



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

Created By: Janie Collins Date: 12:23, June 22 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Hott Lat 2 BHL	2801.00	-6073.15	2769.71	1148081.74	2405372.33	37.0555336	-107.5377388

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
3820.00	65.58	149.168	2831.02	-1455.53	868.76	0.00	0.00	1684.80
4017.17	90.83	149.168	2871.00	-1619.93	966.89	12.81	0.00	1875.09
4478.87	90.83	158.403	2864.28	-2033.64	1170.59	2.00	89.91	2336.03
8823.84	90.83	158.403	2801.00	-6073.15	2769.71	0.00	0.00	6674.91



Azimuths to Grid North
True North: 1.26°
Magnetic North: 10.04°

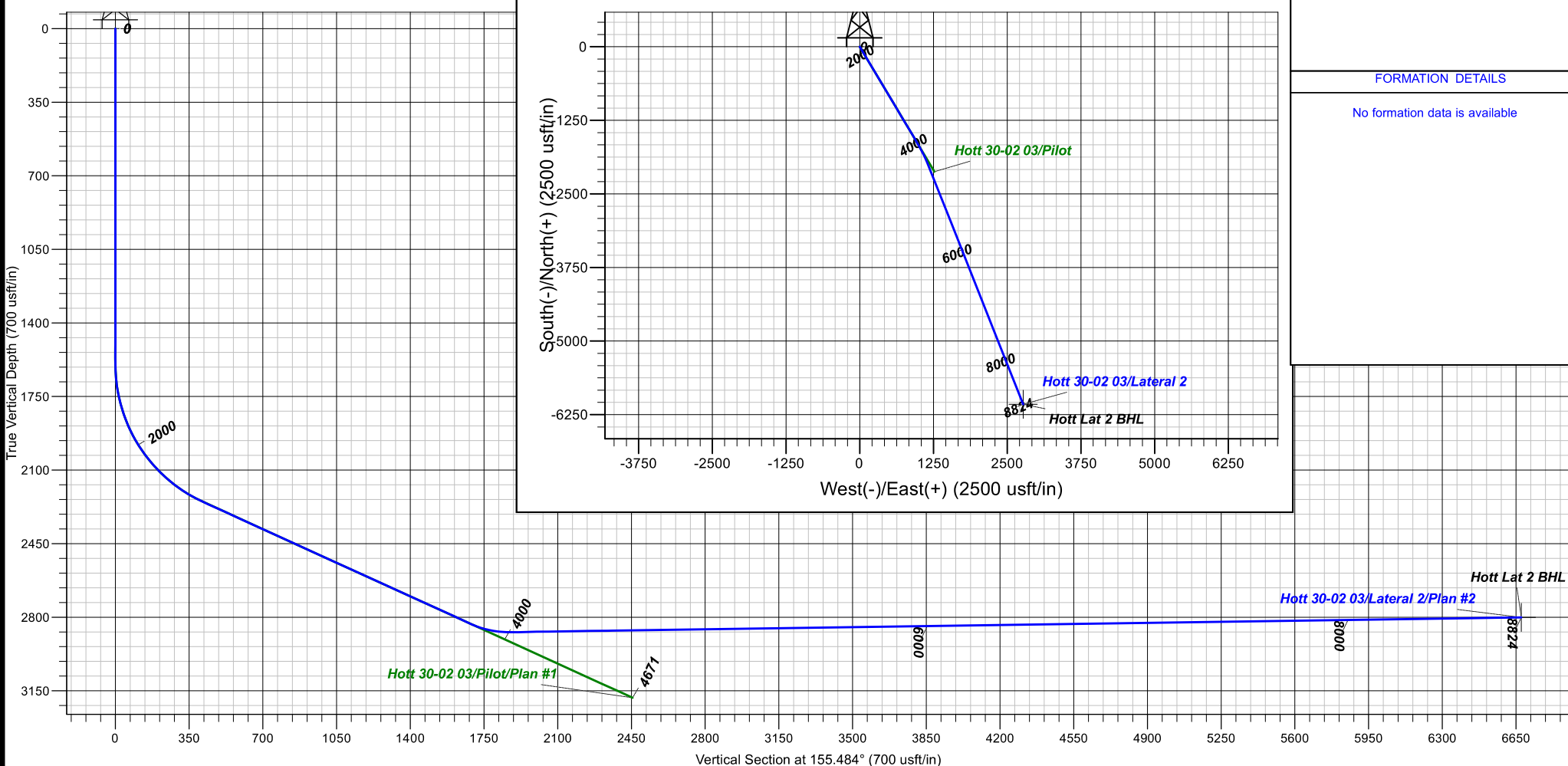
Magnetic Field
Strength: 49632.1nT
Dip Angle: 63.45°
Date: 6/7/2022
Model: HDGM2022

