

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**SEKICH 23-17**

**SEKICH 37-17**

**SEKICH 37-17**

**Plan: SEKICH 37-17 (wp01)**

## **Standard Planning Report**

**19 November, 2010**



Project: COLORADO NORTHERN ZONE - 83  
Site: SEKICH 23-17  
Well: SEKICH 37-17  
Wellbore: SEKICH 37-17  
Section:  
SHL:  
Design: SEKICH 37-17 (wp01)  
Latitude: 40.219242  
Longitude: -104.912714  
GL: 4865.00  
KB: WELL @ 4865.00ft (Original Well Elev)

T

M

Azimuths to True North

Magnetic North: 9.00°

Magnetic Field

Strength: 53080.3nT

Dip Angle: 66.90°

Date: 11/18/2010

Model: IGRF2010



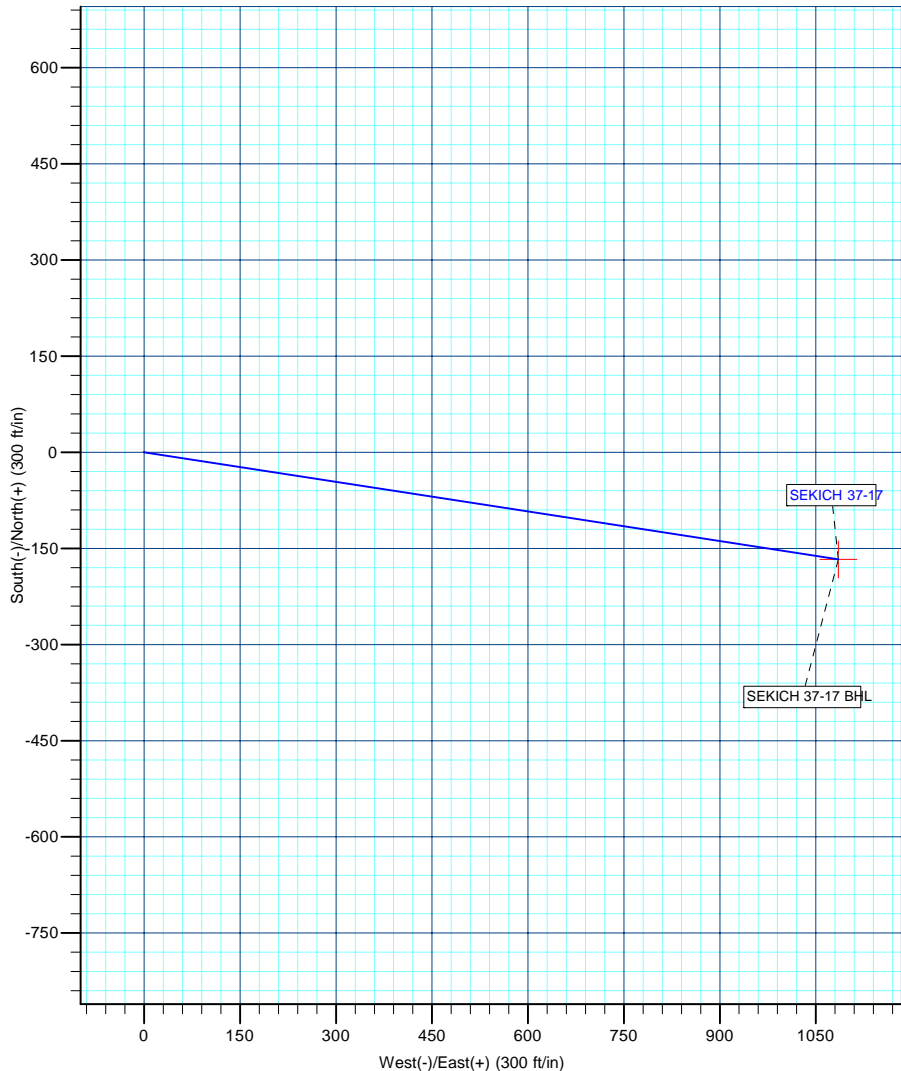
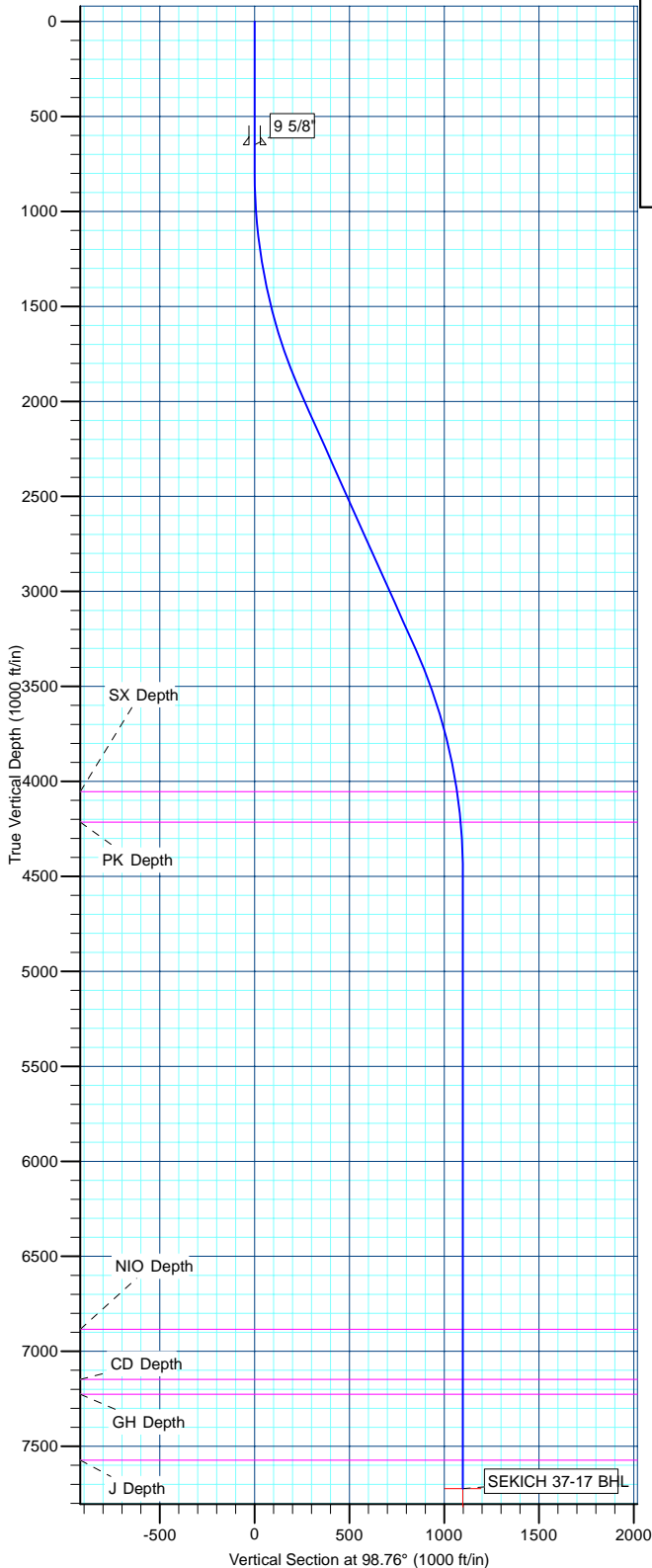
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4054.00	4251.11	SX Depth
4215.00	4413.27	PK Depth
6884.00	7082.62	NIO Depth
7148.00	7346.62	CD Depth
7226.00	7424.62	GH Depth
7573.00	7771.62	J Depth

