

OCCIDENTAL PERMIAN LTD.

Cottonwood Draw

Eddy County, NM

Peaches 19 Federal #2H

DH - Job #320614-MP-798

30-015-42362

Survey: MWD

SDI Survey Report

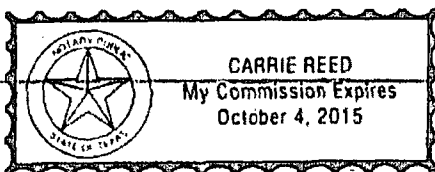
This survey is correct to the best of my knowledge and is supported by actual field data.

Lucia

Notarized this date 27th of October, 2014.

Carrie Reed

Notary Signature
County of Midland
State of Texas



SDI

SDI Survey Report

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Peaches 19 Federal #2H
Project:	Cottonwood Draw	TVD Reference:	Mean Sea Level (System)
Site:	Eddy County, NM	MD Reference:	Mean Sea Level (System)
Well:	Peaches 19 Federal #2H	North Reference:	Grid
Wellbore:	DH - Job #320614-MP-798	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #320614-MP-798	Database:	EDM-Regulatory

Project:	Cottonwood Draw		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Eddy County, NM				
Site Position:		Northing:	408,122.00 usft	Latitude:	32° 7' 19.200 N
From:	Lat/Long	Easting:	532,609.47 usft	Longitude:	104° 13' 40.800 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.06 °

Well:	Peaches 19 Federal #2H, Horizontal - MWD only					
Well Position	+N/-S	0.0 usft	Northing:	408,435.75 usft	Latitude:	32° 7' 22.288 N
	+E/-W	0.0 usft	Easting:	534,316.79 usft	Longitude:	104° 13' 20.943 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	0.0 usft

Wellbore	DH - Job #320614-MP-798				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(n)	(n)	(nT)
	IGRF2010	6/17/2014	7.51	59.91	48,209

Design:	DH - Job #320614-MP-798				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	178.64	

Survey Program		Date 10/21/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
178.0	12,579.0	MWD (DH - Job #320614-MP-798)	MWD	MWD

Survey	MD	Inc	Azi (azimuth)	TVD	N/S	E/W	Closure Azimuth	Closure Distance
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°)	(usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
	178.0	0.26	21.90	178.0	0.4	0.2	21.90	0.4
	241.0	0.26	22.77	241.0	0.6	0.3	22.08	0.7
	334.0	0.26	323.01	334.0	1.0	0.2	12.05	1.0
	415.0	0.00	229.14	415.0	1.1	0.1	5.14	1.2
	511.0	0.18	1.59	511.0	1.3	0.1	4.73	1.3
	605.0	0.35	85.26	605.0	1.5	0.4	15.13	1.5
	697.0	0.44	158.83	697.0	1.2	0.8	34.68	1.4
	789.0	0.70	86.58	789.0	0.9	1.5	59.81	1.7
	882.0	0.26	48.79	882.0	1.0	2.2	64.86	2.5
	976.0	0.44	348.06	976.0	1.5	2.3	58.34	2.8
	1,071.0	0.18	309.83	1,071.0	2.0	2.1	46.78	2.9

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Design:	DH - Job #320614-MP-798	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,165.0	0.09	1.42	1,165.0	2.2	2.0	42.90	2.9	
1,259.0	1.32	91.59	1,259.0	2.2	3.1	54.53	3.8	
1,439.0	2.73	93.97	1,438.9	1.8	9.4	78.93	9.6	
1,539.0	1.85	93.09	1,538.8	1.6	13.4	83.23	13.5	
1,633.0	0.44	31.91	1,632.8	1.8	15.1	83.15	15.2	
1,728.0	0.70	44.57	1,727.8	2.5	15.7	80.82	15.9	
1,822.0	0.97	86.32	1,821.7	3.0	16.9	79.94	17.2	
1,916.0	0.62	259.55	1,915.7	3.0	17.2	80.25	17.5	
2,020.0	0.62	262.72	2,019.7	2.8	16.1	80.18	16.3	
2,114.0	0.62	263.24	2,113.7	2.7	15.1	80.00	15.3	
2,209.0	0.62	257.18	2,208.7	2.5	14.1	79.98	14.3	
2,303.0	0.62	261.49	2,302.7	2.3	13.1	80.03	13.3	
2,398.0	0.44	265.88	2,397.7	2.2	12.2	79.80	12.4	
2,493.0	0.62	246.63	2,492.7	2.0	11.4	80.19	11.6	
2,587.0	0.62	237.40	2,586.7	1.5	10.5	81.90	10.6	
2,682.0	0.62	226.50	2,681.7	0.9	9.7	84.92	9.7	
2,776.0	0.79	227.30	2,775.7	0.1	8.8	89.53	8.8	
2,871.0	0.88	233.36	2,870.7	-0.8	7.8	95.93	7.8	
2,965.0	0.79	231.60	2,964.7	-1.6	6.7	103.80	6.9	
3,060.0	0.97	250.85	3,059.7	-2.3	5.4	113.14	5.9	
3,154.0	0.88	243.29	3,153.6	-2.9	4.0	125.82	4.9	
3,249.0	0.97	243.64	3,248.6	-3.6	2.6	143.60	4.5	
3,344.0	0.97	247.33	3,343.6	-4.2	1.2	164.50	4.4	
3,438.0	1.14	264.30	3,437.6	-4.6	-0.5	185.97	4.7	
3,533.0	1.06	248.39	3,532.6	-5.1	-2.2	203.89	5.5	
3,627.0	1.32	247.51	3,626.6	-5.8	-4.1	214.94	7.1	
3,721.0	1.23	249.71	3,720.5	-6.6	-6.0	222.42	8.9	
3,816.0	1.41	248.74	3,815.5	-7.3	-8.0	227.62	10.9	
3,910.0	0.70	290.05	3,909.5	-7.6	-9.7	231.94	12.3	
4,004.0	0.70	224.83	4,003.5	-7.8	-10.6	233.76	13.2	
4,036.0	1.06	198.20	4,035.5	-8.2	-10.8	232.90	13.6	
4,067.0	1.76	188.36	4,066.5	-8.9	-11.0	230.89	14.2	
4,099.0	2.46	183.09	4,098.5	-10.1	-11.1	227.68	15.0	
4,193.0	2.99	185.64	4,192.4	-14.6	-11.5	218.18	18.5	
4,288.0	3.43	176.85	4,287.2	-19.9	-11.5	210.15	23.0	
4,382.0	3.87	173.07	4,381.0	-25.8	-11.0	203.08	28.1	
4,476.0	4.31	171.13	4,474.8	-32.5	-10.1	197.24	34.0	
4,571.0	4.13	173.24	4,569.5	-39.4	-9.1	193.04	40.4	
4,665.0	4.13	172.01	4,663.3	-46.1	-8.3	190.15	46.8	
4,760.0	3.78	171.92	4,758.1	-52.6	-7.3	187.94	53.1	
4,854.0	4.16	169.59	4,851.8	-59.0	-6.3	186.08	59.3	
4,948.0	4.13	170.17	4,945.6	-65.7	-5.1	184.43	65.9	
5,043.0	3.87	172.01	5,040.3	-72.2	-4.1	183.22	72.4	
5,137.0	4.13	170.61	5,134.1	-78.7	-3.1	182.23	78.8	

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Wellbore:	DH - Job #320614-MP-798	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #320614-MP-798	Database:	EDM-Regulatory

