

30-015-39220

OCCIDENTAL PERMIAN LTD.

Laguna Salado Bone Spring, S.
Eddy County, NM
Goodnight 27 Federal #3H
VH - Job #32K12111265

Survey: Actual

SDI Standard Survey Report

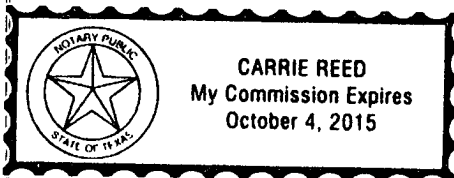
This survey is correct to the best of my knowledge and is supported by actual field data.

K. Martin

Notarized this date 31st of December, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Goodnight 27 Federal #3H
Project:	Laguna Salado Bone Spring, S	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Goodnight 27 Federal #3H	North Reference:	Grid
Wellbore:	VH - Job #32K12111265	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12111265	Database:	EDM-Regulatory

Project	Laguna Salado Bone Spring, S		
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:	465,143 90 usft
From:	Lat/Long	Easting:	603,975 34 usft
Position Uncertainty:	0 0 usft	Slot Radius:	0"
		Latitude:	32° 16' 42 057 N
		Longitude:	103° 59' 48 854 W
		Grid Convergence:	0 18 °

Well	Goodnight 27 Federal #3H, Directional (Weatherford)		
Well Position	+N/-S	0 0 usft	Northing: 462,529 04 usft
	+E/-W	0 0 usft	Easting: 609,354 26 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 16 009 N
		Longitude:	103° 58' 46 299 W
		Ground Level:	0 0 usft

Wellbore	VH - Job #32K12111265				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/30/2011	7 71	60 15	48,571

Design	VH - Job #32K12111265			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	5 16

Survey Program	Date	1/22/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	300 0	Actual (VH - Job #32K12111265)	Keeper	Keeper Surface Readout

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 48	205 12	100 0	-0 4	-0 2	205 12	0 4
200 0	0 30	213 91	200 0	-1 0	-0 5	207 21	1 1
300 0	0 62	192.75	300 0	-1 7	-0 8	204 03	1 9



Scientific Drilling
Directional Drilling Operations

Project: Laguna Salado Bone Spring, S
Eddy County, NM
Well Goodnight 27 Federal #3H
Wellbore: VH - Job #32K12111265
Design: VH - Job #32K12111265



