

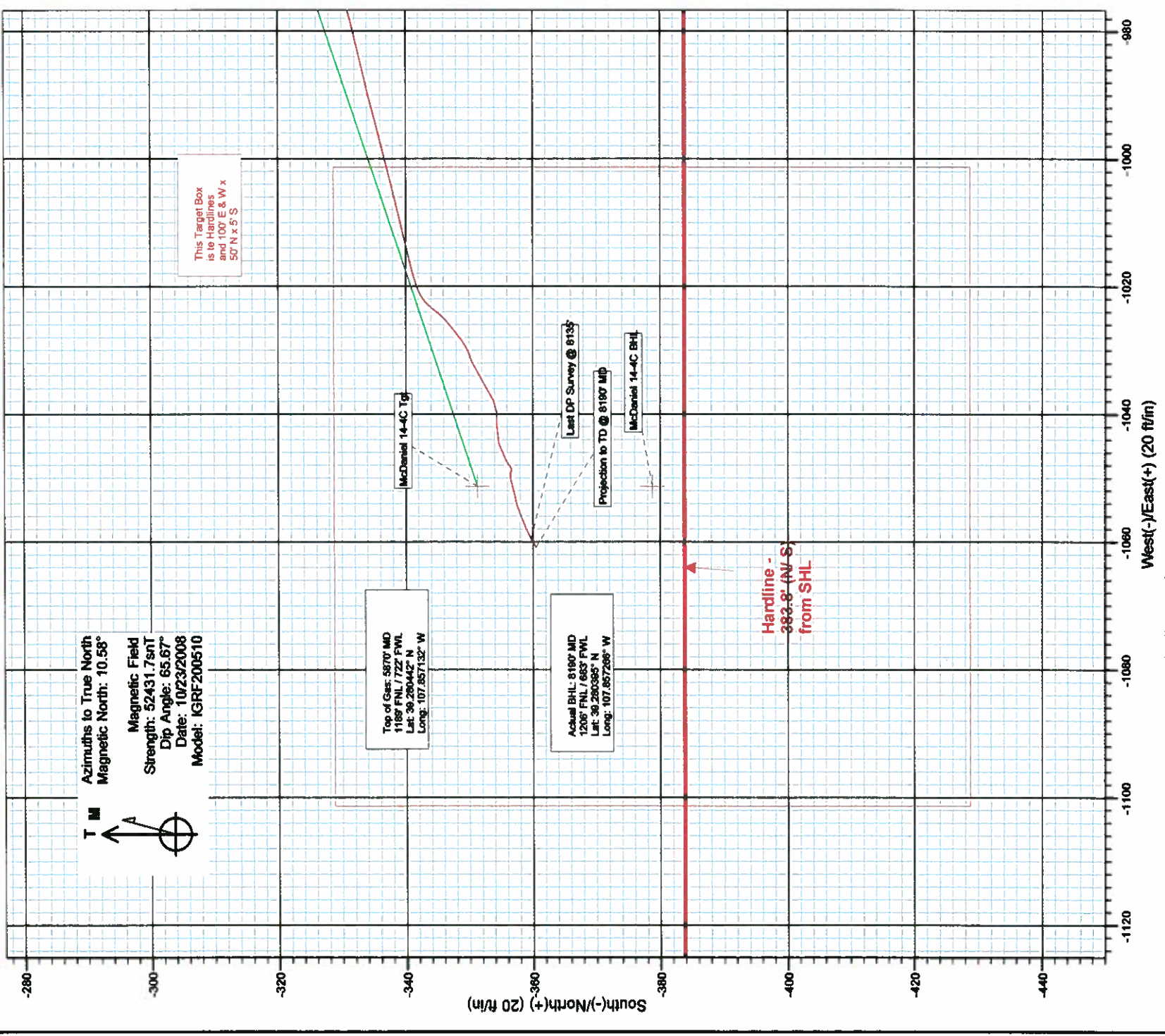


Plains Exploration & Production Company

Project: Brush Creek
Site: NENW Sec 14-T9S-R94W
Well: McDaniel 14-4C
Wellbore: DD
Design: DD



Directional Plus
A Division of Cathedral Energy Services Ltd.