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,231.0	4.22	170.17	5,227.9	-85.5	-1.9	181.29	85.5
5,326.0	3.87	171.66	5,322.6	-92.1	-0.9	180.54	92.1
5,420.0	2.64	173.24	5,416.5	-97.4	-0.2	180.09	97.4
5,515.0	1.85	177.90	5,511.4	-101.1	0.2	179.91	101.1
5,609.0	0.53	284.69	5,605.4	-102.5	-0.2	180.11	102.5
5,704.0	0.79	282.67	5,700.4	-102.2	-1.3	180.71	102.2
5,798.0	0.26	312.37	5,794.4	-101.9	-2.1	181.15	102.0
5,893.0	0.35	244.00	5,889.4	-101.9	-2.5	181.39	102.0
5,987.0	0.62	203.65	5,983.4	-102.5	-2.9	181.64	102.6
6,081.0	0.88	148.11	6,077.4	-103.6	-2.8	181.53	103.6
6,176.0	0.97	137.21	6,172.4	-104.8	-1.8	181.00	104.8
6,270.0	0.62	127.45	6,266.3	-105.7	-0.9	180.48	105.7
6,365.0	0.70	128.86	6,361.3	-106.4	0.0	180.01	106.4
6,459.0	0.35	156.28	6,455.3	-107.0	0.5	179.71	107.0
6,553.0	0.35	159.62	6,549.3	-107.5	0.8	179.60	107.5
6,648.0	0.79	200.14	6,644.3	-108.4	0.6	179.67	108.4
6,742.0	1.41	195.04	6,738.3	-110.1	0.1	179.94	110.1
6,837.0	1.14	293.04	6,833.3	-110.9	-1.1	180.55	110.9
6,932.0	0.18	241.45	6,928.3	-110.6	-2.1	181.07	110.6
7,026.0	0.79	271.33	7,022.3	-110.7	-2.8	181.47	110.7
7,112.0	1.23	184.05	7,108.3	-111.6	-3.5	181.80	111.6
7,144.0	5.28	169.82	7,140.2	-113.4	-3.3	181.65	113.4
7,175.0	8.68	166.65	7,171.0	-117.1	-2.5	181.20	117.1
7,207.0	10.82	167.97	7,202.5	-122.4	-1.3	180.59	122.4
7,238.0	11.96	167.79	7,232.9	-128.4	0.0	179.99	128.4
7,270.0	12.22	164.98	7,264.2	-134.9	1.6	179.32	134.9
7,301.0	13.37	160.24	7,294.4	-141.5	3.7	178.52	141.5
7,333.0	17.23	158.83	7,325.3	-149.4	6.6	177.46	149.5
7,364.0	20.93	161.38	7,354.6	-158.9	10.1	176.38	159.2
7,396.0	22.77	160.94	7,384.3	-170.2	13.9	175.33	170.7
7,427.0	23.30	161.03	7,412.8	-181.7	17.9	174.39	182.5
7,458.0	24.01	165.60	7,441.2	-193.6	21.4	173.69	194.7
7,490.0	24.89	170.08	7,470.3	-206.5	24.2	173.32	207.9
7,521.0	27.61	170.78	7,498.1	-220.0	26.5	173.14	221.6
7,553.0	30.86	173.07	7,526.0	-235.5	28.6	173.06	237.2
7,584.0	33.24	174.65	7,552.3	-251.8	30.4	173.12	253.7
7,616.0	36.14	177.29	7,578.6	-270.0	31.7	173.31	271.9
7,647.0	39.04	178.60	7,603.2	-288.9	32.3	173.61	290.7
7,679.0	40.63	181.68	7,627.8	-309.4	32.3	174.04	311.1
7,710.0	44.32	181.07	7,650.6	-330.3	31.8	174.51	331.8
7,742.0	48.01	181.24	7,672.8	-353.4	31.3	174.94	354.8
7,773.0	51.62	181.07	7,692.8	-377.1	30.8	175.33	378.3
7,805.0	56.28	181.33	7,711.6	-402.9	30.3	175.70	404.1
7,836.0	61.99	180.54	7,727.5	-429.5	29.9	176.02	430.6

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Wellbore:	DH - Job #320614-MP-798	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #320614-MP-798	Database:	EDM-Regulatory

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Azimuth (°)	Closure Distance (usft)
7,858.0	65.07	160.27	7,741.8	-458.2	29.7	176.30	459.1
7,899.0	66.48	179.13	7,754.5	-486.4	29.8	176.49	487.3
7,931.0	67.71	176.93	7,766.9	-515.9	30.8	176.58	516.8
7,962.0	70.70	175.00	7,778.0	-544.8	32.9	176.55	545.8
7,994.0	75.27	175.79	7,787.3	-575.3	35.3	176.49	576.4
8,025.0	77.73	176.32	7,794.6	-605.4	37.4	176.47	606.5
8,057.0	78.35	177.02	7,801.2	-636.6	39.2	176.48	637.8
8,088.0	79.93	176.85	7,807.0	-667.0	40.8	176.50	668.3
8,123.0	83.27	175.97	7,812.1	-701.6	43.0	176.49	702.9
8,154.0	85.12	174.91	7,815.3	-732.3	45.5	176.45	733.7
8,186.0	86.35	174.30	7,817.7	-764.1	48.5	176.37	765.6
8,217.0	88.46	173.95	7,819.1	-794.9	51.6	176.28	796.5
8,312.0	90.22	176.32	7,820.1	-889.5	59.7	176.16	891.5
8,406.0	91.63	176.50	7,818.6	-983.3	65.6	176.18	985.5
8,501.0	92.33	175.97	7,815.3	-1,078.0	71.8	176.19	1,080.4
8,595.0	89.25	176.41	7,814.1	-1,171.8	78.1	176.19	1,174.4
8,689.0	89.87	176.23	7,814.8	-1,265.6	84.1	176.20	1,268.4
8,783.0	91.80	175.26	7,813.4	-1,359.3	91.1	176.17	1,362.4
8,878.0	91.28	175.62	7,810.9	-1,454.0	98.6	176.12	1,457.4
8,972.0	90.66	175.26	7,809.3	-1,547.7	106.1	176.08	1,551.3
9,067.0	90.84	175.53	7,808.0	-1,642.4	113.7	176.04	1,646.3
9,161.0	90.92	175.53	7,806.6	-1,736.1	121.0	176.01	1,740.3
9,255.0	89.78	176.67	7,806.0	-1,829.9	127.4	176.02	1,834.3
9,350.0	90.13	177.20	7,806.1	-1,924.7	132.5	176.06	1,929.3
9,444.0	90.13	176.85	7,805.9	-2,018.6	137.4	176.11	2,023.3
9,539.0	88.99	177.37	7,806.6	-2,113.5	142.2	176.15	2,118.3
9,633.0	89.96	177.11	7,807.5	-2,207.4	146.7	176.20	2,212.2
9,728.0	89.08	178.60	7,808.2	-2,302.3	150.3	176.27	2,307.2
9,822.0	89.78	178.78	7,809.2	-2,396.3	152.4	176.36	2,401.1
9,917.0	88.90	177.90	7,810.3	-2,491.2	155.2	176.44	2,496.0
10,011.0	89.60	178.25	7,811.5	-2,585.2	158.3	176.50	2,590.0
10,105.0	89.25	177.37	7,812.5	-2,679.1	161.9	176.54	2,684.0
10,200.0	89.34	176.67	7,813.6	-2,773.9	166.8	176.56	2,779.0
10,294.0	90.48	176.58	7,813.8	-2,867.8	172.4	176.56	2,873.0
10,389.0	90.13	176.58	7,813.3	-2,962.6	178.0	176.56	2,968.0
10,483.0	89.69	175.26	7,813.4	-3,056.4	184.7	176.54	3,061.9
10,578.0	90.84	175.09	7,813.0	-3,151.0	192.7	176.50	3,156.9
10,672.0	90.31	175.00	7,812.0	-3,244.7	200.8	176.46	3,250.9
10,767.0	89.43	174.47	7,812.2	-3,339.3	209.6	176.41	3,345.8
10,861.0	90.13	174.65	7,812.6	-3,432.8	218.5	176.36	3,439.8
10,956.0	90.40	174.47	7,812.2	-3,527.4	227.5	176.31	3,534.7
11,050.0	90.13	174.91	7,811.7	-3,621.0	236.2	176.27	3,628.7
11,145.0	89.34	176.14	7,812.2	-3,715.7	243.6	176.25	3,723.7
11,239.0	89.87	176.32	7,812.8	-3,809.5	249.8	176.25	3,817.7
11,333.0	90.57	176.06	7,812.5	-3,903.3	256.0	176.25	3,911.7

