

OCCIDENTAL PERMIAN LTD.

Laguna Salado Bone Spring, S.
Eddy County, NM
Cypress 28 Federal #4H
VH - Job #32K1011954

Survey: Actual

SDI Standard Survey Report

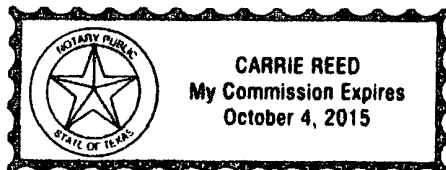
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 15th of November, 2011.

[Signature]

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 Cypress 28 Federal #4H
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:	Cypress 28 Federal #4H	North Reference:	Grid
Wellbore:	VH - Job #32K1011954	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011954	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:	Cypress 28 Federal #4H, Directional (Weatherford)		
Well Position	+N/-S	0 0 usft	Northing: 465,143 90 usft
	+E/-W	0 0 usft	Easting: 603,975 34 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 42 057 N
		Longitude:	103° 59' 48 854 W
		Ground Level:	0 0 usft

Wellbore:	VH - Job #32K1011954		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	10/5/2011	7 75
			Dip Angle
			60 16
			Field Strength
			48,597

Design:	VH - Job #32K1011954		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			Direction
			(°)
			94 20

Survey Program	Date	11/15/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
88.0	273 0	Actual (VH - Job #32K1011954)	Keeper	Keeper Surface Readout

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0 0	0.00	0 00	0 0	0.0	0 0	0 00	0 0	
88 0	0.43	315 37	88 0	0.2	-0.2	315.37	0.3	
181 0	0.76	294 00	181 0	0.7	-1.0	305.21	1.3	
273 0	1.06	275 99	273 0	1.1	-2.4	293.66	2.7	



Scientific Drilling
Directional Drilling Operations

Project: Laguna Salado Bone Spring, S.
Eddy County, NM
Well: Cypress 28 Federal #4H
Wellbore: VH - Job #32K1011954
Design: VH - Job #32K1011954