WELL DETAILS: SEKICH 37-17						
+N/-S	+E/-W	Northing	Ground Level: Easting	4865.00	Latitude	Slot
0.00	0.00	1323255.08	3164000.14	40.219242	-104.912714	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SEKICH 37-17 BHL	7723.00	-167.17	1085.18	40.218783	-104.908828	Point

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	2008.74	24.17	98.76	1973.20	-38.25	248.31	2.00	98.76	251.24	
4	3462.88	24.17	98.76	3299.80	-128.92	836.87	0.00	0.00	846.74	
5	4671.62	0.00	0.00	4473.00	-167.17	1085.18	2.00	180.00	1097.99	
6	7921.62	0.00	0.00	7723.00	-167.17	1085.18	0.00	0.00	1097.99	SEKICH 37-17 BHL

CASING DETAILS			
TVD	MD	Name	Size
650.00	650.00	9 5/8"	9-5/8



<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site:</b>	SEKICH 23-17	<b>North Reference:</b>	True
<b>Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	SEKICH 37-17		
<b>Design:</b>	SEKICH 37-17 (wp01)		

<b>Project</b>	COLORADO NORTHERN ZONE - 83		
<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 Northern Zone		

Site						SEKICH 23-17							
Site Position: From: Position Uncertainty:			Lat/Long  0.00 ft			Northing:		1,323,280.39 ft		Latitude:		40.219312	
						Easting:		3,163,969.26 ft		Longitude:		-104.912824	
						Slot Radius:		0 "		Grid Convergence:		0.38	

Well	SEKICH 37-17					
Well Position	+N-S	-25.51 ft	Northing:	1,323,255.08 ft	Latitude:	40.219242
	+E-W	30.72 ft	Easting:	3,164,000.14 ft	Longitude:	-104.912714
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,865.00 ft

<b>Wellbore</b>	SEKICH 37-17				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/18/2010	9.00	66.90	53,080

<b>Design</b>	SEKICH 37-17 (wp01)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	98.76

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,008.74	24.17	98.76	1,973.20	-38.25	248.31	2.00	2.00	0.00	98.76	
3,462.88	24.17	98.76	3,299.80	-128.92	836.87	0.00	0.00	0.00	0.00	
4,671.62	0.00	0.00	4,473.00	-167.17	1,085.18	2.00	-2.00	0.00	180.00	
7,921.62	0.00	0.00	7,723.00	-167.17	1,085.18	0.00	0.00	0.00	0.00	SEKICH 37-17 BHL

<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site:</b>	SEKICH 23-17	<b>North Reference:</b>	True
<b>Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	SEKICH 37-17		
<b>Design:</b>	SEKICH 37-17 (wp01)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	2.00	98.76	899.98	-0.27	1.72	1.75	2.00	2.00	0.00
1,000.00	4.00	98.76	999.84	-1.06	6.90	6.98	2.00	2.00	0.00
1,100.00	6.00	98.76	1,099.45	-2.39	15.51	15.69	2.00	2.00	0.00
1,200.00	8.00	98.76	1,198.70	-4.24	27.55	27.88	2.00	2.00	0.00
1,300.00	10.00	98.76	1,297.47	-6.63	43.02	43.52	2.00	2.00	0.00
1,400.00	12.00	98.76	1,395.62	-9.53	61.87	62.60	2.00	2.00	0.00
1,500.00	14.00	98.76	1,493.06	-12.96	84.10	85.10	2.00	2.00	0.00
1,600.00	16.00	98.76	1,589.64	-16.90	109.68	110.98	2.00	2.00	0.00
1,700.00	18.00	98.76	1,685.27	-21.35	138.58	140.21	2.00	2.00	0.00
1,800.00	20.00	98.76	1,779.82	-26.30	170.75	172.77	2.00	2.00	0.00
1,900.00	22.00	98.76	1,873.17	-31.76	206.17	208.60	2.00	2.00	0.00
2,000.00	24.00	98.76	1,965.21	-37.71	244.79	247.67	2.00	2.00	0.00
2,008.74	24.17	98.76	1,973.20	-38.25	248.31	251.24	2.00	2.00	0.00
2,100.00	24.17	98.76	2,056.45	-43.94	285.25	288.61	0.00	0.00	0.00
2,200.00	24.17	98.76	2,147.68	-50.18	325.72	329.57	0.00	0.00	0.00
2,300.00	24.17	98.76	2,238.91	-56.41	366.20	370.52	0.00	0.00	0.00
2,400.00	24.17	98.76	2,330.14	-62.65	406.67	411.47	0.00	0.00	0.00
2,500.00	24.17	98.76	2,421.37	-68.88	447.15	452.42	0.00	0.00	0.00
2,600.00	24.17	98.76	2,512.60	-75.12	487.62	493.38	0.00	0.00	0.00
2,700.00	24.17	98.76	2,603.83	-81.35	528.10	534.33	0.00	0.00	0.00
2,800.00	24.17	98.76	2,695.06	-87.59	568.57	575.28	0.00	0.00	0.00
2,900.00	24.17	98.76	2,786.29	-93.82	609.05	616.23	0.00	0.00	0.00
3,000.00	24.17	98.76	2,877.52	-100.06	649.52	657.18	0.00	0.00	0.00
3,100.00	24.17	98.76	2,968.75	-106.30	690.00	698.14	0.00	0.00	0.00
3,200.00	24.17	98.76	3,059.98	-112.53	730.47	739.09	0.00	0.00	0.00
3,300.00	24.17	98.76	3,151.21	-118.77	770.95	780.04	0.00	0.00	0.00
3,400.00	24.17	98.76	3,242.44	-125.00	811.42	820.99	0.00	0.00	0.00
3,462.88	24.17	98.76	3,299.80	-128.92	836.87	846.74	0.00	0.00	0.00
3,500.00	23.43	98.76	3,333.77	-131.20	851.68	861.73	2.00	-2.00	0.00
3,600.00	21.43	98.76	3,426.20	-137.01	889.39	899.88	2.00	-2.00	0.00
3,700.00	19.43	98.76	3,519.90	-142.33	923.89	934.79	2.00	-2.00	0.00
3,800.00	17.43	98.76	3,614.76	-147.14	955.14	966.41	2.00	-2.00	0.00
3,900.00	15.43	98.76	3,710.68	-151.45	983.10	994.70	2.00	-2.00	0.00
4,000.00	13.43	98.76	3,807.51	-155.24	1,007.73	1,019.62	2.00	-2.00	0.00
4,100.00	11.43	98.76	3,905.16	-158.52	1,029.01	1,041.15	2.00	-2.00	0.00
4,200.00	9.43	98.76	4,003.51	-161.28	1,046.90	1,059.25	2.00	-2.00	0.00
4,251.11	8.41	98.76	4,054.00	-162.48	1,054.74	1,067.18	2.00	-2.00	0.00
SX Depth									
4,300.00	7.43	98.76	4,102.42	-163.51	1,061.40	1,073.92	2.00	-2.00	0.00
4,400.00	5.43	98.76	4,201.79	-165.22	1,072.47	1,085.12	2.00	-2.00	0.00
4,413.27	5.17	98.76	4,215.00	-165.40	1,073.68	1,086.34	2.00	-2.00	0.00
PK Depth									

