.2	901.9	2.0	2.0	-10.43	142.0	-26.2	144.4	140.4	4.05	35.621			
987.1	987.1	989.5	987.1	2.2	2.3	-15.75	138.4	-39.0	143.8	139.3	4.51	31.883 CC			
1,000.0	1,000.0	1,002.2	999.6	2.2	2.3	-16.62	137.8	-41.1	143.8	139.2	4.58	31.411 ES			
1,100.0	1,100.0	1,100.0	1,095.6	2.5	2.7	-24.01	132.7	-59.1	145.4	140.2	5.14	28.270			
1,200.0	1,200.0	1,196.7	1,189.8	2.7	3.1	83.92	126.8	-80.0	150.1	144.4	5.72	26.258			
1,300.0	1,299.8	1,292.8	1,282.7	2.9	3.5	76.87	120.1	-103.8	158.0	151.7	6.30	25.094			
1,400.0	1,399.5	1,388.2	1,374.0	3.1	4.0	70.66	112.7	-130.3	168.6	161.7	6.90	24.444			
1,500.0	1,498.7	1,482.9	1,463.8	3.3	4.6	65.31	104.4	-159.6	181.3	173.8	7.51	24.124			
1,600.0	1,597.5	1,577.1	1,551.9	3.6	5.3	60.79	95.4	-191.5	195.7	187.6	8.16	23.998			
1,700.0	1,695.7	1,673.8	1,641.5	3.9	6.0	57.08	85.6	-226.4	211.2	202.4	8.85	23.859			
1,800.0	1,793.9	1,771.7	1,732.3	4.2	6.7	54.00	75.6	-261.9	227.3	217.8	9.57	23.760			
1,900.0	1,892.1	1,869.7	1,823.1	4.5	7.5	51.32	65.5	-297.4	244.0	233.7	10.27	23.752 SF			
2,000.0	1,990.3	1,967.7	1,913.9	4.9	8.2	48.99	55.5	-332.9	261.1	250.2	10.97	23.806			
2,100.0	2,088.5	2,065.7	2,004.6	5.3	9.0	46.95	45.5	-368.4	278.6	267.0	11.66	23.904			
2,200.0	2,186.7	2,163.7	2,095.4	5.6	9.8	45.14	35.5	-403.9	296.4	284.1	12.34	24.030			
2,300.0	2,284.8	2,261.7	2,186.2	6.0	10.5	43.54	25.5	-439.4	314.5	301.5	13.01	24.175			
2,400.0	2,383.0	2,359.7	2,277.0	6.4	11.3	42.12	15.5	-474.9	332.8	319.1	13.68	24.331			
2,500.0	2,481.2	2,457.7	2,367.8	6.8	12.1	40.84	5.5	-510.4	351.2	336.9	14.34	24.493			
2,600.0	2,579.4	2,555.7	2,458.6	7.2	12.9	39.69	-4.6	-545.9	369.9	354.9	15.00	24.657			
2,700.0	2,677.6	2,653.7	2,549.4	7.6	13.7	38.65	-14.6	-581.4	388.6	372.9	15.66	24.820			
2,800.0	2,775.8	2,751.7	2,640.2	8.0	14.5	37.71	-24.6	-616.9	407.4	391.1	16.31	24.981			
2,900.0	2,874.0	2,849.7	2,730.9	8.4	15.3	36.85	-34.6	-652.4	426.4	409.4	16.96	25.139			
3,000.0	2,972.2	2,947.7	2,821.7	8.9	16.0	36.06	-44.6	-687.9	445.4	427.8	17.61	25.292			
3,100.0	3,070.3	3,045.7	2,912.5	9.3	16.8	35.34	-54.6	-723.4	464.5	446.3	18.26	25.441			
3,200.0	3,168.5	3,143.7	3,003.3	9.7	17.6	34.67	-64.6	-758.9	483.7	464.8	18.91	25.584			
3,300.0	3,266.7	3,241.7	3,094.1	10.1	18.4	34.05	-74.7	-794.4	502.9	483.4	19.55	25.722			
3,400.0	3,364.9	3,339.7	3,184.9	10.5	19.2	33.48	-84.7	-829.9	522.2	502.0	20.20	25.855			
3,500.0	3,463.1	3,437.7	3,275.7	11.0	20.0	32.95	-94.7	-865.4	541.6	520.7	20.84	25.982			
3,600.0	3,561.3	3,535.6	3,366.4	11.4	20.8	32.46	-104.7	-900.9	560.9	539.5	21.49	26.105			
3,700.0	3,659.5	3,633.6	3,457.2	11.8	21.6	32.00	-114.7	-936.4	580.4	558.2	22.13	26.222			
3,800.0	3,757.6	3,731.6	3,548.0	12.2	22.4	31.57	-124.7	-971.9	599.8	577.0	22.78	26.334			
3,900.0	3,855.8	3,829.6	3,638.8	12.7	23.2	31.17	-134.7	-1,007.4	619.3	595.9	23.42	26.442			
4,000.0	3,954.0	3,927.6	3,729.6	13.1	24.0	30.79	-144.7	-1,042.9	638.8	614.7	24.06	26.546			
4,100.0	4,052.2	4,025.6	3,820.4	13.5	24.8	30.43	-154.8	-1,078.4	658.3	633.6	24.71	26.645			
4,200.0	4,150.4	4,123.6	3,911.2	13.9	25.6	30.10	-164.8	-1,113.9	677.9	652.5	25.35	26.740			
4,300.0	4,248.6	4,221.6	4,002.0	14.4	26.3	29.78	-174.8	-1,149.4	697.4	671.4	25.99	26.831			
4,400.0	4,346.8	4,319.6	4,092.7	14.8	27.1	29.48	-184.8	-1,184.9	717.0	690.4	26.64	26.918			
4,500.0	4,445.0	4,417.6	4,183.5	15.2	27.9	29.20	-194.8	-1,220.4	736.6	709.4	27.28	27.002			
4,600.0	4,543.1	4,515.6	4,274.3	15.6	28.7	28.93	-204.8	-1,255.9	756.3	728.3	27.92	27.083			
4,700.0	4,641.3	4,613.6	4,365.1	16.1	29.5	28.67	-214.8	-1,291.4	775.9	747.3	28.57	27.161			
4,800.0	4,739.5	4,711.6	4,455.9	16.5	30.3	28.43	-224.9	-1,327.0	795.6	766.3	29.21	27.235			
4,900.0	4,837.7	4,809.6	4,546.7	16.9	31.1	28.20	-234.9	-1,362.5	815.2	785.4	29.85	27.307			
5,000.0	4,935.9	4,907.6	4,637.5	17.4	31.9	27.98	-244.9	-1,398.0	834.9	804.4	30.50	27.376			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design												Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-2 - Wellbore #1 Castor 12-1-2 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
5,100.0	5,034.1	5,005.6	4,728.2	17.8	32.7	27.77	-254.9	-1,433.5	854.6	823.5	31.14	27.442		
5,200.0	5,132.3	5,103.6	4,819.0	18.2	33.5	27.56	-264.9	-1,469.0	874.3	842.5	31.79	27.506		
5,300.0	5,230.4	5,201.6	4,909.8	18.7	34.3	27.37	-274.9	-1,504.5	894.0	861.6	32.43	27.568		
5,400.0	5,328.7	5,299.5	5,000.5	19.1	35.1	5.31	-284.9	-1,539.9	913.7	880.7	33.02	27.674		
5,500.0	5,426.9	5,395.6	5,089.6	19.3	35.9	-41.03	-294.8	-1,574.8	933.2	900.1	33.14	28.157		
5,600.0	5,522.2	5,487.2	5,174.4	19.5	36.6	-60.28	-304.1	-1,607.9	952.8	920.0	32.83	29.022		
5,700.0	5,611.9	5,571.3	5,252.3	19.6	37.3	-68.85	-312.7	-1,638.4	973.7	941.5	32.26	30.184		
5,800.0	5,693.2	5,650.5	5,325.8	19.6	37.9	-73.63	-320.4	-1,667.1	997.4	965.6	31.74	31.423		

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2 REV 1 (5-4-2)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-89.26	0.4	-28.1	28.1							
100.0	100.0	100.0	100.0	0.2	0.2	-89.26	0.4	-28.1	28.1	27.6	0.45	62.412				
200.0	200.0	200.0	200.0	0.4	0.4	-89.26	0.4	-28.1	28.1	27.2	0.90	31.206				
300.0	300.0	300.0	300.0	0.7	0.7	-89.26	0.4	-28.1	28.1	26.7	1.35	20.804				
400.0	400.0	400.0	400.0	0.9	0.9	-89.26	0.4	-28.1	28.1	26.3	1.80	15.603				
500.0	500.0	500.0	500.0	1.1	1.1	-89.26	0.4	-28.1	28.1	25.8	2.25	12.482				
600.0	600.0	600.0	600.0	1.3	1.3	-89.26	0.4	-28.1	28.1	25.4	2.70	10.402				
700.0	700.0	700.0	700.0	1.6	1.6	-89.26	0.4	-28.1	28.1	24.9	3.15	8.916 CC, ES				
800.0	800.0	799.0	799.0	1.8	1.8	-90.09	0.0	-29.7	29.7	26.2	3.58	8.311				
900.0	900.0	897.8	897.7	2.0	2.0	-92.10	-1.3	-34.7	34.8	30.8	4.00	8.706				
1,000.0	1,000.0	996.1	995.6	2.2	2.2	-94.40	-3.3	-42.9	43.3	38.8	4.42	9.795				
1,100.0	1,100.0	1,093.7	1,092.5	2.5	2.4	-96.42	-6.1	-54.3	55.1	50.3	4.84	11.401				
1,200.0	1,200.0	1,190.7	1,188.3	2.7	2.7	17.97	-9.7	-68.8	68.8	63.5	5.23	13.145				
1,300.0	1,299.8	1,287.2	1,283.1	2.9	3.0	17.61	-14.0	-86.3	82.5	76.8	5.61	14.701				
1,400.0	1,399.5	1,383.3	1,376.9	3.1	3.4	17.74	-19.1	-106.8	96.2	90.2	6.00	16.039				
1,500.0	1,498.7	1,479.0	1,469.4	3.3	3.8	18.17	-24.8	-130.2	109.9	103.5	6.39	17.183				
1,600.0	1,597.5	1,574.2	1,560.7	3.6	4.3	18.81	-31.3	-156.5	123.6	116.8	6.81	18.149				
1,700.0	1,695.7	1,672.2	1,653.9	3.9	4.8	19.65	-38.6	-185.8	136.9	129.6	7.29	18.770				
1,800.0	1,793.9	1,771.3	1,748.2	4.2	5.4	20.42	-45.9	-215.5	150.0	142.2	7.81	19.211				
1,900.0	1,892.1	1,870.4	1,842.5	4.5	6.0	21.06	-53.2	-245.2	163.1	154.7	8.35	19.534				
2,000.0	1,990.3	1,969.5	1,936.8	4.9	6.6	21.62	-60.5	-274.9	176.2	167.3	8.90	19.790				
2,100.0	2,088.5	2,068.7	2,031.0	5.3	7.3	22.09	-67.9	-304.6	189.4	179.9	9.47	19.990				
2,200.0	2,186.7	2,167.8	2,125.3	5.6	7.9	22.50	-75.2	-334.3	202.5	192.5	10.05	20.146				