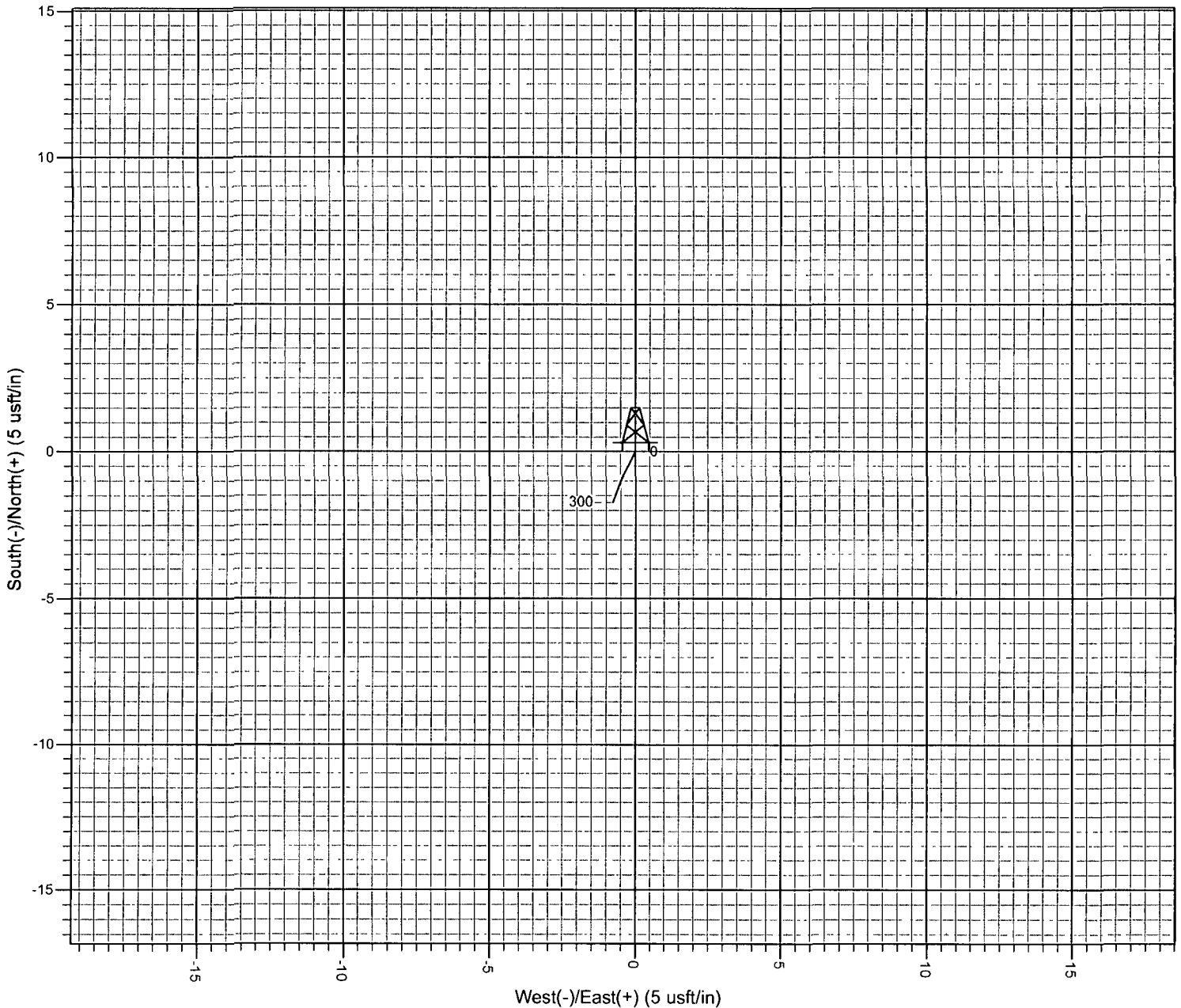
Azimuths to Grid North
True North -0 19°
Magnetic North 7 52°

Magnetic Field
Strength 48570 8snT
Dip Angle 60 15°
Date 12/30/2011
Model IGRF2010

WELL DETAILS: Goodnight 27 Federal #3H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 0	0.0	462529.04	609354.26	32° 16' 16.009 N	103° 58' 46.299 W	



PROJECT DETAILS: Laguna Salado Bone Spring, S.
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 16' 42.057 N
Longitude: 103° 59' 48.854 W
Positional Uncertainty: 0.0
Convergence: 0.18
Local North: Grid



Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd.	Date: 1/24/2012	Time: 07:11:31	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Goodnight 27 Fed #3H, Grid North	
Site: Goodnight 27 Fed #3H	Vertical (TVD) Reference:	SITE 3031.0	
Well: Goodnight 27 Fed #3H	Section (VS) Reference:	Well (0 00N,0.00E,5.16Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Wft Svy	Start Date:	1/6/2012
Company: Weatherford International Ltd	Engineer:	Patrick Rudolph
Tool: MWD;MWD - Standard	Tied-to:	User Defined

Field: Eddy Co, NM (Nad 27)		
Map System: US State Plane Coordinate System 1927	Map Zone:	New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System:	Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model:	IGRF2010

Site: Goodnight 27 Fed #3H		
Site Position:	Northing: 462529.00 ft	Latitude: 32 16 16 009 N
From: Map	Easting: 609354.30 ft	Longitude: 103 58 46.299 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3007.00 ft		Grid Convergence: 0.19 deg