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11,427.0	90.13	176.23	7,811.9	-3,997.1	262.3	176.25	4,005.7	
11,521.0	90.22	176.76	7,811.6	-4,090.9	268.1	176.25	4,099.7	
11,615.0	89.34	175.79	7,812.0	-4,184.7	274.2	176.25	4,193.7	
11,709.0	89.60	175.88	7,812.8	-4,278.5	281.0	176.24	4,287.7	
11,803.0	89.96	176.23	7,813.2	-4,372.2	287.5	176.24	4,381.7	
11,897.0	88.81	175.53	7,814.2	-4,466.0	294.2	176.23	4,475.7	
11,991.0	89.34	175.00	7,815.7	-4,559.6	302.0	176.21	4,569.6	
12,085.0	89.60	174.83	7,816.6	-4,653.3	310.3	176.18	4,663.6	
12,180.0	90.13	174.91	7,816.8	-4,747.9	318.8	176.16	4,758.6	
12,274.0	89.16	174.91	7,817.4	-4,841.5	327.2	176.13	4,852.6	
12,369.0	89.87	175.00	7,818.2	-4,936.1	335.5	176.11	4,947.5	
12,463.0	90.57	175.79	7,817.8	-5,029.8	343.1	176.10	5,041.5	
12,558.0	90.66	175.79	7,816.8	-5,124.6	350.0	176.09	5,136.5	
12,579.0	90.84	175.62	7,816.5	-5,145.5	351.6	176.09	5,157.5	
Last MWD Survey								

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,579.0	7,816.5	-5,145.5	351.6	Last MWD Survey



Scientific Drilling

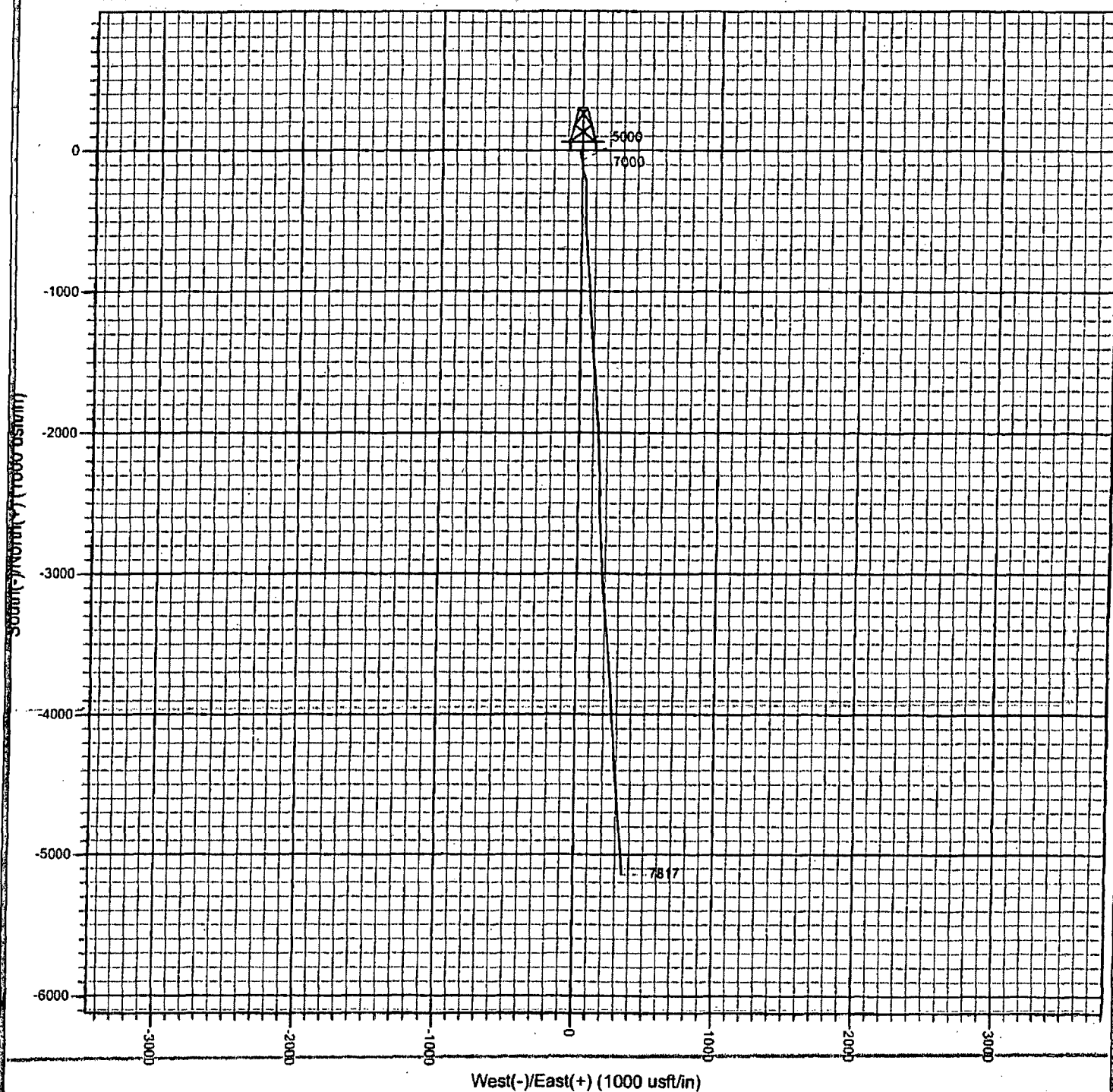
Project: Cottonwood Draw
Eddy County, NM
Well: Peaches 19 Federal #2H
Wellbore: DH - Job #320614-MP-798
Design: DH - Job #320614-MP-798

WELL DETAILS: Peaches 19 Federal #2H

Mean Sea Level (System)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	408435.75	534316.79	32° 7' 22.288 N	104° 13' 20.943 W	



PROJECT DETAILS: Cottonwood Draw	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 7' 19.200 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 13' 40.800 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.0
Zone: New Mexico East 3001	Convergence: 0.06
System Datum: Mean Sea Level	Local North: Grid



Occidental Permian Ltd.

