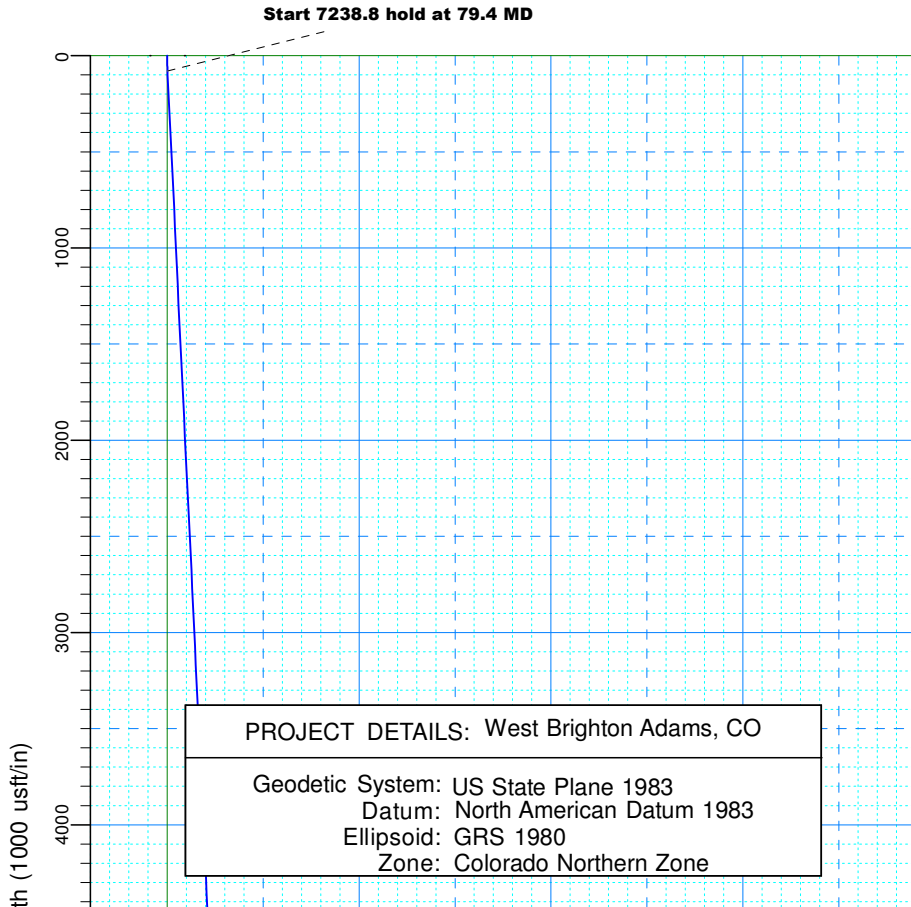
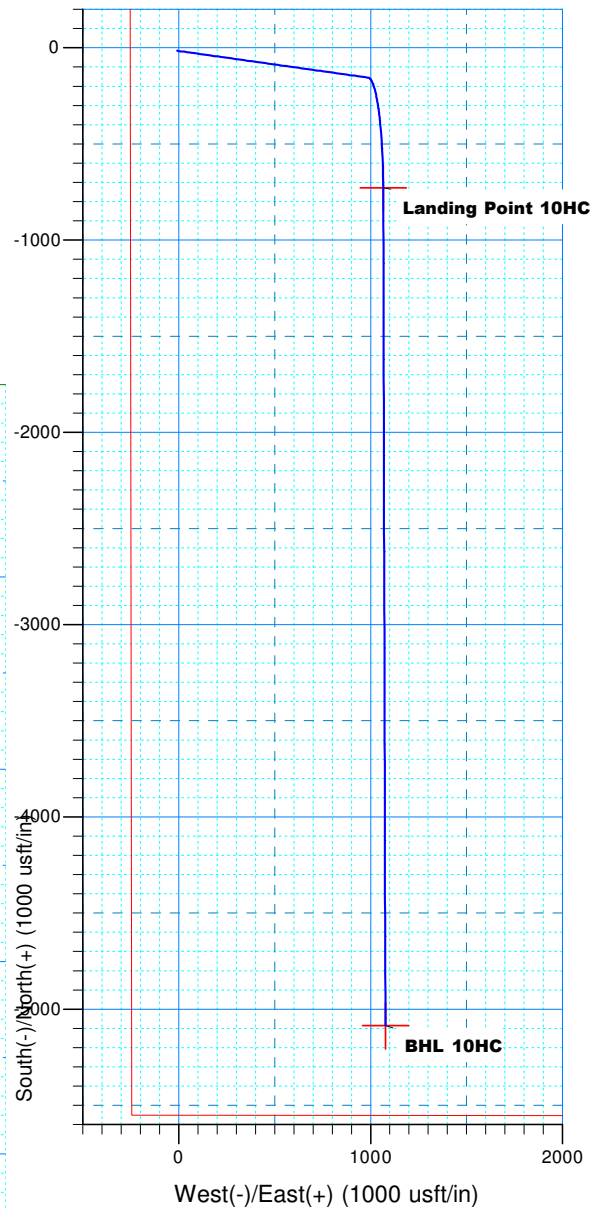