Well: Goodnight 27 Fed #3H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 462529.00 ft	Latitude: 32 16 16 009 N
+E/-W 0.00 ft	Easting: 609354.30 ft	Longitude: 103 58 46.299 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface	
Current Datum: SITE	Tie-on Depth: 0.00 ft	
Magnetic Data: 1/20/2012	Above System Datum: Mean Sea Level	
Field Strength: 48565 nT	Declination: 7.70 deg	
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.15 deg	
	+N/-S	+E/-W
	ft	ft
	0.00	0.00
		0.00
		5.16

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
300.00	0.62	192.75	299.99	-1.73	-0.77	-1.79	0.00	0.00	0.00	Tie on SDI First Wft Svy
421.00	0.69	145.68	420.99	-2.97	-0.50	-3.00	0.44	0.06	-38.90	
512.00	0.67	150.50	511.98	-3.89	0.07	-3.86	0.07	-0.02	5.30	
605.00	0.80	139.82	604.97	-4.86	0.76	-4.77	0.20	0.14	-11.48	
695.00	0.93	135.67	694.96	-5.86	1.67	-5.68	0.16	0.14	-4.61	
785.00	0.94	137.34	784.95	-6.92	2.68	-6.65	0.03	0.01	1.86	
879.00	1.03	135.62	878.94	-8.09	3.80	-7.72	0.10	0.10	-1.83	
973.00	1.04	139.34	972.92	-9.34	4.94	-8.86	0.07	0.01	3.96	
1067.00	0.40	136.57	1066.91	-10.23	5.72	-9.67	0.68	-0.68	-2.95	
1161.00	0.35	102.49	1160.91	-10.53	6.23	-9.93	0.24	-0.05	-36.26	
1255.00	0.39	128.22	1254.91	-10.79	6.76	-10.14	0.18	0.04	27.37	
1349.00	0.36	141.69	1348.91	-11.22	7.20	-10.53	0.10	-0.03	14.33	
1444.00	0.30	174.12	1443.91	-11.70	7.41	-10.99	0.20	-0.06	34.14	
1538.00	0.32	189.83	1537.90	-12.21	7.39	-11.49	0.09	0.02	16.71	
1632.00	0.39	201.27	1631.90	-12.76	7.23	-12.06	0.11	0.07	12.17	
1726.00	0.49	187.27	1725.90	-13.46	7.06	-12.77	0.16	0.11	-14.89	
1819.00	0.64	197.79	1818.89	-14.35	6.85	-13.67	0.20	0.16	11.31	
1914.00	0.82	198.65	1913.89	-15.50	6.47	-14.85	0.19	0.19	0.91	
2008.00	0.20	278.88	2007.88	-16.11	6.09	-15.50	0.86	-0.66	85.35	
2102.00	0.32	311.13	2101.88	-15.91	5.73	-15.33	0.20	0.13	34.31	
2196.00	0.25	278.40	2195.88	-15.71	5.33	-15.17	0.19	-0.07	-34.82	
2291.00	0.11	242.82	2290.88	-15.72	5.05	-15.20	0.18	-0.15	-37.45	
2385.00	0.33	115.38	2384.88	-15.88	5.21	-15.34	0.43	0.23	-135.57	
2479.00	0.53	111.61	2478.88	-16.15	5.86	-15.56	0.21	0.21	-4.01	



Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Goodnight 27 Fed #3H
Well: Goodnight 27 Fed #3H
Wellpath: 1