Peaches 19 Fed #2H
Eddy Co, New Mexico

KB ELEV: 3193.00
GL ELEV: 3168.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3950.00	0.00	0.00	3950.00	0.00	0.00	0.00	0.00	0.00	
3	4150.00	4.00	176.09	4149.84	-6.96	0.48	2.00	176.09	6.98	
4	5383.50	4.00	176.09	5380.13	-92.81	6.34	0.00	0.00	93.02	
5	5583.50	0.00	0.00	5580.17	-99.77	6.82	2.00	180.00	100.00	
6	7105.13	0.00	0.00	7104.80	-99.77	6.82	0.00	0.00	100.00	
7	8230.13	90.00	176.09	7818.00	-814.30	55.68	8.00	176.09	816.20	
8	12633.89	90.00	176.09	7818.00	-5207.80	356.10	0.00	0.00	5219.96	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Peaches 19 Fed #2H	0.00	0.00	408435.80	534316.80	32°07'22.289N	104°13'20.943W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL(plant)	7818.00	-5058.10	345.90	403377.70	534662.70	Point
PBHL	7818.00	-5207.80	356.10	403228.00	534672.90	Point

SITE DETAILS

Peaches 19 Fed #2H

Site Centre Northing: 408435.80
Easting: 534316.80

Ground Level: 3168.00
Positional Uncertainty: 0.00
Convergence: 0.06

LEGEND

- Peaches 19 Fed #2H, I, Plan #2
- SDI MWD

Survey: SDI MWD (Peaches 19 Fed #2H/I)

Created By: Patrick Rudolph

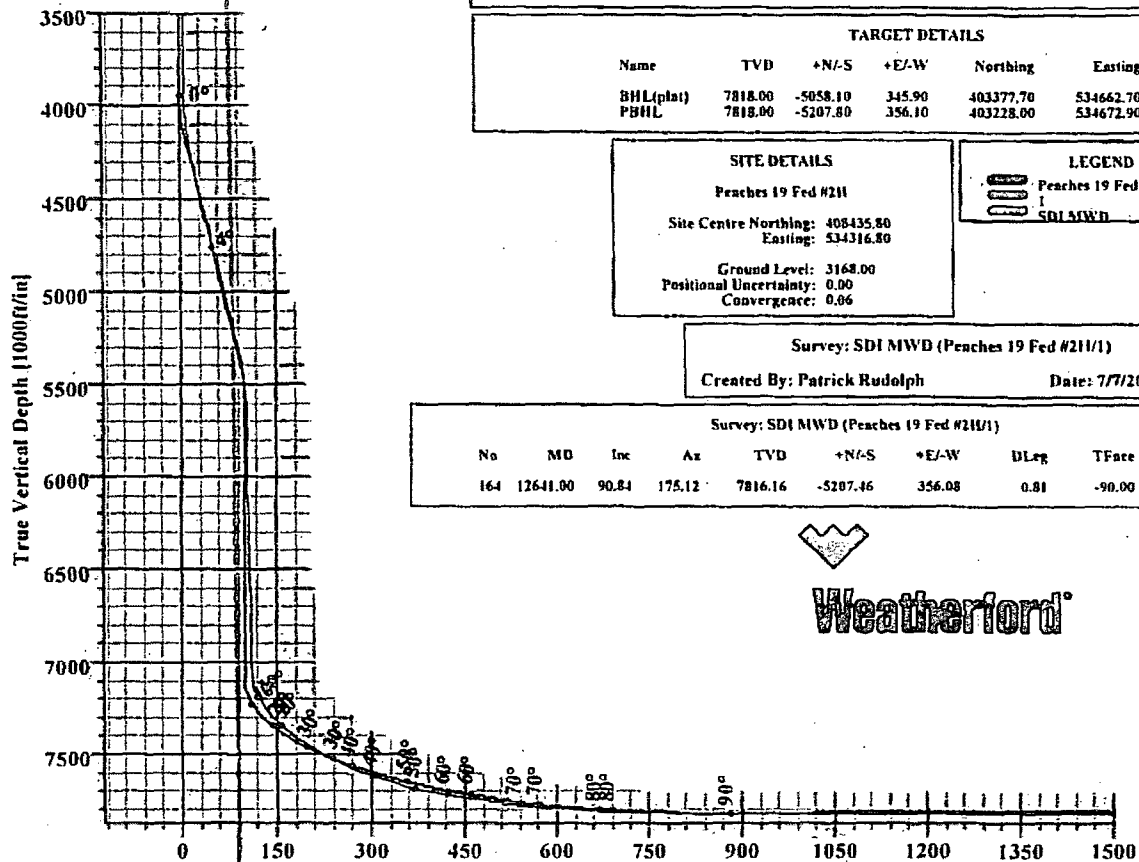
Date: 7/7/2014

Survey: SDI MWD (Peaches 19 Fed #2H/I)

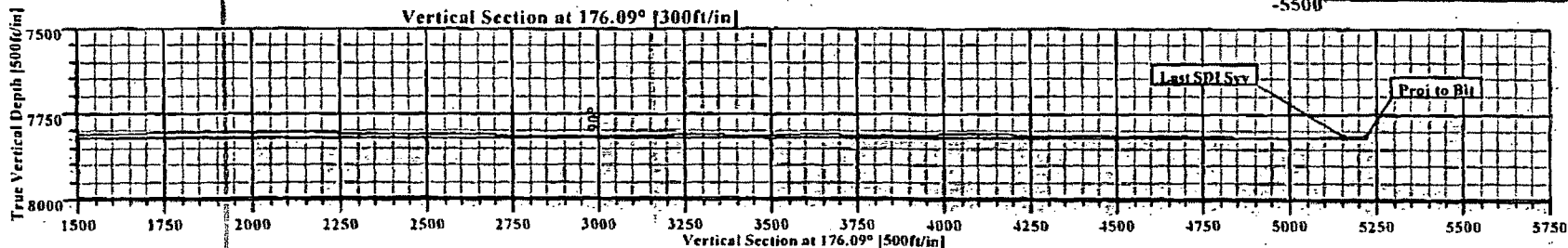
No	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
164	12641.00	90.84	175.12	7816.16	-5207.46	356.08	0.81	-90.00	5219.62



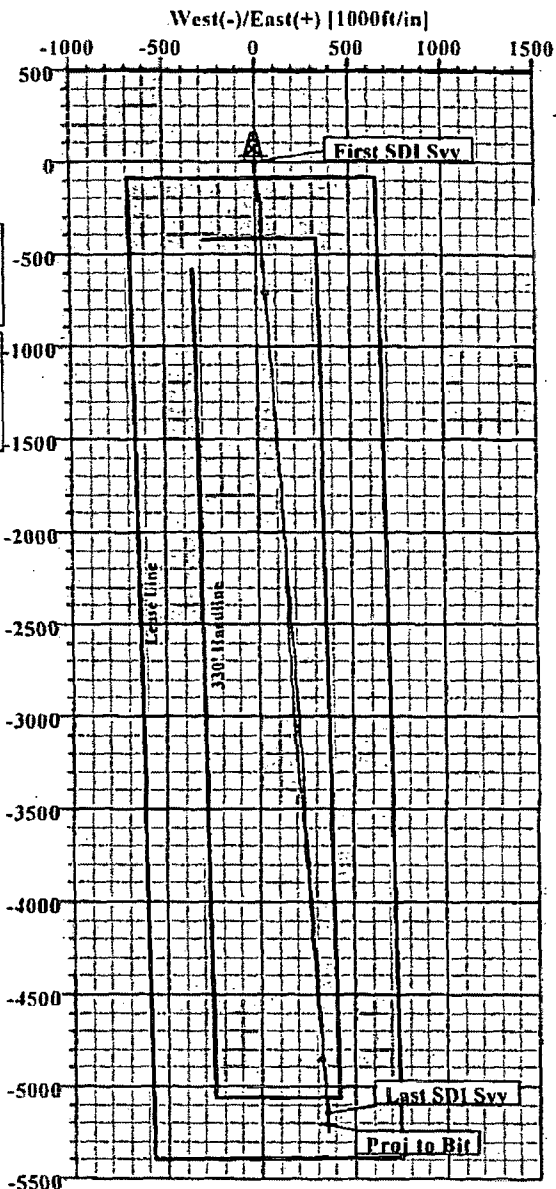
Weatherford



Vertical Section at 176.09° [300ft/in]