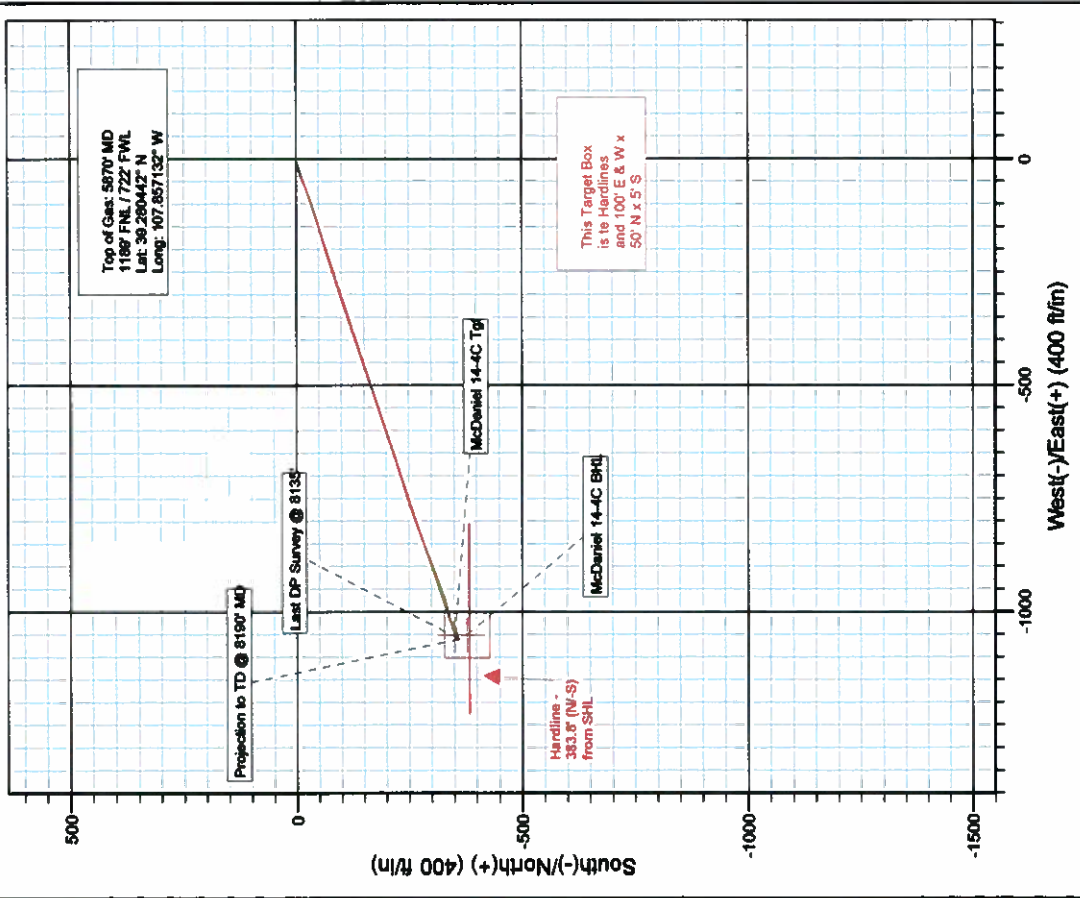
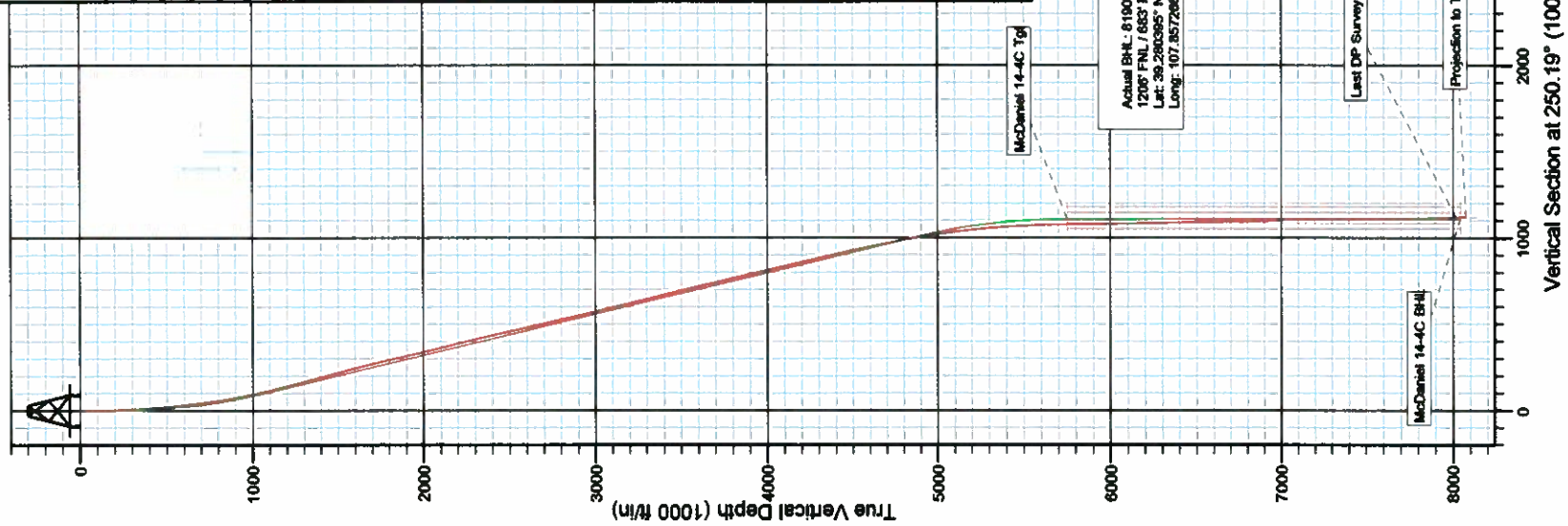