Date: 1/24/2012 Time: 07:11:31 Page: 2
Co-ordinate(NE) Reference: Well: Goodnight 27 Fed #3H, Grid North
Vertical (TVD) Reference: SITE 3031.0
Section (VS) Reference: Well (0.00N,0.00E,5.16Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
2573.00	0.74	120.82	2572.87	-16.62	6.79	-15.95	0.25	0.22	9.80	
2667.00	0.62	78.69	2666.87	-16.84	7.81	-16.07	0.53	-0.13	-44.82	
2761.00	0.74	85.36	2760.86	-16.69	8.91	-15.82	0.15	0.13	7.10	
2856.00	0.84	101.61	2855.85	-16.78	10.20	-15.79	0.26	0.11	17.11	
2950.00	0.80	98.28	2949.84	-17.01	11.53	-15.91	0.07	-0.04	-3.54	
3010.00	0.80	104.34	3009.84	-17.17	12.35	-16.00	0.14	0.00	10.10	
3079.00	0.80	104.34	3078.83	-17.41	13.28	-16.15	0.00	0.00	0.00	
3146.00	0.92	108.43	3145.82	-17.70	14.24	-16.35	0.20	0.18	6.10	
3241.00	0.81	102.22	3240.81	-18.08	15.62	-16.61	0.15	-0.12	-6.54	
3335.00	0.91	94.41	3334.80	-18.28	17.02	-16.68	0.16	0.11	-8.31	
3430.00	0.75	98.04	3429.79	-18.43	18.39	-16.70	0.18	-0.17	3.82	
3524.00	0.53	102.66	3523.78	-18.61	19.42	-16.79	0.24	-0.23	4.91	
3618.00	0.42	62.78	3617.78	-18.54	20.15	-16.66	0.36	-0.12	-42.43	
3779.00	0.35	41.55	3778.78	-17.91	21.00	-15.95	0.10	-0.04	-13.19	
3806.00	0.32	58.23	3805.78	-17.81	21.12	-15.84	0.38	-0.11	61.78	
3900.00	0.18	54.35	3899.78	-17.58	21.46	-15.58	0.15	-0.15	-4.13	
3994.00	0.05	349.50	3993.78	-17.45	21.58	-15.44	0.18	-0.14	-68.99	
4088.00	0.27	348.70	4087.78	-17.20	21.52	-15.19	0.23	0.23	-0.85	
4182.00	0.20	345.73	4181.77	-16.82	21.44	-14.83	0.08	-0.07	-3.16	
4276.00	0.30	340.46	4275.77	-16.43	21.32	-14.45	0.11	0.11	-5.61	
4370.00	0.18	330.43	4369.77	-16.07	21.16	-14.10	0.13	-0.13	-10.67	
4464.00	0.20	351.61	4463.77	-15.78	21.07	-13.82	0.08	0.02	22.53	
4559.00	0.18	330.80	4558.77	-15.48	20.97	-13.54	0.08	-0.02	-21.91	
4653.00	0.32	343.57	4652.77	-15.10	20.82	-13.17	0.16	0.15	13.59	
4746.00	0.32	315.04	4745.77	-14.67	20.57	-12.76	0.17	0.00	-30.68	
4841.00	0.36	318.47	4840.77	-14.26	20.18	-12.39	0.05	0.04	3.61	
4935.00	0.20	302.08	4934.77	-13.95	19.85	-12.11	0.19	-0.17	-17.44	
5029.00	0.32	294.92	5028.77	-13.75	19.47	-11.95	0.13	0.13	-7.62	
5123.00	0.40	343.72	5122.76	-13.33	19.14	-11.55	0.33	0.09	51.91	
5217.00	0.64	356.96	5216.76	-12.49	19.02	-10.73	0.28	0.26	14.09	
5311.00	0.50	353.71	5310.76	-11.56	18.95	-9.81	0.15	-0.15	-3.46	
5406.00	0.44	339.74	5405.75	-10.80	18.77	-9.07	0.14	-0.06	-14.71	
5500.00	0.60	336.35	5499.75	-10.01	18.45	-8.31	0.17	0.17	-3.61	
5594.00	0.64	338.05	5593.74	-9.08	18.06	-7.42	0.05	0.04	1.81	
5688.00	0.58	335.53	5687.74	-8.16	17.66	-6.54	0.07	-0.06	-2.68	
5783.00	0.58	334.48	5782.73	-7.28	17.26	-5.70	0.01	0.00	-1.11	
5877.00	0.53	323.95	5876.73	-6.50	16.80	-4.97	0.12	-0.05	-11.20	
5971.00	0.47	332.14	5970.72	-5.81	16.36	-4.32	0.10	-0.06	8.71	
6065.00	0.47	302.84	6064.72	-5.26	15.86	-3.81	0.25	0.00	-31.17	
6159.00	0.39	306.52	6158.72	-4.86	15.28	-3.47	0.09	-0.09	3.91	
6254.00	0.30	290.48	6253.72	-4.58	14.78	-3.24	0.14	-0.09	-16.88	
6348.00	0.60	300.79	6347.71	-4.24	14.13	-2.96	0.33	0.32	10.97	
6443.00	0.90	335.97	6442.71	-3.31	13.40	-2.09	0.56	0.32	37.03	
6537.00	0.35	259.34	6536.70	-2.69	12.82	-1.52	0.94	-0.59	-81.52	
6631.00	0.87	353.23	6630.70	-2.03	12.45	-0.90	1.02	0.55	99.88	
6725.00	0.95	347.16	6724.69	-0.56	12.19	0.54	0.13	0.09	-6.46	
6819.00	0.77	350.53	6818.67	0.82	11.92	1.89	0.20	-0.19	3.59	
6913.00	0.93	342.64	6912.66	2.17	11.58	3.20	0.21	0.17	-8.39	
6945.00	0.75	339.97	6944.66	2.62	11.43	3.63	0.58	-0.56	-8.34	
6976.00	1.13	349.09	6975.66	3.11	11.31	4.11	1.31	1.23	29.42	
7007.00	3.10	354.38	7006.63	4.24	11.17	5.23	6.38	6.35	17.06	
7039.00	5.63	354.44	7038.54	6.66	10.93	7.62	7.91	7.91	0.19	



Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Goodnight 27 Fed #3H
Well: Goodnight 27 Fed #3H
Wellpath: 1

Date: 1/24/2012 Time: 07:11:31 Page: 3
Co-ordinate(NE) Reference: Well: Goodnight 27 Fed #3H, Grid North
Vertical (TVD) Reference: SITE 3031.0
Section (VS) Reference: Well (0.00N,0.00E,5.16Az)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
7070.00	8.43	355.12	7069.30	10.44	10.59	11.35	9.04	9.03	2.19	
7102.00	10.96	356.69	7100.84	15.82	10.21	16.67	7.95	7.91	4.91	
7133.00	13.23	358.78	7131.15	22.31	9.97	23.11	7.46	7.32	6.74	
7164.00	15.36	359.73	7161.19	29.96	9.87	30.73	6.91	6.87	3.06	
7196.00	17.04	0.71	7191.92	38.89	9.91	39.62	5.32	5.25	3.06	
7227.00	19.04	1.81	7221.39	48.48	10.13	49.20	6.54	6.45	3.55	
7259.00	21.87	3.01	7251.37	59.66	10.61	60.37	8.94	8.84	3.75	
7290.00	25.51	4.39	7279.76	72.08	11.42	72.82	11.88	11.74	4.45	
7321.00	29.13	5.69	7307.30	86.25	12.68	87.04	11.83	11.68	4.19	
7353.00	33.22	6.16	7334.67	102.72	14.39	103.60	12.80	12.78	1.47	
7384.00	35.53	6.50	7360.25	120.12	16.32	121.10	7.48	7.45	1.10	
7416.00	37.78	6.65	7385.92	139.09	18.51	140.19	7.04	7.03	0.47	
7447.00	39.41	5.92	7410.15	158.32	20.63	159.53	5.46	5.26	-2.35	
7478.00	40.29	5.23	7433.95	178.08	22.56	179.39	3.18	2.84	-2.23	
7510.00	40.66	4.68	7458.29	198.78	24.35	200.16	1.61	1.16	-1.72	
7541.00	41.09	5.07	7481.73	218.99	26.07	220.45	1.61	1.39	1.26	
7573.00	41.89	5.58	7505.70	240.10	28.04	241.65	2.71	2.50	1.59	
7604.00	42.66	5.41	7528.64	260.86	30.04	262.50	2.51	2.48	-0.55	
7635.00	43.96	5.51	7551.20	282.02	32.06	283.76	4.20	4.19	0.32	
7667.00	45.87	5.07	7573.86	304.52	34.14	306.36	6.05	5.97	-1.37	
7698.00	47.97	4.90	7595.03	327.08	36.11	329.00	6.79	6.77	-0.55	
7730.00	50.11	4.17	7616.01	351.16	38.02	353.16	6.91	6.69	-2.28	
7761.00	52.34	2.79	7635.42	375.29	39.48	377.32	7.99	7.19	-4.45	
7793.00	54.68	1.77	7654.45	400.99	40.50	403.01	7.75	7.31	-3.19	