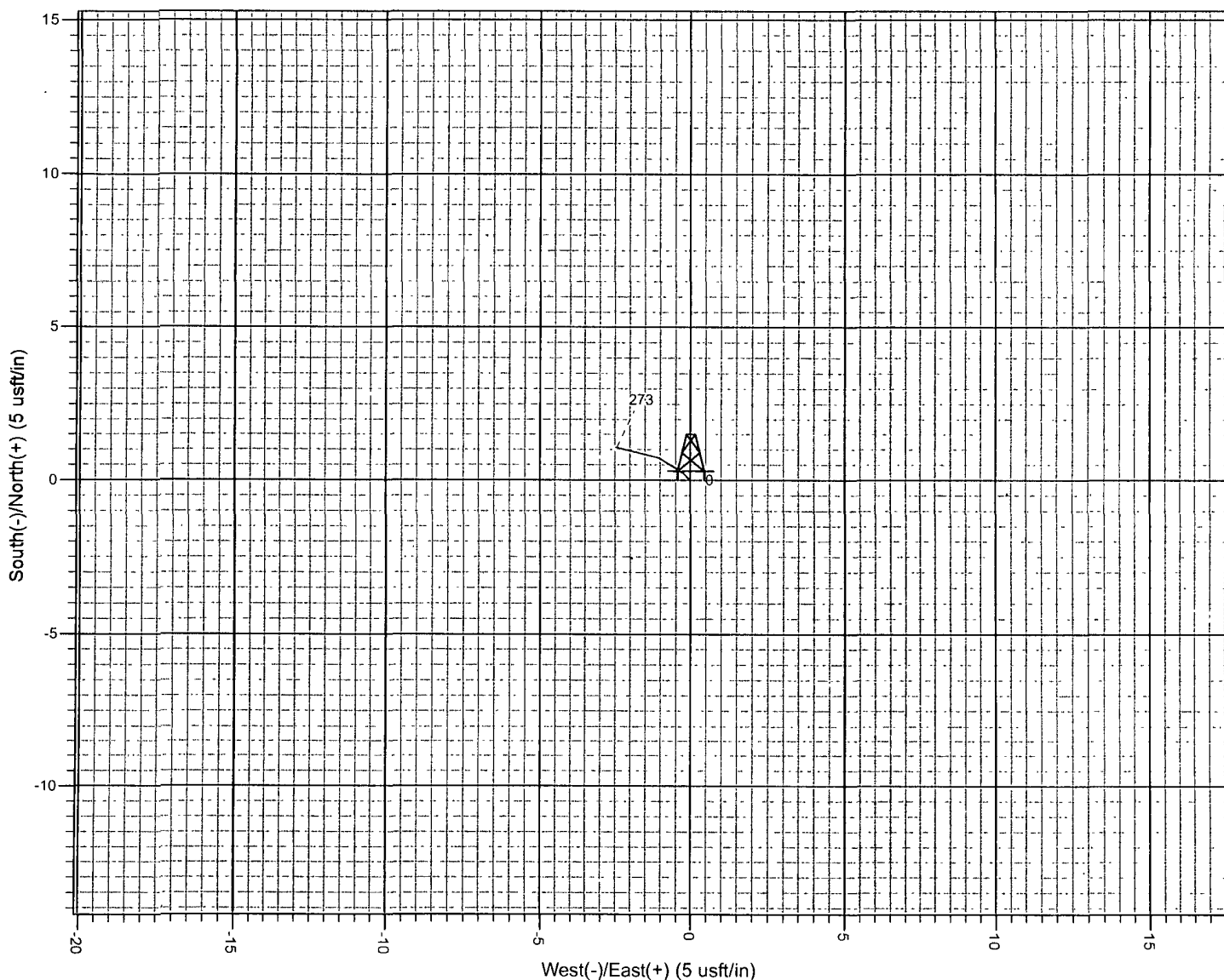


Azimuths to Grid North
True North -0 18°
Magnetic North 7 57°

Magnetic Field
Strength: 48596.7snT
Dip Angle 60.16°
Date: 10/5/2011
Model: IGRF2010

WELL DETAILS: Cypress 28 Federal #4H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0 0	465143.90	603975.34	32° 16' 42.057 N	103° 59' 48.854 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®

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

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

NOV 08 2011

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

Date: November 3, 2011

Attention: Douglas Muir

Re: Occidental Permian Ltd
Well: Cypress 28 Fed #4H
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>
Donny Meister MWD Supervisor	4H	405' MD 10703' MD	10/6/2011 11/2/2011	Measurement While Drilling

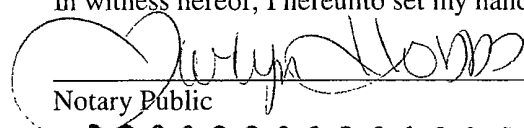
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

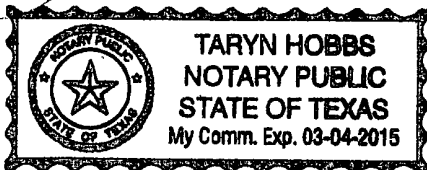

Jesse Aguilar

MWD Coordinator

On this, the 8th day of November, 2011, 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.

