

**5D Plan Report****ANADARKO**

Field Name: *WATTENBURG_NAD83*
Site Name: *GEE 15C-25HZ PAD*
Well Name: *GEE 15C-25HZ*
Plan: *PLAN 1*





Weatherford®

Plan Data for GEE 15C-25HZ

Field: WATTENBURG_NAD83

Map Unit: USft

Vertical Reference Datum (VRD): Mean Sea Level

Projected Coordinate System: NAD83 / Colorado North (ftUS)

Site: GEE 15C-25HZ PAD

Unit: USFeet

TVD Reference:

Company Name: ANADARKO

Position:

Northing: 1290361.43USft Latitude: 40.128524°

Easting: 3185826.54USft Longitude: -104.835439°

North Reference: True Grid Convergence: 0.43°

Elevation Above VRD: 4859.00USft

Slot: GEE 15C-25HZ

Position:

Offset is from Site centre

+N/-S: 57.92USft Northing: 1290419.46USft Latitude: 40.128683°

+E/-W: 15.38USft Easting: 3185841.49USft Longitude: -104.835384°

Elevation Above VRD: 4859.00USft

Well: GEE 15C-25HZ

Type: Main-Well

File Number:

Vertical Section: Position offset of origin from Slot centre:

+N/-S: -57.92USft Azimuth: 180.08°

+E/-W: -15.38USft

Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:

BGGM 52735(nT) 8.63° 66.74° 2013-07-08

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface	Build	Turn
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(DLSU)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
2912.61	10.25	348.17	2909.88	44.77	-9.38	-44.75	2.00	348.2	2.00	0.00
6371.12	10.25	348.17	6313.17	647.23	-135.62	-647.04	0.00	0.0	0.00	0.00
6883.73	0.00	0.00	6823.05	692.00	-145.00	-691.80	2.00	180.0	-2.00	0.00
7780.26	89.65	180.08	7396.00	122.52	-145.79	-122.31	10.00	180.1	10.00	0.00
17673.28	89.65	180.08	7456.00	-9770.32	-159.44	9770.53	0.00	0.0	0.00	0.00

Target Set Information:

Name: GEE 15C-25HZ

Name TVD Lat Long

(USft) (°) (°)