2,300.0	2,284.8	2,266.9	2,219.6	6.0	8.5	22.87	-82.5	-364.0	215.7	205.0	10.64	20.268				
2,400.0	2,383.0	2,366.0	2,313.9	6.4	9.1	23.19	-89.8	-393.7	228.9	217.6	11.24	20.362				
2,500.0	2,481.2	2,465.1	2,408.2	6.8	9.8	23.47	-97.2	-423.4	242.0	230.2	11.84	20.436				
2,600.0	2,579.4	2,564.3	2,502.4	7.2	10.4	23.73	-104.5	-453.1	255.2	242.8	12.45	20.493				
2,700.0	2,677.6	2,663.4	2,596.7	7.6	11.1	23.96	-111.8	-482.8	268.4	255.4	13.07	20.536				
2,800.0	2,775.8	2,762.5	2,691.0	8.0	11.7	24.17	-119.2	-512.5	281.6	267.9	13.69	20.568				
2,900.0	2,874.0	2,861.6	2,785.3	8.4	12.4	24.36	-126.5	-542.2	294.8	280.5	14.32	20.592				
3,000.0	2,972.2	2,960.7	2,879.6	8.9	13.0	24.54	-133.8	-571.9	308.0	293.1	14.95	20.609				
3,100.0	3,070.3	3,059.9	2,973.9	9.3	13.7	24.70	-141.1	-601.6	321.2	305.6	15.58	20.621				
3,200.0	3,168.5	3,159.0	3,068.1	9.7	14.3	24.84	-148.5	-631.3	334.4	318.2	16.21	20.628				
3,300.0	3,266.7	3,258.1	3,162.4	10.1	15.0	24.98	-155.8	-661.1	347.6	330.8	16.85	20.632				
3,400.0	3,364.9	3,357.2	3,256.7	10.5	15.6	25.11	-163.1	-690.8	360.8	343.3	17.49	20.632				
3,500.0	3,463.1	3,456.3	3,351.0	11.0	16.3	25.22	-170.5	-720.5	374.0	355.9	18.13	20.630				
3,600.0	3,561.3	3,555.5	3,445.3	11.4	16.9	25.33	-177.8	-750.2	387.3	368.5	18.77	20.627				
3,700.0	3,659.5	3,654.6	3,539.5	11.8	17.6	25.43	-185.1	-779.9	400.5	381.1	19.42	20.622				
3,800.0	3,757.6	3,753.7	3,633.8	12.2	18.2	25.53	-192.4	-809.6	413.7	393.6	20.07	20.615				
3,900.0	3,855.8	3,852.8	3,728.1	12.7	18.9	25.62	-199.8	-839.3	426.9	406.2	20.72	20.608				
4,000.0	3,954.0	3,951.9	3,822.4	13.1	19.5	25.70	-207.1	-869.0	440.1	418.8	21.37	20.600				
4,100.0	4,052.2	4,051.1	3,916.7	13.5	20.2	25.78	-214.4	-898.7	453.3	431.3	22.02	20.591				
4,200.0	4,150.4	4,150.2	4,011.0	13.9	20.8	25.86	-221.7	-928.4	466.6	443.9	22.67	20.582				
4,300.0	4,248.6	4,249.3	4,105.2	14.4	21.5	25.93	-229.1	-958.1	479.8	456.5	23.32	20.572				
4,400.0	4,346.8	4,348.4	4,199.5	14.8	22.2	26.00	-236.4	-987.8	493.0	469.0	23.98	20.562				
4,500.0	4,445.0	4,447.6	4,293.8	15.2	22.8	26.06	-243.7	-1,017.5	506.2	481.6	24.63	20.552				
4,600.0	4,543.1	4,546.7	4,388.1	15.6	23.5	26.12	-251.1	-1,047.2	519.4	494.2	25.29	20.542				
4,700.0	4,641.3	4,645.8	4,482.4	16.1	24.1	26.18	-258.4	-1,076.9	532.7	506.7	25.94	20.532				
4,800.0	4,739.5	4,744.9	4,576.6	16.5	24.8	26.23	-265.7	-1,106.6	545.9	519.3	26.60	20.522				
4,900.0	4,837.7	4,844.0	4,670.9	16.9	25.4	26.28	-273.0	-1,136.3	559.1	531.8	27.26	20.512				
5,000.0	4,935.9	4,943.2	4,765.2	17.4	26.1	26.33	-280.4	-1,166.0	572.3	544.4	27.92	20.502				
5,100.0	5,034.1	5,042.3	4,859.5	17.8	26.7	26.38	-287.7	-1,195.7	585.6	557.0	28.58	20.492				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2 REV 1 (5-4-2)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,132.3	5,141.4	4,953.8	18.2	27.4	26.43	-295.0	-1,225.4	598.8	569.5	29.23	20.482			
5,300.0	5,230.4	5,240.5	5,048.0	18.7	28.1	26.47	-302.4	-1,255.1	612.0	582.1	29.89	20.472			
5,400.0	5,328.7	5,339.6	5,142.3	19.1	28.7	4.30	-309.7	-1,284.8	625.2	594.7	30.50	20.502			
5,500.0	5,426.9	5,437.4	5,235.3	19.3	29.4	-42.92	-316.9	-1,314.1	638.5	607.9	30.61	20.856			
5,600.0	5,522.2	5,532.3	5,325.6	19.5	30.0	-63.45	-323.7	-1,342.5	652.6	622.3	30.32	21.527			
5,700.0	5,611.9	5,635.1	5,423.5	19.6	30.5	-73.33	-318.9	-1,373.1	668.1	638.1	30.04	22.241			
5,800.0	5,693.2	5,746.7	5,527.1	19.6	31.0	-79.24	-293.2	-1,405.0	684.3	654.2	30.04	22.782			
5,900.0	5,763.6	5,868.8	5,632.8	19.6	31.4	-83.32	-241.6	-1,436.9	700.2	669.8	30.33	23.085			
6,000.0	5,821.0	6,002.9	5,734.2	19.6	31.7	-86.32	-159.5	-1,466.8	714.6	683.7	30.85	23.166			
6,100.0	5,863.6	6,149.3	5,820.9	19.5	32.0	-88.45	-44.8	-1,491.3	726.1	694.6	31.53	23.027			
6,200.0	5,890.2	6,305.7	5,880.0	19.6	32.1	-89.71	98.8	-1,506.6	733.5	701.1	32.43	22.618			
6,300.0	5,900.0	6,465.1	5,900.0	19.7	32.3	-90.00	256.4	-1,509.2	735.7	702.1	33.68	21.848			
6,386.3	5,900.5	6,551.4	5,900.0	20.0	32.4	-89.96	342.6	-1,507.3	735.6	700.6	35.00	21.021			
6,400.0	5,900.0	6,565.1	5,900.0	20.1	32.5	-90.00	356.3	-1,507.0	735.7	700.5	35.20	20.900			
6,500.0	5,900.0	6,665.1	5,900.0	20.7	32.7	-90.00	456.3	-1,504.7	735.7	698.7	37.01	19.879			
6,600.0	5,900.0	6,765.1	5,900.0	21.5	33.1	-90.00	556.3	-1,502.4	735.7	696.6	39.11	18.810			
6,700.0	5,900.0	6,865.1	5,900.0	22.6	33.6	-90.00	656.3	-1,500.1	735.7	694.3	41.46	17.744			
6,800.0	5,900.0	6,965.1	5,900.0	23.7	34.2	-90.00	756.2	-1,497.8	735.7	691.7	44.02	16.712			
6,900.0	5,900.0	7,065.1	5,900.0	25.0	34.9	-90.00	856.2	-1,495.6	735.7	689.0	46.76	15.735			
7,000.0	5,900.0	7,165.1	5,900.0	26.4	35.7	-90.00	956.2	-1,493.3	735.7	686.1	49.64	14.822			
7,100.0	5,900.0	7,265.1	5,900.0	27.8	36.6	-90.00	1,056.2	-1,491.0	735.7	683.1	52.64	13.976			
7,200.0	5,900.0	7,365.1	5,900.0	29.3	37.6	-90.00	1,156.1	-1,488.7	735.7	680.0	55.75	13.198			
7,300.0	5,900.0	7,465.1	5,900.0	30.8	38.7	-90.00	1,256.1	-1,486.4	735.7	676.8	58.94	12.483			
7,400.0	5,900.0	7,565.1	5,900.0	32.4	39.8	-90.00	1,356.1	-1,484.1	735.7	673.5	62.20	11.828			
7,500.0	5,900.0	7,665.1	5,900.0	34.0	41.1	-90.00	1,456.1	-1,481.9	735.7	670.2	65.53	11.228			
7,600.0	5,900.0	7,765.1	5,900.0	35.7	42.3	-90.00	1,556.0	-1,479.6	735.7	666.8	68.90	10.677			
7,700.0	5,900.0	7,865.1	5,900.0	37.4	43.7	-90.00	1,656.0	-1,477.3	735.7	663.4	72.33	10.172			
7,800.0	5,900.0	7,965.1	5,900.0	39.1	45.1	-90.00	1,756.0	-1,475.0	735.7	659.9	75.79	9.707			
7,900.0	5,900.0	8,065.1	5,900.0	40.8	46.5	-90.00	1,856.0	-1,472.7	735.7	656.4	79.29	9.279			
8,000.0	5,900.0	8,165.1	5,900.0	42.5	48.0	-90.00	1,955.9	-1,470.5	735.7	652.9	82.82	8.883			
8,100.0	5,900.0	8,265.1	5,900.0	44.3	49.5	-90.00	2,055.9	-1,468.2	735.7	649.3	86.37	8.518			
8,200.0	5,900.0	8,365.1	5,900.0	46.0	51.1	-90.00	2,155.9	-1,465.9	735.7	645.8	89.95	8.179			
8,300.0	5,900.0	8,465.1	5,900.0	47.8	52.7	-90.00	2,255.9	-1,463.6	735.7	642.2	93.55	7.864			
8,400.0	5,900.0	8,565.1	5,900.0	49.6	54.3	-90.00	2,355.8	-1,461.3	735.7	638.5	97.17	7.572			
8,500.0	5,900.0	8,665.1	5,900.0	51.4	55.9	-90.00	2,455.8	-1,459.0	735.7	634.9	100.80	7.299			
8,600.0	5,900.0	8,765.1	5,900.0	53.2	57.5	-90.00	2,555.8	-1,456.8	735.7	631.3	104.45	7.044			
8,700.0	5,900.0	8,865.1	5,900.0	55.0	59.2	-90.00	2,655.7	-1,454.5	735.7	627.6	108.11	6.805			
8,800.0	5,900.0	8,965.1	5,900.0	56.8	60.9	-90.00	2,755.7	-1,452.2	735.7	623.9	111.78	6.582			
8,900.0	5,900.0	9,065.1	5,900.0	58.6	62.5	-90.00	2,855.7	-1,449.9	735.7	620.2	115.46	6.372			
9,000.0	5,900.0	9,165.1	5,900.0	60.4	64.3	-90.00	2,955.7	-1,447.6	735.7	616.6	119.16	6.174			
9,100.0	5,900.0	9,265.1	5,900.0	62.3	66.0	-90.00	3,055.6	-1,445.4	735.7	612.8	122.86	5.988			