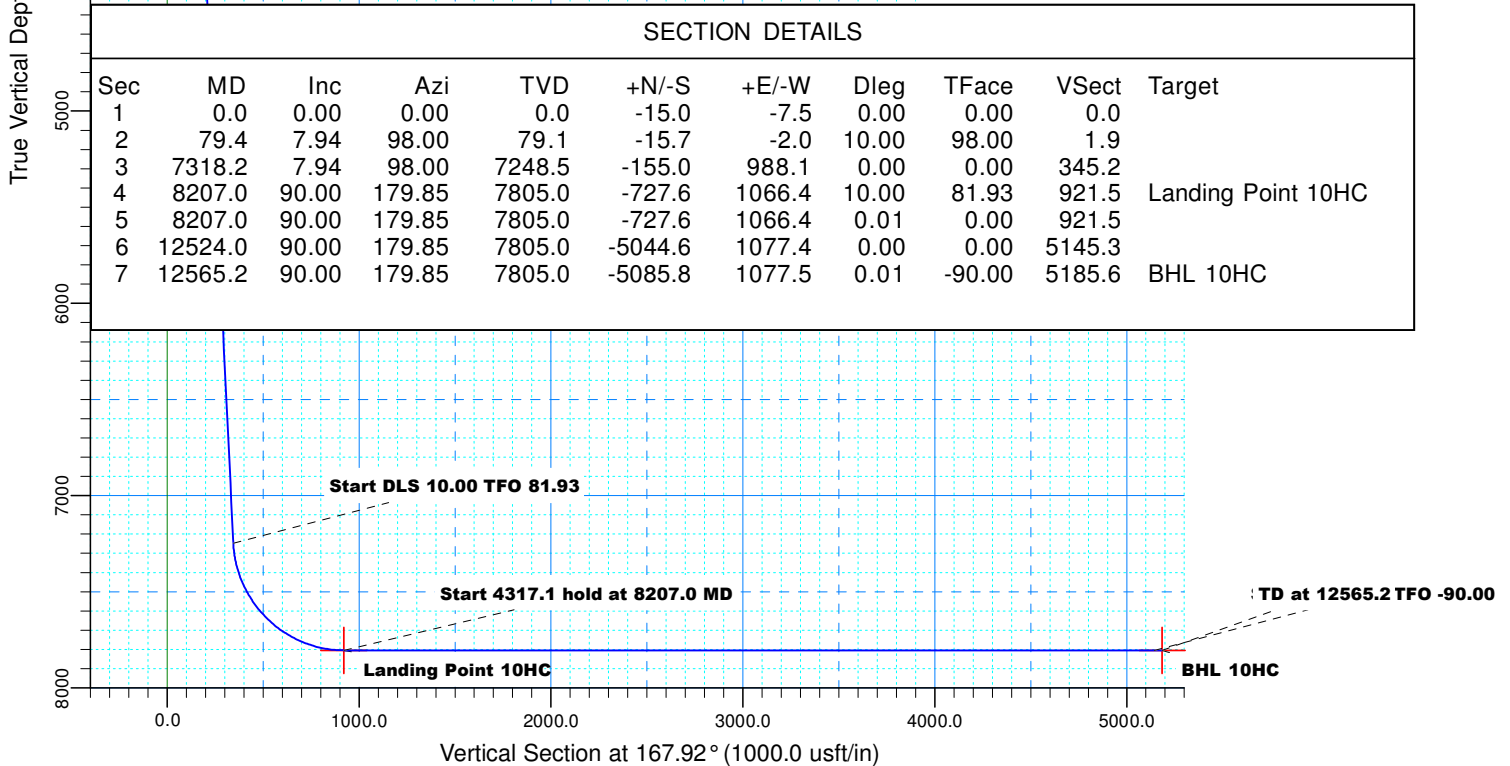


WELL DETAILS: Sharp 25-1-10HC	
Ground Level:	5019.0
Northing	1223135.23
Easting	3183416.33
Site Sharp Pad, True North	