7824.00	57.40	1.39	7671.76	426.69	41.21	428.67	8.83	8.77	-1.23	
7856.00	60.11	1.59	7688.36	454.04	41.92	455.97	8.49	8.47	0.62	
7887.00	62.48	2.20	7703.25	481.21	42.82	483.11	7.84	7.65	1.97	
7919.00	64.76	3.22	7717.47	509.84	44.18	511.75	7.68	7.12	3.19	
7950.00	68.05	4.12	7729.87	538.19	46.00	540.15	10.94	10.61	2.90	
7982.00	71.19	4.94	7741.02	568.09	48.37	570.14	10.10	9.81	2.56	
8013.00	74.95	5.13	7750.04	597.62	50.97	599.79	12.14	12.13	0.61	
8044.00	77.85	5.31	7757.33	627.63	53.72	629.91	9.37	9.35	0.58	
8076.00	79.48	5.45	7763.62	658.86	56.66	661.29	5.11	5.09	0.44	
8107.00	81.27	5.34	7768.80	689.29	59.53	691.85	5.78	5.77	-0.35	
8138.00	82.96	5.45	7773.05	719.86	62.42	722.56	5.46	5.45	0.35	
8170.00	84.50	5.38	7776.55	751.53	65.42	754.36	4.82	4.81	-0.22	
8202.00	86.11	5.47	7779.17	783.27	68.43	786.26	5.04	5.03	0.28	
8232.00	87.51	5.40	7780.84	813.09	71.27	816.21	4.67	4.67	-0.23	
8264.00	88.63	5.22	7781.92	844.94	74.23	848.19	3.54	3.50	-0.56	
8295.00	89.34	5.08	7782.46	875.81	77.01	879.18	2.33	2.29	-0.45	
8389.00	91.64	5.19	7781.66	969.42	85.43	973.17	2.45	2.45	0.12	
8483.00	92.55	5.26	7778.22	1062.97	93.98	1067.11	0.97	0.97	0.07	
8577.00	92.77	6.27	7773.86	1156.39	103.41	1161.00	1.10	0.23	1.07	
8671.00	92.55	6.74	7769.50	1249.68	114.05	1254.87	0.55	-0.23	0.50	
8765.00	92.20	7.02	7765.60	1342.92	125.30	1348.75	0.48	-0.37	0.30	
8859.00	90.38	7.14	7763.49	1436.18	136.88	1442.67	1.94	-1.94	0.13	
8954.00	88.84	8.01	7764.13	1530.35	149.41	1537.58	1.86	-1.62	0.92	
9048.00	85.34	6.31	7768.91	1623.47	161.11	1631.38	4.14	-3.72	-1.81	
9142.00	87.09	5.94	7775.11	1716.73	171.11	1725.16	1.90	1.86	-0.39	
9236.00	89.48	6.25	7777.92	1810.15	181.09	1819.10	2.56	2.54	0.33	
9330.00	88.15	6.30	7779.87	1903.56	191.36	1913.06	1.42	-1.41	0.05	
9425.00	89.05	6.21	7782.19	1997.97	201.71	2008.01	0.95	0.95	-0.09	
9519.00	89.20	5.53	7783.63	2091.47	211.32	2101.99	0.74	0.16	-0.72	



Weatherford International Ltd.