South(-)/North(+) [1000ft/in]





Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 7/7/2014	Time: 10:12:59	Page: 11
Field: Eddy Co NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Peaches 19 Fed #2H	Grid North
Site: Peaches 19 Fed #2H	Vertical (TVD) Reference:	SITE 3193.0	
Well: Peaches 19 Fed #2H	Section (VS) Reference:	Well (0.00N,0.00E,176.09Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey:	Start Date:
Company:	Engineer:
Tool:	Tied-to:

Site: Peaches 19 Fed #2H									
Site Position:		Northing:		408435.80 ft		Latitude:		32 7 22.289 N	
From: Map		Easting:		534316.80 ft		Longitude:		104 13 20.943 W	
Position Uncertainty:		0.00 ft				North Reference:		Grid	
Ground Level:		3168.00 ft				Grid Convergence:		0.06 deg	

Well: Peaches 19 Fed #2H			Slot Name:					
Well Position:	+N/S	0.00 ft	Northing:	408435.80 ft	Latitude:	32	7	22.289 N
	+E/W	0.00 ft	Easting:	534316.80 ft	Longitude:	104	13	20.943 W
Position Uncertainty:		0.00 ft						

Wellpath: 1			Drilled From:	Surface
Current Datum:	SITE	Height 3193.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data:	5/15/2013		Above System Datum:	Mean Sea Level
Field Strength:	48317 nT		Declination:	7.64 deg
Vertical Section:	Depth From (TVD)	+N/-S	Mag Dip Angle:	59.93 deg
	ft	ft	+E/-W	Direction
			ft	deg
	0.00	0.00	0.00	176.09

Survey Program for Definitive Wellpath				
Date: 7/7/2014		Validated: No		Version: 2
Actual From	To	Survey	Toolcode	Tool Name
ft	ft			
0.00	12641.00	SDI MWD (0.00-12641.00)	MWD	MWD - Standard

MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	408435.80	534316.80	
178.00	0.26	21.90	178.00	0.37	0.15	0.15	-0.36	408436.17	534316.95	First SDI Svy
241.00	0.26	22.77	241.00	0.64	0.26	0.01	-0.62	408436.44	534317.05	
334.00	0.26	323.01	334.00	1.00	0.21	0.28	-0.99	408436.80	534317.01	
415.00	0.00	229.14	415.00	1.15	0.10	0.32	-1.14	408436.95	534316.90	
511.00	0.18	1.59	511.00	1.30	0.11	0.19	-1.29	408437.10	534316.91	
605.00	0.35	85.26	605.00	1.47	0.40	0.40	-1.44	408437.27	534317.20	
697.00	0.44	158.83	697.00	1.16	0.81	0.52	-1.11	408436.96	534317.61	
789.00	0.70	86.58	788.99	0.87	1.49	0.77	-0.77	408436.67	534318.29	
882.00	0.26	48.79	881.99	1.04	2.22	0.56	-0.89	408436.84	534319.02	
976.00	0.44	348.06	975.99	1.54	2.31	0.41	-1.37	408437.34	534319.11	
1071.00	0.18	309.83	1070.99	1.99	2.12	0.34	-1.84	408437.79	534318.92	
1165.00	0.09	1.42	1164.98	2.16	2.00	0.15	-2.01	408437.96	534318.80	
1259.00	1.32	91.59	1258.98	2.20	3.09	1.41	-1.98	408438.00	534319.89	
1439.00	2.73	93.97	1438.86	1.85	9.44	0.78	-1.20	408437.65	534326.24	
1539.00	1.85	93.09	1538.78	1.59	13.42	0.88	-0.67	408437.39	534330.22	
1633.00	0.44	31.91	1632.76	1.82	15.13	1.79	-0.78	408437.62	534331.93	
1728.00	0.70	44.57	1727.75	2.54	15.73	0.30	-1.46	408438.34	534332.53	
1822.00	0.97	86.32	1821.75	3.00	16.93	0.69	-1.84	408438.80	534333.73	
1916.00	0.62	269.55	1915.74	2.96	17.22	1.69	-1.78	408438.76	534334.02	
2020.00	0.62	262.72	2019.74	2.79	16.11	0.03	-1.68	408438.59	534332.91	
2114.00	0.62	263.24	2113.73	2.66	15.10	0.01	-1.63	408438.46	534331.90	
2209.00	0.62	257.18	2208.73	2.49	14.09	0.07	-1.52	408438.29	534330.89	
2303.00	0.62	261.49	2302.72	2.30	13.09	0.05	-1.40	408438.10	534329.89	
2398.00	0.44	265.88	2397.72	2.20	12.22	0.19	-1.36	408438.00	534329.02	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 7/7/2014 Time: 10:12:59 Page: 2
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Peaches 19 Fed #2H Grid North
 Site: Peaches 19 Fed #2H Vertical (TVD) Reference: SITE: 3193.01
 Well: Peaches 19 Fed #2H Section (VS) Reference: Well: (0.00N, 0.00E, 176.09Azi)
 Wellpath: Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2493.00	0.62	246.63	2492.71	1.97	11.38	0.26	-1.19	408437.77	534328.18	
2587.00	0.62	237.40	2586.71	1.49	10.49	0.11	-0.77	408437.29	534327.29	
2682.00	0.62	226.50	2681.70	0.86	9.68	0.12	-0.20	408436.66	534326.48	
2776.00	0.79	227.30	2775.69	0.07	8.84	0.18	0.53	408435.87	534325.64	