PROJECT DETAILS: West Brighton Adams, CO	
Geodetic System: US State Plane 1983	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: Colorado Northern Zone	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	-15.0	-7.5	0.00	0.00	0.0	
2	79.4	7.94	98.00	79.1	-15.7	-2.0	10.00	98.00	1.9	
3	7318.2	7.94	98.00	7248.5	-155.0	988.1	0.00	0.00	345.2	
4	8207.0	90.00	179.85	7805.0	-727.6	1066.4	10.00	81.93	921.5	Landing Point 10HC
5	8207.0	90.00	179.85	7805.0	-727.6	1066.4	0.01	0.00	921.5	
6	12524.0	90.00	179.85	7805.0	-5044.6	1077.4	0.00	0.00	5145.3	
7	12565.2	90.00	179.85	7805.0	-5085.8	1077.5	0.01	-90.00	5185.6	BHL 10HC



Ward Petroleum

West Brighton Adams, CO

Sharp Pad

Sharp 25-1-10HC

State Plan #1

Plan: State Plan #1

Survey Report - Geographic

10 November, 2015

Ward Petroleum Corp

Survey Report - Geographic

Company: Ward Petroleum	Local Co-ordinate Reference: Site Sharp Pad
Project: West Brighton Adams, CO	TVD Reference: WELL @ 5037.0usft (Original Well Elev)
Site: Sharp Pad	MD Reference: WELL @ 5037.0usft (Original Well Elev)
Well: Sharp 25-1-10HC	North Reference: True
Wellbore: State Plan #1	Survey Calculation Method: Minimum Curvature
Design: State Plan #1	Database: EDM 5000.1 Single User Db

Project West Brighton Adams, CO	
Map System: US State Plane 1983	System Datum: Ground Level
Geo Datum: North American Datum 1983	
Map Zone: Colorado Northern Zone	

Site Sharp Pad		
Site Position:	Northing: 1,223,150.26 usft	Latitude: 39° 56' 38.658 N
From: Map	Easting: 3,183,423.69 usft	Longitude: 104° 50' 44.898 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.42 °

Well Sharp 25-1-10HC		
Well Position +N/-S -15.0 usft	Northing: 1,223,135.23 usft	Latitude: 39° 56' 38.510 N
+E/-W -7.5 usft	Easting: 3,183,416.33 usft	Longitude: 104° 50' 44.994 W
Position Uncertainty 0.0 usft	Wellhead Elevation: 5,019.0 usft	Ground Level: 5,019.0 usft

Wellbore State Plan #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.02	66.72	53,012

Design State Plan #1					
Audit Notes:					
Version:	Phase: PROTOTYPE	Tie On Depth: 0.0			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	-15.0	-7.5	167.92	

Survey Tool Program		Date 10/1/2015
From (usft)	To (usft)	Survey (Wellbore)
0.0	12,565.2	State Plan #1 (State Plan #1)
		Tool Name
		Description

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	-15.0	-7.5	1,223,135.23	3,183,416.33	39° 56' 38.510 N	104° 50' 44.994 W	
79.4	7.94	98.00	79.1	-15.7	-2.0	1,223,134.50	3,183,421.78	39° 56' 38.502 N	104° 50' 44.924 W	
100.0	7.94	98.00	99.5	-16.1	0.8	1,223,134.13	3,183,424.60	39° 56' 38.499 N	104° 50' 44.888 W	
200.0	7.94	98.00	198.6	-18.1	14.5	1,223,132.31	3,183,438.29	39° 56' 38.480 N	104° 50' 44.713 W	
300.0	7.94	98.00	297.6	-20.0	28.1	1,223,130.48	3,183,451.98	39° 56' 38.461 N	104° 50' 44.537 W	
400.0	7.94	98.00	396.7	-21.9	41.8	1,223,128.66	3,183,465.67	39° 56' 38.442 N	104° 50' 44.361 W	
500.0	7.94	98.00	495.7	-23.8	55.5	1,223,126.84	3,183,479.37	39° 56' 38.423 N	104° 50' 44.186 W	
600.0	7.94	98.00	594.8	-25.8	69.2	1,223,125.02	3,183,493.06	39° 56' 38.403 N	104° 50' 44.010 W	
700.0	7.94	98.00	693.8	-27.7	82.9	1,223,123.19	3,183,506.75	39° 56' 38.384 N	104° 50' 43.835 W	
800.0	7.94	98.00	792.8	-29.6	96.5	1,223,121.37	3,183,520.44	39° 56' 38.365 N	104° 50' 43.659 W	
900.0	7.94	98.00	891.9	-31.5	110.2	1,223,119.55	3,183,534.13	39° 56' 38.346 N	104° 50' 43.483 W	
1,000.0	7.94	98.00	990.9	-33.4	123.9	1,223,117.73	3,183,547.83	39° 56' 38.327 N	104° 50' 43.308 W	