WFT Survey Report

**Weatherford**

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Goodnight 27 Fed #3H
Well: Goodnight 27 Fed #3H
Wellpath: 1

Date: 1/24/2012 Time: 07:11:31 Page: 4
Co-ordinate(NE) Reference: Well: Goodnight 27 Fed #3H, Grid North
Vertical (TVD) Reference: SITE 3031.0
Section (VS) Reference: Well (0.00N,0.00E,5.16Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
9613.00	89 33	5.69	7784.83	2185.01	220.51	2195.98	0.22	0.14	0.17	
9707.00	90 10	4.73	7785.30	2278.62	229.04	2289.98	1.31	0.82	-1.02	
9801.00	91.08	4.26	7784.33	2372.32	236.41	2383.97	1.16	1.04	-0.50	
9895.00	90 31	4.55	7783.19	2466.04	243.63	2477.95	0.88	-0.82	0.31	
9990.00	89 41	3.80	7783.42	2560.78	250.55	2572.94	1.23	-0.95	-0.79	
10084.00	90 24	3.31	7783.71	2654.60	256.37	2666.90	1.03	0.88	-0.52	
10178.00	89.19	3.90	7784.18	2748.41	262.29	2760.86	1.28	-1.12	0.63	
10272.00	89.97	3.53	7784.87	2842.21	268.38	2854.83	0.92	0.83	-0.39	
10366.00	89.13	3.06	7785.60	2936.05	273.78	2948.77	1.02	-0.89	-0.50	
10460.00	89 97	3.05	7786.34	3029.91	278.79	3042.71	0.89	0.89	-0.01	
10554.00	89 68	5.11	7786.63	3123.67	285.48	3136.68	2.21	-0.31	2.19	
10649.00	89 06	4.59	7787.67	3218.32	293.51	3231.68	0.85	-0.65	-0.55	
10743.00	89.90	4.65	7788.53	3312.01	301.08	3325.67	0.90	0.89	0.06	
10837.00	88.70	5.11	7789.68	3405.66	309.07	3419.66	1.37	-1.28	0.49	
10931.00	89 20	5.56	7791.40	3499.24	317.81	3513.64	0.72	0.53	0.48	
11026.00	90 03	5.18	7792.04	3593.82	326.70	3608.64	0.96	0.87	-0.40	
11120.00	90 87	4.94	7791.30	3687.45	334.99	3702.63	0.93	0.89	-0.26	
11214.00	89 90	5.71	7790.67	3781.04	343.72	3796.63	1.32	-1.03	0.82	
11308.00	90.45	5.90	7790.38	3874.56	353.22	3890.62	0.62	0.59	0.20	
11359.00	90 80	5.92	7789.82	3925.28	358.47	3941.61	0.69	0.69	0.04	Last Wft Svy
11419.00	90.80	5.92	7788.99	3984.96	364.66	4001.60	0.00	0.00	0.00	Proj. to Bit

Annotation

MD ft	TVD ft	
300.00	299.99	Tie on SDI
421.00	420.99	First Wft Svy
11359.00	7789.82	Last Wft Svy
11419.00	7788.99	Proj. to Bit Pbhl



Weatherford®

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Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: January 25, 2012

Attention: Douglas Muir

Re: Occidental Permian Ltd
Well: Goodnight 27 FED #3H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Ben Hernandez MWD Supervisor	3H	421' MD 11359' MD	12/24/2011 1/24/2012	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Coordinator

On this, the 24 day of January, 2012, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public