<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
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<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site:</b>	SEKICH 23-17	<b>North Reference:</b>	True
<b>Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	SEKICH 37-17		
<b>Design:</b>	SEKICH 37-17 (wp01)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.00	3.43	98.76	4,301.48	-166.39	1,080.11	1,092.85	2.00	-2.00	0.00
4,600.00	1.43	98.76	4,401.39	-167.04	1,084.30	1,097.09	2.00	-2.00	0.00
4,671.62	0.00	0.00	4,473.00	-167.17	1,085.18	1,097.99	2.00	-2.00	0.00
4,700.00	0.00	0.00	4,501.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
4,800.00	0.00	0.00	4,601.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
4,900.00	0.00	0.00	4,701.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,000.00	0.00	0.00	4,801.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,100.00	0.00	0.00	4,901.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,200.00	0.00	0.00	5,001.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,300.00	0.00	0.00	5,101.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,400.00	0.00	0.00	5,201.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,500.00	0.00	0.00	5,301.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,600.00	0.00	0.00	5,401.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,700.00	0.00	0.00	5,501.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,800.00	0.00	0.00	5,601.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
5,900.00	0.00	0.00	5,701.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,000.00	0.00	0.00	5,801.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,100.00	0.00	0.00	5,901.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,200.00	0.00	0.00	6,001.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,300.00	0.00	0.00	6,101.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,400.00	0.00	0.00	6,201.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,500.00	0.00	0.00	6,301.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,600.00	0.00	0.00	6,401.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,700.00	0.00	0.00	6,501.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,800.00	0.00	0.00	6,601.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
6,900.00	0.00	0.00	6,701.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,000.00	0.00	0.00	6,801.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,082.62	0.00	0.00	6,884.00	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
<b>NIO Depth</b>									
7,100.00	0.00	0.00	6,901.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,200.00	0.00	0.00	7,001.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,300.00	0.00	0.00	7,101.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,346.62	0.00	0.00	7,148.00	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
<b>CD Depth</b>									
7,400.00	0.00	0.00	7,201.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,424.62	0.00	0.00	7,226.00	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
<b>GH Depth</b>									
7,500.00	0.00	0.00	7,301.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,600.00	0.00	0.00	7,401.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,700.00	0.00	0.00	7,501.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,771.62	0.00	0.00	7,573.00	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
<b>J Depth</b>									
7,800.00	0.00	0.00	7,601.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,900.00	0.00	0.00	7,701.38	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
7,921.62	0.00	0.00	7,723.00	-167.17	1,085.18	1,097.99	0.00	0.00	0.00
<b>SEKICH 37-17 BHL</b>									

