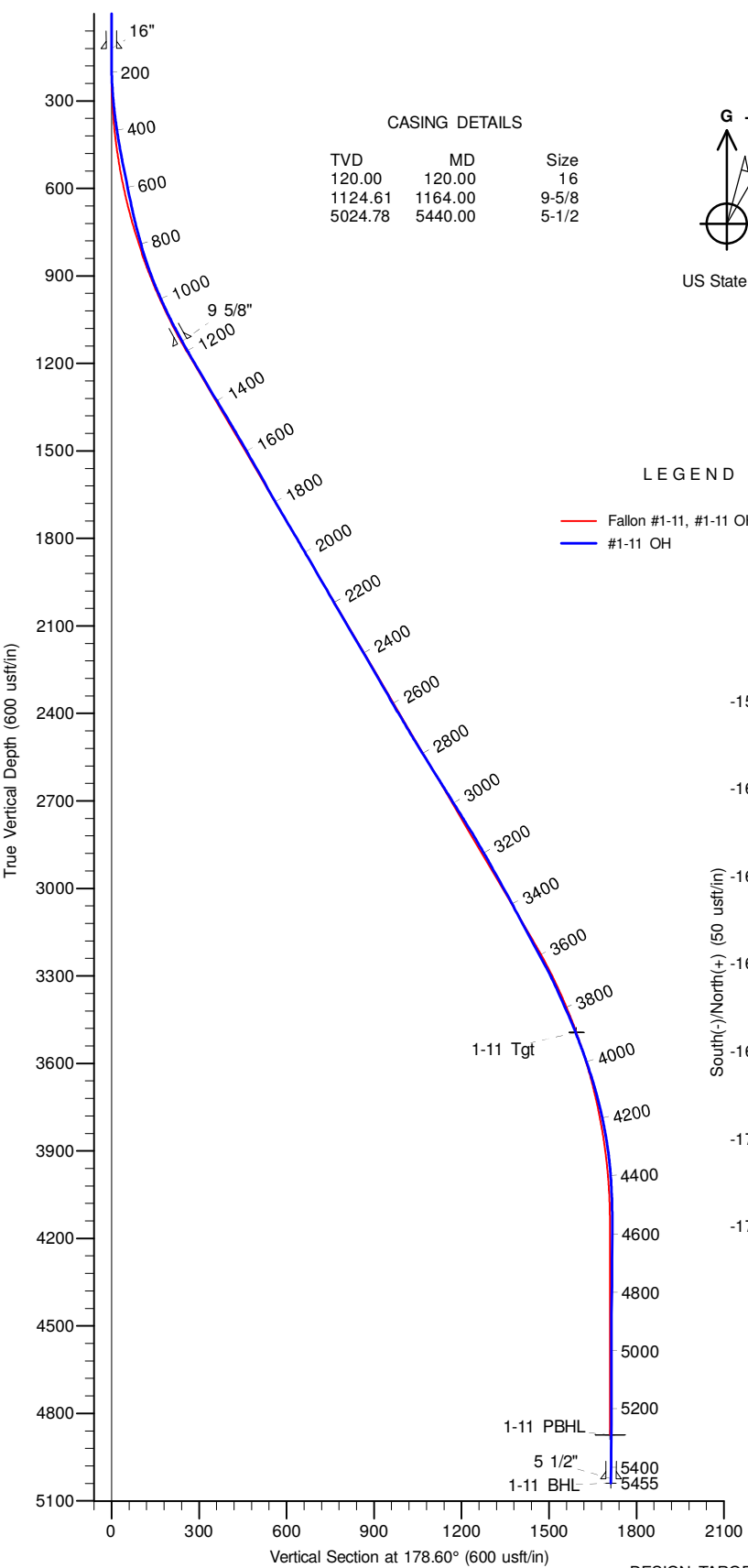


## TIGHT HOLE



**CASING DETAILS**

TVD	MD	Size
120.00	120.00	16
1124.61	1164.00	9-5/8
5024.78	5440.00	5-1/2

