

3001542362

OCCIDENTAL PERMIAN LTD.

Cottonwood Draw
Eddy County, NM
Peaches 19 Federal #2H
DH - Job #320614-MP-798

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 06 2014

RECEIVED

Survey: MWD

SDI Survey Report

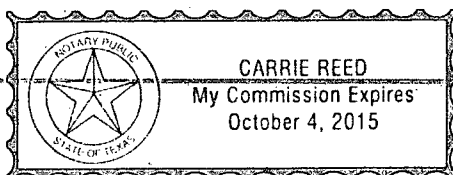
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 27th of October, 2014.

[Signature: 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 (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	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
178.0	12,579.0	MWD (DH - Job #320614-MP-798)	MWD	MWD	

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (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	34.66	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	56.34	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

Survey								
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	8.88	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

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
7,868.0	65.07	180.27	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

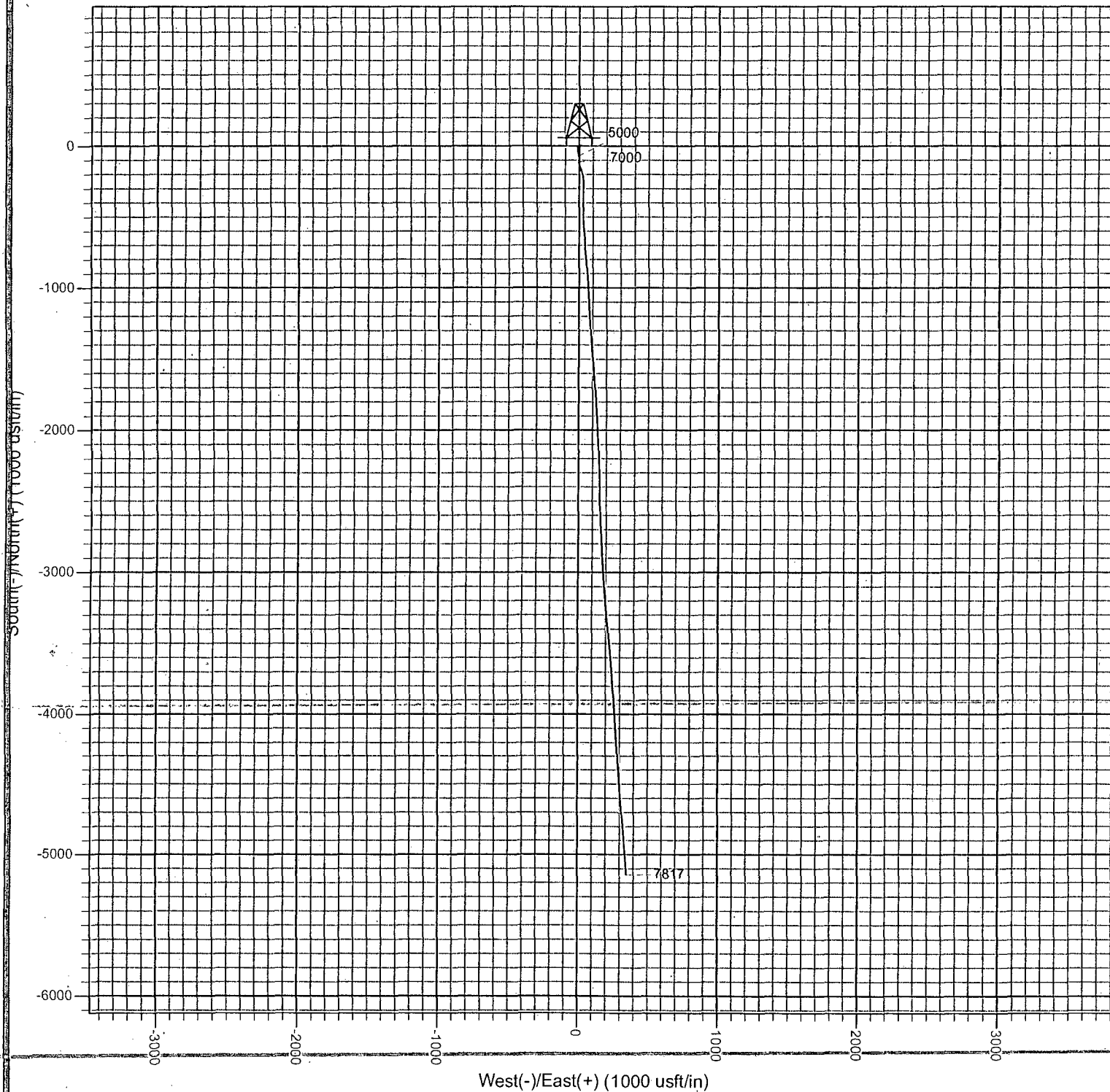
Project: Cottonwood Draw
Eddy County, NM
Well: Peaches 19 Federal #2H
Wellbore: DH - Job #320614-MP-798
Design: DH - Job #320614-MP-798