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 2

Plan: Plan #2

Standard Planning Report

22 June, 2022



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

Project	La Plata County, CO NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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

Wellbore	Lateral 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	6/7/2022	8.78	63.45	49,632.10000000

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	3,820.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	155.484

Plan Sections										
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
3,820.00	65.58	149.168	2,831.02	-1,455.53	868.76	0.00	0.00	0.00	0.00	
4,017.17	90.83	149.168	2,871.00	-1,619.93	966.89	12.81	12.81	0.00	0.00	
4,478.87	90.83	158.403	2,864.28	-2,033.64	1,170.59	2.00	0.00	2.00	89.91	
8,823.84	90.83	158.403	2,801.00	-6,073.15	2,769.71	0.00	0.00	0.00	0.00	Hott Lat 2 BHL

Database:	Grand Junction	Local Co-ordinate Reference:	Well Hott 30-02 03
Company:	IKAV Energy	TVD Reference:	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
Project:	La Plata County, CO NAD83	MD Reference:	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
Site:	Hott Pad	North Reference:	Grid
Well:	Hott 30-02 03	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral 2		
Design:	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)
3,820.00	65.58	149.168	2,831.02	-1,455.53	868.76	1,684.80	0.00	0.00	0.00
3,900.00	75.82	149.168	2,857.42	-1,520.28	907.41	1,759.75	12.81	12.81	0.00
4,000.00	88.63	149.168	2,870.92	-1,605.18	958.08	1,858.02	12.81	12.81	0.00
4,017.17	90.83	149.168	2,871.00	-1,619.93	966.89	1,875.09	12.81	12.81	0.00
4,100.00	90.83	150.825	2,869.80	-1,691.65	1,008.30	1,957.52	2.00	0.00	2.00
4,200.00	90.83	152.825	2,868.34	-1,779.78	1,055.51	2,057.31	2.00	0.00	2.00
4,300.00	90.84	154.825	2,866.89	-1,869.51	1,099.61	2,157.25	2.00	0.00	2.00
4,400.00	90.84	156.825	2,865.43	-1,960.73	1,140.56	2,257.23	2.00	0.00	2.00
4,478.87	90.83	158.403	2,864.28	-2,033.64	1,170.59	2,336.03	2.00	0.00	2.00
4,500.00	90.83	158.403	2,863.97	-2,053.29	1,178.37	2,357.14	0.00	0.00	0.00
4,600.00	90.83	158.403	2,862.52	-2,146.26	1,215.17	2,456.99	0.00	0.00	0.00
4,700.00	90.83	158.403	2,861.06	-2,239.23	1,251.97	2,556.85	0.00	0.00	0.00
4,800.00	90.83	158.403	2,859.60	-2,332.20	1,288.78	2,656.71	0.00	0.00	0.00
4,900.00	90.83	158.403	2,858.15	-2,425.17	1,325.58	2,756.57	0.00	0.00	0.00
5,000.00	90.83	158.403	2,856.69	-2,518.14	1,362.39	2,856.43	0.00	0.00	0.00
5,100.00	90.83	158.403	2,855.23	-2,611.11	1,399.19	2,956.29	0.00	0.00	0.00
5,200.00	90.83	158.403	2,853.78	-2,704.08	1,435.99	3,056.15	0.00	0.00	0.00
5,300.00	90.83	158.403	2,852.32	-2,797.05	1,472.80	3,156.01	0.00	0.00	0.00
5,400.00	90.83	158.403	2,850.86	-2,890.02	1,509.60	3,255.87	0.00	0.00	0.00
5,500.00	90.83	158.403	2,849.41	-2,982.99	1,546.41	3,355.73	0.00	0.00	0.00
5,600.00	90.83	158.403	2,847.95	-3,075.96	1,583.21	3,455.59	0.00	0.00	0.00
5,700.00	90.83	158.403	2,846.50	-3,168.93	1,620.01	3,555.45	0.00	0.00	0.00