Plains Exploration & Production Company

Project: Brush Creek
Site: NENW Sec 14-T9S-R94W
Well: McDaniel 14-4C
Wellbore: DD
Design: DD



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Azimuths to True North
Magnetic North: 10.58°
Magnetic Field
Strength: 52431.7snT
Dip Angle: 65.67°
Date: 10/23/2008
Model: IGRF200510

DESIGN DETAILS: DD

88810..JS
McDaniel 14-4C NBE @ 7310.0R (Grey Wolf 18)

Target	McDaniel 14-4C BHL	Azimuth	Origin Type	NUS	EW	TVD
McDaniel 14-4C BHL	250.19	Spot	0.0	0.0	0.0	0.0

Survey Report

Company: Occidental Petroleum Corporation	Local Co-ordinate Reference: Well McDaniel 14-4C
Project: Brush Creek	McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Site: NENW Sec 14-T9S-R94W	McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Well: McDaniel 14-4C	True
Wellbore: DD	Minimum Curvature
Designer: DD	EDM 2003.21 US Multi User DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,209.0	14.10	253.20	1,197.1	-44.7	-133.6	140.8	0.53	0.52	
1,305.0	14.40	253.90	1,290.2	-51.3	-156.2	164.4	0.36	0.31	
1,401.0	14.50	253.30	1,383.2	-58.1	-179.2	188.3	0.19	0.10	
1,482.0	14.90	253.10	1,461.5	-64.1	-198.9	208.8	0.50	0.49	
1,561.0	14.50	252.80	1,537.9	-69.9	-218.0	228.8	0.52	-0.51	
1,657.0	14.20	252.40	1,630.9	-77.0	-240.7	252.6	0.33	-0.31	
1,753.0	13.50	252.30	1,724.1	-84.0	-262.6	275.6	0.73	-0.73	
1,848.0	12.80	250.80	1,816.6	-90.8	-283.1	297.2	0.82	-0.74	
1,944.0	12.90	251.00	1,910.2	-97.8	-303.3	318.5	0.11	0.10	
2,040.0	13.50	249.90	2,003.7	-105.2	-324.0	340.4	0.68	0.62	
2,136.0	13.80	250.00	2,097.0	-112.9	-345.3	363.1	0.31	0.31	
2,231.0	14.20	252.20	2,189.2	-120.4	-367.0	386.1	0.70	0.42	
2,327.0	13.50	251.20	2,282.4	-127.6	-388.8	409.1	0.77	-0.73	
2,423.0	13.10	251.20	2,375.8	-134.7	-409.7	431.1	0.42	-0.42	
2,519.0	13.10	252.30	2,469.3	-141.5	-430.4	452.9	0.28	0.00	
2,614.0	12.30	250.80	2,562.0	-148.1	-450.2	473.8	0.93	-0.84	
2,710.0	12.20	251.20	2,655.8	-154.8	-469.4	494.1	0.17	-0.10	
2,806.0	12.90	251.30	2,749.5	-161.5	-489.2	515.0	0.73	0.73	
2,902.0	13.40	251.90	2,843.0	-168.4	-509.9	536.8	0.54	0.52	
2,997.0	13.20	251.30	2,935.4	-175.3	-530.7	558.7	0.26	-0.21	
3,093.0	13.10	250.50	3,028.9	-182.5	-551.3	580.5	0.22	-0.10	
3,189.0	13.70	251.70	3,122.3	-189.7	-572.3	602.7	0.69	0.62	
3,285.0	13.50	251.00	3,215.6	-196.9	-593.7	625.3	0.27	-0.21	
3,380.0	13.50	251.50	3,308.0	-204.0	-614.7	647.5	0.12	0.00	
3,476.0	14.10	251.10	3,401.2	-211.3	-636.4	670.4	0.63	0.62	
3,572.0	14.00	251.80	3,494.3	-218.8	-658.5	693.7	0.21	-0.10	
3,668.0	13.60	251.80	3,587.6	-225.9	-680.3	716.6	0.42	-0.42	
3,763.0	13.30	252.40	3,680.0	-232.7	-701.3	738.7	0.35	-0.32	
3,859.0	13.00	252.90	3,773.4	-239.2	-722.1	760.5	0.33	-0.31	
3,955.0	13.10	252.50	3,867.0	-245.7	-742.8	782.1	0.14	0.10	
4,050.0	13.40	251.20	3,959.4	-252.5	-763.5	803.9	0.45	0.32	
4,146.0	13.10	252.50	4,052.9	-259.3	-784.4	825.9	0.44	-0.31	
4,242.0	13.40	247.30	4,146.3	-266.9	-805.1	847.9	1.28	0.31	
4,338.0	13.30	249.80	4,239.7	-275.0	-825.7	870.0	0.61	-0.10	
4,433.0	13.10	250.10	4,332.2	-282.4	-846.1	891.7	0.22	-0.21	
4,529.0	12.50	249.00	4,425.8	-289.8	-866.0	913.0	0.87	-0.62	
4,625.0	12.20	250.00	4,519.6	-297.0	-885.2	933.5	0.38	-0.31	
4,721.0	10.90	248.80	4,613.7	-303.8	-903.2	952.7	1.39	-1.35	
4,816.0	10.70	249.20	4,707.0	-310.2	-919.8	970.5	0.22	-0.21	
4,912.0	10.50	248.60	4,801.4	-316.5	-936.3	988.2	0.24	-0.21	
5,008.0	9.40	248.70	4,895.9	-322.6	-951.8	1,004.8	1.15	-1.15	
5,103.0	8.60	251.00	4,989.7	-327.7	-965.7	1,019.6	0.92	-0.84	
5,199.0	7.60	257.00	5,084.8	-331.5	-978.7	1,033.1	1.36	-1.04	
5,295.0	6.50	256.00	5,180.1	-334.2	-990.1	1,044.8	1.15	-1.15	
5,391.0	5.10	255.50	5,275.6	-336.6	-999.5	1,054.5	1.46	-1.46	
5,486.0	4.10	256.70	5,370.2	-338.4	-1,008.9	1,062.0	1.06	-1.05	
5,582.0	3.20	256.60	5,466.1	-339.8	-1,012.9	1,068.1	0.94	-0.94	
5,678.0	2.90	255.40	5,561.9	-341.1	-1,017.8	1,073.2	0.32	-0.31	
5,774.0	1.60	239.90	5,657.8	-342.3	-1,021.4	1,076.9	1.48	-1.35	
5,870.0	0.70	216.00	5,753.8	-343.5	-1,022.9	1,078.7	1.04	-0.94	
5,965.0	0.50	223.00	5,848.8	-344.3	-1,023.5	1,079.6	0.22	-0.21	
6,061.0	0.70	219.40	5,944.8	-345.0	-1,024.1	1,080.5	0.21	0.21	
6,157.0	1.10	223.10	6,040.8	-346.2	-1,025.1	1,081.8	0.42	0.42	