PBHL 7456.00 40.101862 -104.835954

LINER - 6783.73' MD

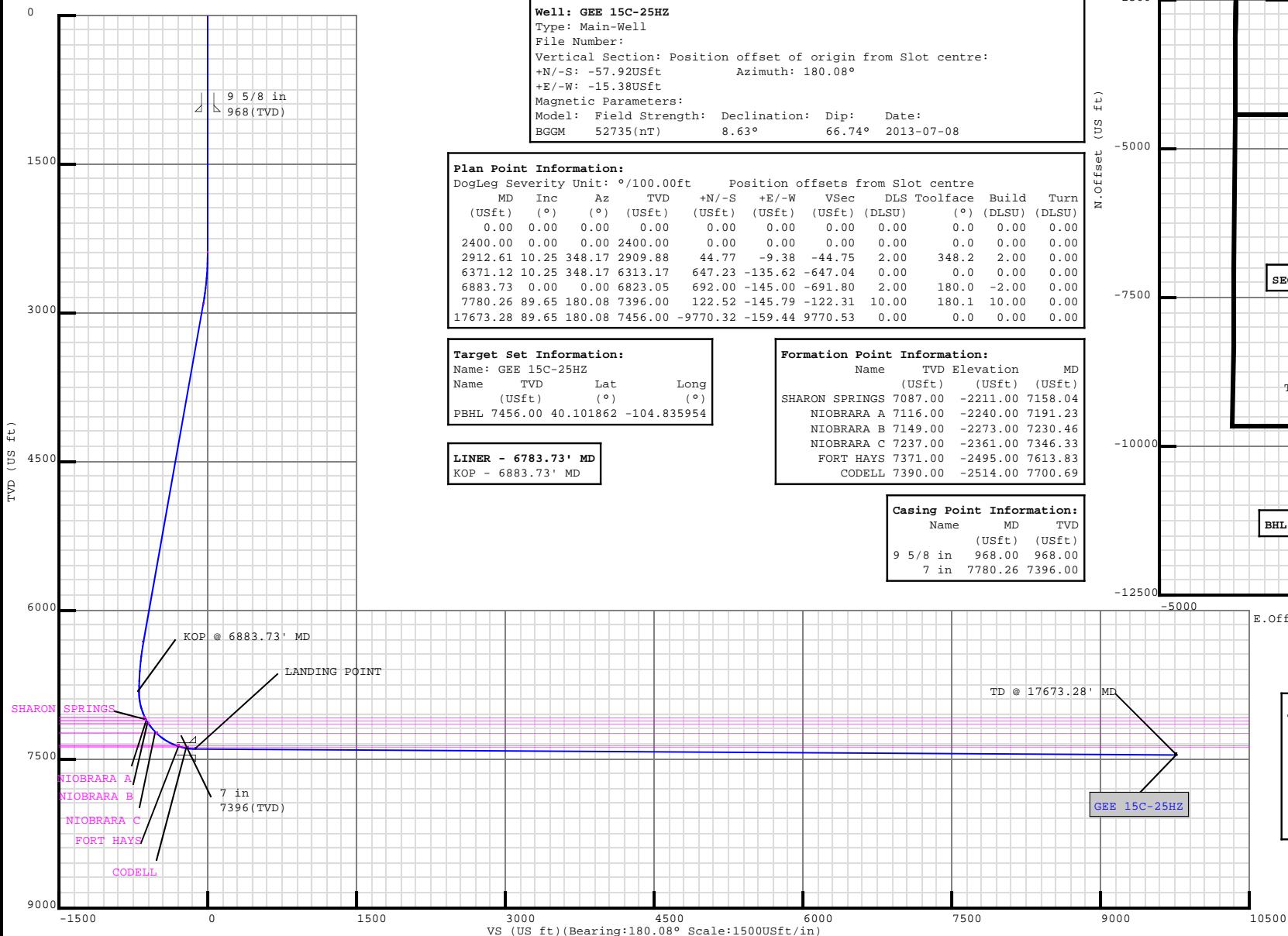
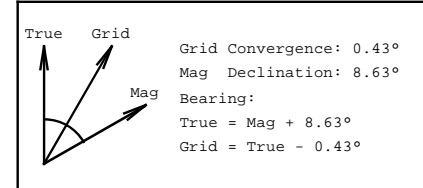
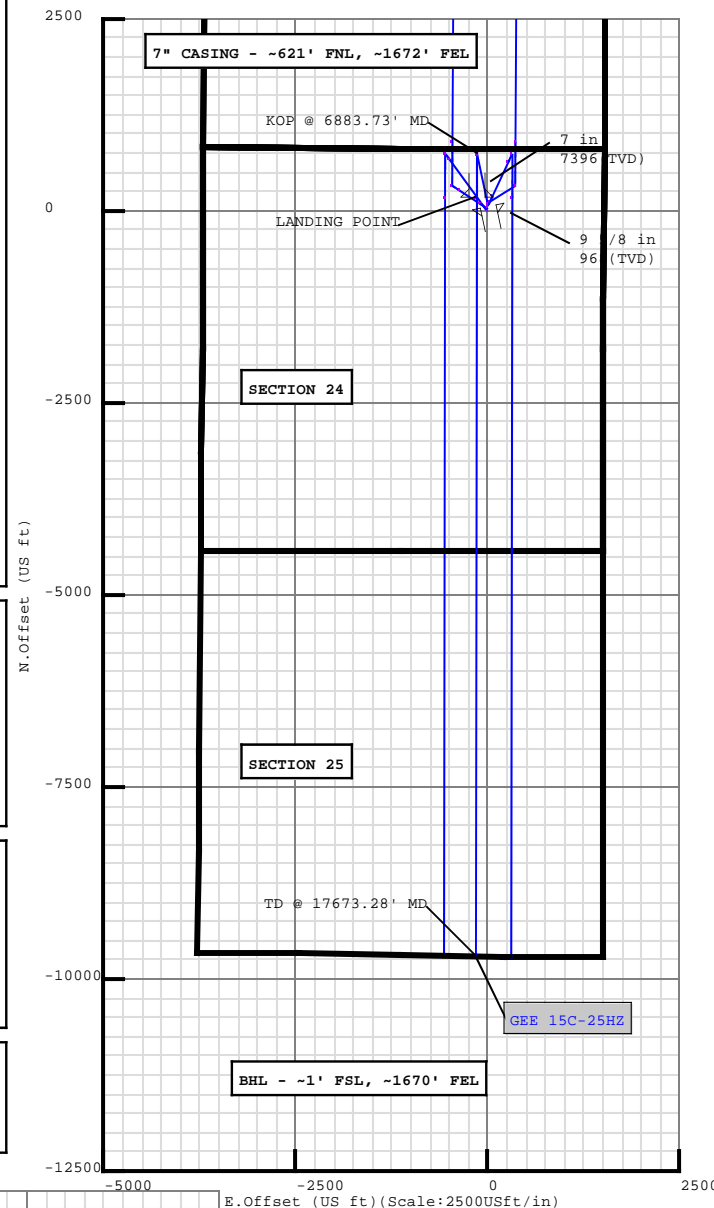
KOP - 6883.73' MD