9,200.0	5,900.0	9,365.1	5,900.0	64.1	67.7	-90.00	3,155.6	-1,443.1	735.7	609.1	126.57	5.813			
9,300.0	5,900.0	9,465.1	5,900.0	65.9	69.4	-90.00	3,255.6	-1,440.8	735.7	605.4	130.28	5.647			
9,400.0	5,900.0	9,565.1	5,900.0	67.8	71.2	-90.00	3,355.6	-1,438.5	735.7	601.7	134.01	5.490			
9,500.0	5,900.0	9,665.1	5,900.0	69.6	72.9	-90.00	3,455.5	-1,436.2	735.7	598.0	137.74	5.341			
9,600.0	5,900.0	9,765.1	5,900.0	71.5	74.7	-90.00	3,555.5	-1,434.0	735.7	594.2	141.47	5.200			
9,700.0	5,900.0	9,865.1	5,900.0	73.3	76.5	-90.00	3,655.5	-1,431.7	735.7	590.5	145.21	5.066			
9,800.0	5,900.0	9,965.1	5,900.0	75.2	78.3	-90.00	3,755.5	-1,429.4	735.7	586.7	148.96	4.939			
9,900.0	5,900.0	10,065.1	5,900.0	77.1	80.0	-90.00	3,855.4	-1,427.1	735.7	583.0	152.71	4.818			
10,000.0	5,900.0	10,165.1	5,900.0	78.9	81.8	-90.00	3,955.4	-1,424.8	735.7	579.2	156.47	4.702			
10,100.0	5,900.0	10,265.1	5,900.0	80.8	83.6	-90.00	4,055.4	-1,422.5	735.7	575.5	160.22	4.592			
10,200.0	5,900.0	10,365.1	5,900.0	82.7	85.4	-90.00	4,155.4	-1,420.3	735.7	571.7	163.99	4.486			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2 REV 1 (5-4-2)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
10,300.0	5,900.0	10,465.1	5,900.0	84.5	87.2	-90.00	4,255.3	-1,418.0	735.7	567.9	167.75	4.386				
10,400.0	5,900.0	10,565.1	5,900.0	86.4	89.1	-90.00	4,355.3	-1,415.7	735.7	564.2	171.52	4.289				
10,500.0	5,900.0	10,665.1	5,900.0	88.3	90.9	-90.00	4,455.3	-1,413.4	735.7	560.4	175.29	4.197				
10,600.0	5,900.0	10,765.1	5,900.0	90.2	92.7	-90.00	4,555.3	-1,411.1	735.7	556.6	179.07	4.108				
10,700.0	5,900.0	10,865.1	5,900.0	92.0	94.5	-90.00	4,655.2	-1,408.9	735.7	552.8	182.84	4.024				
10,800.0	5,900.0	10,965.1	5,900.0	93.9	96.3	-90.00	4,755.2	-1,406.6	735.7	549.1	186.62	3.942				
10,900.0	5,900.0	11,065.1	5,900.0	95.8	98.2	-90.00	4,855.2	-1,404.3	735.7	545.3	190.41	3.864				
11,000.0	5,900.0	11,165.1	5,900.0	97.7	100.0	-90.00	4,955.2	-1,402.0	735.7	541.5	194.19	3.789				
11,100.0	5,900.0	11,265.1	5,900.0	99.6	101.8	-90.00	5,055.1	-1,399.7	735.7	537.7	197.98	3.716				
11,200.0	5,900.0	11,365.1	5,900.0	101.5	103.7	-90.00	5,155.1	-1,397.4	735.7	533.9	201.76	3.646				
11,300.0	5,900.0	11,465.1	5,900.0	103.3	105.5	-90.00	5,255.1	-1,395.2	735.7	530.1	205.55	3.579				
11,400.0	5,900.0	11,565.1	5,900.0	105.2	107.4	-90.00	5,355.0	-1,392.9	735.7	526.3	209.34	3.514				
11,500.0	5,900.0	11,665.1	5,900.0	107.1	109.2	-90.00	5,455.0	-1,390.6	735.7	522.5	213.14	3.452				
11,600.0	5,900.0	11,765.1	5,900.0	109.0	111.1	-90.00	5,555.0	-1,388.3	735.7	518.8	216.93	3.391				
11,700.0	5,900.0	11,865.1	5,900.0	110.9	112.9	-90.00	5,655.0	-1,386.0	735.7	515.0	220.73	3.333				
11,800.0	5,900.0	11,965.1	5,900.0	112.8	114.8	-90.00	5,754.9	-1,383.8	735.7	511.2	224.53	3.277				
11,900.0	5,900.0	12,065.1	5,900.0	114.7	116.6	-90.00	5,854.9	-1,381.5	735.7	507.4	228.33	3.222				
12,000.0	5,900.0	12,165.1	5,900.0	116.6	118.5	-90.00	5,954.9	-1,379.2	735.7	503.6	232.13	3.169				
12,100.0	5,900.0	12,265.1	5,900.0	118.5	120.4	-90.00	6,054.9	-1,376.9	735.7	499.8	235.93	3.118				
12,200.0	5,900.0	12,365.1	5,900.0	120.4	122.2	-90.00	6,154.8	-1,374.6	735.7	496.0	239.73	3.069				
12,300.0	5,900.0	12,465.1	5,900.0	122.3	124.1	-90.00	6,254.8	-1,372.3	735.7	492.1	243.53	3.021				
12,400.0	5,900.0	12,565.1	5,900.0	124.2	126.0	-90.00	6,354.8	-1,370.1	735.7	488.3	247.34	2.974				
12,500.0	5,900.0	12,665.1	5,900.0	126.1	127.8	-90.00	6,454.8	-1,367.8	735.7	484.5	251.14	2.929				
12,600.0	5,900.0	12,765.1	5,900.0	128.0	129.7	-90.00	6,554.7	-1,365.5	735.7	480.7	254.95	2.886				
12,700.0	5,900.0	12,865.1	5,900.0	129.9	131.6	-90.00	6,654.7	-1,363.2	735.7	476.9	258.76	2.843				
12,800.0	5,900.0	12,965.1	5,900.0	131.8	133.4	-90.00	6,754.7	-1,360.9	735.7	473.1	262.57	2.802				
12,900.0	5,900.0	13,065.1	5,900.0	133.7	135.3	-90.00	6,854.7	-1,358.7	735.7	469.3	266.37	2.762				
13,000.0	5,900.0	13,165.1	5,900.0	135.6	137.2	-90.00	6,954.6	-1,356.4	735.7	465.5	270.18	2.723				
13,100.0	5,900.0	13,265.1	5,900.0	137.5	139.1	-90.00	7,054.6	-1,354.1	735.7	461.7	274.00	2.685				
13,200.0	5,900.0	13,365.1	5,900.0	139.4	140.9	-90.00	7,154.6	-1,351.8	735.7	457.9	277.81	2.648				
13,300.0	5,900.0	13,465.1	5,900.0	141.3	142.8	-90.00	7,254.6	-1,349.5	735.7	454.1	281.62	2.612				
13,400.0	5,900.0	13,565.1	5,900.0	143.2	144.7	-90.00	7,354.5	-1,347.3	735.7	450.2	285.43	2.577				
13,500.0	5,900.0	13,665.1	5,900.0	145.1	146.6	-90.00	7,454.5	-1,345.0	735.7	446.4	289.25	2.543				
13,600.0	5,900.0	13,765.1	5,900.0	147.0	148.5	-90.00	7,554.5	-1,342.7	735.7	442.6	293.06	2.510				
13,700.0	5,900.0	13,865.1	5,900.0	148.9	150.3	-90.00	7,654.4	-1,340.4	735.7	438.8	296.87	2.478				
13,800.0	5,900.0	13,965.1	5,900.0	150.8	152.2	-90.00	7,754.4	-1,338.1	735.7	435.0	300.69	2.447				
13,900.0	5,900.0	14,065.1	5,900.0	152.7	154.1	-90.00	7,854.4	-1,335.8	735.7	431.2	304.50	2.416				
14,000.0	5,900.0	14,165.1	5,900.0	154.6	156.0	-90.00	7,954.4	-1,333.6	735.7	427.3	308.32	2.386				
14,100.0	5,900.0	14,265.1	5,900.0	156.5	157.9	-90.00	8,054.3	-1,331.3	735.7	423.5	312.14	2.357				
14,200.0	5,900.0	14,365.1	5,900.0	158.4	159.8	-90.00	8,154.3	-1,329.0	735.7	419.7	315.96	2.328				
14,300.0	5,900.0	14,465.1	5,900.0	160.3	161.7	-90.00	8,254.3	-1,326.7	735.7	415.9	319.77	2.301				
14,400.0	5,900.0	14,565.1	5,900.0	162.2	163.5	-90.00	8,354.3	-1,324.4	735.7	412.1	323.59	2.273				
14,500.0	5,900.0	14,665.1	5,900.0	164.1	165.4	-90.00	8,454.2	-1,322.2	735.7	408.3	327.41	2.247				
14,600.0	5,900.0	14,765.1	5,900.0	166.0	167.3	-90.00	8,554.2	-1,319.9	735.7	404.4	331.23	2.221				
14,700.0	5,900.0	14,865.1	5,900.0	167.9	169.2	-90.00	8,654.2	-1,317.6	735.7	400.6	335.05	2.196				
14,800.0	5,900.0	14,965.1	5,900.0	169.8	171.1	-90.00	8,754.2	-1,315.3	735.7	396.8	338.87	2.171				
14,900.0	5,900.0	15,065.1	5,900.0	171.7	173.0	-90.00	8,854.1	-1,313.0	735.7	393.0	342.69	2.147				
15,000.0	5,900.0	15,165.1	5,900.0	173.6	174.9	-90.00	8,954.1	-1,310.7	735.7	389.2	346.51	2.123				
15,100.0	5,900.0	15,265.1	5,900.0	175.6	176.8	-90.00	9,054.1	-1,308.5	735.7	385.3	350.33	2.100				
15,200.0	5,900.0	15,365.1	5,900.0	177.5	178.7	-90.00	9,154.1	-1,306.2	735.7	381.5	354.15	2.077				
15,300.0	5,900.0	15,465.1	5,900.0	179.4	180.6	-90.00	9,254.0	-1,303.9	735.7	377.7	357.97	2.055				
15,400.0	5,900.0	15,565.1	5,900.0	181.3	182.5	-90.00	9,354.0	-1,301.6	735.7	373.9	361.80	2.033				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-3 - Wellbore #1 Castor 12-1-3 - Plan 2 REV 1 (5-4-2)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
15,500.0	5,900.0	15,665.1	5,900.0	183.2	184.3	-90.00	9,454.0	-1,299.3	735.7	370.0	365.62	2.012			
15,600.0	5,900.0	15,765.1	5,900.0	185.1	186.2	-90.00	9,554.0	-1,297.1	735.7	366.2	369.44	1.991	Collision Risk Procedures Req.		