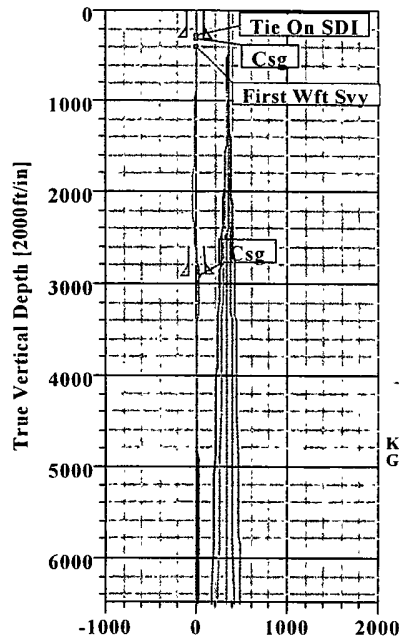

Notary Public



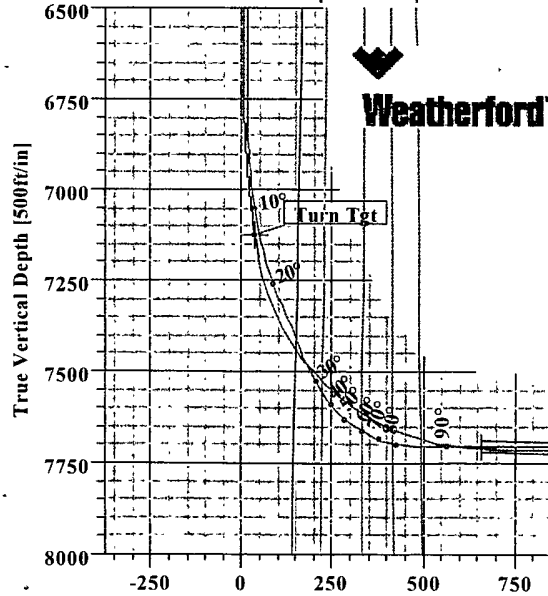
Rec Mid Res. 11/23/12



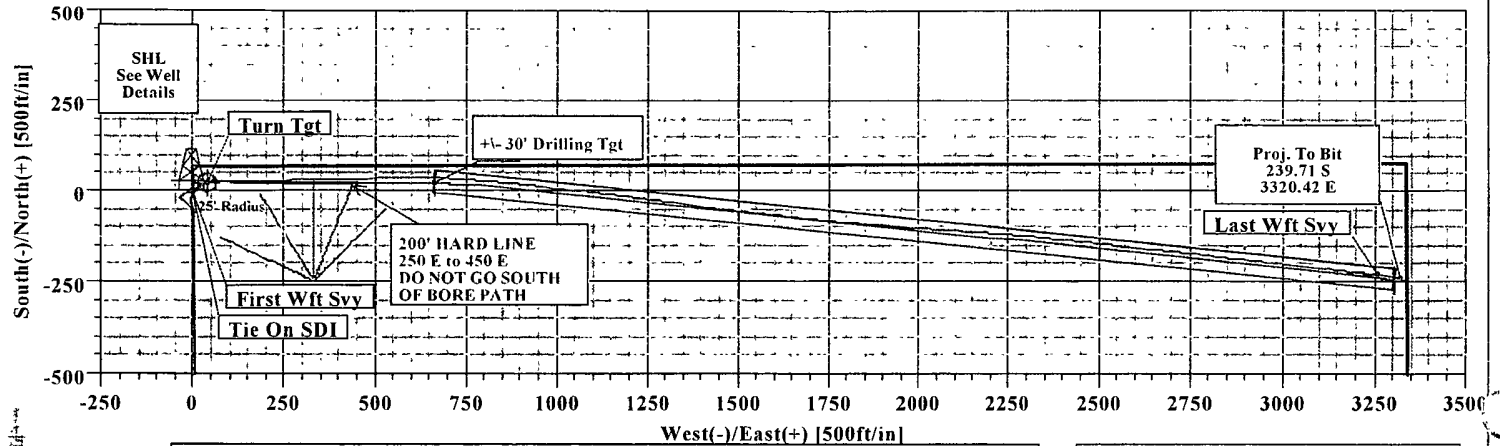
Occidental Permian Ltd.
Cypress 28 Fed 4H
Eddy Co, NM



Vertical Section at 94.20° [2000ft/in]



Vertical Section at 94.20° [500ft/in]