Ward Petroleum Corp

Survey Report - Geographic

Company:	Ward Petroleum	Local Co-ordinate Reference:	Site Sharp Pad
Project:	West Brighton Adams, CO	TVD Reference:	WELL @ 5037.0usft (Original Well Elev)
Site:	Sharp Pad	MD Reference:	WELL @ 5037.0usft (Original Well Elev)
Well:	Sharp 25-1-10HC	North Reference:	True
Wellbore:	State Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	State Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	7.94	98.00	1,090.0	-35.4	137.6	1,223,115.90	3,183,561.52	39° 56' 38.308 N	104° 50' 43.132 W
1,200.0	7.94	98.00	1,189.0	-37.3	151.2	1,223,114.08	3,183,575.21	39° 56' 38.289 N	104° 50' 42.956 W
1,300.0	7.94	98.00	1,288.0	-39.2	164.9	1,223,112.26	3,183,588.90	39° 56' 38.270 N	104° 50' 42.781 W
1,400.0	7.94	98.00	1,387.1	-41.1	178.6	1,223,110.44	3,183,602.60	39° 56' 38.251 N	104° 50' 42.605 W
1,500.0	7.94	98.00	1,486.1	-43.1	192.3	1,223,108.62	3,183,616.29	39° 56' 38.232 N	104° 50' 42.430 W
1,600.0	7.94	98.00	1,585.2	-45.0	206.0	1,223,106.79	3,183,629.98	39° 56' 38.213 N	104° 50' 42.254 W
1,700.0	7.94	98.00	1,684.2	-46.9	219.6	1,223,104.97	3,183,643.67	39° 56' 38.194 N	104° 50' 42.078 W
1,800.0	7.94	98.00	1,783.3	-48.8	233.3	1,223,103.15	3,183,657.36	39° 56' 38.175 N	104° 50' 41.903 W
1,900.0	7.94	98.00	1,882.3	-50.8	247.0	1,223,101.33	3,183,671.06	39° 56' 38.156 N	104° 50' 41.727 W
2,000.0	7.94	98.00	1,981.3	-52.7	260.7	1,223,099.50	3,183,684.75	39° 56' 38.137 N	104° 50' 41.551 W
2,100.0	7.94	98.00	2,080.4	-54.6	274.4	1,223,097.68	3,183,698.44	39° 56' 38.118 N	104° 50' 41.376 W
2,200.0	7.94	98.00	2,179.4	-56.5	288.0	1,223,095.86	3,183,712.13	39° 56' 38.099 N	104° 50' 41.200 W
2,300.0	7.94	98.00	2,278.5	-58.4	301.7	1,223,094.04	3,183,725.83	39° 56' 38.080 N	104° 50' 41.025 W
2,400.0	7.94	98.00	2,377.5	-60.4	315.4	1,223,092.22	3,183,739.52	39° 56' 38.061 N	104° 50' 40.849 W
2,500.0	7.94	98.00	2,476.5	-62.3	329.1	1,223,090.39	3,183,753.21	39° 56' 38.042 N	104° 50' 40.673 W
2,600.0	7.94	98.00	2,575.6	-64.2	342.7	1,223,088.57	3,183,766.90	39° 56' 38.023 N	104° 50' 40.498 W
2,700.0	7.94	98.00	2,674.6	-66.1	356.4	1,223,086.75	3,183,780.59	39° 56' 38.004 N	104° 50' 40.322 W
2,800.0	7.94	98.00	2,773.7	-68.1	370.1	1,223,084.93	3,183,794.29	39° 56' 37.985 N	104° 50' 40.146 W
2,900.0	7.94	98.00	2,872.7	-70.0	383.8	1,223,083.10	3,183,807.98	39° 56' 37.966 N	104° 50' 39.971 W
3,000.0	7.94	98.00	2,971.7	-71.9	397.5	1,223,081.28	3,183,821.67	39° 56' 37.947 N	104° 50' 39.795 W
3,100.0	7.94	98.00	3,070.8	-73.8	411.1	1,223,079.46	3,183,835.36	39° 56' 37.928 N	104° 50' 39.620 W
3,200.0	7.94	98.00	3,169.8	-75.8	424.8	1,223,077.64	3,183,849.06	39° 56' 37.909 N	104° 50' 39.444 W
3,300.0	7.94	98.00	3,268.9	-77.7	438.5	1,223,075.82	3,183,862.75	39° 56' 37.890 N	104° 50' 39.268 W
3,400.0	7.94	98.00	3,367.9	-79.6	452.2	1,223,073.99	3,183,876.44	39° 56' 37.871 N	104° 50' 39.093 W
3,500.0	7.94	98.00	3,467.0	-81.5	465.9	1,223,072.17	3,183,890.13	39° 56' 37.852 N	104° 50' 38.917 W