Formation Point Information:

Name	TVD	Elevation	MD
(USft)	(USft)	(USft)	(USft)
SHARON SPRINGS	7087.00	-2211.00	7158.04
NIOBRARA A	7116.00	-2240.00	7191.23
NIOBRARA B	7149.00	-2273.00	7230.46
NIOBRARA C	7237.00	-2361.00	7346.33
FORT HAYS	7371.00	-2495.00	7613.83
CODELL	7390.00	-2514.00	7700.69

Casing Point Information:

Name	MD	TVD
(USft)	(USft)	(USft)
9 5/8 in	968.00	968.00
7 in	7780.26	7396.00



Plan Surveys for the GEE 15C-25HZ

Site Name GEE 15C-25HZ PAD	Units : US ft	North Reference : True	Convergence Angle : 0.43
	Position	Northing : 1290361.43 US ft	Latitude : 40.128524
		Easting : 3185826.54 US ft	Longitude : -104.835439
	Elevation above: 4859.00 US ft Comment :		
Slot Name GEE 15C-25HZ	Position (Offsets relative to Site Centre)		
	+N / -S : 57.92 US ft	Northing : 1290419.46 US ft	Latitude : 40.128683
	+E / -W : 15.38 US ft	Easting : 3185841.49 US ft	Longitude : -104.835384
	Slot TVD Reference : Ground Elevation Elevation above : 4859.00 US ft Comment :		
Well Name GEE 15C-25HZ	Type : Main well	UWI :	Plan : PLAN 1
	Rig Height <i>Drill Floor</i> : 17.00 US ft	Comment :	
	Relative to : 4876.00 US ft		
	Closure Distance : 9771.62 US ft	Closure Azimuth : 180.935°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : -57.92 US ft	+E / -W : -15.38 US ft	Az : 180.08°
	Magnetic Parameters		
	Model : BGGM	Field Strength : 52735.4nT	Dec : 8.63°
		Dip : 66.74°	Date : 08/Jul/2013

Target Set

Name : GEE 15C-25HZ

Number of Targets : 1

Comment :

TargetName:	Position (Relative to centre)			
PBHL	+N / -S : -9770.32US ft		Northing : 1280648.22 US ft	
	+E / -W : -159.44 US ft		Easting : 3185755.27US ft	
Shape:	Longitude : -104°50'9.434400"			
Cuboid	TVD (Drill Floor) : 7456.00 US ft			
	Orientation	Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Casing Points (Relative to centre, TVD relative to Drill Floor)									
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	
9 5/8 in	968.00	0.00	0.00	968.00	0.00	0.00	40.128683	-104.835384	
7 in	7780.26	89.65	180.08	7396.00	122.51	-145.79	40.129019	-104.835905	