2871.00	0.88	233.36	2870.68	-0.81	7.77	0.13	1.34	408434.99	534324.57	
2965.00	0.79	231.60	2964.67	-1.64	6.68	0.10	2.09	408434.16	534323.48	
3060.00	0.97	250.85	3059.66	-2.31	5.41	0.36	2.68	408433.49	534322.21	
3154.00	0.88	243.29	3153.65	-2.90	4.01	0.16	3.16	408432.90	534320.81	
3249.00	0.97	243.64	3248.64	-3.58	2.64	0.09	3.75	408432.22	534319.44	
3344.00	0.97	247.33	3343.62	-4.25	1.18	0.07	4.32	408431.55	534317.98	
3438.00	1.14	264.30	3437.61	-4.65	-0.49	0.38	4.60	408431.15	534316.31	
3533.00	1.06	248.39	3532.59	-5.07	-2.24	0.33	4.90	408430.73	534314.56	
3627.00	1.32	247.51	3626.57	-5.80	-4.05	0.28	5.51	408430.00	534312.75	
3721.00	1.23	249.71	3720.55	-6.56	-6.00	0.11	6.14	408429.24	534310.80	
3816.00	1.41	248.74	3815.52	-7.34	-8.04	0.19	6.78	408428.46	534308.76	
3910.00	0.70	290.05	3909.51	-7.56	-9.66	1.06	6.89	408428.24	534307.14	
4004.00	0.70	224.83	4003.50	-7.77	-10.61	0.80	7.03	408428.03	534306.19	
4036.00	1.06	198.20	4035.50	-8.19	-10.84	1.67	7.44	408427.61	534305.96	
4067.00	1.76	188.36	4066.49	-8.94	-10.99	2.38	8.17	408426.86	534305.81	
4099.00	2.46	183.09	4098.47	-10.11	-11.10	2.27	9.33	408425.69	534305.70	
4130.00	2.81	183.61	4129.43	-11.53	-11.19	1.13	10.74	408424.27	534305.61	
4162.00	3.17	181.68	4161.39	-13.20	-11.26	1.17	12.40	408422.60	534305.54	
4193.00	2.99	185.64	4192.34	-14.86	-11.37	0.90	14.05	408420.94	534305.43	
4225.00	2.99	184.58	4224.30	-16.52	-11.52	0.17	15.70	408419.28	534305.28	
4288.00	3.43	176.85	4287.20	-20.04	-11.54	0.98	19.21	408415.76	534305.26	
4319.00	3.52	173.59	4318.15	-21.91	-11.39	0.70	21.09	408413.89	534305.41	
4382.00	3.87	173.07	4381.01	-25.95	-10.91	0.56	25.14	408409.85	534305.89	
4476.00	4.31	171.03	4474.77	-32.59	-9.98	0.49	31.83	408403.21	534306.82	
4571.00	4.13	173.24	4569.52	-39.51	-9.02	0.26	38.80	408396.29	534307.78	
4665.00	4.13	172.01	4663.27	-46.22	-8.15	0.09	45.56	408389.58	534308.65	
4820.00	3.78	171.92	4817.90	-56.81	-6.66	0.23	56.22	408378.99	534310.14	
4854.00	4.16	169.59	4851.82	-59.13	-6.28	1.21	58.56	408376.67	534310.52	
4948.00	4.13	170.17	4945.58	-65.82	-5.08	0.05	65.32	408369.98	534311.72	
5043.00	3.87	172.01	5040.34	-72.36	-4.05	0.31	71.92	408363.44	534312.75	
5137.00	4.13	170.61	5134.12	-78.85	-3.06	0.30	78.45	408356.95	534313.74	
5231.00	4.22	170.17	5227.87	-85.59	-1.92	0.10	85.26	408350.21	534314.88	
5326.00	3.87	171.66	5322.63	-92.21	-0.86	0.38	91.94	408343.59	534315.94	
5357.00	3.61	170.87	5353.56	-94.21	-0.55	0.86	93.95	408341.59	534316.25	
5389.00	3.25	171.84	5385.51	-96.10	-0.26	1.14	95.86	408339.70	534316.54	
5420.00	2.64	173.24	5416.47	-97.68	-0.05	1.98	97.45	408338.12	534316.75	
5515.00	1.85	177.90	5511.39	-101.38	0.26	0.85	101.17	408334.42	534317.06	
5609.00	0.53	284.69	5605.38	-102.79	-0.10	2.20	102.54	408333.01	534316.70	
5704.00	0.79	282.67	5700.37	-102.54	-1.17	0.27	102.22	408333.26	534315.63	
5798.00	0.26	312.37	5794.36	-102.25	-1.96	0.62	101.88	408333.55	534314.84	
5893.00	0.35	244.00	5889.36	-102.23	-2.38	0.37	101.83	408333.57	534314.42	
5987.00	0.62	203.65	5983.36	-102.82	-2.84	0.45	102.39	408332.98	534313.96	
6081.00	0.88	148.11	6077.35	-103.90	-2.66	0.78	103.48	408331.90	534314.14	
6176.00	0.97	137.21	6172.34	-105.11	-1.73	0.21	104.75	408330.69	534315.07	
6270.00	0.62	127.45	6266.33	-106.00	-0.79	0.40	105.70	408329.80	534316.01	
6365.00	0.70	128.86	6361.33	-106.68	0.07	0.09	106.44	408329.12	534316.87	
6459.00	0.35	156.28	6455.32	-107.30	0.64	0.45	107.10	408328.50	534317.44	
6553.00	0.35	159.62	6549.32	-107.84	0.85	0.02	107.64	408327.96	534317.65	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 7/7/2014	Time: 10:12:59	Page: 3
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Peaches 19 Fed #2H	Grid North
Site: Peaches 19 Fed #2H	Vertical (TVD) Reference:	SITE 3193.0	
Well: Peaches 19 Fed #2H	Section (VS) Reference:	Well (0.00N,0.00E;176.09Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