3,600.0	7.94	98.00	3,566.0	-83.4	479.5	1,223,070.35	3,183,903.82	39° 56' 37.833 N	104° 50' 38.741 W
3,700.0	7.94	98.00	3,665.0	-85.4	493.2	1,223,068.53	3,183,917.52	39° 56' 37.814 N	104° 50' 38.566 W
3,800.0	7.94	98.00	3,764.1	-87.3	506.9	1,223,066.70	3,183,931.21	39° 56' 37.795 N	104° 50' 38.390 W
3,900.0	7.94	98.00	3,863.1	-89.2	520.6	1,223,064.88	3,183,944.90	39° 56' 37.776 N	104° 50' 38.215 W
4,000.0	7.94	98.00	3,962.2	-91.1	534.2	1,223,063.06	3,183,958.59	39° 56' 37.757 N	104° 50' 38.039 W
4,100.0	7.94	98.00	4,061.2	-93.1	547.9	1,223,061.24	3,183,972.29	39° 56' 37.738 N	104° 50' 37.863 W
4,200.0	7.94	98.00	4,160.2	-95.0	561.6	1,223,059.42	3,183,985.98	39° 56' 37.719 N	104° 50' 37.688 W
4,300.0	7.94	98.00	4,259.3	-96.9	575.3	1,223,057.59	3,183,999.67	39° 56' 37.700 N	104° 50' 37.512 W
4,400.0	7.94	98.00	4,358.3	-98.8	589.0	1,223,055.77	3,184,013.36	39° 56' 37.681 N	104° 50' 37.336 W
4,500.0	7.94	98.00	4,457.4	-100.8	602.6	1,223,053.95	3,184,027.05	39° 56' 37.662 N	104° 50' 37.161 W
4,600.0	7.94	98.00	4,556.4	-102.7	616.3	1,223,052.13	3,184,040.75	39° 56' 37.643 N	104° 50' 36.985 W
4,700.0	7.94	98.00	4,655.5	-104.6	630.0	1,223,050.30	3,184,054.44	39° 56' 37.624 N	104° 50' 36.810 W
4,800.0	7.94	98.00	4,754.5	-106.5	643.7	1,223,048.48	3,184,068.13	39° 56' 37.605 N	104° 50' 36.634 W
4,900.0	7.94	98.00	4,853.5	-108.5	657.3	1,223,046.66	3,184,081.82	39° 56' 37.586 N	104° 50' 36.458 W
5,000.0	7.94	98.00	4,952.6	-110.4	671.0	1,223,044.84	3,184,095.52	39° 56' 37.567 N	104° 50' 36.283 W
5,100.0	7.94	98.00	5,051.6	-112.3	684.7	1,223,043.02	3,184,109.21	39° 56' 37.548 N	104° 50' 36.107 W
5,200.0	7.94	98.00	5,150.7	-114.2	698.4	1,223,041.19	3,184,122.90	39° 56' 37.529 N	104° 50' 35.931 W
5,300.0	7.94	98.00	5,249.7	-116.1	712.1	1,223,039.37	3,184,136.59	39° 56' 37.510 N	104° 50' 35.756 W
5,400.0	7.94	98.00	5,348.7	-118.1	725.7	1,223,037.55	3,184,150.28	39° 56' 37.491 N	104° 50' 35.580 W
5,500.0	7.94	98.00	5,447.8	-120.0	739.4	1,223,035.73	3,184,163.98	39° 56' 37.472 N	104° 50' 35.405 W
5,600.0	7.94	98.00	5,546.8	-121.9	753.1	1,223,033.90	3,184,177.67	39° 56' 37.453 N	104° 50' 35.229 W
5,700.0	7.94	98.00	5,645.9	-123.8	766.8	1,223,032.08	3,184,191.36	39° 56' 37.434 N	104° 50' 35.053 W
5,800.0	7.94	98.00	5,744.9	-125.8	780.5	1,223,030.26	3,184,205.05	39° 56' 37.415 N	104° 50' 34.878 W
5,900.0	7.94	98.00	5,844.0	-127.7	794.1	1,223,028.44	3,184,218.75	39° 56' 37.396 N	104° 50' 34.702 W
6,000.0	7.94	98.00	5,943.0	-129.6	807.8	1,223,026.62	3,184,232.44	39° 56' 37.377 N	104° 50' 34.526 W
6,100.0	7.94	98.00	6,042.0	-131.5	821.5	1,223,024.79	3,184,246.13	39° 56' 37.358 N	104° 50' 34.351 W
6,200.0	7.94	98.00	6,141.1	-133.5	835.2	1,223,022.97	3,184,259.82	39° 56' 37.339 N	104° 50' 34.175 W
6,300.0	7.94	98.00	6,240.1	-135.4	848.8	1,223,021.15	3,184,273.51	39° 56' 37.320 N	104° 50' 34.000 W
6,400.0	7.94	98.00	6,339.2	-137.3	862.5	1,223,019.33	3,184,287.21	39° 56' 37.301 N	104° 50' 33.824 W
6,500.0	7.94	98.00	6,438.2	-139.2	876.2	1,223,017.50	3,184,300.90	39° 56' 37.282 N	104° 50' 33.648 W