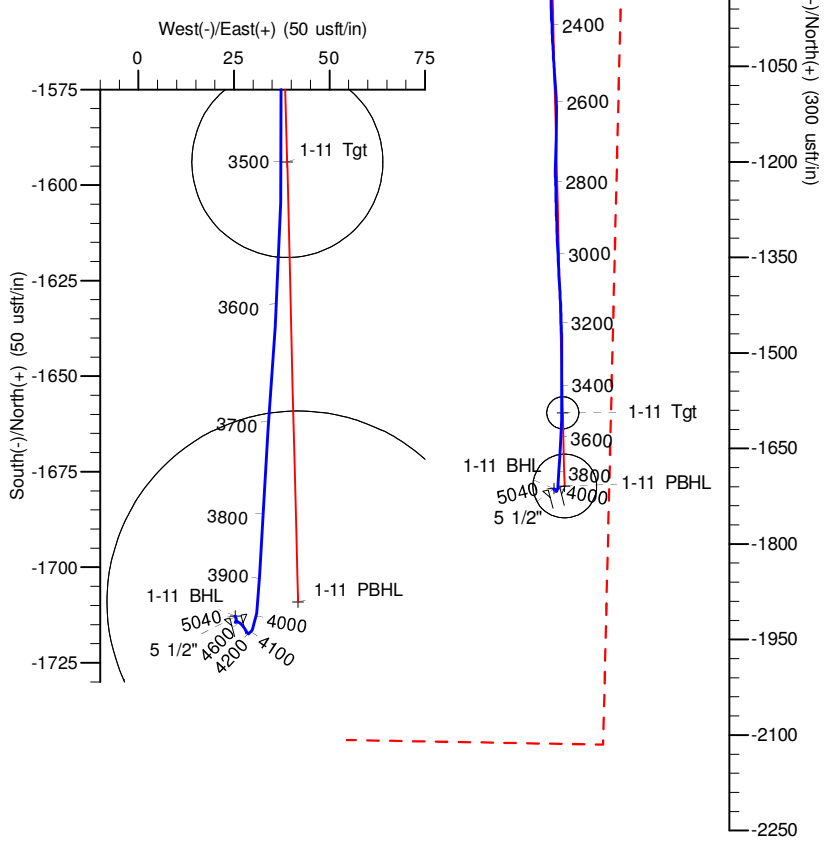
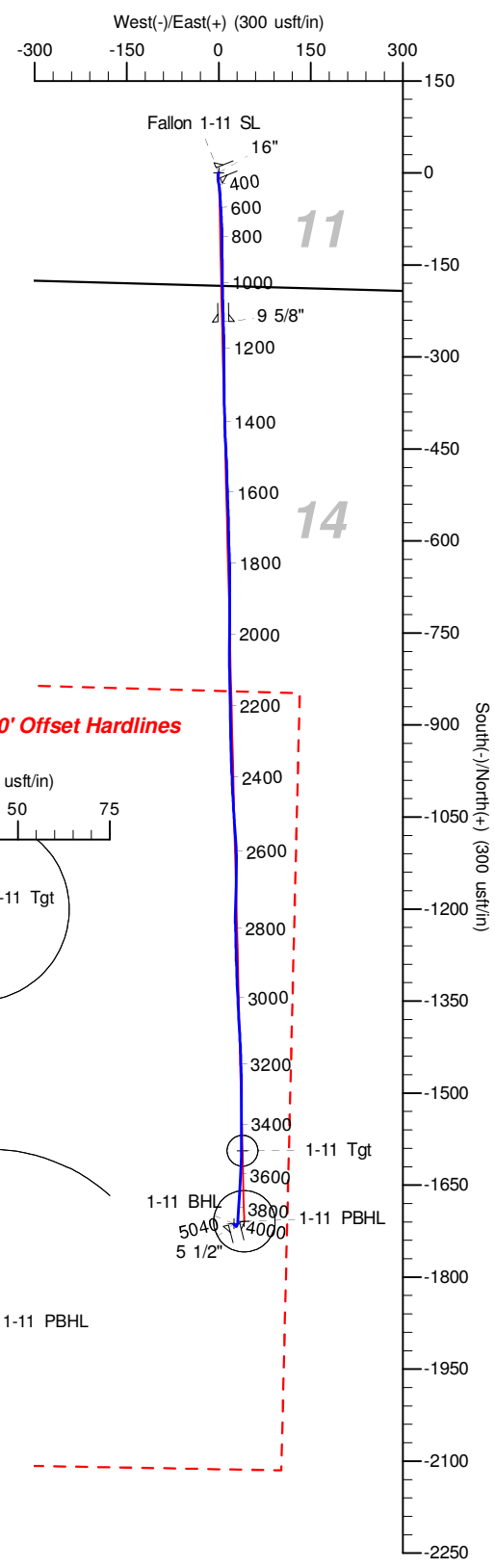
**Azimuths to Grid North**  
 True North: 0.80°  
 Magnetic North: 14.16°