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4159.00	3.75	34.30	4153.29	-14.99	-5.42	0.00	0.00	-4.31	
2	4252.28	3.75	20.00	4246.38	-9.61	-2.66	1.00	262.87	-1.95	
3	4402.28	3.75	20.00	4396.06	-0.39	0.70	0.00	0.00	0.72	
4	4527.28	0.00	0.00	4520.97	3.46	2.09	3.00	180.00	1.84	
5	6685.50	0.00	0.00	6679.18	3.46	2.09	0.00	0.00	1.84	
6	7140.05	10.00	62.79	7131.42	21.55	37.28	2.20	0.00	35.60	Turn Tgt
7	7192.90	10.00	90.44	7183.51	23.61	45.96	9.00	103.62	44.10	
8	8069.90	88.93	90.44	7709.47	18.89	661.00	9.00	0.00	657.84	
9	8249.53	88.93	95.83	7712.82	9.07	840.26	3.00	90.03	837.34	
10	10726.71	88.93	95.83	7759.00	-242.50	3304.20	0.00	0.00	3313.09	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
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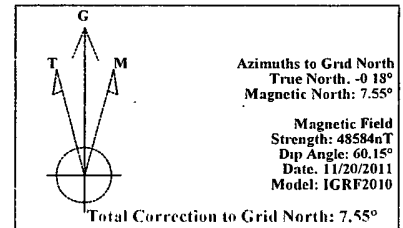
Cypress 28 Fed 4H 0.00 0.00 465143.90 603975.30 32°16'42.057N 103°59'48.854W N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Turn Tgt	7126.71	21.76	37.69	465165.66	604012.99	Circle (Radius: 25)
Lp	7710.00	18.88	662.27	465162.78	604637.57	Point
Pbhl	7759.00	-242.50	3304.20	464901.40	607279.50	Rectangle (2655x60)

Survey: Wft Svy (Cypress 28 Fed 4H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
142	10765.00	90.24	97.63	7750.22	-239.71	3320.42	0.00	0.00	3329.06



Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.55°
Magnetic Field
Strength: 48584nT
Dip Angle: 60.15°
Date: 11/20/2011
Model: IGRF2010

Total Correction to Grid North: 7.55°

FIELD DETAILS

Eddy Co, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Cypress 28 Fed 4H
Site Centre Northing: 465143.90
Easting: 603975.30
Ground Level: 3005.80
Positional Uncertainty: 0.00
Convergence: 0.18

LEGEND

- Cypress 28 Fed 4H, Plan #5
- Cypress 28 Fed 4H, Gyro
- Cochiti 28 Fed 1 (0 azi)
- Cochiti 28 Fed 1 (22 Azi)
- Cochiti 28 Fed 1 (295 azi)
- Cochiti 28 Fed 1 (328 Azi)
- Cochiti 28 Fed 1 (45 azi)
- 1
- Wft Svy

Survey: Wft Svy (Cypress 28 Fed 4H/1)

Created By: Russell W. Joyner

Date: 11/2/2011



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 11/2/2011	Time: 06:54:06	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: Cypress 28 Fed 4H, Grid North		
Site: Cypress 28 Fed 4H	Vertical (TVD) Reference: SITE 3029.8		
Well: Cypress 28 Fed 4H	Section (VS) Reference: Well (0.00N,0.00E,94.20Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 10/11/2011
Company: Weatherford International Ltd.	Engineer: Russell W Joyner
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: Cypress 28 Fed 4H

Site Position:	Northing: 465143.90 ft	Latitude: 32 16 42 057 N
From: Map	Easting: 603975.30 ft	Longitude: 103 59 48 854 W
Position Uncertainty: 0 00 ft		North Reference: Grid
Ground Level: 3005.80 ft		Grid Convergence: 0 18 deg

Well: Cypress 28 Fed 4H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 16 42 057 N
+E/-W 0.00 ft	Longitude: 103 59 48 854 W
Position Uncertainty: 0 00 ft	

Wellpath: 1	Drilled From: Surface
	Tie-on Depth: 0 00 ft
Current Datum: SITE	Above System Datum: Mean Sea Level
Magnetic Data: 11/20/2011	Declination: 7.73 deg
Field Strength: 48584 nT	Mag Dip Angle: 60.15 deg
Vertical Section: Depth From (TVD)	Direction
ft	deg
0.00	0.00
	0 00
	94 20