NID ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
6648.00	0.79	200.14	6644.32	-108.72	0.73	0.60	108.52	408327.08	534317.53	
6742.00	1.41	195.04	6738.30	-110.45	0.20	0.67	110.21	408325.35	534317.00	
6837.00	1.14	293.04	6833.28	-111.21	-0.97	2.03	110.88	408324.59	534315.83	
6932.00	0.18	241.45	6928.28	-110.91	-1.97	1.09	110.52	408324.89	534314.83	
7026.00	0.79	271.33	7022.27	-110.96	-2.75	0.68	110.52	408324.84	534314.05	
7112.00	1.23	184.05	7108.26	-111.87	-3.41	1.66	111.38	408323.93	534313.39	
7144.00	5.28	169.82	7140.20	-113.66	-3.17	12.81	113.18	408322.14	534313.63	
7175.00	8.88	165.65	7170.96	-117.39	-2.32	11.72	116.96	408318.41	534314.48	
7207.00	10.82	167.97	7202.49	-122.72	-1.09	6.19	122.36	408313.08	534315.71	
7238.00	11.96	167.79	7232.88	-128.70	0.20	3.68	128.42	408307.10	534317.00	
7270.00	12.22	164.98	7264.17	-135.22	1.78	2.01	135.02	408300.58	534318.58	
7301.00	13.37	160.24	7294.40	-141.76	3.84	5.01	141.69	408294.04	534320.64	
7333.00	17.23	158.83	7325.26	-149.66	6.80	12.12	149.78	408286.14	534323.60	
7364.00	20.93	161.38	7354.55	-159.19	10.23	12.23	159.52	408276.61	534327.03	
7396.00	22.77	160.94	7384.25	-170.46	14.08	5.77	171.03	408265.34	534330.88	
7427.00	23.30	161.03	7412.78	-181.93	18.03	1.71	182.74	408253.87	534334.83	
7458.00	24.01	165.60	7441.18	-193.84	21.59	6.34	194.86	408241.96	534338.39	
7490.00	24.89	170.08	7470.31	-206.78	24.37	6.41	207.96	408229.02	534341.17	
7521.00	27.61	170.78	7498.11	-220.30	26.65	8.83	221.60	408215.50	534343.45	
7553.00	30.06	173.07	7526.14	-235.58	28.80	8.40	236.99	408200.22	534345.60	
7584.00	33.24	174.65	7552.53	-251.75	30.53	10.60	253.25	408184.05	534347.33	
7616.00	36.14	177.24	7578.84	-269.91	31.81	10.16	271.45	408165.89	534348.61	
7647.00	39.04	178.60	7603.40	-288.81	32.48	9.73	290.35	408146.99	534349.28	
7679.00	40.63	181.68	7627.98	-309.30	32.43	7.92	310.79	408126.50	534349.23	
7710.00	44.32	181.07	7650.84	-330.22	31.93	11.98	331.63	408105.58	534348.73	
7742.00	48.01	181.24	7673.00	-353.30	31.46	11.54	354.62	408082.50	534348.26	
7773.00	51.62	181.07	7693.00	-376.97	30.98	11.65	378.21	408058.83	534347.78	
7805.00	56.28	181.33	7711.82	-402.83	30.44	14.58	403.97	408032.97	534347.24	
7836.00	61.99	180.54	7727.72	-429.43	30.01	18.55	430.47	408006.37	534346.81	
7868.00	65.07	180.27	7741.98	-458.07	29.81	9.65	459.03	407977.73	534346.61	
7899.00	66.48	179.13	7754.70	-486.33	29.96	5.65	487.25	407949.47	534346.76	
7962.00	70.70	175.00	7777.70	-544.88	32.99	9.06	545.86	407890.92	534349.79	
7994.00	75.27	175.79	7787.06	-575.37	35.45	14.47	576.45	407860.43	534352.25	
8025.00	77.73	176.32	7794.30	-605.44	37.52	8.11	606.59	407830.36	534354.32	
8057.00	78.35	177.02	7800.93	-636.69	39.34	2.89	637.89	407799.11	534356.14	
8088.00	79.93	176.85	7806.77	-667.09	40.96	5.13	668.33	407768.71	534357.76	
8123.00	83.27	175.97	7811.88	-701.65	43.13	9.86	702.95	407734.15	534359.93	
8154.00	85.12	174.91	7815.02	-732.39	45.59	6.87	733.79	407703.41	534362.39	
8186.00	86.35	174.30	7817.40	-764.16	48.59	4.29	765.69	407671.64	534365.39	
8217.00	88.46	173.95	7818.80	-794.96	51.76	6.90	796.64	407640.84	534368.56	
8312.00	90.22	176.32	7819.90	-889.60	59.81	3.11	891.61	407546.20	534376.61	
8406.00	91.63	176.50	7818.38	-983.40	65.70	1.51	985.59	407452.40	534382.50	
8501.00	92.33	175.97	7815.10	-1078.14	71.93	0.92	1080.53	407357.66	534388.73	
8595.00	89.25	176.41	7813.80	-1171.91	78.18	3.31	1174.51	407263.89	534394.98	
8689.00	89.87	176.23	7814.52	-1265.71	84.21	0.69	1268.51	407170.09	534401.01	
8783.00	91.80	175.26	7813.15	-1359.44	91.18	2.30	1362.49	407076.36	534407.98	
8878.00	91.28	175.62	7810.60	-1454.10	98.73	0.67	1457.45	406981.70	534415.53	
8972.00	90.66	175.26	7809.01	-1547.79	106.20	0.76	1551.43	406888.01	534423.00	
9067.00	90.84	175.53	7807.76	-1642.48	113.83	0.34	1646.42	406793.32	534430.63	
9161.00	90.92	175.53	7806.32	-1736.18	121.16	0.09	1740.40	406699.62	534437.96	
9255.00	89.78	176.67	7805.75	-1829.96	127.55	1.72	1834.40	406605.84	534444.35	
9350.00	90.13	177.20	7805.82	-1924.82	132.63	0.67	1929.39	406510.98	534449.43	
9444.00	90.13	176.85	7805.61	-2018.69	137.51	0.37	2023.37	406417.11	534454.31	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 7/7/2014	Time: 10:12:59	Page: 4
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: Peaches 19 Fed #2H, Grd North		
Site: Peaches 19 Fed #2H	Vertical (TVD) Reference: SITE 3193.0		
Well: Peaches 19 Fed #2H	Section (VS) Reference: Well (0.00N,0.00E:176.09Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
9539.00	88.99	177.37	7806.34	-2113.57	142.30	1.32	2118.35	406322.23	534459.10	
9633.00	89.96	177.11	7807.20	-2207.45	146.82	1.07	2212.33	406228.35	534463.62	
9728.00	89.08	178.60	7808.00	-2302.38	150.38	1.82	2307.28	406133.42	534467.18	
9822.00	89.78	178.78	7808.93	-2396.35	152.53	0.77	2401.17	406039.45	534469.33	
9917.00	88.90	177.90	7810.02	-2491.30	155.28	1.31	2496.09	405944.50	534472.08	
10011.00	89.60	178.25	7811.25	-2585.24	158.44	0.83	2590.03	405850.56	534475.24	
10105.00	89.25	177.37	7812.20	-2679.17	162.03	1.01	2683.98	405756.63	534478.83	
10200.00	89.34	176.67	7813.37	-2774.03	166.97	0.74	2778.96	405661.77	534483.77	
10294.00	90.48	176.58	7813.51	-2867.87	172.50	1.22	2872.95	405567.93	534489.30	
10389.00	90.13	176.58	7813.01	-2962.70	178.17	0.37	2967.95	405473.10	534494.97	
10483.00	89.69	175.26	7813.16	-3056.45	184.85	1.48	3061.95	405379.35	534501.65	
10540.00	90.84	175.09	7812.43	-3212.89	198.06	0.74	3218.92	405222.91	534514.86	
10672.00	90.31	175.00	7812.11	-3244.77	200.82	1.68	3250.91	405191.03	534517.62	
10767.00	89.43	174.47	7812.33	-3339.37	209.54	1.08	3345.89	405096.43	534526.34	
10861.00	90.13	174.65	7812.69	-3432.95	218.45	0.77	3439.85	405002.85	534535.25	
11050.00	90.13	174.91	7812.26	-3621.16	235.65	0.14	3628.80	404814.64	534552.45	
11145.00	89.34	176.14	7812.70	-3715.87	243.06	1.54	3723.79	404719.93	534559.86	
11239.00	89.87	176.32	7813.34	-3809.66	249.24	0.60	3817.79	404626.14	534566.04	
11333.00	90.57	176.06	7812.98	-3903.45	255.49	0.79	3911.79	404532.35	534572.29	
11427.00	90.13	176.23	7812.41	-3997.24	261.81	0.50	4005.79	404438.56	534578.61	
11521.00	90.22	176.76	7812.12	-4091.06	267.55	0.57	4099.78	404344.74	534584.35	
11615.00	89.34	175.79	7812.48	-4184.86	273.66	1.39	4193.78	404250.94	534590.46	
11709.00	89.60	175.88	7813.35	-4278.61	280.49	0.29	4287.78	404157.19	534597.29	
11803.00	89.96	176.23	7813.71	-4372.38	286.95	0.53	4381.77	404063.42	534603.75	
11897.00	88.81	175.53	7814.72	-4466.13	293.71	1.43	4475.77	403969.67	534610.51	
11991.00	89.34	175.00	7816.24	-4559.80	301.46	0.80	4569.74	403876.00	534618.26	
12085.00	89.60	174.83	7817.11	-4653.43	309.80	0.33	4663.72	403782.37	534626.60	
12180.00	90.13	174.91	7817.33	-4748.04	318.29	0.56	4758.70	403687.76	534635.09	
12274.00	89.16	174.91	7817.92	-4841.67	326.63	1.03	4852.67	403594.13	534643.43	
12369.00	89.87	175.00	7818.72	-4936.30	334.98	0.75	4947.65	403499.50	534651.78	
12463.00	90.57	175.79	7818.36	-5029.99	342.53	1.12	5041.64	403405.81	534659.33	
12558.00	90.66	175.79	7817.34	-5124.73	349.50	0.09	5136.64	403311.07	534666.30	
12579.00	90.84	175.62	7817.06	-5145.67	351.08	1.18	5157.63	403290.13	534667.88	Last SDI Svy
12641.00	90.84	175.12	7816.16	-5207.46	356.08	0.81	5219.62	403228.34	534672.88	Proj to Bit