<b>Database:</b>	edm5000p	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site:</b>	SEKICH 23-17	<b>North Reference:</b>	True
<b>Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	SEKICH 37-17		
<b>Design:</b>	SEKICH 37-17 (wp01)		

#### Design Targets

##### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
SEKICH 37-17 BHL	0.00	0.00	7,723.00	-167.17	1,085.18	1,323,095.10	3,165,086.41	40.218783	-104.908828
- plan hits target center									
- Point									

#### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
650.00	650.00	9 5/8"	9-5/8	12-1/4

#### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,251.11	4,054.00	SX Depth			
4,413.27	4,215.00	PK Depth			
7,082.62	6,884.00	NIO Depth			
7,346.62	7,148.00	CD Depth			
7,424.62	7,226.00	GH Depth			
7,771.62	7,573.00	J Depth			

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**SEKICH 23-17**

**SEKICH 37-17**

**SEKICH 37-17**

**SEKICH 37-17 (wp01)**

## **Anticollision Summary Report**

**22 November, 2010**



**Weatherford®**

# APC Anticollision Summary Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Reference Site:</b>	SEKICH 23-17	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	SEKICH 37-17	<b>Database:</b>	edm5000p
<b>Reference Design:</b>	SEKICH 37-17 (wp01)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	SEKICH 37-17 (wp01)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.00ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.00 ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 11/19/2010				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	7,921.62	SEKICH 37-17 (wp01) (SEKICH 37-17)	MWD	MWD - Standard	

<b>Summary</b>						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
SEKICH 23-17						
HSR SEKICH #15-17 - HSR SEKICH #15-17 - HSR SEK	2,295.18	2,223.98	406.25	391.68	27.889	CC
HSR SEKICH #15-17 - HSR SEKICH #15-17 - HSR SEK	2,300.00	2,228.36	406.25	391.63	27.789	ES
HSR SEKICH #15-17 - HSR SEKICH #15-17 - HSR SEK	7,600.00	7,330.00	932.93	892.29	22.954	SF
HSR-SEKICH #14-17 - HSR-SEKICH #14-17 - HSR-SEK						Out of range
SEKICH 19-17 - SEKICH 19-17 - SEKICH 19-17 (wp02)	800.00	800.00	49.91	46.54	14.804	CC, ES
SEKICH 19-17 - SEKICH 19-17 - SEKICH 19-17 (wp02)	900.00	898.18	53.12	49.33	14.003	SF
SEKICH 20-17 - SEKICH 20-17 - SEKICH 20-17 (wp01)	800.00	800.00	9.75	6.38	2.893	CC, ES
SEKICH 20-17 - SEKICH 20-17 - SEKICH 20-17 (wp01)	900.00	900.07	10.84	7.05	2.855	SF
SEKICH 23-17 - SEKICH 23-17 - SEKICH 23-17 (wp02)	800.00	800.00	39.92	36.55	11.841	CC, ES
SEKICH 23-17 - SEKICH 23-17 - SEKICH 23-17 (wp02)	900.00	898.86	42.74	38.94	11.248	SF
SEKICH 35-17 - SEKICH 35-17 - SEKICH 35-17 (wp01)	800.00	800.00	19.96	16.59	5.921	CC, ES, SF
SEKICH 36-17 - SEKICH 36-17 - SEKICH 36-17 (wp01)	800.00	800.00	29.93	26.56	8.879	CC, ES
SEKICH 36-17 - SEKICH 36-17 - SEKICH 36-17 (wp01)	900.00	899.05	32.88	29.09	8.679	SF
SEKICH FARMS II UNIT #1 - SEKICH FARMS II UNIT #						Out of range



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Reference Site:</b>	SEKICH 23-17	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	SEKICH 37-17	<b>Database:</b>	edm5000p
<b>Reference Design:</b>	SEKICH 37-17 (wp01)	<b>Offset TVD Reference:</b>	Offset Datum