Survey Report

Company: Occidental Petroleum Corporation	Local Co-ordinate Reference: Well McDaniel 14-4C
Project: Brush Creek	TVD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Site: NENW Sec 14-T8S-R64W	MD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Well: McDaniel 14-4C	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Designer: DD	Database: EDM 2003.21 US Multi User DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,252.0	1.30	235.00	6,135.8	-347.4	-1,026.6	1,083.6	0.34	0.21	
6,348.0	1.50	229.10	6,231.8	-348.9	-1,028.5	1,085.9	0.26	0.21	
6,444.0	0.80	258.30	6,327.7	-349.9	-1,030.2	1,087.8	0.87	-0.62	
6,542.0	1.10	244.60	6,425.7	-350.4	-1,031.6	1,089.5	0.32	0.20	
6,637.0	1.30	237.20	6,520.7	-351.4	-1,033.5	1,091.4	0.27	0.21	
6,733.0	1.70	243.60	6,616.6	-352.6	-1,035.7	1,093.9	0.45	0.42	
6,829.0	1.30	237.60	6,712.6	-353.8	-1,037.9	1,096.4	0.45	-0.42	
6,925.0	1.20	271.40	6,808.6	-354.4	-1,039.8	1,098.4	0.76	-0.10	
7,020.0	1.40	269.90	6,903.6	-354.4	-1,042.0	1,100.4	0.21	0.21	
7,116.0	1.80	257.90	6,999.5	-354.7	-1,044.6	1,103.0	0.54	0.42	
7,212.0	1.80	235.00	7,095.5	-355.9	-1,047.3	1,106.0	0.74	0.00	
7,307.0	0.20	260.60	7,190.5	-356.7	-1,048.7	1,107.5	1.75	-1.68	
7,403.0	0.10	307.60	7,286.5	-356.6	-1,048.9	1,107.7	0.12	-0.10	
7,499.0	0.30	286.60	7,382.5	-356.5	-1,049.3	1,108.0	0.22	0.21	
7,595.0	0.60	262.90	7,478.5	-356.5	-1,050.0	1,108.7	0.36	0.31	
7,690.0	0.70	248.50	7,573.5	-356.8	-1,051.0	1,109.7	0.20	0.11	
7,786.0	1.00	261.50	7,669.5	-357.1	-1,052.4	1,111.1	0.37	0.31	
7,882.0	1.10	253.50	7,765.4	-357.5	-1,054.1	1,112.9	0.18	0.10	
7,977.0	1.30	247.40	7,860.4	-358.2	-1,056.0	1,114.9	0.25	0.21	
8,073.0	1.40	247.70	7,956.4	-359.0	-1,058.1	1,117.1	0.10	0.10	
8,155.0	1.60	240.60	8,018.4	-359.7	-1,059.5	1,118.7	0.44	0.32	Last DP Survey @ 8135'
8,190.0	1.60	240.60	8,073.4	-360.5	-1,060.9	1,120.3	0.00	0.00	Projection to TD @ 8190' MD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
McDaniel 14-4C Tgt	0.00	0.00	5,752.0	-351.3	-1,051.3	1,535,682.72	2,332,825.48	39.280420	-107.857232
- survey misses target center by 29.5ft at 5868.7ft MD (5752.5 TVD, -343.5 N, -1022.9 E)									
- Point									
McDaniel 14-4C BHL	0.00	0.00	8,043.0	-378.8	-1,051.3	1,535,655.27	2,332,824.77	39.280345	-107.857232
- survey misses target center by 32.2ft at 8135.0ft MD (8018.4 TVD, -359.7 N, -1059.5 E)									
- Rectangle (sides W100.0 H100.0 D0.0)									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Comment
8,135.0	8,018.4	-359.7	-1,059.5	Last DP Survey @ 8135'
8,190.0	8,073.4	-360.5	-1,060.9	Projection to TD @ 8190' MD