15,700.0	5,900.0	15,865.1	5,900.0	187.0	188.1	-90.00	9,653.9	-1,294.8	735.7	362.4	373.26	1.971	Collision Risk Procedures Req.		
15,800.0	5,900.0	15,965.1	5,900.0	188.9	190.0	-90.00	9,753.9	-1,292.5	735.7	358.6	377.09	1.951	Collision Risk Procedures Req.		
15,900.0	5,900.0	16,065.1	5,900.0	190.8	191.9	-90.00	9,853.9	-1,290.2	735.7	354.7	380.91	1.931	Collision Risk Procedures Req.		
15,984.7	5,900.0	16,149.8	5,900.0	192.4	193.5	-90.00	9,938.5	-1,288.3	735.7	351.5	384.15	1.915	Collision Risk Procedures Req.		
15,999.3	5,900.0	16,150.6	5,900.0	192.7	193.6	-90.00	9,939.3	-1,288.3	735.8	350.7	385.04	1.911	Collision Risk Procedures Req., SF		

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3 (3-22-22)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	20.96	149.4	57.2	160.0						
100.0	100.0	100.0	100.0	0.2	0.2	20.96	149.4	57.2	160.0	159.5	0.45	355.821			
200.0	200.0	200.0	200.0	0.4	0.4	20.96	149.4	57.2	160.0	159.1	0.90	177.911			
300.0	300.0	300.0	300.0	0.7	0.7	20.96	149.4	57.2	160.0	158.6	1.35	118.607			
400.0	400.0	400.0	400.0	0.9	0.9	20.96	149.4	57.2	160.0	158.2	1.80	88.955			
500.0	500.0	500.0	500.0	1.1	1.1	20.96	149.4	57.2	160.0	157.7	2.25	71.164			
600.0	600.0	600.0	600.0	1.3	1.3	20.96	149.4	57.2	160.0	157.3	2.70	59.304			
700.0	700.0	700.0	700.0	1.6	1.6	20.96	149.4	57.2	160.0	156.8	3.15	50.832			
800.0	800.0	800.0	800.0	1.8	1.8	20.96	149.4	57.2	160.0	156.4	3.60	44.478			
900.0	900.0	900.0	900.0	2.0	2.0	20.96	149.4	57.2	160.0	155.9	4.05	39.536			
1,000.0	1,000.0	1,004.1	1,004.1	2.2	2.2	20.48	148.6	55.5	158.7	154.2	4.48	35.386			
1,100.0	1,100.0	1,107.9	1,107.7	2.5	2.4	18.99	146.3	50.3	154.9	150.0	4.91	31.549			
1,200.0	1,200.0	1,211.3	1,210.7	2.7	2.7	132.58	142.4	41.8	150.0	144.7	5.33	28.167			
1,300.0	1,299.8	1,314.5	1,313.0	2.9	2.9	130.34	137.1	29.9	145.3	139.6	5.75	25.290			
1,400.0	1,399.5	1,417.3	1,414.5	3.1	3.2	127.89	130.3	14.7	140.9	134.7	6.21	22.694			
1,500.0	1,498.7	1,519.9	1,515.1	3.3	3.5	125.24	122.0	-3.7	136.7	130.0	6.73	20.319			
1,600.0	1,597.5	1,622.2	1,614.6	3.6	3.9	122.39	112.2	-25.4	132.9	125.5	7.33	18.124			
1,700.0	1,695.7	1,723.8	1,712.5	3.9	4.4	119.12	101.1	-50.0	129.2	121.2	8.04	16.075			
1,800.0	1,793.9	1,823.4	1,808.2	4.2	4.9	115.36	89.7	-75.3	125.6	116.8	8.84	14.209			
1,900.0	1,892.1	1,923.0	1,903.8	4.5	5.4	111.39	78.4	-100.5	122.7	112.9	9.71	12.629			
2,000.0	1,990.3	2,022.6	1,999.5	4.9	5.9	107.25	67.0	-125.8	120.3	109.6	10.63	11.311			
2,100.0	2,088.5	2,122.1	2,095.1	5.3	6.4	102.96	55.6	-151.1	118.6	107.0	11.59	10.227			
2,200.0	2,186.7	2,221.7	2,190.8	5.6	7.0	98.58	44.3	-176.3	117.5	104.9	12.57	9.348			
2,300.0	2,284.8	2,321.3	2,286.4	6.0	7.5	94.15	32.9	-201.6	117.2	103.6	13.55	8.647 CC			
2,300.0	2,284.8	2,321.3	2,286.4	6.0	7.5	94.15	32.9	-201.6	117.2	103.6	13.55	8.647			
2,400.0	2,383.0	2,420.9	2,382.1	6.4	8.1	89.71	21.5	-226.9	117.6	103.0	14.52	8.098			
2,500.0	2,481.2	2,520.5	2,477.7	6.8	8.7	85.33	10.2	-252.1	118.6	103.2	15.46	7.677			
2,600.0	2,579.4	2,620.1	2,573.4	7.2	9.2	81.06	-1.2	-277.4	120.4	104.1	16.35	7.364			
2,700.0	2,677.6	2,719.6	2,669.0	7.6	9.8	76.93	-12.6	-302.7	122.8	105.6	17.20	7.141			
2,800.0	2,775.8	2,819.2	2,764.7	8.0	10.4	72.97	-23.9	-327.9	125.9	107.9	18.00	6.993			
2,900.0	2,874.0	2,918.8	2,860.3	8.4	11.0	69.22	-35.3	-353.2	129.5	110.7	18.74	6.907			
3,000.0	2,972.2	3,018.4	2,956.0	8.9	11.6	65.69	-46.7	-378.4	133.6	114.2	19.44	6.872			
3,100.0	3,070.3	3,118.0	3,051.6	9.3	12.1	62.37	-58.0	-403.7	138.2	118.1	20.09	6.879			
3,200.0	3,168.5	3,217.5	3,147.3	9.7	12.7	59.28	-69.4	-429.0	143.3	122.6	20.71	6.918			
3,300.0	3,266.7	3,317.1	3,242.9	10.1	13.3	56.41	-80.8	-454.2	148.7	127.4	21.29	6.985			
3,400.0	3,364.9	3,416.7	3,338.6	10.5	13.9	53.74	-92.1	-479.5	154.5	132.7	21.84	7.073			
3,500.0	3,463.1	3,516.3	3,434.2	11.0	14.5	51.27	-103.5	-504.8	160.6	138.2	22.37	7.178			
3,600.0	3,561.3	3,615.9	3,529.9	11.4	15.1	48.99	-114.9	-530.0	167.0	144.1	22.88	7.296			
3,700.0	3,659.5	3,715.5	3,625.5	11.8	15.7	46.87	-126.3	-555.3	173.6	150.2	23.38	7.424			
3,800.0	3,757.6	3,815.0	3,721.2	12.2	16.2	44.92	-137.6	-580.6	180.4	156.5	23.87	7.558			
3,900.0	3,855.8	3,914.6	3,816.8	12.7	16.8	43.10	-149.0	-605.8	187.4	163.1	24.35	7.698			
4,000.0	3,954.0	4,014.2	3,912.5	13.1	17.4	41.42	-160.4	-631.1	194.7	169.8	24.82	7.841			
4,100.0	4,052.2	4,113.8	4,008.1	13.5	18.0	39.86	-171.7	-656.4	202.0	176.7	25.30	7.986			
4,200.0	4,150.4	4,213.4	4,103.8	13.9	18.6	38.41	-183.1	-681.6	209.5	183.8	25.76	8.132			
4,300.0	4,248.6	4,313.0	4,199.5	14.4	19.2	37.06	-194.5	-706.9	217.1	190.9	26.23	8.277			
4,400.0	4,346.8	4,412.5	4,295.1	14.8	19.8	35.81	-205.8	-732.1	224.9	198.2	26.70	8.422			
4,500.0	4,445.0	4,512.1	4,390.8	15.2	20.4	34.63	-217.2	-757.4	232.7	205.5	27.17	8.565			
4,600.0	4,543.1	4,611.7	4,486.4	15.6	21.0	33.54	-228.6	-782.7	240.6	213.0	27.64	8.706			
4,700.0	4,641.3	4,711.3	4,582.1	16.1	21.6	32.51	-239.9	-807.9	248.6	220.5	28.11	8.845			
4,800.0	4,739.5	4,810.9	4,677.7	16.5	22.2	31.55	-251.3	-833.2	256.7	228.1	28.59	8.981			
4,900.0	4,837.7	4,910.5	4,773.4	16.9	22.8	30.64	-262.7	-858.5	264.9	235.8	29.06	9.114			
5,000.0	4,935.9	5,010.0	4,869.0	17.4	23.4	29.79	-274.0	-883.7	273.1	243.6	29.54	9.244			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3 (3-22-22)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
5,100.0	5,034.1	5,109.6	4,964.7	17.8	24.0	29.00	-285.4	-909.0	281.4	251.3	30.02	9.371				
5,200.0	5,132.3	5,209.2	5,060.3	18.2	24.6	28.24	-296.8	-934.3	289.7	259.2	30.51	9.495				