**Magnetic Field**  
 Strength: 52203.6snT  
 Dip Angle: 67.34°  
 Date: 10/30/2021  
 Model: IGRF2020

**US State Plane 1927 (Exact solution)**  
 Idaho West 1103  
 44° 2' 25.520 N  
 116° 54' 19.449 W

**LEGEND**

- Fallon #1-11, #1-11 OH, Plan #3 V0
- #1-11 OH



**DESIGN TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Fallon 1-11 SL	0.00	0.00	0.00	867218.00	196181.00	44° 2' 25.520 N	116° 54' 19.449 W	Point
1-11 Tgt	3494.00	-1593.94	39.00	865624.00	196220.00	44° 2' 9.786 N	116° 54' 18.609 W	Circle (Radius: 25.00)
1-11 PBHL	4874.00	-1709.08	41.81	865508.85	196222.82	44° 2' 8.649 N	116° 54' 18.549 W	Circle (Radius: 50.00)
1-11 BHL	5039.77	-1712.73	25.40	865505.20	196206.40	44° 2' 8.611 N	116° 54' 18.773 W	Point

# Titan Directional Drilling

## Survey Report

<b>Company:</b> Snake River Oil and Gas	<b>Local Co-ordinate Reference:</b> Well Fallon #1-11
<b>Project:</b> Payette County, ID W'27	<b>TVD Reference:</b> GL+KB @ 2175.00usft (Paul Graham 4)
<b>Site:</b> Fallon Unit B Pad	<b>MD Reference:</b> GL+KB @ 2175.00usft (Paul Graham 4)
<b>Well:</b> Fallon #1-11	<b>North Reference:</b> Grid
<b>Wellbore:</b> #1-11 OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> #1-11 OH	<b>Database:</b> EDM 5k-14

<b>Project</b> Payette County, ID W'27		
<b>Map System:</b> US State Plane 1927 (Exact solution)	<b>System Datum:</b> Mean Sea Level	
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b> Idaho West 1103	Using geodetic scale factor	

<b>Site</b> Fallon Unit B Pad, S11 T8N R5W					
<b>Site Position:</b>		<b>Northing:</b> 867,218.00 usft	<b>Latitude:</b> 44° 2' 25.520 N		
<b>From:</b> Map		<b>Easting:</b> 196,181.00 usft	<b>Longitude:</b> 116° 54' 19.449 W		
<b>Position Uncertainty:</b> 0.00 usft		<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> -0.80 °		

<b>Well</b> Fallon #1-11,					
<b>Well Position</b>	<b>+N/-S</b> 0.00 usft	<b>Northing:</b> 867,218.00 usft	<b>Latitude:</b> 44° 2' 25.520 N		
	<b>+E/-W</b> 0.00 usft	<b>Easting:</b> 196,181.00 usft	<b>Longitude:</b> 116° 54' 19.449 W		
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 2,161.00 usft		

<b>Wellbore</b> #1-11 OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/30/21	13.36	67.34	52,203.56669034

<b>Design</b> #1-11 OH					
<b>Audit Notes:</b>					
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.00			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	178.60	

<b>Survey Program</b>		<b>Date</b> 11/23/21		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
164.00	5,396.00	Survey #1 (#1-11 OH)	MWD	MWD - Standard
5,455.00	5,455.00	Projection (#1-11 OH)	ZERO-ERROR	Zero Error

<b>Survey</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	0.37	247.10	120.00	-0.15	-0.35	0.14	0.30	0.30	0.00	
<b>16"</b>										
164.00	0.50	247.10	164.00	-0.28	-0.66	0.26	0.30	0.30	0.00	
256.00	3.50	186.80	255.94	-3.22	-1.36	3.19	3.57	3.26	-65.54	
348.00	7.00	173.40	347.54	-11.58	-1.05	11.55	4.01	3.80	-14.57	
440.00	9.80	170.30	438.54	-24.87	0.91	24.89	3.08	3.04	-3.37	
532.00	11.30	176.20	528.99	-41.59	2.83	41.64	2.01	1.63	6.41	
655.00	11.70	176.90	649.52	-66.06	4.30	66.15	0.34	0.33	0.57	
745.00	14.30	177.60	737.20	-86.28	5.26	86.39	2.89	2.89	0.78	