Well path created using minimum curvature

Salient Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-57.94	
968.00	0.00	0.00	968.00	0.00	0.00	0.00	0.00	-57.94	9 5/8 in
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	-57.94	
2912.61	10.25	348.17	2909.88	44.77	-9.38	2.00	348.17	-102.69	
6371.12	10.25	348.17	6313.17	647.23	-135.62	0.00	0.00	-704.98	
6883.73	0.00	0.00	6823.05	692.00	-145.00	2.00	180.00	-749.74	KOP @ 6883.73' MD
7158.04	27.43	180.08	7087.00	627.58	-145.09	10.00	180.08	-685.32	SHARON SPRINGS :
7191.23	30.75	180.08	7116.00	611.45	-145.11	10.00	0.00	-669.18	NIOBRARA A :
7230.46	34.67	180.08	7149.00	590.25	-145.14	10.00	0.00	-647.99	NIOBRARA B :
7346.33	46.26	180.08	7237.00	515.18	-145.24	10.00	0.00	-572.92	NIOBRARA C :
7613.83	73.01	180.08	7371.00	286.47	-145.56	10.00	0.00	-344.21	FORT HAYS :
7700.69	81.70	180.08	7390.00	201.80	-145.68	10.00	0.00	-259.53	CODELL :
7780.26	89.65	180.08	7396.00	122.52	-145.79	10.00	0.00	-180.25	LANDING POINT
7780.26	89.65	180.08	7396.00	122.51	-145.79	0.00	0.00	-180.25	7 in
17673.28	89.65	180.08	7456.00	-9770.32	-159.44	0.00	0.00	9712.59	TD @ 17673.28' MD

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Interpolated Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-57.94	9 5/8 in
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	-57.94	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	-57.94	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	-57.94	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	-57.94	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	-57.94	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	-57.94	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	-57.94	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	-57.94	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	-57.94	
968.00	0.00	0.00	968.00	0.00	0.00	0.00	0.00	-57.94	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	-57.94	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	-57.94	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	-57.94	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	-57.94	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	-57.94	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	-57.94	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	-57.94	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	-57.94	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	-57.94	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	-57.94	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	-57.94	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	-57.94	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	-57.94	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	-57.94	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	-57.94	
2500.00	2.00	348.17	2499.98	1.71	-0.36	2.00	348.17	-59.65	
2600.00	4.00	348.17	2599.84	6.83	-1.43	2.00	0.00	-64.77	
2700.00	6.00	348.17	2699.45	15.36	-3.22	2.00	0.00	-73.30	
2800.00	8.00	348.17	2798.70	27.29	-5.72	2.00	0.00	-85.22	
2900.00	10.00	348.17	2897.47	42.60	-8.93	2.00	0.00	-100.53	
2912.61	10.25	348.17	2909.88	44.77	-9.38	2.00	0.00	-102.69	
3000.00	10.25	348.17	2995.87	59.99	-12.57	0.00	0.00	-117.91	
3100.00	10.25	348.17	3094.28	77.41	-16.22	0.00	0.00	-135.33	
3200.00	10.25	348.17	3192.68	94.83	-19.87	0.00	0.00	-152.74	
3300.00	10.25	348.17	3291.08	112.25	-23.52	0.00	0.00	-170.16	
3400.00	10.25	348.17	3389.49	129.67	-27.17	0.00	0.00	-187.57	
3500.00	10.25	348.17	3487.89	147.09	-30.82	0.00	0.00	-204.99	
3600.00	10.25	348.17	3586.29	164.51	-34.47	0.00	0.00	-222.40	
3700.00	10.25	348.17	3684.70	181.93	-38.12	0.00	0.00	-239.82	
3800.00	10.25	348.17	3783.10	199.35	-41.77	0.00	0.00	-257.23	