Ward Petroleum Corp

Survey Report - Geographic

Company:	Ward Petroleum	Local Co-ordinate Reference:	Site Sharp Pad
Project:	West Brighton Adams, CO	TVD Reference:	WELL @ 5037.0usft (Original Well Elev)
Site:	Sharp Pad	MD Reference:	WELL @ 5037.0usft (Original Well Elev)
Well:	Sharp 25-1-10HC	North Reference:	True
Wellbore:	State Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	State Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.0	7.94	98.00	6,537.2	-141.1	889.9	1,223,015.68	3,184,314.59	39° 56' 37.263 N	104° 50' 33.473 W
6,700.0	7.94	98.00	6,636.3	-143.1	903.6	1,223,013.86	3,184,328.28	39° 56' 37.244 N	104° 50' 33.297 W
6,800.0	7.94	98.00	6,735.3	-145.0	917.2	1,223,012.04	3,184,341.98	39° 56' 37.225 N	104° 50' 33.121 W
6,900.0	7.94	98.00	6,834.4	-146.9	930.9	1,223,010.21	3,184,355.67	39° 56' 37.206 N	104° 50' 32.946 W
7,000.0	7.94	98.00	6,933.4	-148.8	944.6	1,223,008.39	3,184,369.36	39° 56' 37.187 N	104° 50' 32.770 W
7,100.0	7.94	98.00	7,032.4	-150.8	958.3	1,223,006.57	3,184,383.05	39° 56' 37.168 N	104° 50' 32.595 W
7,200.0	7.94	98.00	7,131.5	-152.7	972.0	1,223,004.75	3,184,396.74	39° 56' 37.149 N	104° 50' 32.419 W
7,300.0	7.94	98.00	7,230.5	-154.6	985.6	1,223,002.93	3,184,410.44	39° 56' 37.130 N	104° 50' 32.243 W
7,318.2	7.94	98.00	7,248.5	-155.0	988.1	1,223,002.59	3,184,412.93	39° 56' 37.126 N	104° 50' 32.211 W
7,400.0	12.16	140.00	7,329.2	-162.4	999.3	1,222,995.28	3,184,424.13	39° 56' 37.053 N	104° 50' 32.068 W
7,500.0	20.79	158.53	7,425.1	-187.0	1,012.6	1,222,970.74	3,184,437.61	39° 56' 36.810 N	104° 50' 31.897 W
7,600.0	30.25	166.16	7,515.2	-228.1	1,025.1	1,222,929.76	3,184,450.47	39° 56' 36.404 N	104° 50' 31.736 W
7,700.0	39.96	170.37	7,596.9	-284.3	1,036.5	1,222,873.58	3,184,462.31	39° 56' 35.848 N	104° 50' 31.590 W
7,800.0	49.77	173.15	7,667.7	-354.1	1,046.5	1,222,803.93	3,184,472.78	39° 56' 35.159 N	104° 50' 31.462 W
7,900.0	59.62	175.21	7,725.5	-435.1	1,054.7	1,222,722.90	3,184,481.55	39° 56' 34.357 N	104° 50' 31.357 W
8,000.0	69.51	176.90	7,768.4	-525.1	1,060.8	1,222,632.97	3,184,488.37	39° 56' 33.468 N	104° 50' 31.278 W
8,100.0	79.41	178.37	7,795.1	-621.3	1,064.8	1,222,536.86	3,184,493.01	39° 56' 32.518 N	104° 50' 31.228 W
8,200.0	89.31	179.76	7,805.0	-720.6	1,066.4	1,222,437.50	3,184,495.36	39° 56' 31.536 N	104° 50' 31.207 W
8,207.0	90.00	179.85	7,805.0	-727.6	1,066.4	1,222,430.54	3,184,495.43	39° 56' 31.467 N	104° 50' 31.207 W
8,300.0	90.00	179.85	7,805.0	-820.6	1,066.6	1,222,337.51	3,184,496.35	39° 56' 30.548 N	104° 50' 31.204 W
8,400.0	90.00	179.85	7,805.0	-920.6	1,066.9	1,222,237.51	3,184,497.35	39° 56' 29.559 N	104° 50' 31.200 W
8,500.0	90.00	179.85	7,805.0	-1,020.6	1,067.1	1,222,137.52	3,184,498.34	39° 56' 28.571 N	104° 50' 31.197 W
8,600.0	90.00	179.85	7,805.0	-1,120.6	1,067.4	1,222,037.52	3,184,499.33	39° 56' 27.583 N	104° 50' 31.194 W
8,700.0	90.00	179.85	7,805.0	-1,220.6	1,067.7	1,221,937.53	3,184,500.32	39° 56' 26.595 N	104° 50' 31.191 W
8,800.0	90.00	179.85	7,805.0	-1,320.6	1,067.9	1,221,837.53	3,184,501.32	39° 56' 25.606 N	104° 50' 31.188 W
8,900.0	90.00	179.85	7,805.0	-1,420.6	1,068.2	1,221,737.54	3,184,502.31	39° 56' 24.618 N	104° 50' 31.184 W