Annotation

MD ft	TVD ft	
178.00	178.00	First SDI Svy
12579.00	7817.06	Last SDI Svy
12641.00	7816.16	Proj to Bit

OXY USA Inc.
Peaches 19 Federal #2H
API No. 30-015-42362

14-3/4" hole @ 470'
11-3/4" csg @ 470'
w/ 390sx-TOC-Surf-Circ

10-5/8" hole @ 1970'
8-5/8" csg @ 1970'
w/ 590sx-TOC-Surf-Circ

7-7/8" hole @ 12641'
5-1/2" csg @ 12628'
w/ 1480sx-TOC-Surf-Circ

2-7/8" tbg & pkr @ 7088'

Perfs @ 8124-12271'

TD - 12641'M 7816'V



**P.O. Box 80531
Midland, Texas 79708
432.687.1823 Main
432.687.1689 Fax**

Spud Date: 6/18/14

Started: 6/17/14 At: 120'

Ended: 7/4/14 At: 12641'

ApI No.: 30-015-42362

G.L.: 3168'

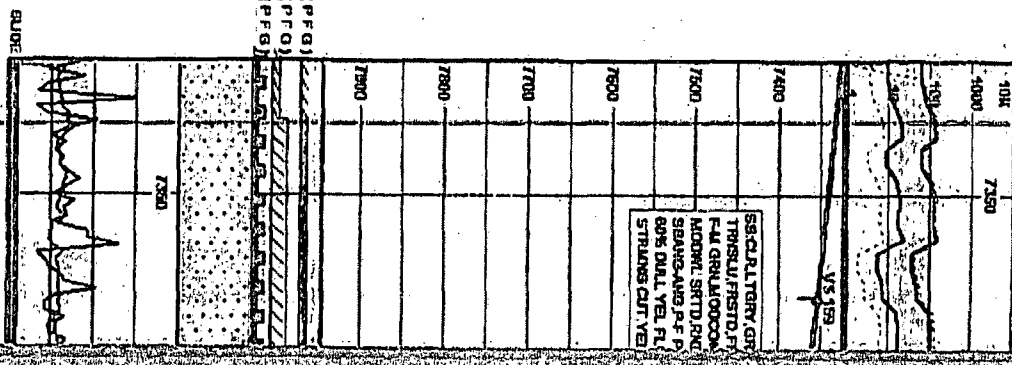
K.B: 3193'

Geologist: CYD RUIDIAZ

Accessories

[illegible]

CUT(PFG)
FLU 0-100%(PFG)
POR(PFG)





PROPAGATION RESISTIVITY
GAMMA RAY

2" = 100' FEET MD

COMPANY : OXY WELL : PEACHES 19 FED FIELD : N/A COUNTY : EDDY STATE : NEW MEXICO COUNTRY : USA UWI : 32-015-42362	WELL LOCATION LAT: 32° 7' 22.289" N LONG: 104° 13' 20.943" W N: 408435.80 ft E: 534316.80 ft		OTHER SERVICES DIRECTIONAL ROP CONDUCTIVITY FETR		
	SEC:	TWP:		RANGE:	
	DEPTH REF. : RKB REF. HEIGHT : 25.000 ft GROUND LEVEL : 1168.000 ft				
	RKB to Ground Level G.L. to MEAN SEA LEVEL				
BOREHOLE RECORD			DEVIATION RECORD		
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
7.875	7105	12641	0.0 - 90.00	7205	8374
			00 + / - 2.5	8374	12641
CASING RECORD					
CASING SIZE in	FROM ft	TO ft			
8.625	0	1980			
			DRILLING CO. : HEP		
			RIG : 611		
			LWD UNIT NO. : DISTRICT : MIDLAND		
			SPUD DATE : 6/28/2014		
			LWD START DATE : 6/28/2014 DEPTH : 7105 ft		
			LWD END DATE : 7/04/2014 DEPTH : 12641 ft		
			TOTAL DEPTH : 12641 ft		



PROPAGATION RESISTIVITY
GAMMA RAY

5" = 100' FEET MD

COMPANY : OXY WELL : PEACHES 19 FED FIELD : N/A COUNTY : EDDY STATE : NEW MEXICO COUNTRY : USA UWI : 32-015-42362	WELL LOCATION LAT: 32° 7' 22.289" N LONG: 104° 13' 20.943" W N: 408435.80 ft E: 534316.80 ft		OTHER SERVICES DIRECTIONAL ROP CONDUCTIVITY FETR		
	SEC:	TWP:		RANGE:	
	DEPTH REF. : RKB REF. HEIGHT : 25.000 ft GROUND LEVEL : 1168.000 ft				
	RKB to Ground Level G.L. to MEAN SEA LEVEL				
BOREHOLE RECORD			DEVIATION RECORD		
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
7.875	7105	12641	0.0 - 90.00	7205	8374
			00 + / - 2.5	8374	12641
CASING RECORD					
CASING SIZE in	FROM ft	TO ft			
8.625	0	1980			
			DRILLING CO. : HEP		
			RIG : 611		
			LWD UNIT NO. : DISTRICT : MIDLAND		
			SPUD DATE : 6/28/2014		
			LWD START DATE : 6/28/2014 DEPTH : 7105 ft		
			LWD END DATE : 7/04/2014 DEPTH : 12641 ft		
			TOTAL DEPTH : 12641 ft		



PROPAGATION RESISTIVITY
GAMMA RAY

5" = 100' FEET TVD

COMPANY : OXY WELL : PEACHES 19 FED FIELD : N/A COUNTY : EDDY STATE : NEW MEXICO COUNTRY : USA UWI : 32-015-42362	COMPANY : OXY	
	WELL : PEACHES 19 FED	
	FIELD : N/A	
	COUNTY : EDDY	
STATE : NEW MEXICO		
COUNTRY : USA		
UWI : 32-015-42362		
WELL LOCATION LAT: 32° 7' 22.289" N LONG: 104° 13' 20.943" W N: 408435.80 ft E: 534316.80 ft		
OTHER SERVICES		
DIRECTIONAL ROP CONDUCTIVITY FETR		
DEPTH REF. : RKB REF. HEIGHT : 25.000 ft GROUND LEVEL : 3168.000 ft		
RKB to Ground Level G.L. to MEAN SEA LEVEL		
BOREHOLE RECORD		
DEVIATION RECORD		
CASING RECORD		
DRILLING CO : HAP RIG : 621 LWD UNIT NO. : SPUD DATE : 6/28/2014 LWD START DATE : 6/28/2014 LWD END DATE : 6/28/2014		
DISTRICT : MIDLAND DEPTH : 7105 ft DEPTH : 12643 ft TOTAL DEPTH : 12643 ft		



PROPAGATION RESISTIVITY
GAMMA RAY

2" = 100' FEET TVD

COMPANY : OXY WELL : PEACHES 19 FED FIELD : N/A COUNTY : EDDY STATE : NEW MEXICO COUNTRY : USA UWI : 32-015-42362	COMPANY : OXY	
	WELL : PEACHES 19 FED	
	FIELD : N/A	
	COUNTY : EDDY	
STATE : NEW MEXICO		
COUNTRY : USA		
UWI : 32-015-42362		
WELL LOCATION LAT: 32° 7' 22.289" N LONG: 104° 13' 20.943" W N: 408435.80 ft E: 534316.80 ft		
OTHER SERVICES		
DIRECTIONAL ROP CONDUCTIVITY FETR		
DEPTH REF. : RKB REF. HEIGHT : 25.000 ft GROUND LEVEL : 3168.000 ft		
RKB to Ground Level G.L. to MEAN SEA LEVEL		
BOREHOLE RECORD		
DEVIATION RECORD		
CASING RECORD		
DRILLING CO : HAP RIG : 621 LWD UNIT NO. : SPUD DATE : 6/28/2014 LWD START DATE : 6/28/2014 LWD END DATE : 6/28/2014		
DISTRICT : MIDLAND DEPTH : 7105 ft DEPTH : 12643 ft TOTAL DEPTH : 12643 ft		