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	5380.33	-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	7101.80	-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
Peaches 19 Fed #2H	0.00	0.00	408435.80	534316.80	32°07'22.289N	104°13'20.943W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL(plat)	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	

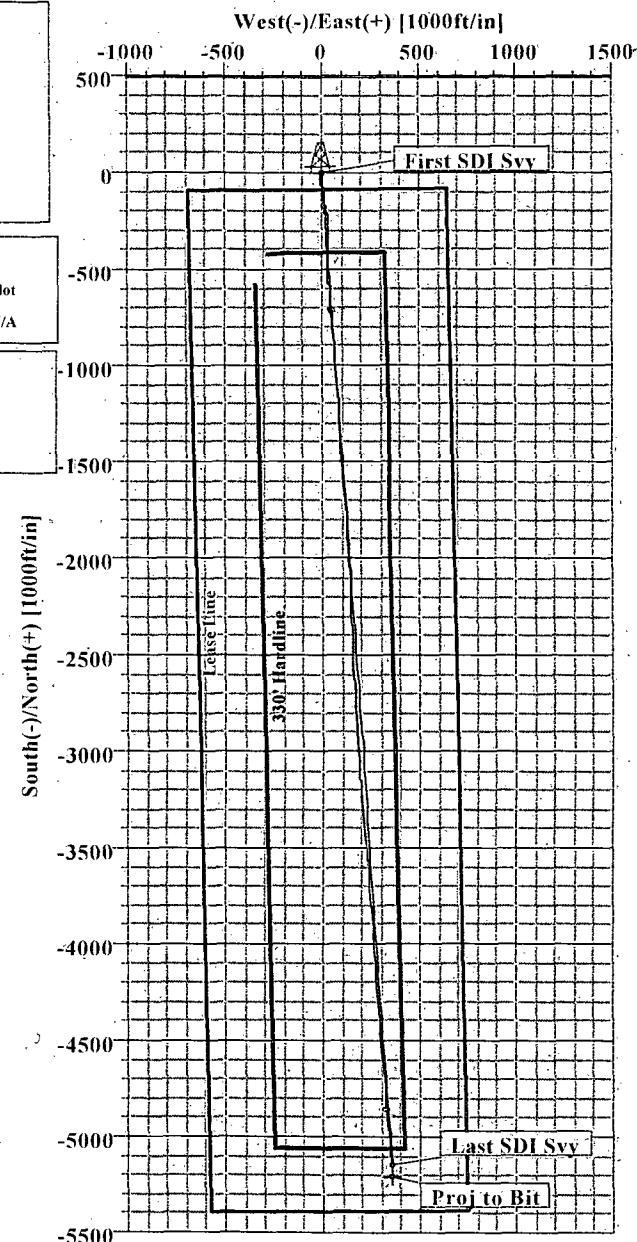
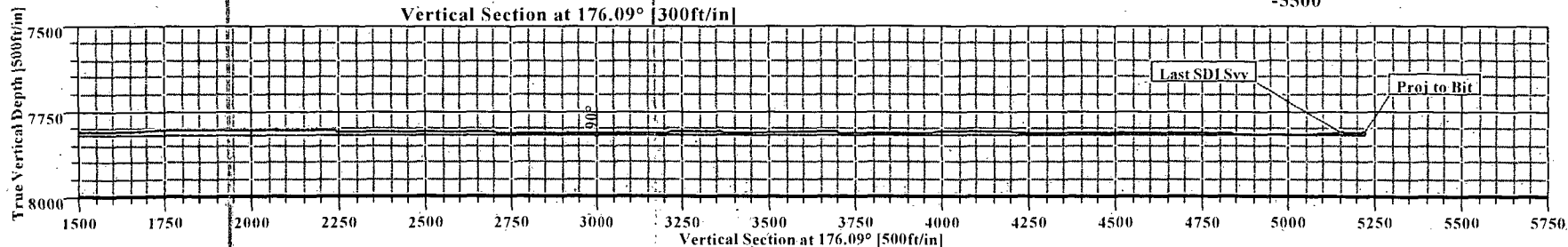
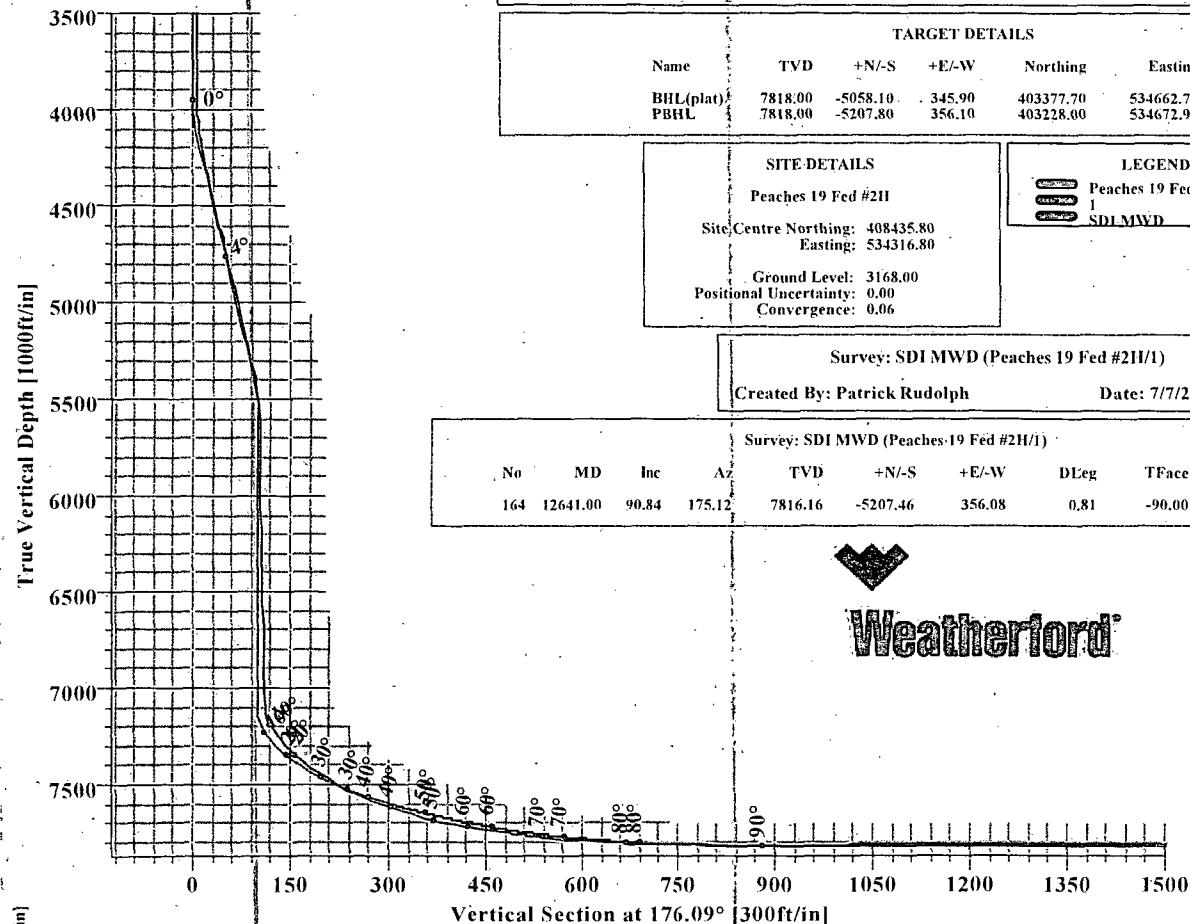
LEGEND	
	Peaches 19 Fed #2H, 1, Plan #2
	SDI MWD

Survey: SDI MWD (Peaches 19 Fed #2H/1)
Created By: Patrick Rudolph Date: 7/7/2014

Survey: SDI MWD (Peaches 19 Fed #2H/1)									
No	MD	Inc	Az	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





Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 7/7/2014 Time: 10:12:59 Page: 1
 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

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

Survey

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	First SDI Svy
178.00	0.26	21.90	178.00	0.37	0.15	0.15	-0.36	408436.17	534316.95	
241.00	0.26	22.77	241.00	0.64	0.26	0.01	-0.62	408436.44	534317.06	
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	259.55	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 3193.0
 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
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