9,000.0	90.00	179.85	7,805.0	-1,520.6	1,068.4	1,221,637.54	3,184,503.30	39° 56' 23.630 N	104° 50' 31.181 W
9,100.0	90.00	179.85	7,805.0	-1,620.6	1,068.7	1,221,537.55	3,184,504.29	39° 56' 22.641 N	104° 50' 31.178 W
9,200.0	90.00	179.85	7,805.0	-1,720.6	1,068.9	1,221,437.55	3,184,505.29	39° 56' 21.653 N	104° 50' 31.175 W
9,300.0	90.00	179.85	7,805.0	-1,820.6	1,069.2	1,221,337.56	3,184,506.28	39° 56' 20.665 N	104° 50' 31.171 W
9,400.0	90.00	179.85	7,805.0	-1,920.6	1,069.4	1,221,237.56	3,184,507.27	39° 56' 19.677 N	104° 50' 31.168 W
9,500.0	90.00	179.85	7,805.0	-2,020.6	1,069.7	1,221,137.57	3,184,508.26	39° 56' 18.688 N	104° 50' 31.165 W
9,600.0	90.00	179.85	7,805.0	-2,120.6	1,069.9	1,221,037.57	3,184,509.25	39° 56' 17.700 N	104° 50' 31.162 W
9,700.0	90.00	179.85	7,805.0	-2,220.6	1,070.2	1,220,937.57	3,184,510.25	39° 56' 16.712 N	104° 50' 31.159 W
9,800.0	90.00	179.85	7,805.0	-2,320.6	1,070.5	1,220,837.58	3,184,511.24	39° 56' 15.724 N	104° 50' 31.155 W
9,900.0	90.00	179.85	7,805.0	-2,420.6	1,070.7	1,220,737.58	3,184,512.23	39° 56' 14.735 N	104° 50' 31.152 W
10,000.0	90.00	179.85	7,805.0	-2,520.6	1,071.0	1,220,637.59	3,184,513.22	39° 56' 13.747 N	104° 50' 31.149 W
10,100.0	90.00	179.85	7,805.0	-2,620.6	1,071.2	1,220,537.59	3,184,514.22	39° 56' 12.759 N	104° 50' 31.146 W
10,200.0	90.00	179.85	7,805.0	-2,720.6	1,071.5	1,220,437.60	3,184,515.21	39° 56' 11.770 N	104° 50' 31.143 W
10,300.0	90.00	179.85	7,805.0	-2,820.6	1,071.7	1,220,337.60	3,184,516.20	39° 56' 10.782 N	104° 50' 31.139 W
10,400.0	90.00	179.85	7,805.0	-2,920.6	1,072.0	1,220,237.61	3,184,517.19	39° 56' 9.794 N	104° 50' 31.136 W
10,500.0	90.00	179.85	7,805.0	-3,020.6	1,072.2	1,220,137.61	3,184,518.19	39° 56' 8.806 N	104° 50' 31.133 W
10,600.0	90.00	179.85	7,805.0	-3,120.6	1,072.5	1,220,037.62	3,184,519.18	39° 56' 7.817 N	104° 50' 31.130 W
10,700.0	90.00	179.85	7,805.0	-3,220.6	1,072.7	1,219,937.62	3,184,520.17	39° 56' 6.829 N	104° 50' 31.127 W
10,800.0	90.00	179.85	7,805.0	-3,320.6	1,073.0	1,219,837.63	3,184,521.16	39° 56' 5.841 N	104° 50' 31.123 W
10,900.0	90.00	179.85	7,805.0	-3,420.6	1,073.3	1,219,737.63	3,184,522.16	39° 56' 4.853 N	104° 50' 31.120 W
11,000.0	90.00	179.85	7,805.0	-3,520.6	1,073.5	1,219,637.64	3,184,523.15	39° 56' 3.864 N	104° 50' 31.117 W
11,100.0	90.00	179.85	7,805.0	-3,620.6	1,073.8	1,219,537.64	3,184,524.14	39° 56' 2.876 N	104° 50' 31.114 W
11,200.0	90.00	179.85	7,805.0	-3,720.6	1,074.0	1,219,437.65	3,184,525.13	39° 56' 1.888 N	104° 50' 31.110 W
11,300.0	90.00	179.85	7,805.0	-3,820.6	1,074.3	1,219,337.65	3,184,526.12	39° 56' 0.899 N	104° 50' 31.107 W
11,400.0	90.00	179.85	7,805.0	-3,920.6	1,074.5	1,219,237.66	3,184,527.12	39° 55' 59.911 N	104° 50' 31.104 W
11,500.0	90.00	179.85	7,805.0	-4,020.6	1,074.8	1,219,137.66	3,184,528.11	39° 55' 58.923 N	104° 50' 31.101 W
11,600.0	90.00	179.85	7,805.0	-4,120.6	1,075.0	1,219,037.67	3,184,529.10	39° 55' 57.935 N	104° 50' 31.098 W
11,700.0	90.00	179.85	7,805.0	-4,220.6	1,075.3	1,218,937.67	3,184,530.09	39° 55' 56.946 N	104° 50' 31.094 W
11,800.0	90.00	179.85	7,805.0	-4,320.6	1,075.5	1,218,837.68	3,184,531.09	39° 55' 55.958 N	104° 50' 31.091 W