5,300.0	5,230.4	5,308.8	5,156.0	18.7	25.2	27.53	-308.1	-959.5	298.1	267.1	30.99	9.616				
5,400.0	5,328.7	5,408.3	5,251.5	19.1	25.7	4.29	-319.5	-984.8	306.5	275.1	31.38	9.767				
5,500.0	5,426.9	5,507.6	5,347.3	19.3	26.2	-44.78	-326.5	-1,009.9	315.2	284.1	31.06	10.148				
5,600.0	5,522.2	5,609.7	5,445.5	19.5	26.6	-65.91	-316.6	-1,035.4	324.4	293.8	30.63	10.591				
5,700.0	5,611.9	5,714.9	5,543.3	19.6	26.9	-75.72	-287.7	-1,060.3	333.8	303.5	30.27	11.027				
5,800.0	5,693.2	5,823.3	5,637.2	19.6	27.0	-81.38	-239.2	-1,083.7	342.8	312.8	30.06	11.407				
5,900.0	5,763.6	5,934.8	5,722.9	19.6	27.0	-85.02	-171.2	-1,104.6	351.1	321.1	30.05	11.686				
6,000.0	5,821.0	6,049.3	5,796.0	19.6	27.0	-87.44	-85.0	-1,121.7	358.1	327.8	30.27	11.830				
6,100.0	5,863.6	6,166.1	5,852.2	19.5	26.9	-88.99	16.5	-1,134.1	363.4	332.6	30.78	11.807				
6,200.0	5,890.2	6,284.7	5,887.6	19.6	26.8	-89.82	129.2	-1,140.8	366.7	335.1	31.59	11.607				
6,300.0	5,900.0	6,404.0	5,900.0	19.7	26.7	-90.00	247.7	-1,141.3	367.7	335.0	32.71	11.243				
6,386.7	5,900.5	6,491.0	5,900.0	20.0	26.7	-89.92	334.7	-1,139.4	367.6	333.8	33.88	10.851				
6,400.0	5,900.0	6,504.3	5,900.0	20.1	26.7	-90.00	347.9	-1,139.1	367.7	333.7	34.05	10.800				
6,500.0	5,900.0	6,604.3	5,900.0	20.7	26.8	-90.00	447.9	-1,136.8	367.7	332.0	35.69	10.304				
6,600.0	5,900.0	6,704.3	5,900.0	21.5	27.1	-90.00	547.9	-1,134.5	367.7	330.1	37.64	9.769				
6,700.0	5,900.0	6,804.3	5,900.0	22.6	27.5	-90.00	647.9	-1,132.2	367.7	327.9	39.87	9.223				
6,800.0	5,900.0	6,904.3	5,900.0	23.7	28.1	-90.00	747.8	-1,129.9	367.7	325.4	42.33	8.688				
6,900.0	5,900.0	7,004.3	5,900.0	25.0	28.8	-90.00	847.8	-1,127.7	367.7	322.8	44.98	8.176				
7,000.0	5,900.0	7,104.3	5,900.0	26.4	29.7	-90.00	947.8	-1,125.4	367.7	319.9	47.79	7.695				
7,100.0	5,900.0	7,204.3	5,900.0	27.8	30.7	-90.00	1,047.8	-1,123.1	367.7	317.0	50.73	7.248				
7,200.0	5,900.0	7,304.3	5,900.0	29.3	31.9	-90.00	1,147.7	-1,120.8	367.7	313.9	53.79	6.836				
7,300.0	5,900.0	7,404.3	5,900.0	30.8	33.1	-90.00	1,247.7	-1,118.5	367.7	310.8	56.94	6.458				
7,400.0	5,900.0	7,504.3	5,900.0	32.4	34.4	-90.00	1,347.7	-1,116.3	367.7	307.6	60.17	6.111				
7,500.0	5,900.0	7,604.3	5,900.0	34.0	35.8	-90.00	1,447.7	-1,114.0	367.7	304.3	63.47	5.794				
7,600.0	5,900.0	7,704.3	5,900.0	35.7	37.2	-90.00	1,547.6	-1,111.7	367.7	300.9	66.83	5.503				
7,700.0	5,900.0	7,804.3	5,900.0	37.4	38.7	-90.00	1,647.6	-1,109.4	367.7	297.5	70.24	5.236				
7,800.0	5,900.0	7,904.3	5,900.0	39.1	40.2	-90.00	1,747.6	-1,107.1	367.7	294.1	73.68	4.991				
7,900.0	5,900.0	8,004.3	5,900.0	40.8	41.8	-90.00	1,847.6	-1,104.9	367.8	290.6	77.17	4.766				
8,000.0	5,900.0	8,104.3	5,900.0	42.5	43.3	-90.00	1,947.5	-1,102.6	367.8	287.1	80.69	4.558				
8,100.0	5,900.0	8,204.3	5,900.0	44.3	45.0	-90.00	2,047.5	-1,100.3	367.8	283.5	84.23	4.366				
8,200.0	5,900.0	8,304.3	5,900.0	46.0	46.6	-90.00	2,147.5	-1,098.0	367.8	280.0	87.80	4.189				
8,300.0	5,900.0	8,404.3	5,900.0	47.8	48.2	-90.00	2,247.5	-1,095.7	367.8	276.4	91.39	4.024				
8,400.0	5,900.0	8,504.3	5,900.0	49.6	49.9	-90.00	2,347.4	-1,093.5	367.8	272.8	95.00	3.871				
8,500.0	5,900.0	8,604.3	5,900.0	51.4	51.6	-90.00	2,447.4	-1,091.2	367.8	269.1	98.63	3.729				
8,600.0	5,900.0	8,704.3	5,900.0	53.2	53.3	-90.00	2,547.4	-1,088.9	367.8	265.5	102.27	3.596				
8,700.0	5,900.0	8,804.3	5,900.0	55.0	55.1	-90.00	2,647.3	-1,086.6	367.8	261.8	105.93	3.472				
8,800.0	5,900.0	8,904.3	5,900.0	56.8	56.8	-90.00	2,747.3	-1,084.4	367.8	258.2	109.60	3.356				
8,900.0	5,900.0	9,004.3	5,900.0	58.6	58.5	-90.00	2,847.3	-1,082.1	367.8	254.5	113.28	3.247				
9,000.0	5,900.0	9,104.3	5,900.0	60.4	60.3	-90.00	2,947.3	-1,079.8	367.8	250.8	116.97	3.144				
9,100.0	5,900.0	9,204.3	5,900.0	62.3	62.1	-90.00	3,047.2	-1,077.5	367.8	247.1	120.67	3.048				
9,200.0	5,900.0	9,304.3	5,900.0	64.1	63.8	-90.00	3,147.2	-1,075.2	367.8	243.4	124.38	2.957				
9,300.0	5,900.0	9,404.3	5,900.0	65.9	65.6	-90.00	3,247.2	-1,073.0	367.8	239.7	128.09	2.871				
9,400.0	5,900.0	9,504.3	5,900.0	67.8	67.4	-90.00	3,347.2	-1,070.7	367.8	236.0	131.81	2.790				
9,500.0	5,900.0	9,604.3	5,900.0	69.6	69.2	-90.00	3,447.1	-1,068.4	367.8	232.2	135.54	2.713				
9,600.0	5,900.0	9,704.3	5,900.0	71.5	71.0	-90.00	3,547.1	-1,066.1	367.8	228.5	139.28	2.641				
9,700.0	5,900.0	9,804.3	5,900.0	73.3	72.8	-90.00	3,647.1	-1,063.8	367.8	224.8	143.02	2.572				
9,800.0	5,900.0	9,904.3	5,900.0	75.2	74.6	-90.00	3,747.1	-1,061.6	367.8	221.0	146.76	2.506				
9,900.0	5,900.0	10,004.3	5,900.0	77.1	76.4	-90.00	3,847.0	-1,059.3	367.8	217.3	150.51	2.443				
10,000.0	5,900.0	10,104.3	5,900.0	78.9	78.3	-90.00	3,947.0	-1,057.0	367.8	213.5	154.27	2.384				
10,100.0	5,900.0	10,204.3	5,900.0	80.8	80.1	-90.00	4,047.0	-1,054.7	367.8	209.8	158.03	2.327				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3 (3-22-22)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,200.0	5,900.0	10,304.3	5,900.0	82.7	81.9	-90.00	4,147.0	-1,052.4	367.8	206.0	161.79	2.273			
10,300.0	5,900.0	10,404.3	5,900.0	84.5	83.8	-90.00	4,246.9	-1,050.2	367.8	202.2	165.55	2.222			
10,400.0	5,900.0	10,504.3	5,900.0	86.4	85.6	-90.00	4,346.9	-1,047.9	367.8	198.5	169.32	2.172			
10,500.0	5,900.0	10,604.3	5,900.0	88.3	87.4	-90.00	4,446.9	-1,045.6	367.8	194.7	173.09	2.125			
10,600.0	5,900.0	10,704.3	5,900.0	90.2	89.3	-90.00	4,546.9	-1,043.3	367.8	190.9	176.87	2.079			
10,700.0	5,900.0	10,804.3	5,900.0	92.0	91.1	-90.00	4,646.8	-1,041.0	367.8	187.1	180.64	2.036			
10,800.0	5,900.0	10,904.3	5,900.0	93.9	93.0	-90.00	4,746.8	-1,038.8	367.8	183.4	184.42	1.994	Collision Risk Procedures Req.		