Checked By: _____ Approved By: _____ Date: _____

Survey Report

Company: Occidental Petroleum Corporation
 Project: Brush Creek
 Sitr: NENW Sec 14-T9S-R94W
 Well: McDaniel 14-4C
 Wellbore: DD
 Design: DD

Local Co-ordinate Reference:
 TVD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
 IMD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 US Multi User DB

Project: Brush Creek
 Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: Colorado Central Zone
 System Datum: Mean Sea Level

Site: NENW Sec 14-T9S-R94W
 Site Position: 1,536,075.65 ft Northing: 39.281588
 From: 2,333,796.71 ft Easting: -107.853838
 Position Uncertainty: 0.0 ft Slot Radius: -1.48 °

Well: McDaniel 14-4C
 Well Position: +N-S 0.0 ft Northing: 1,536,006.67 ft Latitude: 39.281385
 +E-W 0.0 ft Easting: 2,333,885.53 ft Longitude: -107.853518
 Position Uncertainty: 0.0 ft Wellhead Elevation: ft Ground Level: 7,286.0 ft

Wellbore: DD
 Magnetics: Model Name IGRF200510 Sample Date 10/23/2008 Declination (°) 10.58 Dip Angle (°) 65.67 Field Strength (nT) 52,432

Design: DD
 Audit Notes:
 Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0
 Vertical Section: Depth From (TVD) (ft) +N-S (ft) +E-W (ft) Direction (°)
 0.0 0.0 0.0 250.19

Survey Program: Date 12/1/2008
 From (ft) To (ft) Survey (Wellbore) Tool Name Description
 94.0 8,190.0 Survey #1 (DD) Geolink MWD Geolink MWD

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/1000ft)	Build Rate (°/1000ft)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
94.0	0.30	222.10	94.0	-0.2	-0.2	0.2	0.32	0.32	
186.0	1.70	271.70	186.0	-0.3	-1.7	1.7	1.66	1.52	
278.0	2.70	268.10	277.9	-0.4	-5.2	5.0	1.10	1.09	
370.0	3.80	254.90	369.8	-1.2	-10.3	10.1	1.44	1.20	
462.0	4.70	251.80	461.5	-3.2	-16.9	16.9	1.01	0.98	
554.0	5.70	251.30	553.1	-5.8	-24.8	25.3	1.09	1.09	
647.0	6.90	253.20	645.6	-8.9	-34.5	35.5	1.31	1.29	
739.0	8.00	246.40	736.8	-13.1	-45.6	47.4	1.53	1.20	
831.0	9.50	248.10	827.7	-18.5	-58.6	61.4	1.65	1.63	
923.0	10.80	247.40	918.3	-24.6	-73.6	77.5	1.42	1.41	
1,018.0	12.30	251.00	1,011.4	-31.3	-91.3	96.6	1.75	1.58	
1,113.0	13.60	252.80	1,103.9	-37.9	-111.6	117.8	1.43	1.37	

Survey Report - Geographic

Company: Occidental Petroleum Corporation	Well: McDaniel 14-4C
Project: Brush Creek	Local Co-ordinates Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:
Site: NENW Sec 14-T9S-R94W	Well McDaniel 14-4C McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 16) McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 16)
Wellbore: DD	True Minimum Curvature
Design: DD	EDM 2003.21 US Multi User DB

Project Brush Creek	System Datum: Mean Sea Level
Map System: US State Plane 1983	
Geo Datum: North American Datum 1983	
Map Zone: Colorado Central Zone	

Site NENW Sec 14-T9S-R94W	Northings: 1,536,075.65 ft	Latitude: 39.281568
Site Position:	Eastings: 2,333,796.71 ft	Longitude: -107.853838
From:	Slot Radius: 0.0 ft	Grid Convergence: -1.48 °