Ward Petroleum Corp

Survey Report - Geographic

Company: Ward Petroleum	Local Co-ordinate Reference: Site Sharp Pad
Project: West Brighton Adams, CO	TVD Reference: WELL @ 5037.0usft (Original Well Elev)
Site: Sharp Pad	MD Reference: WELL @ 5037.0usft (Original Well Elev)
Well: Sharp 25-1-10HC	North Reference: True
Wellbore: State Plan #1	Survey Calculation Method: Minimum Curvature
Design: State Plan #1	Database: EDM 5000.1 Single User Db

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
11,900.0	90.00	179.85	7,805.0	-4,420.6	1,075.8	1,218,737.68	3,184,532.08	39° 55' 54.970 N	104° 50' 31.088 W	
12,000.0	90.00	179.85	7,805.0	-4,520.6	1,076.1	1,218,637.69	3,184,533.07	39° 55' 53.982 N	104° 50' 31.085 W	
12,100.0	90.00	179.85	7,805.0	-4,620.6	1,076.3	1,218,537.69	3,184,534.06	39° 55' 52.993 N	104° 50' 31.082 W	
12,200.0	90.00	179.85	7,805.0	-4,720.6	1,076.6	1,218,437.70	3,184,535.06	39° 55' 52.005 N	104° 50' 31.078 W	
12,300.0	90.00	179.85	7,805.0	-4,820.6	1,076.8	1,218,337.70	3,184,536.05	39° 55' 51.017 N	104° 50' 31.075 W	
12,400.0	90.00	179.85	7,805.0	-4,920.6	1,077.1	1,218,237.71	3,184,537.04	39° 55' 50.029 N	104° 50' 31.072 W	
12,500.0	90.00	179.85	7,805.0	-5,020.6	1,077.3	1,218,137.71	3,184,538.03	39° 55' 49.040 N	104° 50' 31.069 W	
12,524.0	90.00	179.85	7,805.0	-5,044.6	1,077.4	1,218,113.69	3,184,538.27	39° 55' 48.803 N	104° 50' 31.068 W	
12,565.2	90.00	179.85	7,805.0	-5,085.8	1,077.5	1,218,072.56	3,184,538.68	39° 55' 48.396 N	104° 50' 31.067 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BHL 10HC - hit/miss target - Shape - Point	0.00	0.00	7,805.0	-5,085.8	1,077.5	1,218,072.56	3,184,538.68	39° 55' 48.396 N	104° 50' 31.067 W	
Landing Point 10HC - plan hits target center - Point	0.00	0.00	7,805.0	-727.6	1,066.4	1,222,430.54	3,184,495.43	39° 56' 31.467 N	104° 50' 31.207 W	

Checked By: _____	Approved By: _____	Date: _____
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