10,900.0	5,900.0	11,004.3	5,900.0	95.8	94.8	-90.00	4,846.8	-1,036.5	367.8	179.6	188.20	1.954	Collision Risk Procedures Req.		
11,000.0	5,900.0	11,104.3	5,900.0	97.7	96.7	-90.00	4,946.7	-1,034.2	367.8	175.8	191.99	1.916	Collision Risk Procedures Req.		
11,100.0	5,900.0	11,204.3	5,900.0	99.6	98.6	-90.00	5,046.7	-1,031.9	367.8	172.0	195.77	1.879	Collision Risk Procedures Req.		
11,200.0	5,900.0	11,304.3	5,900.0	101.5	100.4	-90.00	5,146.7	-1,029.6	367.8	168.2	199.56	1.843	Collision Risk Procedures Req.		
11,300.0	5,900.0	11,404.3	5,900.0	103.3	102.3	-90.00	5,246.7	-1,027.4	367.8	164.4	203.35	1.809	Collision Risk Procedures Req.		
11,400.0	5,900.0	11,504.3	5,900.0	105.2	104.2	-90.00	5,346.6	-1,025.1	367.8	160.7	207.14	1.776	Collision Risk Procedures Req.		
11,500.0	5,900.0	11,604.3	5,900.0	107.1	106.0	-90.00	5,446.6	-1,022.8	367.8	156.9	210.94	1.744	Collision Risk Procedures Req.		
11,600.0	5,900.0	11,704.3	5,900.0	109.0	107.9	-90.00	5,546.6	-1,020.5	367.8	153.1	214.73	1.713	Collision Risk Procedures Req.		
11,700.0	5,900.0	11,804.3	5,900.0	110.9	109.8	-90.00	5,646.6	-1,018.2	367.8	149.3	218.53	1.683	Collision Risk Procedures Req.		
11,800.0	5,900.0	11,904.3	5,900.0	112.8	111.6	-90.00	5,746.5	-1,016.0	367.8	145.5	222.33	1.654	Collision Risk Procedures Req.		
11,900.0	5,900.0	12,004.3	5,900.0	114.7	113.5	-90.00	5,846.5	-1,013.7	367.8	141.7	226.12	1.627	Collision Risk Procedures Req.		
12,000.0	5,900.0	12,104.3	5,900.0	116.6	115.4	-90.00	5,946.5	-1,011.4	367.8	137.9	229.93	1.600	Collision Risk Procedures Req.		
12,100.0	5,900.0	12,204.3	5,900.0	118.5	117.3	-90.00	6,046.5	-1,009.1	367.8	134.1	233.73	1.574	Collision Risk Procedures Req.		
12,200.0	5,900.0	12,304.3	5,900.0	120.4	119.1	-90.00	6,146.4	-1,006.8	367.8	130.3	237.53	1.548	Collision Risk Procedures Req.		
12,300.0	5,900.0	12,404.3	5,900.0	122.3	121.0	-90.00	6,246.4	-1,004.6	367.8	126.5	241.33	1.524	Collision Risk Procedures Req.		
12,400.0	5,900.0	12,504.3	5,900.0	124.2	122.9	-90.00	6,346.4	-1,002.3	367.8	122.7	245.14	1.500	Collision Risk Procedures Req.		
12,500.0	5,900.0	12,604.3	5,900.0	126.1	124.8	-90.00	6,446.4	-1,000.0	367.8	118.9	248.94	1.477	Collision Avoidance Req.		
12,600.0	5,900.0	12,704.3	5,900.0	128.0	126.7	-90.00	6,546.3	-997.7	367.8	115.1	252.75	1.455	Collision Avoidance Req.		
12,700.0	5,900.0	12,804.3	5,900.0	129.9	128.5	-90.00	6,646.3	-995.5	367.8	111.3	256.56	1.434	Collision Avoidance Req.		
12,800.0	5,900.0	12,904.3	5,900.0	131.8	130.4	-90.00	6,746.3	-993.2	367.8	107.4	260.37	1.413	Collision Avoidance Req.		
12,900.0	5,900.0	13,004.3	5,900.0	133.7	132.3	-90.00	6,846.3	-990.9	367.8	103.6	264.17	1.392	Collision Avoidance Req.		
13,000.0	5,900.0	13,104.3	5,900.0	135.6	134.2	-90.00	6,946.2	-988.6	367.8	99.8	267.98	1.373	Collision Avoidance Req.		
13,100.0	5,900.0	13,204.3	5,900.0	137.5	136.1	-90.00	7,046.2	-986.3	367.8	96.0	271.80	1.353	Collision Avoidance Req.		
13,200.0	5,900.0	13,304.3	5,900.0	139.4	138.0	-90.00	7,146.2	-984.1	367.8	92.2	275.61	1.335	Collision Avoidance Req.		
13,300.0	5,900.0	13,404.3	5,900.0	141.3	139.9	-90.00	7,246.2	-981.8	367.8	88.4	279.42	1.316	Collision Avoidance Req.		
13,400.0	5,900.0	13,504.3	5,900.0	143.2	141.7	-90.00	7,346.1	-979.5	367.8	84.6	283.23	1.299	Collision Avoidance Req.		
13,500.0	5,900.0	13,604.3	5,900.0	145.1	143.6	-90.00	7,446.1	-977.2	367.8	80.8	287.05	1.281	Collision Avoidance Req.		
13,600.0	5,900.0	13,704.3	5,900.0	147.0	145.5	-90.00	7,546.1	-974.9	367.8	77.0	290.86	1.265	Collision Avoidance Req.		
13,700.0	5,900.0	13,804.3	5,900.0	148.9	147.4	-90.00	7,646.0	-972.7	367.8	73.2	294.67	1.248	Collision Avoidance Req.		
13,800.0	5,900.0	13,904.3	5,900.0	150.8	149.3	-90.00	7,746.0	-970.4	367.8	69.3	298.49	1.232	Collision Avoidance Req.		
13,900.0	5,900.0	14,004.3	5,900.0	152.7	151.2	-90.00	7,846.0	-968.1	367.8	65.5	302.31	1.217	Collision Avoidance Req.		
14,000.0	5,900.0	14,104.3	5,900.0	154.6	153.1	-90.00	7,946.0	-965.8	367.8	61.7	306.12	1.202	Collision Avoidance Req.		
14,100.0	5,900.0	14,204.3	5,900.0	156.5	155.0	-90.00	8,045.9	-963.5	367.8	57.9	309.94	1.187	Collision Avoidance Req.		
14,200.0	5,900.0	14,304.3	5,900.0	158.4	156.9	-90.00	8,145.9	-961.3	367.8	54.1	313.76	1.172	Collision Avoidance Req.		
14,300.0	5,900.0	14,404.3	5,900.0	160.3	158.8	-90.00	8,245.9	-959.0	367.8	50.3	317.57	1.158	Collision Avoidance Req.		
14,400.0	5,900.0	14,504.3	5,900.0	162.2	160.7	-90.00	8,345.9	-956.7	367.8	46.4	321.39	1.145	Collision Avoidance Req.		
14,500.0	5,900.0	14,604.3	5,900.0	164.1	162.6	-90.00	8,445.8	-954.4	367.8	42.6	325.21	1.131	Collision Avoidance Req.		
14,600.0	5,900.0	14,704.3	5,900.0	166.0	164.5	-90.00	8,545.8	-952.1	367.8	38.8	329.03	1.118	Collision Avoidance Req.		
14,700.0	5,900.0	14,804.3	5,900.0	167.9	166.4	-90.00	8,645.8	-949.9	367.8	35.0	332.85	1.105	Collision Avoidance Req.		
14,800.0	5,900.0	14,904.3	5,900.0	169.8	168.3	-90.00	8,745.8	-947.6	367.8	31.2	336.67	1.093	Collision Avoidance Req.		
14,900.0	5,900.0	15,004.3	5,900.0	171.7	170.2	-90.00	8,845.7	-945.3	367.8	27.4	340.49	1.080	Collision Avoidance Req.		
15,000.0	5,900.0	15,104.3	5,900.0	173.6	172.1	-90.00	8,945.7	-943.0	367.8	23.5	344.31	1.068	Collision Avoidance Req.		
15,100.0	5,900.0	15,204.3	5,900.0	175.5	174.0	-90.00	9,045.7	-940.7	367.8	19.7	348.13	1.057	Collision Avoidance Req.		
15,200.0	5,900.0	15,304.3	5,900.0	177.5	175.9	-90.00	9,145.7	-938.5	367.8	15.9	351.95	1.045	Collision Avoidance Req.		
15,300.0	5,900.0	15,404.3	5,900.0	179.4	177.8	-90.00	9,245.6	-936.2	367.8	12.1	355.77	1.034	Collision Avoidance Req.		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-4 - Wellbore #1 Castor 12-1-4 - Plan 3 (3-22-22)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
15,400.0	5,900.0	15,504.3	5,900.0	181.3	179.7	-90.00	9,345.6	-933.9	367.8	8.2	359.60	1.023	Collision Avoidance Req.		
15,500.0	5,900.0	15,604.3	5,900.0	183.2	181.6	-90.00	9,445.6	-931.6	367.8	4.4	363.42	1.012	Collision Avoidance Req.		
15,600.0	5,900.0	15,704.3	5,900.0	185.1	183.5	-90.00	9,545.6	-929.3	367.8	0.6	367.24	1.002	Collision Avoidance Req.		
