



Company: IKAV Energy  
Project: La Plata County, CO NAD83  
Site: Hott Pad  
Well: Hott 30-02 03  
Wellbore: Lateral 1  
Design: Plan #2

PROJECT DETAILS: La Plata County, CO NAD83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Southern Zone  
System Datum: Mean Sea Level  
Local North: Grid



WELL DETAILS: Hott 30-02 03

GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)  
+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 1154154.88 2402602.62 37.0720425 -107.5476835

Plan: Plan #2 (Hott 30-02 03/Lateral 1)

Created By: Janie Collins Date: 11:51, June 22 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Hott Lat 1 BHL	2899.00	-6029.04	3791.98	1148125.85	2406394.59	37.0557159	-107.5342400

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
3900.00	65.58	149.168	2864.09	-1518.08	906.10	0.00	0.00	1767.45
4159.05	90.21	149.270	2918.00	-1734.02	1034.71	9.51	0.24	2018.72
4258.47	90.21	147.281	2917.63	-1818.59	1086.99	2.00	-89.90	2118.13
9262.99	90.21	147.281	2899.00	-6029.04	3791.98	0.00	0.00	7122.39



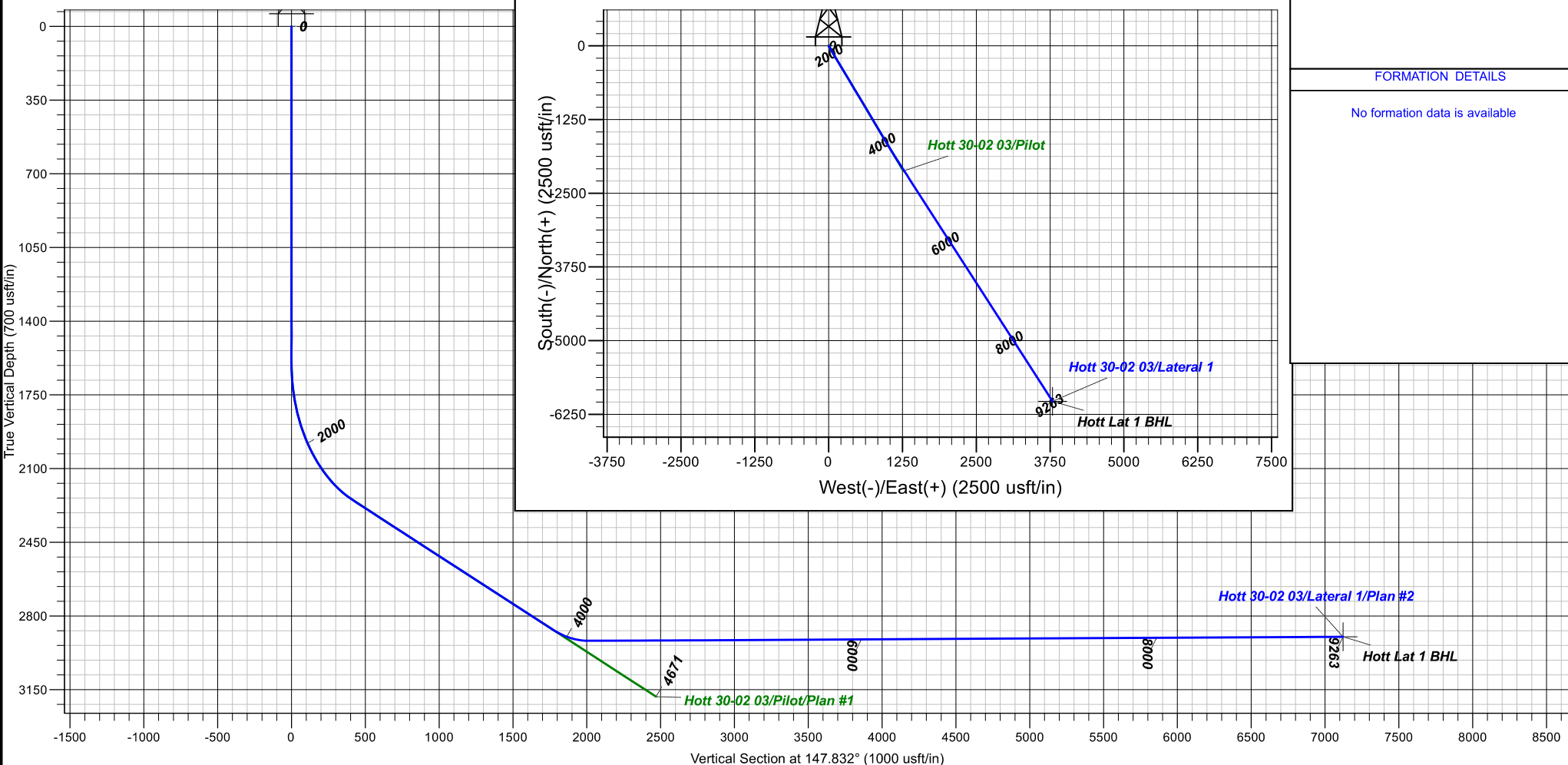
Azimuths to Grid North  
True North: 1.26°  
Magnetic North: 10.04°  
  