Well McDaniel 14-4C	Northings: 0.0 ft	Latitude: 39.281385
Well Position	Eastings: 0.0 ft	Longitude: -107.853518
Position Uncertainty	Wellhead Elevation: 0.0 ft	Ground Level: 7,286.0 ft

Wellbore DD	Model Name IGRF200510	Sample Date 10/23/2008	Declination (°) 10.58	Dip Angle (°) 65.67	Field Strength (nT) 52,432
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Design DD	Version: 1.0	Phase: ACTUAL	Depth From (TVD) (ft) 0.0	On Depth: +N-S (ft) 0.0	Direction (°) 0.0
Audit Notes:	Vertical Section:	Depth From (TVD) (ft) 0.0	+E-W (ft) 0.0	+E-W (ft) 0.0	Direction (°) 0.00

Survey Program	Date 12/4/2008
From (ft) 94.0	To (ft) 8,190.0
Survey (Wellbore) Survey #1 (DD)	Tool Name Geolink MWD
	Description Geolink MWD

Survey Report - Geographic

Company: Occidental Petroleum Corporation	Local Co-ordinates Reference: Well McDaniel 14-4C
Project: Brush Creek	TD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Sitr: NENW Sec 14-T9S-R94W	MD Reference: McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)
Well: McDaniel 14-4C	North Reference: True
Wellbore: DD	Survey Calculation Method: Mirimum Curvature
Designer: DD	Database: EDM 2003.21 US Multi User DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+W-S (ft)	+E-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,536,006.67	2,333,885.53	39.281385	-107.853518
94.0	0.30	222.10	94.0	-0.2	-0.2	1,536,006.49	2,333,885.36	39.281384	-107.853519
186.0	1.70	271.70	186.0	-0.3	-1.7	1,536,006.39	2,333,883.84	39.281384	-107.853524
276.0	2.70	268.10	277.9	-0.4	-5.2	1,536,006.45	2,333,880.31	39.281384	-107.853536
370.0	3.80	254.90	368.8	-1.2	-10.3	1,536,005.72	2,333,875.18	39.281382	-107.853554
462.0	4.70	251.80	461.5	-3.2	-16.9	1,536,003.92	2,333,868.60	39.281376	-107.853578
554.0	5.70	251.30	553.1	-5.8	-24.8	1,536,001.48	2,333,860.63	39.281369	-107.853605
647.0	6.90	253.20	645.6	-8.9	-34.5	1,535,998.84	2,333,850.83	39.281360	-107.853640
739.0	8.00	246.40	736.8	-13.1	-45.6	1,535,994.77	2,333,839.57	39.281349	-107.853679
831.0	9.50	248.10	827.7	-18.5	-58.6	1,535,989.71	2,333,826.52	39.281334	-107.853725
923.0	10.80	247.40	918.3	-24.6	-73.6	1,535,983.95	2,333,811.36	39.281317	-107.853778
1,018.0	12.30	251.00	1,011.4	-31.3	-91.3	1,535,977.70	2,333,793.41	39.281299	-107.853841
1,113.0	13.60	252.80	1,103.9	-37.9	-111.6	1,535,971.63	2,333,773.01	39.281281	-107.853912
1,209.0	14.10	253.20	1,197.1	-44.7	-133.6	1,535,965.48	2,333,750.86	39.281262	-107.853990
1,305.0	14.40	253.90	1,290.2	-51.3	-156.2	1,535,959.38	2,333,728.04	39.281244	-107.854070
1,401.0	14.50	253.30	1,383.2	-58.1	-179.2	1,535,953.22	2,333,704.89	39.281226	-107.854151
1,482.0	14.90	253.10	1,461.5	-64.1	-198.9	1,535,947.79	2,333,685.06	39.281209	-107.854221
1,561.0	14.60	252.80	1,537.9	-69.9	-218.0	1,535,942.41	2,333,665.75	39.281193	-107.854288
1,657.0	14.20	252.40	1,630.9	-77.0	-240.7	1,535,936.88	2,333,642.87	39.281173	-107.854369
1,753.0	13.50	252.30	1,724.1	-84.0	-262.6	1,535,929.49	2,333,620.80	39.281154	-107.854446
1,849.0	12.80	250.80	1,816.6	-90.8	-283.1	1,535,923.19	2,333,600.13	39.281136	-107.854518