15,700.0	5,900.0	15,804.3	5,900.0	187.0	185.4	-90.00	9,645.5	-927.1	367.9	-3.2	371.07	0.991	No-Go Zone - Stop Drilling		
15,800.0	5,900.0	15,904.3	5,900.0	188.9	187.3	-90.00	9,745.5	-924.8	367.9	-7.0	374.89	0.981	No-Go Zone - Stop Drilling		
15,900.0	5,900.0	16,004.3	5,900.0	190.8	189.2	-90.00	9,845.5	-922.5	367.9	-10.9	378.71	0.971	No-Go Zone - Stop Drilling		
15,908.6	5,900.0	16,012.9	5,900.0	191.0	189.3	-90.00	9,854.0	-922.3	367.9	-11.2	379.04	0.970	No-Go Zone - Stop Drilling		
15,999.3	5,900.0	16,096.7	5,900.0	192.7	190.9	-90.00	9,937.8	-920.4	367.9	-15.0	382.88	0.961	No-Go Zone - Stop Drilling, ES, SF		

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-8 - Wellbore #1 Castor 12-1-8 - Plan 3 REV 1 (5-4-2)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	29.78	149.0	85.3	171.7						
100.0	100.0	100.0	100.0	0.2	0.2	29.78	149.0	85.3	171.7	171.2	0.45	381.906			
200.0	200.0	200.0	200.0	0.4	0.4	29.78	149.0	85.3	171.7	170.8	0.90	190.953			
300.0	300.0	300.0	300.0	0.7	0.7	29.78	149.0	85.3	171.7	170.3	1.35	127.302			
400.0	400.0	400.0	400.0	0.9	0.9	29.78	149.0	85.3	171.7	169.9	1.80	95.476			
500.0	500.0	500.0	500.0	1.1	1.1	29.78	149.0	85.3	171.7	169.4	2.25	76.381			
600.0	600.0	603.7	603.7	1.3	1.3	30.28	147.3	86.0	170.6	167.9	2.68	63.677			
700.0	700.0	707.2	707.0	1.6	1.5	31.82	142.1	88.2	167.4	164.3	3.10	54.015			
800.0	800.0	810.1	809.5	1.8	1.7	34.50	133.6	91.8	162.3	158.8	3.54	45.865			
900.0	900.0	909.9	908.6	2.0	2.0	37.96	123.2	96.1	156.5	152.5	4.00	39.141			
1,000.0	1,000.0	1,009.2	1,007.4	2.2	2.2	41.66	112.9	100.5	151.3	146.9	4.48	33.797			
1,100.0	1,100.0	1,108.6	1,106.1	2.5	2.5	45.61	102.6	104.8	146.8	141.8	4.97	29.526			
1,199.2	1,199.2	1,207.2	1,204.0	2.7	2.8	165.56	92.4	109.1	144.7	139.3	5.46	26.529 CC			
1,200.0	1,200.0	1,208.0	1,204.8	2.7	2.8	165.60	92.3	109.2	144.7	139.3	5.46	26.509 ES			
1,300.0	1,299.8	1,307.2	1,303.4	2.9	3.1	170.26	82.0	113.5	147.0	141.0	5.94	24.725			
1,400.0	1,399.5	1,406.2	1,401.8	3.1	3.4	174.86	71.7	117.8	153.6	147.2	6.44	23.851			
1,500.0	1,498.7	1,504.9	1,499.9	3.3	3.7	179.08	61.5	122.2	164.6	157.7	6.94	23.711 SF			
1,600.0	1,597.5	1,603.1	1,597.5	3.6	4.0	-177.27	51.3	126.4	179.9	172.5	7.45	24.142			
1,700.0	1,695.7	1,700.9	1,694.6	3.9	4.3	-174.28	41.2	130.7	198.7	190.8	7.97	24.947			
1,800.0	1,793.9	1,798.5	1,791.7	4.2	4.6	-171.83	31.1	135.0	218.3	209.9	8.48	25.755			
1,900.0	1,892.1	1,896.2	1,888.7	4.5	4.9	-169.79	20.9	139.3	238.3	229.3	9.00	26.485			
2,000.0	1,990.3	1,993.9	1,985.7	4.9	5.2	-168.06	10.8	143.5	258.5	248.9	9.52	27.140			
2,100.0	2,088.5	2,091.5	2,082.8	5.3	5.5	-166.58	0.7	147.8	278.8	268.8	10.06	27.727			
2,200.0	2,186.7	2,189.2	2,179.8	5.6	5.8	-165.30	-9.5	152.1	299.4	288.8	10.60	28.251			
2,300.0	2,284.8	2,286.9	2,276.9	6.0	6.1	-164.19	-19.6	156.3	320.0	308.9	11.14	28.720			
2,400.0	2,383.0	2,384.5	2,373.9	6.4	6.4	-163.21	-29.7	160.6	340.8	329.1	11.69	29.140			
2,500.0	2,481.2	2,482.2	2,471.0	6.8	6.7	-162.34	-39.9	164.9	361.6	349.3	12.25	29.518			
2,600.0	2,579.4	2,579.9	2,568.0	7.2	7.0	-161.57	-50.0	169.2	382.5	369.7	12.81	29.857			
2,700.0	2,677.6	2,677.5	2,665.1	7.6	7.3	-160.88	-60.1	173.4	403.5	390.1	13.38	30.164			
2,800.0	2,775.8	2,775.2	2,762.1	8.0	7.6	-160.25	-70.3	177.7	424.5	410.6	13.94	30.441			
2,900.0	2,874.0	2,872.9	2,859.2	8.4	7.9	-159.69	-80.4	182.0	445.6	431.0	14.52	30.693			
3,000.0	2,972.2	2,970.5	2,956.2	8.9	8.2	-159.17	-90.5	186.2	466.7	451.6	15.09	30.922			
3,100.0	3,070.3	3,068.2	3,053.2	9.3	8.5	-158.70	-100.6	190.5	487.8	472.1	15.67	31.132			
3,200.0	3,168.5	3,165.9	3,150.3	9.7	8.8	-158.27	-110.8	194.8	509.0	492.7	16.25	31.323			
3,300.0	3,266.7	3,263.5	3,247.3	10.1	9.1	-157.88	-120.9	199.0	530.1	513.3	16.83	31.499			
3,400.0	3,364.9	3,361.2	3,344.4	10.5	9.4	-157.51	-131.0	203.3	551.4	533.9	17.41	31.661			
3,500.0	3,463.1	3,458.9	3,441.4	11.0	9.7	-157.17	-141.2	207.6	572.6	554.6	18.00	31.810			
3,600.0	3,561.3	3,556.5	3,538.5	11.4	10.0	-156.86	-151.3	211.9	593.8	575.3	18.59	31.948			
3,700.0	3,659.5	3,654.2	3,635.5	11.8	10.3	-156.56	-161.4	216.1	615.1	595.9	19.18	32.076			
3,800.0	3,757.6	3,751.9	3,732.6	12.2	10.6	-156.29	-171.6	220.4	636.4	616.6	19.77	32.194			
3,900.0	3,855.8	3,849.5	3,829.6	12.7	10.9	-156.04	-181.7	224.7	657.7	637.3	20.36	32.305			
4,000.0	3,954.0	3,947.2	3,926.7	13.1	11.3	-155.80	-191.8	228.9	679.0	658.0	20.95	32.408			
4,100.0	4,052.2	4,044.9	4,023.7	13.5	11.6	-155.57	-202.0	233.2	700.3	678.7	21.54	32.504			
4,200.0	4,150.4	4,142.5	4,120.7	13.9	11.9	-155.36	-212.1	237.5	721.6	699.5	22.14	32.594			
4,300.0	4,248.6	4,240.2	4,217.8	14.4	12.2	-155.16	-222.2	241.7	743.0	720.2	22.74	32.679			
4,400.0	4,346.8	4,337.9	4,314.8	14.8	12.5	-154.97	-232.3	246.0	764.3	741.0	23.33	32.758			
4,500.0	4,445.0	4,435.5	4,411.9	15.2	12.8	-154.79	-242.5	250.3	785.6	761.7	23.93	32.833			
4,600.0	4,543.1	4,533.2	4,508.9	15.6	13.1	-154.62	-252.6	254.6	807.0	782.5	24.53	32.903			
4,700.0	4,641.3	4,630.9	4,606.0	16.1	13.4	-154.46	-262.7	258.8	828.4	803.2	25.13	32.969			
4,800.0	4,739.5	4,728.5	4,703.0	16.5	13.7	-154.31	-272.9	263.1	849.7	824.0	25.72	33.032			
4,900.0	4,837.7	4,826.2	4,800.1	16.9	14.0	-154.17	-283.0	267.4	871.1	844.8	26.32	33.091			
5,000.0	4,935.9	4,923.9	4,897.1	17.4	14.3	-154.03	-293.1	271.6	892.5	865.6	26.92	33.147			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-8 - Wellbore #1 Castor 12-1-8 - Plan 3 REV 1 (5-4-2	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,100.0	5,034.1	5,021.5	4,994.2	17.8	14.6	-153.90	-303.3	275.9	913.9	886.3	27.53	33.200			