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
273.00	1.06	275.99	272.98	1.07	-2.44	0.00	-2.52	465144.97	603972.86	Tie On SDI
305.00	0.92	270.03	304.98	1.10	-3.00	0.55	-3.07	465145.00	603972.30	Csg
405.00	0.60	235.07	404.97	0.80	-4.23	0.55	-4.27	465144.70	603971.07	First Wft Svy
495.00	0.64	235.77	494.96	0.25	-5.03	0.05	-5.03	465144.15	603970.27	
586.00	0.87	223.40	585.96	-0.54	-5.92	0.31	-5.87	465143.36	603969.38	
677.00	0.81	237.39	676.95	-1.39	-6.94	0.23	-6.82	465142.51	603968.36	
769.00	0.98	234.17	768.94	-2.20	-8.12	0.19	-7.94	465141.70	603967.18	
858.00	1.12	240.65	857.92	-3.07	-9.50	0.21	-9.25	465140.83	603965.80	
953.00	1.51	244.12	952.90	-4.07	-11.43	0.42	-11.11	465139.83	603963.87	
1047.00	2.08	243.27	1046.85	-5.38	-14.07	0.61	-13.64	465138.52	603961.23	
1141.00	2.52	245.34	1140.77	-7.01	-17.47	0.48	-16.91	465136.89	603957.83	
1235.00	2.69	242.26	1234.68	-8.90	-21.30	0.23	-20.60	465135.00	603954.00	
1329.00	2.21	238.07	1328.59	-10.88	-24.80	0.54	-23.93	465133.02	603950.50	
1424.00	2.02	231.86	1423.52	-12.88	-27.67	0.31	-26.65	465131.02	603947.63	
1518.00	1.71	225.57	1517.48	-14.89	-29.97	0.39	-28.80	465129.01	603945.33	
1613.00	1.24	211.75	1612.44	-16.76	-31.52	0.62	-30.21	465127.14	603943.78	
1708.00	1.03	210.61	1707.42	-18.37	-32.50	0.22	-31.07	465125.53	603942.80	
1803.00	0.92	217.09	1802.41	-19.71	-33.39	0.16	-31.86	465124.19	603941.91	
1897.00	0.94	234.92	1896.40	-20.75	-34.48	0.31	-32.87	465123.15	603940.82	
1991.00	1.16	249.31	1990.38	-21.53	-36.00	0.36	-34.33	465122.37	603939.30	
2086.00	0.71	242.64	2085.37	-22.14	-37.42	0.49	-35.70	465121.76	603937.88	
2180.00	1.69	127.09	2179.36	-23.25	-36.84	2.23	-35.04	465120.65	603938.46	
2274.00	3.40	120.86	2273.26	-25.51	-33.34	1.84	-31.38	465118.39	603941.96	
2368.00	3.19	128.87	2367.11	-28.58	-28.91	0.54	-26.74	465115.32	603946.39	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Occidental Permian Ltd. Date: 11/2/2011 Time: 06:54:06 Page: 2
Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well: Cypress 28 Fed 4H, Grid North
Site: Cypress 28 Fed 4H Vertical (TVD) Reference: SITE:3029.8
Well: Cypress 28 Fed 4H Section (VS) Reference: Well (0.00N,0.00E,94.20Azi)
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
2462.00	4.84	129.44	2460.87	-32.74	-23.81	1.76	-21.35	465111.16	603951.49	
2556.00	6.11	130.45	2554.44	-38.51	-16.94	1.35	-14.08	465105.39	603958.36	
2651.00	7.04	132.67	2648.82	-45.74	-8.81	1.01	-5.44	465098.16	603966.49	
2745.00	7.30	132.42	2742.08	-53.67	-0.17	0.28	3.76	465090.23	603975.13	
2840.00	5.04	134.87	2836.52	-60.68	7.25	2.39	11.67	465083.22	603982.55	
2920.00	3.31	138.49	2916.31	-64.89	11.27	2.19	15.99	465079.01	603986.57	Csg
2965.00	2.35	142.85	2961.25	-66.60	12.69	2.19	17.53	465077.30	603987.99	
3028.00	2.00	147.52	3024.21	-68.56	14.06	0.62	19.04	465075.34	603989.36	
3122.00	0.67	270.07	3118.19	-69.94	14.39	2.58	19.47	465073.96	603989.69	
3216.00	3.13	310.44	3212.13	-68.28	11.89	2.82	16.85	465075.62	603987.19	
3310.00	3.87	311.52	3305.96	-64.51	7.56	0.79	12.26	465079.39	603982.86	