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Interpolated Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
3900.00	10.25	348.17	3881.50	216.77	-45.42	0.00	0.00	-274.65	
4000.00	10.25	348.17	3979.91	234.19	-49.07	0.00	0.00	-292.06	
4100.00	10.25	348.17	4078.31	251.61	-52.72	0.00	0.00	-309.47	
4200.00	10.25	348.17	4176.71	269.03	-56.37	0.00	0.00	-326.89	
4300.00	10.25	348.17	4275.12	286.45	-60.02	0.00	0.00	-344.30	
4400.00	10.25	348.17	4373.52	303.87	-63.67	0.00	0.00	-361.72	
4500.00	10.25	348.17	4471.92	321.29	-67.32	0.00	0.00	-379.13	
4600.00	10.25	348.17	4570.33	338.71	-70.97	0.00	0.00	-396.55	
4700.00	10.25	348.17	4668.73	356.13	-74.62	0.00	0.00	-413.96	
4800.00	10.25	348.17	4767.13	373.55	-78.27	0.00	0.00	-431.38	
4900.00	10.25	348.17	4865.54	390.97	-81.92	0.00	0.00	-448.79	
5000.00	10.25	348.17	4963.94	408.39	-85.57	0.00	0.00	-466.21	
5100.00	10.25	348.17	5062.34	425.81	-89.22	0.00	0.00	-483.62	
5200.00	10.25	348.17	5160.75	443.23	-92.87	0.00	0.00	-501.04	
5300.00	10.25	348.17	5259.15	460.65	-96.52	0.00	0.00	-518.45	
5400.00	10.25	348.17	5357.56	478.07	-100.17	0.00	0.00	-535.87	
5500.00	10.25	348.17	5455.96	495.49	-103.82	0.00	0.00	-553.28	
5600.00	10.25	348.17	5554.36	512.91	-107.47	0.00	0.00	-570.69	
5700.00	10.25	348.17	5652.77	530.32	-111.12	0.00	0.00	-588.11	
5800.00	10.25	348.17	5751.17	547.74	-114.77	0.00	0.00	-605.52	
5900.00	10.25	348.17	5849.57	565.16	-118.42	0.00	0.00	-622.94	
6000.00	10.25	348.17	5947.98	582.58	-122.07	0.00	0.00	-640.35	
6100.00	10.25	348.17	6046.38	600.00	-125.72	0.00	0.00	-657.77	
6200.00	10.25	348.17	6144.78	617.42	-129.37	0.00	0.00	-675.18	
6300.00	10.25	348.17	6243.19	634.84	-133.02	0.00	0.00	-692.60	
6371.12	10.25	348.17	6313.17	647.23	-135.62	0.00	0.00	-704.98	
6400.00	9.67	348.17	6341.61	652.12	-136.64	2.00	180.00	-709.87	
6500.00	7.67	348.17	6440.47	666.88	-139.74	2.00	180.00	-724.63	
6600.00	5.67	348.17	6539.78	678.26	-142.12	2.00	180.00	-736.00	
6700.00	3.67	348.17	6639.45	686.24	-143.79	2.00	180.00	-743.97	
6800.00	1.67	348.17	6739.33	690.80	-144.75	2.00	180.00	-748.54	
6883.73	0.00	0.00	6823.05	692.00	-145.00	2.00	180.00	-749.74	KOP @ 6883.73' MD
6900.00	1.63	180.08	6839.32	691.77	-145.00	10.00	180.08	-749.51	
7000.00	11.63	180.08	6938.52	680.24	-145.02	10.00	0.00	-737.98	
7100.00	21.63	180.08	7034.22	651.67	-145.06	10.00	0.00	-709.40	
7158.04	27.43	180.08	7087.00	627.58	-145.09	10.00	0.00	-685.32	SHARON SPRINGS :
7191.23	30.75	180.08	7116.00	611.45	-145.11	10.00	0.00	-669.18	NIOBRARA A :
7200.00	31.63	180.08	7123.50	606.90	-145.12	10.00	0.00	-664.64	
7230.46	34.67	180.08	7149.00	590.25	-145.14	10.00	0.00	-647.99	NIOBRARA B :
7300.00	41.63	180.08	7203.65	547.32	-145.20	10.00	0.00	-605.06	
7346.33	46.26	180.08	7237.00	515.18	-145.24	10.00	0.00	-572.92	NIOBRARA C :