1,944.0	12.90	251.00	1,910.2	-97.8	-303.3	1,535,916.73	2,333,579.78	39.281116	-107.854590
2,040.0	13.50	249.90	2,003.7	-105.2	-324.0	1,535,909.93	2,333,558.94	39.281096	-107.854663
2,136.0	13.80	250.00	2,097.0	-112.9	-345.3	1,535,902.71	2,333,537.46	39.281075	-107.854738
2,231.0	14.20	252.20	2,189.2	-120.4	-367.0	1,535,895.84	2,333,515.54	39.281054	-107.854815
2,327.0	13.50	251.20	2,282.4	-127.6	-388.8	1,535,889.20	2,333,493.54	39.281035	-107.854892
2,423.0	13.10	251.20	2,375.8	-134.7	-409.7	1,535,882.62	2,333,472.45	39.281015	-107.854965
2,519.0	13.10	252.30	2,469.3	-141.5	-430.4	1,535,876.35	2,333,451.62	39.280996	-107.855038
2,614.0	12.30	250.60	2,562.0	-148.1	-450.2	1,535,870.23	2,333,431.65	39.280978	-107.855108
2,710.0	12.20	251.20	2,655.8	-154.8	-469.4	1,535,864.06	2,333,412.24	39.280960	-107.855176
2,806.0	12.90	251.30	2,749.5	-161.5	-489.2	1,535,857.87	2,333,392.32	39.280941	-107.855246
2,902.0	13.40	251.90	2,843.0	-168.4	-509.9	1,535,851.52	2,333,371.43	39.280923	-107.855319
2,997.0	13.20	251.30	2,935.4	-175.3	-530.7	1,535,845.16	2,333,350.52	39.280904	-107.855393
3,093.0	13.10	250.50	3,028.9	-182.5	-551.3	1,535,838.55	2,333,329.70	39.280884	-107.855466
3,189.0	13.70	251.70	3,122.3	-189.7	-572.3	1,535,831.90	2,333,308.47	39.280864	-107.855540
3,285.0	13.50	251.00	3,215.6	-196.9	-593.7	1,535,825.24	2,333,286.90	39.280844	-107.855616
3,380.0	13.50	251.50	3,308.0	-204.0	-614.7	1,535,818.66	2,333,265.73	39.280825	-107.855690
3,476.0	14.10	251.10	3,401.2	-211.3	-636.4	1,535,811.88	2,333,243.85	39.280805	-107.855766
3,572.0	14.00	251.80	3,494.3	-218.8	-658.5	1,535,805.04	2,333,221.57	39.280784	-107.855844
3,668.0	13.60	251.80	3,587.6	-225.9	-680.3	1,535,798.45	2,333,199.64	39.280765	-107.855921
3,763.0	13.30	252.40	3,680.0	-232.7	-701.3	1,535,792.21	2,333,178.45	39.280746	-107.855996
3,859.0	13.00	252.90	3,773.4	-239.2	-722.1	1,535,786.23	2,333,157.44	39.280728	-107.856069
3,955.0	13.10	252.50	3,867.0	-245.7	-742.8	1,535,780.33	2,333,136.58	39.280710	-107.856142
4,050.0	13.40	251.20	3,959.4	-252.5	-763.5	1,535,774.08	2,333,115.73	39.280692	-107.856215
4,146.0	13.10	252.50	4,052.9	-259.3	-784.4	1,535,767.77	2,333,094.65	39.280673	-107.856289
4,242.0	13.40	247.30	4,146.3	-266.9	-805.1	1,535,760.74	2,333,073.82	39.280652	-107.856362
4,338.0	13.30	249.80	4,239.7	-273.0	-825.7	1,535,753.17	2,333,052.99	39.280630	-107.856435
4,433.0	13.10	250.10	4,332.2	-282.4	-846.1	1,535,746.26	2,333,032.43	39.280610	-107.856507
4,529.0	12.50	249.00	4,425.8	-289.8	-866.0	1,535,739.36	2,333,012.31	39.280589	-107.856577
4,625.0	12.20	250.00	4,519.6	-297.0	-885.2	1,535,732.66	2,332,992.90	39.280569	-107.856645
4,721.0	10.90	248.80	4,613.7	-303.8	-903.2	1,535,726.38	2,332,974.74	39.280551	-107.856709
4,816.0	10.70	249.20	4,707.0	-310.2	-919.8	1,535,720.43	2,332,957.96	39.280533	-107.856768
4,912.0	10.50	248.60	4,801.4	-316.5	-936.3	1,535,714.51	2,332,941.33	39.280516	-107.856826
5,008.0	9.40	248.70	4,895.9	-322.6	-951.8	1,535,708.87	2,332,925.73	39.280499	-107.856880
5,103.0	8.60	251.00	4,989.7	-327.7	-965.7	1,535,704.10	2,332,911.65	39.280485	-107.856930