Magnetic Field  
Strength: 49632.1nT  
Dip Angle: 63.45°  
Date: 6/7/2022  
Model: HDGM2022

CASING DETAILS

No casing data is available

FORMATION DETAILS

No formation data is available





## **IKAV Energy**

**La Plata County, CO NAD83**

**Hott Pad**

**Hott 30-02 03**

**Lateral 1**

**Plan: Plan #2**

## **Standard Planning Report**

**22 June, 2022**



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Hott 30-02 03
<b>Company:</b>	IKAV Energy	<b>TVD Reference:</b>	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
<b>Project:</b>	La Plata County, CO NAD83	<b>MD Reference:</b>	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
<b>Site:</b>	Hott Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Hott 30-02 03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1		
<b>Design:</b>	Plan #2		

<b>Project</b>	La Plata County, CO NAD83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Southern Zone		

Site		Hott Pad			
Site Position:		Northing:	1,154,154.89 usft	Latitude:	37.0720425
From:	Lat/Long	Easting:	2,402,602.62 usft	Longitude:	-107.5476835
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.26 °

Well	Hott 30-02 03					
Well Position	+N/-S	-0.01 usft	Northing:	1,154,154.88 usft	Latitude:	37.0720424
	+E/-W	0.00 usft	Easting:	2,402,602.62 usft	Longitude:	-107.5476835
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,470.00 usft

<b>Wellbore</b>	Lateral 1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2022	6/7/2022	8.78	63.45	49,632.10000000

<b>Design</b>	Plan #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	3,900.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	147.832

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,900.00	65.58	149.168	2,864.09	-1,518.08	906.10	0.00	0.00	0.00	0.00	
4,159.05	90.21	149.270	2,918.00	-1,734.02	1,034.71	9.51	9.51	0.04	0.24	
4,258.47	90.21	147.281	2,917.63	-1,818.59	1,086.99	2.00	0.00	-2.00	-89.90	
9,262.99	90.21	147.281	2,899.00	-6,029.04	3,791.98	0.00	0.00	0.00	0.00	Hott Lat 1 BHL

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Hott 30-02 03
<b>Company:</b>	IKAV Energy	<b>TVD Reference:</b>	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
<b>Project:</b>	La Plata County, CO NAD83	<b>MD Reference:</b>	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
<b>Site:</b>	Hott Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Hott 30-02 03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1		
<b>Design:</b>	Plan #2		