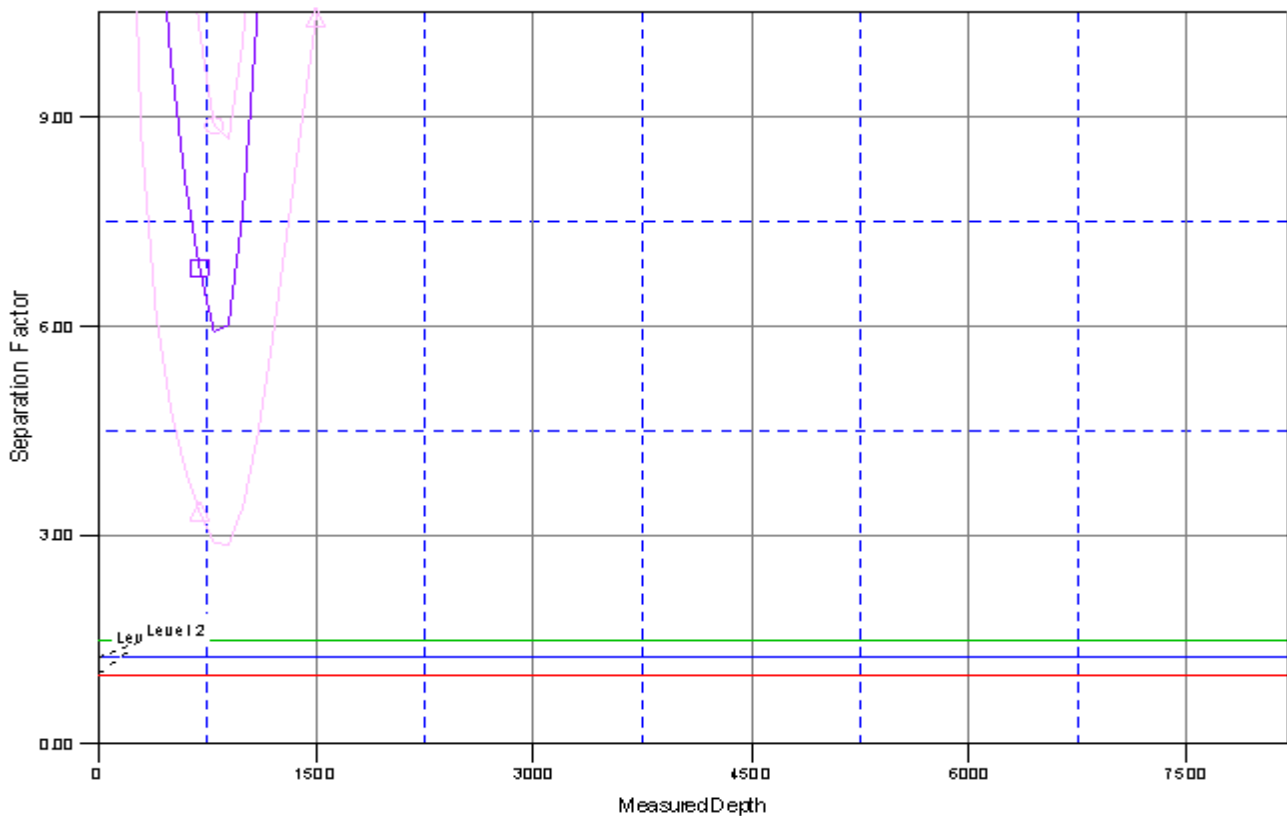
Reference Depths are relative to WELL @ 4865.00ft (Original Well Elev) Coordinates are relative to: SEKICH 37-17  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 Grid Convergence at Surface is: 0.38°



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well SEKICH 37-17
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Reference Site:</b>	SEKICH 23-17	<b>MD Reference:</b>	WELL @ 4865.00ft (Original Well Elev)
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SEKICH 37-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	SEKICH 37-17	<b>Database:</b>	edm5000p
<b>Reference Design:</b>	SEKICH 37-17 (wp01)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4865.00ft (Original Well Elev) Coordinates are relative to: SEKICH 37-17  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 Grid Convergence at Surface is: 0.38°

## Separation Factor Plot



## LEGEND

CH35-17 (wp01)\VD ✱ HSR SEKICH#15-17, HSR SEKICH#15-17, HSR SEKICH#15-17 (wp01)\VD ✱ SEKICH 23-17, SEKICH 23-17, SE  
 CH19-17 (wp02)\VD ✱ SEKICH20-17, SEKICH 20-17, SEKICH 20-17 (wp01)\VD ✱ SEKICH 36-17, SEKICH 36-17, SE