3405.00	3.75	327.40	3400.75	-59.77	3.48	1.11	7.85	465084.13	603978.78	
3501.00	3.72	331.49	3496.55	-54.39	0.31	0.28	4.28	465089.51	603975.61	
3595.00	3.73	331.55	3590.35	-49.02	-2.61	0.01	0.99	465094.88	603972.69	
3690.00	3.62	343.00	3685.15	-43.43	-4.96	0.78	-1.76	465100.47	603970.34	
3782.00	3.59	347.88	3776.97	-37.84	-6.41	0.34	-3.62	465106.06	603968.89	
3876.00	3.41	345.40	3870.80	-32.26	-7.73	0.25	-5.35	465111.64	603967.57	
3970.00	3.47	358.19	3964.63	-26.71	-8.53	0.82	-6.55	465117.19	603966.77	
4065.00	3.78	17.93	4059.44	-20.85	-7.65	1.35	-6.11	465123.05	603967.65	
4159.00	3.75	34.30	4153.24	-15.37	-4.97	1.14	-3.83	465128.53	603970.33	
4253.00	2.78	46.23	4247.09	-11.25	-1.59	1.25	-0.76	465132.65	603973.71	
4348.00	2.59	50.13	4341.99	-8.28	1.72	0.28	2.32	465135.62	603977.02	
4442.00	2.28	32.56	4435.90	-5.34	4.36	0.86	4.74	465138.56	603979.66	
4537.00	2.35	26.81	4530.82	-2.01	6.25	0.26	6.38	465141.89	603981.55	
4631.00	1.51	26.99	4624.77	0.81	7.69	0.89	7.61	465144.71	603982.99	
4725.00	1.39	29.34	4718.74	2.91	8.81	0.14	8.57	465146.81	603984.11	
4819.00	1.55	34.45	4812.71	4.95	10.08	0.22	9.69	465148.85	603985.38	
4913.00	1.47	32.04	4906.68	7.02	11.44	0.11	10.90	465150.92	603986.74	
5007.00	1.06	58.90	5000.65	8.49	12.83	0.76	12.17	465152.39	603988.13	
5102.00	1.00	71.24	5095.64	9.21	14.36	0.24	13.65	465153.11	603989.66	
5196.00	1.06	78.20	5189.62	9.66	15.99	0.15	15.24	465153.56	603991.29	
5290.00	0.83	75.49	5283.61	10.00	17.50	0.25	16.72	465153.90	603992.80	
5384.00	0.62	18.57	5377.60	10.66	18.32	0.76	17.49	465154.56	603993.62	
5478.00	0.58	335.91	5471.60	11.57	18.29	0.47	17.39	465155.47	603993.59	
5573.00	0.60	344.95	5566.59	12.49	17.97	0.10	17.00	465156.39	603993.27	
5667.00	0.42	327.96	5660.59	13.26	17.65	0.25	16.64	465157.16	603992.95	
5762.00	0.39	293.17	5755.59	13.68	17.17	0.26	16.13	465157.58	603992.47	
5856.00	0.36	307.25	5849.59	13.99	16.64	0.10	15.58	465157.89	603991.94	
5950.00	0.39	260.12	5943.59	14.11	16.09	0.32	15.02	465158.01	603991.39	
6045.00	0.40	243.87	6038.58	13.91	15.48	0.12	14.42	465157.81	603990.78	
6139.00	0.55	246.02	6132.58	13.58	14.77	0.16	13.74	465157.48	603990.07	
6234.00	0.42	254.38	6227.58	13.30	14.02	0.16	13.01	465157.20	603989.32	
6328.00	0.55	252.53	6321.57	13.07	13.26	0.14	12.26	465156.97	603988.56	
6394.00	0.47	242.72	6387.57	12.85	12.71	0.18	11.74	465156.75	603988.01	
6488.00	0.52	222.14	6481.57	12.36	12.08	0.20	11.15	465156.26	603987.38	
6582.00	0.64	211.32	6575.56	11.60	11.53	0.17	10.65	465155.50	603986.83	
6678.00	0.32	151.49	6671.56	10.90	11.37	0.58	10.55	465154.80	603986.67	
6772.00	0.89	96.35	6765.55	10.59	12.23	0.80	11.42	465154.49	603987.53	
6804.00	1.49	71.54	6797.55	10.70	12.87	2.43	12.05	465154.60	603988.17	
6835.00	2.83	63.50	6828.52	11.16	13.93	4.42	13.08	465155.06	603989.23	
6866.00	4.17	58.74	6859.47	12.09	15.58	4.42	14.66	465155.99	603990.88	
6898.00	5.27	57.74	6891.36	13.48	17.82	3.45	16.79	465157.38	603993.12	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Cypress 28 Fed 4H
Well: Cypress 28 Fed 4H
Wellpath: 1