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Interpolated Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
7400.00	51.63	180.08	7272.24	474.72	-145.30	10.00	0.00	-532.46	
7500.00	61.63	180.08	7327.18	391.32	-145.42	10.00	0.00	-449.06	
7600.00	71.63	180.08	7366.80	299.64	-145.54	10.00	0.00	-357.38	
7613.83	73.01	180.08	7371.00	286.47	-145.56	10.00	0.00	-344.21	FORT HAYS :
7700.00	81.63	180.08	7389.90	202.48	-145.68	10.00	0.00	-260.21	
7700.69	81.70	180.08	7390.00	201.80	-145.68	10.00	0.00	-259.53	CODELL :
7780.26	89.65	180.08	7396.00	122.52	-145.79	10.00	0.00	-180.25	LANDING POINT
7780.26	89.65	180.08	7396.00	122.51	-145.79	0.00	0.00	-180.25	7 in
7800.00	89.65	180.08	7396.12	102.77	-145.81	0.00	0.00	-160.51	
7900.00	89.65	180.08	7396.72	2.78	-145.95	0.00	0.00	-60.51	
8000.00	89.65	180.08	7397.33	-97.22	-146.09	0.00	0.00	39.49	
8100.00	89.65	180.08	7397.94	-197.22	-146.23	0.00	0.00	139.48	
8200.00	89.65	180.08	7398.54	-297.22	-146.37	0.00	0.00	239.48	
8300.00	89.65	180.08	7399.15	-397.22	-146.50	0.00	0.00	339.48	
8400.00	89.65	180.08	7399.76	-497.21	-146.64	0.00	0.00	439.48	
8500.00	89.65	180.08	7400.36	-597.21	-146.78	0.00	0.00	539.48	
8600.00	89.65	180.08	7400.97	-697.21	-146.92	0.00	0.00	639.47	
8700.00	89.65	180.08	7401.58	-797.21	-147.06	0.00	0.00	739.47	
8800.00	89.65	180.08	7402.18	-897.21	-147.19	0.00	0.00	839.47	
8900.00	89.65	180.08	7402.79	-997.20	-147.33	0.00	0.00	939.47	
9000.00	89.65	180.08	7403.40	-1097.20	-147.47	0.00	0.00	1039.47	
9100.00	89.65	180.08	7404.00	-1197.20	-147.61	0.00	0.00	1139.47	
9200.00	89.65	180.08	7404.61	-1297.20	-147.75	0.00	0.00	1239.46	
9300.00	89.65	180.08	7405.21	-1397.20	-147.88	0.00	0.00	1339.46	
9400.00	89.65	180.08	7405.82	-1497.19	-148.02	0.00	0.00	1439.46	
9500.00	89.65	180.08	7406.43	-1597.19	-148.16	0.00	0.00	1539.46	
9600.00	89.65	180.08	7407.03	-1697.19	-148.30	0.00	0.00	1639.46	
9700.00	89.65	180.08	7407.64	-1797.19	-148.44	0.00	0.00	1739.45	
9800.00	89.65	180.08	7408.25	-1897.19	-148.57	0.00	0.00	1839.45	
9900.00	89.65	180.08	7408.85	-1997.19	-148.71	0.00	0.00	1939.45	
10000.00	89.65	180.08	7409.46	-2097.18	-148.85	0.00	0.00	2039.45	
10100.00	89.65	180.08	7410.07	-2197.18	-148.99	0.00	0.00	2139.45	
10200.00	89.65	180.08	7410.67	-2297.18	-149.13	0.00	0.00	2239.45	
10300.00	89.65	180.08	7411.28	-2397.18	-149.26	0.00	0.00	2339.44	
10400.00	89.65	180.08	7411.89	-2497.18	-149.40	0.00	0.00	2439.44	
10500.00	89.65	180.08	7412.49	-2597.17	-149.54	0.00	0.00	2539.44	
10600.00	89.65	180.08	7413.10	-2697.17	-149.68	0.00	0.00	2639.44	
10700.00	89.65	180.08	7413.71	-2797.17	-149.82	0.00	0.00	2739.44	
10800.00	89.65	180.08	7414.31	-2897.17	-149.96	0.00	0.00	2839.43	
10900.00	89.65	180.08	7414.92	-2997.17	-150.09	0.00	0.00	2939.43	
11000.00	89.65	180.08	7415.53	-3097.16	-150.23	0.00	0.00	3039.43	