MD 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	5.02	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, 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

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	
10640.00	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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Bruzard Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-42362	Pool Code 97494	Pool Name COTTONWOOD DRAW BONE SPRING
Property Code 39207	Property Name PEACHES "19" FEDERAL	Well Number 2H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3168.0'

Surface Location

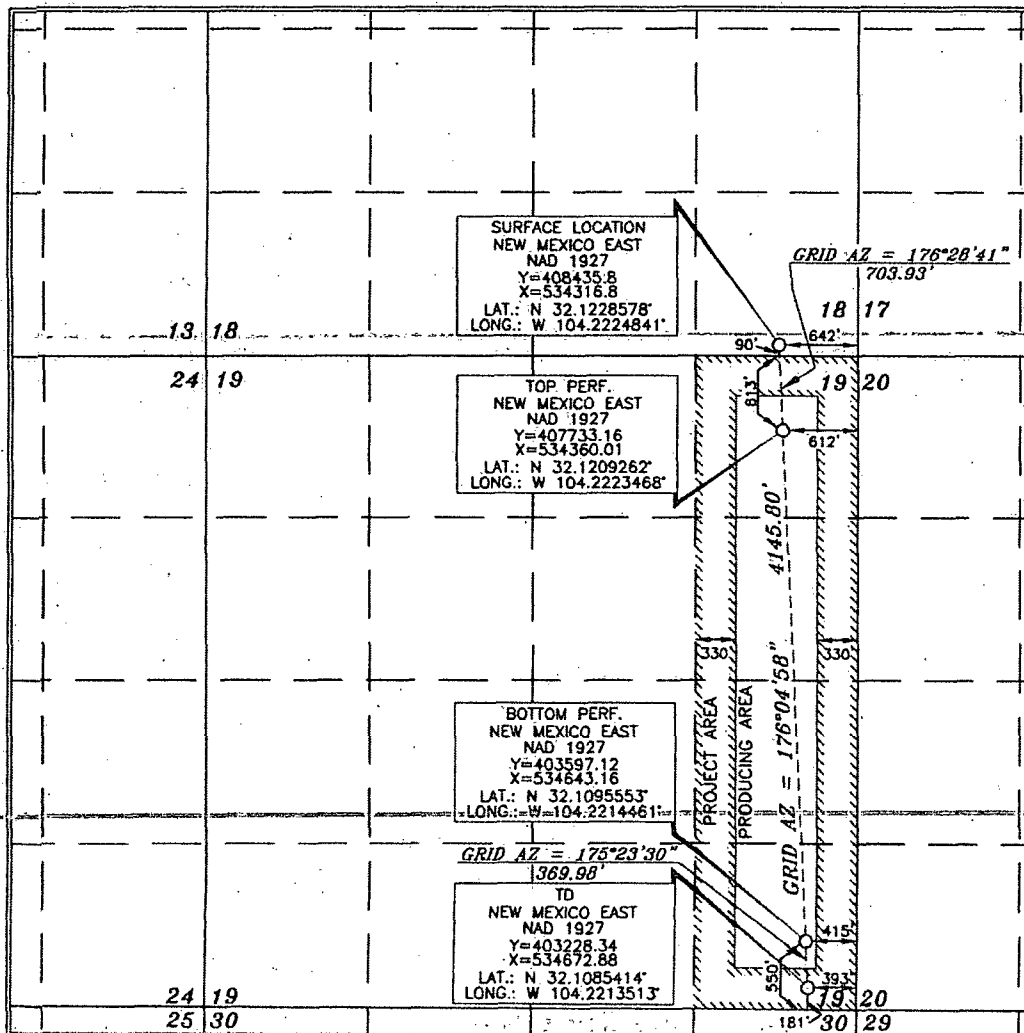
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	25 SOUTH	27 EAST, N.M.P.M.		90'	SOUTH	642'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	25 SOUTH	27 EAST, N.M.P.M.		181'	SOUTH	393'	EAST	EDDY

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Duane Stewart* Date: *11/4/14*
Printed Name: *Duane Stewart Sr. Reg. Adv.*
E-mail Address: *duane_stewart@oxy.com*

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from reliable actual surveys made by me under my supervision and that the same is true and correct to the best of my belief.

Date of Survey: *AUGUST 1, 2013*
Signature and Seal: *Larry J. Asch*
Professional Surveyor
Certificate Number: *15079*

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