Survey Report - Geographic

Company:	Occidental Petroleum Corporation	Well:	Well McDaniel 14-4C
Project:	Brush Creek	McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)	
Site:	NENW Sec 14-T8S-R94W	McDaniel 14-4C KBE @ 7310.0ft (Grey Wolf 18)	
Well:	McDaniel 14-4C	True	
Wellbore:	DD	Minimum Curvature	
Design:	DD	EDM 2003.21 US Multi User DB	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,199.0	7.60	257.00	5,094.8	-331.5	-978.7	1,535,700.67	2,332,898.59	39.280475	-107.857266
5,295.0	6.50	256.00	5,180.1	-334.2	-890.1	1,535,698.23	2,332,897.06	39.280467	-107.857016
5,391.0	5.10	255.50	5,275.6	-336.6	-899.5	1,535,696.09	2,332,877.60	39.280461	-107.857049
5,486.0	4.10	256.70	5,370.2	-338.4	-1,006.9	1,535,694.44	2,332,870.16	39.280456	-107.857075
5,582.0	3.20	256.60	5,466.1	-339.8	-1,012.9	1,535,693.19	2,332,864.18	39.280452	-107.857096
5,678.0	2.90	255.40	5,561.9	-341.1	-1,017.8	1,535,692.08	2,332,859.19	39.280448	-107.857114
5,774.0	1.60	239.90	5,657.8	-342.3	-1,021.4	1,535,690.89	2,332,855.65	39.280445	-107.857126
5,870.0	0.70	216.00	5,753.8	-343.5	-1,022.9	1,535,689.78	2,332,854.12	39.280442	-107.857132
5,965.0	0.50	223.00	5,848.8	-344.3	-1,023.5	1,535,688.03	2,332,853.48	39.280440	-107.857134
6,061.0	0.70	219.40	5,944.8	-345.0	-1,024.1	1,535,688.28	2,332,852.80	39.280438	-107.857136
6,157.0	1.10	223.10	6,040.8	-346.2	-1,025.1	1,535,687.18	2,332,851.77	39.280435	-107.857140
6,252.0	1.30	235.00	6,135.8	-347.4	-1,026.6	1,535,685.94	2,332,850.23	39.280431	-107.857145
6,348.0	1.50	229.10	6,231.8	-348.9	-1,028.5	1,535,684.54	2,332,848.35	39.280427	-107.857151
6,444.0	0.90	258.30	6,327.7	-349.9	-1,030.2	1,535,683.61	2,332,846.64	39.280424	-107.857157
6,542.0	1.10	244.60	6,425.7	-351.4	-1,033.5	1,535,682.16	2,332,843.27	39.280420	-107.857169
6,637.0	1.30	237.20	6,520.7	-351.4	-1,031.8	1,535,683.09	2,332,845.02	39.280423	-107.857177
6,733.0	1.70	243.60	6,616.6	-352.8	-1,035.7	1,535,681.00	2,332,841.04	39.280417	-107.857177
6,829.0	1.30	237.60	6,712.6	-353.8	-1,037.9	1,535,679.84	2,332,838.82	39.280413	-107.857185
6,925.0	1.20	271.40	6,808.6	-354.4	-1,039.8	1,535,679.33	2,332,836.88	39.280412	-107.857191
7,020.0	1.40	269.90	6,903.6	-354.4	-1,042.0	1,535,679.41	2,332,834.73	39.280412	-107.857199
7,116.0	1.80	257.90	6,999.5	-354.7	-1,044.6	1,535,679.16	2,332,832.07	39.280411	-107.857208
7,212.0	1.80	235.00	7,095.5	-355.9	-1,047.3	1,535,678.05	2,332,829.33	39.280408	-107.857218
7,307.0	0.20	280.60	7,190.5	-356.7	-1,048.7	1,535,677.26	2,332,827.93	39.280406	-107.857223
7,499.0	0.10	307.60	7,286.5	-356.6	-1,048.9	1,535,677.34	2,332,827.70	39.280406	-107.857224
7,595.0	0.60	262.90	7,382.5	-356.5	-1,049.3	1,535,677.48	2,332,827.39	39.280406	-107.857225
7,690.0	0.70	248.50	7,478.5	-356.5	-1,050.0	1,535,677.50	2,332,826.66	39.280406	-107.857227
7,786.0	1.00	261.50	7,573.5	-356.8	-1,051.0	1,535,677.26	2,332,825.62	39.280405	-107.857231
7,882.0	1.10	253.50	7,669.5	-357.1	-1,052.4	1,535,676.95	2,332,824.23	39.280404	-107.857236
7,977.0	1.30	247.40	7,765.4	-357.5	-1,054.1	1,535,676.61	2,332,822.51	39.280403	-107.857242
8,073.0	1.40	247.70	7,860.4	-358.2	-1,056.0	1,535,675.99	2,332,820.63	39.280402	-107.857249
8,135.0	1.60	240.60	7,956.4	-359.0	-1,058.1	1,535,675.18	2,332,818.51	39.280399	-107.857256
8,135.0	1.60	240.60	8,018.4	-359.7	-1,059.5	1,535,674.51	2,332,817.04	39.280397	-107.857261
8,190.0	1.60	240.60	8,073.4	-360.5	-1,060.9	1,535,673.79	2,332,815.68	39.280395	-107.857266
Projection to TD @ 8190' MD									

Survey Annotations	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N-S (ft)	Local Coordinates +E-W (ft)	Comment
	8,135.0	8,018.4	-359.7	-1,059.5	Last DP Survey @ 8135'
	8,190.0	8,073.4	-360.5	-1,060.9	Projection to TD @ 8190' MD

Checked By: _____ Approved By: _____ Date: _____