5D Plan Report

Interpolated Points (Relative to centre, TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)		
11100.00	89.65	180.08	7416.13	-3197.16	-150.37	0.00	0.00	3139.43		
11200.00	89.65	180.08	7416.74	-3297.16	-150.51	0.00	0.00	3239.43		
11300.00	89.65	180.08	7417.35	-3397.16	-150.65	0.00	0.00	3339.42		
11400.00	89.65	180.08	7417.95	-3497.16	-150.78	0.00	0.00	3439.42		
11500.00	89.65	180.08	7418.56	-3597.15	-150.92	0.00	0.00	3539.42		
11600.00	89.65	180.08	7419.16	-3697.15	-151.06	0.00	0.00	3639.42		
11700.00	89.65	180.08	7419.77	-3797.15	-151.20	0.00	0.00	3739.42		
11800.00	89.65	180.08	7420.38	-3897.15	-151.34	0.00	0.00	3839.42		
11900.00	89.65	180.08	7420.98	-3997.15	-151.47	0.00	0.00	3939.41		
12000.00	89.65	180.08	7421.59	-4097.14	-151.61	0.00	0.00	4039.41		
12100.00	89.65	180.08	7422.20	-4197.14	-151.75	0.00	0.00	4139.41		
12200.00	89.65	180.08	7422.80	-4297.14	-151.89	0.00	0.00	4239.41		
12300.00	89.65	180.08	7423.41	-4397.14	-152.03	0.00	0.00	4339.41		
12400.00	89.65	180.08	7424.02	-4497.14	-152.16	0.00	0.00	4439.40		
12500.00	89.65	180.08	7424.62	-4597.14	-152.30	0.00	0.00	4539.40		
12600.00	89.65	180.08	7425.23	-4697.13	-152.44	0.00	0.00	4639.40		
12700.00	89.65	180.08	7425.84	-4797.13	-152.58	0.00	0.00	4739.40		
12800.00	89.65	180.08	7426.44	-4897.13	-152.72	0.00	0.00	4839.40		
12900.00	89.65	180.08	7427.05	-4997.13	-152.85	0.00	0.00	4939.40		
13000.00	89.65	180.08	7427.66	-5097.13	-152.99	0.00	0.00	5039.39		
13100.00	89.65	180.08	7428.26	-5197.12	-153.13	0.00	0.00	5139.39		
13200.00	89.65	180.08	7428.87	-5297.12	-153.27	0.00	0.00	5239.39		
13300.00	89.65	180.08	7429.48	-5397.12	-153.41	0.00	0.00	5339.39		
13400.00	89.65	180.08	7430.08	-5497.12	-153.54	0.00	0.00	5439.39		
13500.00	89.65	180.08	7430.69	-5597.12	-153.68	0.00	0.00	5539.38		
13600.00	89.65	180.08	7431.29	-5697.11	-153.82	0.00	0.00	5639.38		
13700.00	89.65	180.08	7431.90	-5797.11	-153.96	0.00	0.00	5739.38		
13800.00	89.65	180.08	7432.51	-5897.11	-154.10	0.00	0.00	5839.38		
13900.00	89.65	180.08	7433.11	-5997.11	-154.23	0.00	0.00	5939.38		
14000.00	89.65	180.08	7433.72	-6097.11	-154.37	0.00	0.00	6039.38		
14100.00	89.65	180.08	7434.33	-6197.10	-154.51	0.00	0.00	6139.37		
14200.00	89.65	180.08	7434.93	-6297.10	-154.65	0.00	0.00	6239.37		
14300.00	89.65	180.08	7435.54	-6397.10	-154.79	0.00	0.00	6339.37		
14400.00	89.65	180.08	7436.15	-6497.10	-154.93	0.00	0.00	6439.37		
14500.00	89.65	180.08	7436.75	-6597.10	-155.06	0.00	0.00	6539.37		
14600.00	89.65	180.08	7437.36	-6697.09	-155.20	0.00	0.00	6639.36		
14700.00	89.65	180.08	7437.97	-6797.09	-155.34	0.00	0.00	6739.36		
14800.00	89.65	180.08	7438.57	-6897.09	-155.48	0.00	0.00	6839.36		
14900.00	89.65	180.08	7439.18	-6997.09	-155.62	0.00	0.00	6939.36		
15000.00	89.65	180.08	7439.79	-7097.09	-155.75	0.00	0.00	7039.36		
15100.00	89.65	180.08	7440.39	-7197.08	-155.89	0.00	0.00	7139.35		