5,800.00	90.83	158.403	2,845.04	-3,261.89	1,656.82	3,655.31	0.00	0.00	0.00
5,900.00	90.83	158.403	2,843.58	-3,354.86	1,693.62	3,755.17	0.00	0.00	0.00
6,000.00	90.83	158.403	2,842.13	-3,447.83	1,730.43	3,855.03	0.00	0.00	0.00
6,100.00	90.83	158.403	2,840.67	-3,540.80	1,767.23	3,954.89	0.00	0.00	0.00
6,200.00	90.83	158.403	2,839.21	-3,633.77	1,804.03	4,054.75	0.00	0.00	0.00
6,300.00	90.83	158.403	2,837.76	-3,726.74	1,840.84	4,154.61	0.00	0.00	0.00
6,400.00	90.83	158.403	2,836.30	-3,819.71	1,877.64	4,254.47	0.00	0.00	0.00
6,500.00	90.83	158.403	2,834.84	-3,912.68	1,914.44	4,354.33	0.00	0.00	0.00
6,600.00	90.83	158.403	2,833.39	-4,005.65	1,951.25	4,454.19	0.00	0.00	0.00
6,700.00	90.83	158.403	2,831.93	-4,098.62	1,988.05	4,554.05	0.00	0.00	0.00
6,800.00	90.83	158.403	2,830.47	-4,191.59	2,024.86	4,653.91	0.00	0.00	0.00
6,900.00	90.83	158.403	2,829.02	-4,284.56	2,061.66	4,753.77	0.00	0.00	0.00
7,000.00	90.83	158.403	2,827.56	-4,377.53	2,098.46	4,853.63	0.00	0.00	0.00
7,100.00	90.83	158.403	2,826.11	-4,470.50	2,135.27	4,953.49	0.00	0.00	0.00
7,200.00	90.83	158.403	2,824.65	-4,563.47	2,172.07	5,053.35	0.00	0.00	0.00
7,300.00	90.83	158.403	2,823.19	-4,656.44	2,208.88	5,153.21	0.00	0.00	0.00
7,400.00	90.83	158.403	2,821.74	-4,749.41	2,245.68	5,253.07	0.00	0.00	0.00
7,500.00	90.83	158.403	2,820.28	-4,842.38	2,282.48	5,352.93	0.00	0.00	0.00
7,600.00	90.83	158.403	2,818.82	-4,935.35	2,319.29	5,452.79	0.00	0.00	0.00
7,700.00	90.83	158.403	2,817.37	-5,028.32	2,356.09	5,552.65	0.00	0.00	0.00
7,800.00	90.83	158.403	2,815.91	-5,121.29	2,392.90	5,652.51	0.00	0.00	0.00
7,900.00	90.83	158.403	2,814.45	-5,214.26	2,429.70	5,752.36	0.00	0.00	0.00
8,000.00	90.83	158.403	2,813.00	-5,307.23	2,466.50	5,852.22	0.00	0.00	0.00
8,100.00	90.83	158.403	2,811.54	-5,400.20	2,503.31	5,952.08	0.00	0.00	0.00
8,200.00	90.83	158.403	2,810.09	-5,493.17	2,540.11	6,051.94	0.00	0.00	0.00
8,300.00	90.83	158.403	2,808.63	-5,586.14	2,576.91	6,151.80	0.00	0.00	0.00
8,400.00	90.83	158.403	2,807.17	-5,679.11	2,613.72	6,251.66	0.00	0.00	0.00
8,500.00	90.83	158.403	2,805.72	-5,772.07	2,650.52	6,351.52	0.00	0.00	0.00
8,600.00	90.83	158.403	2,804.26	-5,865.04	2,687.33	6,451.38	0.00	0.00	0.00
8,700.00	90.83	158.403	2,802.80	-5,958.01	2,724.13	6,551.24	0.00	0.00	0.00

Database:	Grand Junction	Local Co-ordinate Reference:	Well Hott 30-02 03
Company:	IKAV Energy	TVD Reference:	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
Project:	La Plata County, CO NAD83	MD Reference:	GL 6470' & RKB 17' @ 6487.00usft (Aztec 1099)
Site:	Hott Pad	North Reference:	Grid
Well:	Hott 30-02 03	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral 2		
Design:	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)
8,800.00	90.83	158.403	2,801.35	-6,050.98	2,760.93	6,651.10	0.00	0.00	0.00
8,823.84	90.83	158.403	2,801.00	-6,073.15	2,769.71	6,674.91	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 2 BHL	0.00	0.000	2,801.00	-6,073.15	2,769.71	1,148,081.73	2,405,372.33	37.0555336	-107.5377389
- plan hits target center									
- Point									