5,200.0	5,132.3	5,119.2	5,091.2	18.2	14.9	-153.77	-313.4	280.2	935.2	907.1	28.13	33.251			
5,300.0	5,230.4	5,216.9	5,188.2	18.7	15.2	-153.65	-323.5	284.5	956.6	927.9	28.73	33.299			
5,400.0	5,328.7	5,314.0	5,284.8	19.1	15.5	-177.02	-333.4	288.7	978.0	948.7	29.29	33.386			
5,500.0	5,426.9	5,409.0	5,379.6	19.3	15.7	134.03	-332.7	293.1	999.3	969.8	29.58	33.784			

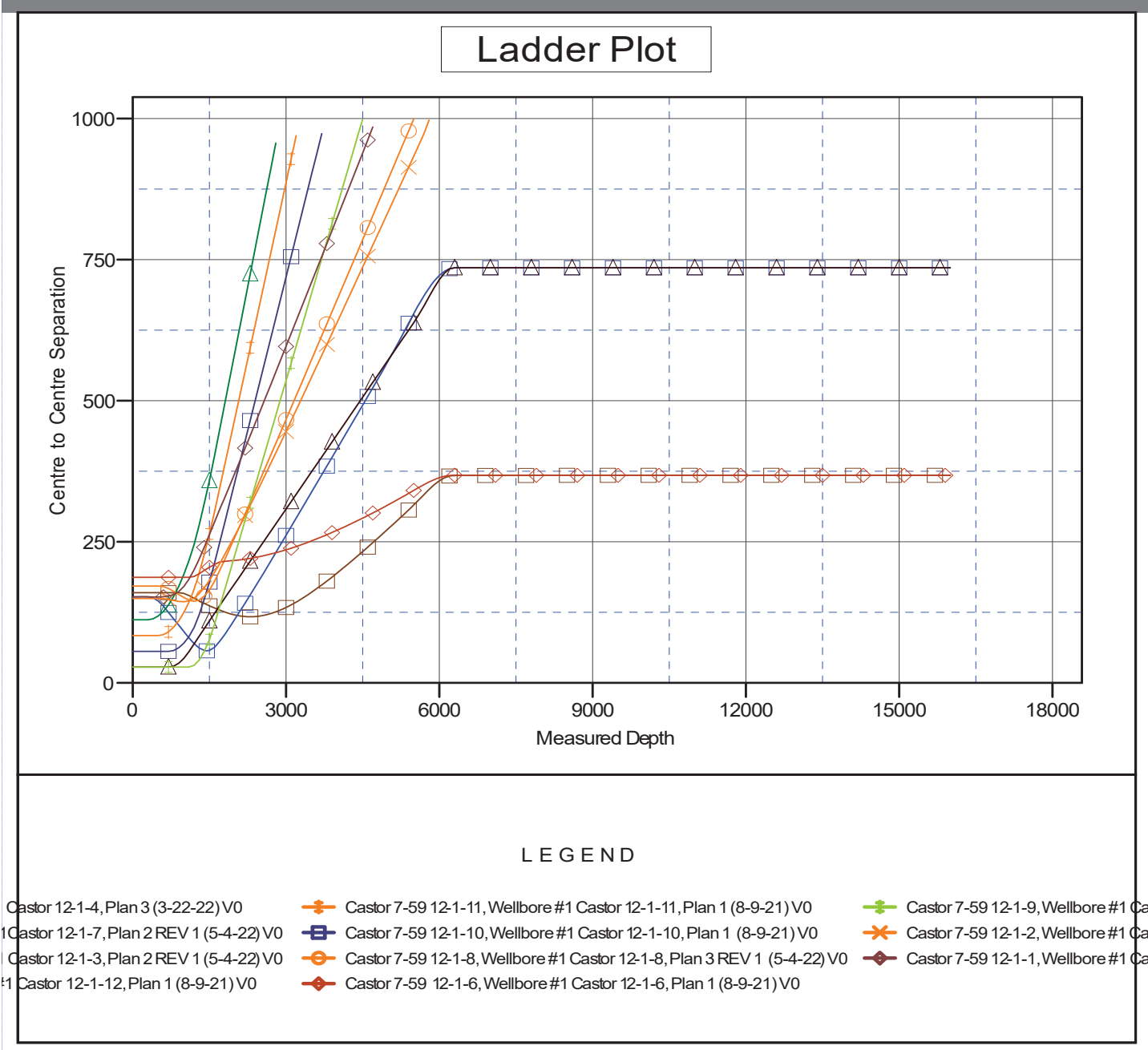
Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Offset Design													Castor Pad 12 SEC.12-7N-59W - Castor 7-59 12-1-9 - Wellbore #1 Castor 12-1-9 - Plan 1 (8-9-21)	Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.74	-0.4	28.1	28.1						
100.0	100.0	100.0	100.0	0.2	0.2	90.74	-0.4	28.1	28.1	27.6	0.45	62.412			
200.0	200.0	200.0	200.0	0.4	0.4	90.74	-0.4	28.1	28.1	27.2	0.90	31.206			
300.0	300.0	300.0	300.0	0.7	0.7	90.74	-0.4	28.1	28.1	26.7	1.35	20.804			
400.0	400.0	400.0	400.0	0.9	0.9	90.74	-0.4	28.1	28.1	26.3	1.80	15.603			
500.0	500.0	500.0	500.0	1.1	1.1	90.74	-0.4	28.1	28.1	25.8	2.25	12.482			
600.0	600.0	600.0	600.0	1.3	1.3	90.74	-0.4	28.1	28.1	25.4	2.70	10.402			
700.0	700.0	700.0	700.0	1.6	1.6	90.74	-0.4	28.1	28.1	24.9	3.15	8.916			
800.0	800.0	800.0	800.0	1.8	1.8	90.74	-0.4	28.1	28.1	24.5	3.60	7.801			
900.0	900.0	900.0	900.0	2.0	2.0	90.74	-0.4	28.1	28.1	24.0	4.05	6.935			
1,000.0	1,000.0	1,000.0	1,000.0	2.2	2.2	90.74	-0.4	28.1	28.1	23.6	4.50	6.241			
1,100.0	1,100.0	1,100.0	1,100.0	2.5	2.5	90.74	-0.4	28.1	28.1	23.1	4.94	5.674	CC, ES, SF		
1,200.0	1,200.0	1,199.1	1,199.0	2.7	2.7	-153.44	-1.2	29.5	31.1	25.8	5.35	5.816			
1,300.0	1,299.8	1,297.6	1,297.4	2.9	2.9	-153.06	-3.8	33.9	40.3	34.6	5.73	7.038			
1,400.0	1,399.5	1,395.0	1,394.5	3.1	3.1	-152.66	-8.1	41.1	55.5	49.4	6.11	9.085			
1,500.0	1,498.7	1,490.8	1,489.6	3.3	3.3	-152.32	-13.9	51.0	76.7	70.2	6.51	11.785			
1,600.0	1,597.5	1,584.8	1,582.5	3.6	3.5	-152.03	-21.1	63.3	103.6	96.7	6.92	14.984			
1,700.0	1,695.7	1,680.1	1,676.4	3.9	3.8	-152.24	-29.1	76.8	134.2	126.8	7.36	18.224			
1,800.0	1,793.9	1,775.2	1,770.3	4.2	4.1	-152.52	-37.0	90.3	165.1	157.3	7.82	21.122			
1,900.0	1,892.1	1,870.3	1,864.1	4.5	4.4	-152.71	-45.0	103.8	196.0	187.7	8.28	23.657			
2,000.0	1,990.3	1,965.4	1,957.9	4.9	4.7	-152.85	-52.9	117.2	226.8	218.1	8.76	25.890			
2,100.0	2,088.5	2,060.5	2,051.7	5.3	5.0	-152.96	-60.9	130.7	257.7	248.5	9.26	27.847			
2,200.0	2,186.7	2,155.6	2,145.5	5.6	5.3	-153.04	-68.8	144.2	288.6	278.9	9.76	29.581			
2,300.0	2,284.8	2,250.7	2,239.3	6.0	5.6	-153.11	-76.8	157.7	319.5	309.2	10.27	31.121			
2,400.0	2,383.0	2,345.8	2,333.1	6.4	6.0	-153.16	-84.7	171.2	350.4	339.6	10.78	32.495			
2,500.0	2,481.2	2,440.9	2,427.0	6.8	6.3	-153.21	-92.7	184.7	381.3	370.0	11.31	33.725			
2,600.0	2,579.4	2,536.0	2,520.8	7.2	6.7	-153.25	-100.6	198.1	412.1	400.3	11.83	34.830			
2,700.0	2,677.6	2,631.2	2,614.6	7.6	7.0	-153.28	-108.6	211.6	443.0	430.7	12.37	35.828			
2,800.0	2,775.8	2,726.3	2,708.4	8.0	7.4	-153.31	-116.5	225.1	473.9	461.0	12.90	36.733			
2,900.0	2,874.0	2,821.4	2,802.2	8.4	7.7	-153.34	-124.5	238.6	504.8	491.4	13.44	37.555			
3,000.0	2,972.2	2,916.5	2,896.0	8.9	8.1	-153.36	-132.4	252.1	535.7	521.7	13.99	38.305			
3,100.0	3,070.3	3,011.6	2,989.8	9.3	8.4	-153.38	-140.4	265.6	566.6	552.0	14.53	38.991			
3,200.0	3,168.5	3,106.7	3,083.7	9.7	8.8	-153.40	-148.3	279.0	597.5	582.4	15.08	39.621			
3,300.0	3,266.7	3,201.8	3,177.5	10.1	9.1	-153.42	-156.3	292.5	628.3	612.7	15.63	40.201			
3,400.0	3,364.9	3,296.9	3,271.3	10.5	9.5	-153.43	-164.2	306.0	659.2	643.1	16.18	40.736			
3,500.0	3,463.1	3,392.0	3,365.1	11.0	9.9	-153.45	-172.2	319.5	690.1	673.4	16.74	41.232			
3,600.0	3,561.3	3,487.2	3,458.9	11.4	10.2	-153.46	-180.1	333.0	721.0	703.7	17.29	41.691			
3,700.0	3,659.5	3,582.3	3,552.7	11.8	10.6	-153.47	-188.0	346.5	751.9	734.0	17.85	42.119			
3,800.0	3,757.6	3,677.4	3,646.5	12.2	10.9	-153.48	-196.0	360.0	782.8	764.4	18.41	42.517			
3,900.0	3,855.8	3,772.5	3,740.4	12.7	11.3	-153.49	-203.9	373.4	813.7	794.7	18.97	42.889			
4,000.0	3,954.0	3,867.6	3,834.2	13.1	11.7	-153.50	-211.9	386.9	844.6	825.0	19.53	43.237			
4,100.0	4,052.2	3,962.7	3,928.0	13.5	12.0	-153.51	-219.8	400.4	875.4	855.3	20.10	43.563			
4,200.0	4,150.4	4,057.8	4,021.8	13.9	12.4	-153.52	-227.8	413.9	906.3	885.7	20.66	43.869			
4,300.0	4,248.6	4,152.9	4,115.6	14.4	12.8	-153.52	-235.7	427.4	937.2	916.0	21.22	44.157			
4,400.0	4,346.8	4,248.0	4,209.4	14.8	13.1	-153.53	-243.7	440.9	968.1	946.3	21.79	44.429			
4,500.0	4,445.0	4,343.2	4,303.2	15.2	13.5	-153.54	-251.6	454.3	999.0	976.6	22.36	44.685			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4892.0ft (Original Well Elev) Coordinates are relative to: Castor 7--59 12-1-5
 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: 1.02°



Company:	Summit Oil & Gas	Local Co-ordinate Reference:	Well Castor 7--59 12-1-5
Project:	SEC.12-T7N-R59W	TVD Reference:	WELL @ 4892.0ft (Original Well Elev)
Reference Site:	Castor Pad 12 SEC.12-7N-59W	MD Reference:	WELL @ 4892.0ft (Original Well Elev)
Site Error:	0.0 ft	North Reference:	True
Reference Well:	Castor 7--59 12-1-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1 Castor 12-1-5	Database:	US_EDM
Reference Design:	Plan 2 REV 1 (5-4-22)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4892.0ft (Original Well Elev) Coordinates are relative to: Castor 7--59 12-1-5
 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: 1.02°