5D Plan Report

Interpolated Points (Relative to centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
15200.00	89.65	180.08	7441.00	-7297.08	-156.03	0.00	0.00	7239.35	
15300.00	89.65	180.08	7441.61	-7397.08	-156.17	0.00	0.00	7339.35	
15400.00	89.65	180.08	7442.21	-7497.08	-156.31	0.00	0.00	7439.35	
15500.00	89.65	180.08	7442.82	-7597.08	-156.44	0.00	0.00	7539.35	
15600.00	89.65	180.08	7443.43	-7697.08	-156.58	0.00	0.00	7639.35	
15700.00	89.65	180.08	7444.03	-7797.07	-156.72	0.00	0.00	7739.34	
15800.00	89.65	180.08	7444.64	-7897.07	-156.86	0.00	0.00	7839.34	
15900.00	89.65	180.08	7445.24	-7997.07	-157.00	0.00	0.00	7939.34	
16000.00	89.65	180.08	7445.85	-8097.07	-157.13	0.00	0.00	8039.34	
16100.00	89.65	180.08	7446.46	-8197.07	-157.27	0.00	0.00	8139.34	
16200.00	89.65	180.08	7447.06	-8297.06	-157.41	0.00	0.00	8239.33	
16300.00	89.65	180.08	7447.67	-8397.06	-157.55	0.00	0.00	8339.33	
16400.00	89.65	180.08	7448.28	-8497.06	-157.69	0.00	0.00	8439.33	
16500.00	89.65	180.08	7448.88	-8597.06	-157.82	0.00	0.00	8539.33	
16600.00	89.65	180.08	7449.49	-8697.06	-157.96	0.00	0.00	8639.33	
16700.00	89.65	180.08	7450.10	-8797.05	-158.10	0.00	0.00	8739.33	
16800.00	89.65	180.08	7450.70	-8897.05	-158.24	0.00	0.00	8839.32	
16900.00	89.65	180.08	7451.31	-8997.05	-158.38	0.00	0.00	8939.32	
17000.00	89.65	180.08	7451.92	-9097.05	-158.51	0.00	0.00	9039.32	
17100.00	89.65	180.08	7452.52	-9197.05	-158.65	0.00	0.00	9139.32	
17200.00	89.65	180.08	7453.13	-9297.04	-158.79	0.00	0.00	9239.32	
17300.00	89.65	180.08	7453.74	-9397.04	-158.93	0.00	0.00	9339.31	
17400.00	89.65	180.08	7454.34	-9497.04	-159.07	0.00	0.00	9439.31	
17500.00	89.65	180.08	7454.95	-9597.04	-159.20	0.00	0.00	9539.31	
17600.00	89.65	180.08	7455.56	-9697.04	-159.34	0.00	0.00	9639.31	
17673.28	89.65	180.08	7456.00	-9770.32	-159.44	0.00	0.00	9712.59	TD @ 17673.28' MD

Formation Points (Relative to centre, TVD relative to Drill Floor)			
Name	MD (US ft)	TVD (US ft)	
SHARON SPRINGS	7158.04	7087.00	
NIOBRARA A	7191.23	7116.00	
NIOBRARA B	7230.46	7149.00	
NIOBRARA C	7346.33	7237.00	
FORT HAYS	7613.83	7371.00	
CODELL	7700.69	7390.00	