



Directional Survey

Well Name: INTERCHANGE A S22-30-01C

API 0501420850	Surface Legal Location SWNW S10 T1S R68W M6	Field Name WATTENBERG	License # 401504448	State/Province COLORADO	Well Configuration Type HORIZONTAL
Ground Elevation (ft) 5,236.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Spud Date Production	Rig Release Date

Wellbore Name Original Hole	Parent Wellbore	Vertical Section Direction (°)
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Kick Offs & Key Depths

Date	Point or Interval	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)	Bottom Depth (ftKB)	Depth Bottom (TVD) (ftKB)	Length (ft)

Deviation Surveys

Date 8/28/2021		Definitive? Yes		Description Actual		Proposed? No	
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		EWTie In (ft) 0.00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
	105.00	1.36	22.42	104.99	1.05	1.15	0.48	1.30	1.30	21.35	1.25		
	192.00	0.66	305.44	191.98	2.28	2.40	0.46	1.58	-0.80	-88.48	2.49		
	279.00	0.70	283.02	278.97	2.85	2.81	-0.47	0.31	0.05	-25.77	3.50		
	367.00	0.75	256.13	366.97	3.02	2.79	-1.55	0.39	0.06	-30.56	4.59		
	454.00	2.11	325.38	453.94	4.44	3.97	-3.01	2.27	1.56	79.60	6.47		
	541.00	3.96	347.27	540.82	8.89	8.22	-4.58	2.47	2.13	25.16	11.00		
	628.00	6.02	356.76	627.49	16.42	15.71	-5.50	2.54	2.37	10.91	18.54		
	715.00	7.29	354.30	713.90	26.46	25.75	-6.31	1.50	1.46	-2.83	28.62		
	802.00	8.75	352.19	800.04	38.58	37.80	-7.76	1.71	1.68	-2.43	40.76		
	890.00	10.37	355.27	886.82	53.15	52.33	-9.32	1.93	1.84	3.50	55.37		
	977.00	12.35	354.04	972.11	70.23	69.39	-10.93	2.29	2.28	-1.41	72.50		
	1,064.00	14.28	352.72	1,056.77	90.23	89.29	-13.26	2.25	2.22	-1.52	92.53		
	1,151.00	15.56	351.05	1,140.83	112.62	111.46	-16.43	1.55	1.47	-1.92	114.93		
	1,239.00	16.48	347.09	1,225.42	136.89	135.28	-21.06	1.62	1.05	-4.50	139.20		
	1,326.00	18.19	348.32	1,308.46	162.79	160.61	-26.56	2.01	1.97	1.41	165.12		
	1,413.00	19.42	349.47	1,390.82	190.82	188.13	-31.96	1.48	1.41	1.32	193.17		
	1,500.00	20.52	349.73	1,472.59	220.53	217.36	-37.32	1.27	1.26	0.30	222.88		
	1,587.00	22.63	348.41	1,553.49	252.52	248.76	-43.40	2.49	2.43	-1.52	254.87		
	1,637.00	22.63	348.42	1,599.64	271.75	267.61	-47.26	0.01	0.00	0.02	274.10		