Planned Survey									
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)
3,900.00	65.58	149.168	2,864.09	-1,518.08	906.10	1,767.45	0.00	0.00	0.00
4,000.00	75.09	149.210	2,897.71	-1,598.87	954.27	1,861.48	9.51	9.51	0.04
4,100.00	84.60	149.248	2,915.33	-1,683.34	1,004.57	1,959.77	9.51	9.51	0.04
4,159.05	90.21	149.270	2,918.00	-1,734.02	1,034.71	2,018.72	9.51	9.51	0.04
4,200.00	90.21	148.451	2,917.85	-1,769.07	1,055.89	2,059.66	2.00	0.00	-2.00
4,258.47	90.21	147.281	2,917.63	-1,818.59	1,086.99	2,118.13	2.00	0.00	-2.00
4,300.00	90.21	147.281	2,917.48	-1,853.53	1,109.44	2,159.66	0.00	0.00	0.00
4,400.00	90.21	147.281	2,917.11	-1,937.66	1,163.49	2,259.65	0.00	0.00	0.00
4,500.00	90.21	147.281	2,916.73	-2,021.79	1,217.54	2,359.65	0.00	0.00	0.00
4,600.00	90.21	147.281	2,916.36	-2,105.92	1,271.59	2,459.64	0.00	0.00	0.00
4,700.00	90.21	147.281	2,915.99	-2,190.06	1,325.64	2,559.64	0.00	0.00	0.00
4,800.00	90.21	147.281	2,915.62	-2,274.19	1,379.69	2,659.63	0.00	0.00	0.00
4,900.00	90.21	147.281	2,915.24	-2,358.32	1,433.74	2,759.63	0.00	0.00	0.00
5,000.00	90.21	147.281	2,914.87	-2,442.46	1,487.79	2,859.62	0.00	0.00	0.00
5,100.00	90.21	147.281	2,914.50	-2,526.59	1,541.84	2,959.62	0.00	0.00	0.00
5,200.00	90.21	147.281	2,914.13	-2,610.72	1,595.89	3,059.61	0.00	0.00	0.00
5,300.00	90.21	147.281	2,913.75	-2,694.86	1,649.94	3,159.61	0.00	0.00	0.00
5,400.00	90.21	147.281	2,913.38	-2,778.99	1,704.00	3,259.60	0.00	0.00	0.00
5,500.00	90.21	147.281	2,913.01	-2,863.12	1,758.05	3,359.60	0.00	0.00	0.00
5,600.00	90.21	147.281	2,912.64	-2,947.25	1,812.10	3,459.59	0.00	0.00	0.00
5,700.00	90.21	147.281	2,912.27	-3,031.39	1,866.15	3,559.59	0.00	0.00	0.00
5,800.00	90.21	147.281	2,911.89	-3,115.52	1,920.20	3,659.58	0.00	0.00	0.00
5,900.00	90.21	147.281	2,911.52	-3,199.65	1,974.25	3,759.58	0.00	0.00	0.00
6,000.00	90.21	147.281	2,911.15	-3,283.79	2,028.30	3,859.57	0.00	0.00	0.00
6,100.00	90.21	147.281	2,910.78	-3,367.92	2,082.35	3,959.56	0.00	0.00	0.00
6,200.00	90.21	147.281	2,910.40	-3,452.05	2,136.40	4,059.56	0.00	0.00	0.00
6,300.00	90.21	147.281	2,910.03	-3,536.19	2,190.45	4,159.55	0.00	0.00	0.00
6,400.00	90.21	147.281	2,909.66	-3,620.32	2,244.50	4,259.55	0.00	0.00	0.00
6,500.00	90.21	147.281	2,909.29	-3,704.45	2,298.56	4,359.54	0.00	0.00	0.00
6,600.00	90.21	147.281	2,908.91	-3,788.59	2,352.61	4,459.54	0.00	0.00	0.00
6,700.00	90.21	147.281	2,908.54	-3,872.72	2,406.66	4,559.53	0.00	0.00	0.00
6,800.00	90.21	147.281	2,908.17	-3,956.85	2,460.71	4,659.53	0.00	0.00	0.00
6,900.00	90.21	147.281	2,907.80	-4,040.98	2,514.76	4,759.52	0.00	0.00	0.00
7,000.00	90.21	147.281	2,907.43	-4,125.12	2,568.81	4,859.52	0.00	0.00	0.00
7,100.00	90.21	147.281	2,907.05	-4,209.25	2,622.86	4,959.51	0.00	0.00	0.00
7,200.00	90.21	147.281	2,906.68	-4,293.38	2,676.91	5,059.51	0.00	0.00	0.00
7,300.00	90.21	147.281	2,906.31	-4,377.52	2,730.96	5,159.50	0.00	0.00	0.00
7,400.00	90.21	147.281	2,905.94	-4,461.65	2,785.01	5,259.50	0.00	0.00	0.00
7,500.00	90.21	147.281	2,905.56	-4,545.78	2,839.06	5,359.49	0.00	0.00	0.00
7,600.00	90.21	147.281	2,905.19	-4,629.92	2,893.12	5,459.48	0.00	0.00	0.00
7,700.00	90.21	147.281	2,904.82	-4,714.05	2,947.17	5,559.48	0.00	0.00	0.00
7,800.00	90.21	147.281	2,904.45	-4,798.18	3,001.22	5,659.47	0.00	0.00	0.00
7,900.00	90.21	147.281	2,904.07	-4,882.31	3,055.27	5,759.47	0.00	0.00	0.00
8,000.00	90.21	147.281	2,903.70	-4,966.45	3,109.32	5,859.46	0.00	0.00	0.00
8,100.00	90.21	147.281	2,903.33	-5,050.58	3,163.37	5,959.46	0.00	0.00	0.00
8,200.00	90.21	147.281	2,902.96	-5,134.71	3,217.42	6,059.45	0.00	0.00	0.00
8,300.00	90.21	147.281	2,902.59	-5,218.85	3,271.47	6,159.45	0.00	0.00	0.00
8,400.00	90.21	147.281	2,902.21	-5,302.98	3,325.52	6,259.44	0.00	0.00	0.00
8,500.00	90.21	147.281	2,901.84	-5,387.11	3,379.57	6,359.44	0.00	0.00	0.00
8,600.00	90.21	147.281	2,901.47	-5,471.25	3,433.62	6,459.43	0.00	0.00	0.00
8,700.00	90.21	147.281	2,901.10	-5,555.38	3,487.67	6,559.43	0.00	0.00	0.00
8,800.00	90.21	147.281	2,900.72	-5,639.51	3,541.73	6,659.42	0.00	0.00	0.00

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<b>Project:</b>	La Plata County, CO NAD83	<b>MD Reference:</b>	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
<b>Site:</b>	Hott Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Hott 30-02 03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Lateral 1		
<b>Design:</b>	Plan #2		

Planned Survey									
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)
8,900.00	90.21	147.281	2,900.35	-5,723.64	3,595.78	6,759.42	0.00	0.00	0.00
9,000.00	90.21	147.281	2,899.98	-5,807.78	3,649.83	6,859.41	0.00	0.00	0.00
9,100.00	90.21	147.281	2,899.61	-5,891.91	3,703.88	6,959.41	0.00	0.00	0.00
9,200.00	90.21	147.281	2,899.23	-5,976.04	3,757.93	7,059.40	0.00	0.00	0.00
9,262.99	90.21	147.281	2,899.00	-6,029.04	3,791.98	7,122.39	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hott Lat 1 BHL	0.00	0.000	2,899.00	-6,029.04	3,791.98	1,148,125.84	2,406,394.60	37.0557159	-107.5342400
- plan hits target center									
- Point									