Date: 11/2/2011 Time: 06:54.06 Page: 3
Co-ordinate(N/E) Reference: Well: Cypress 28 Fed 4H, Grid North
Vertical (TVD) Reference: SITE 3029.8
Section (VS) Reference: Well (0.00N,0.00E,94.20Azi)
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
6929.00	6.28	57.76	6922.20	15.14	20.46	3.26	19.30	465159.04	603995.76	
6961.00	7.28	57.21	6953.98	17.18	23.64	3.13	22.32	465161.08	603998.94	
6992.00	8.17	57.67	6984.69	19.42	27.16	2.88	25.66	465163.32	604002.46	
7024.00	9.29	57.20	7016.32	22.03	31.25	3.51	29.55	465165.93	604006.55	
7055.00	9.92	61.49	7046.89	24.66	35.70	3.07	33.80	465168.56	604011.00	
7087.00	10.62	73.27	7078.38	26.83	40.94	6.90	38.87	465170.73	604016.24	
7118.00	12.08	82.65	7108.77	28.06	46.90	7.58	44.72	465171.96	604022.20	
7150.00	13.27	87.31	7139.99	28.67	53.89	4.90	51.65	465172.57	604029.19	
7181.00	14.54	91.58	7170.09	28.73	61.33	5.26	59.07	465172.63	604036.63	
7213.00	16.41	92.61	7200.92	28.41	69.86	5.91	67.60	465172.31	604045.16	
7244.00	18.06	92.49	7230.53	28.00	79.04	5.32	76.78	465171.90	604054.34	
7276.00	20.12	90.94	7260.77	27.69	89.50	6.63	87.23	465171.59	604064.80	
7307.00	22.47	89.87	7289.65	27.62	100.76	7.68	98.46	465171.52	604076.06	
7339.00	23.94	88.80	7319.06	27.77	113.36	4.78	111.03	465171.67	604088.66	
7370.00	23.67	89.60	7347.43	27.95	125.87	1.36	123.49	465171.85	604101.17	
7402.00	22.46	92.49	7376.87	27.72	138.41	5.18	136.00	465171.62	604113.71	
7433.00	21.93	93.69	7405.57	27.10	150.10	2.25	147.71	465171.00	604125.40	
7464.00	21.68	93.82	7434.35	26.34	161.59	0.82	159.23	465170.24	604136.89	
7496.00	23.65	93.73	7463.88	25.53	173.89	6.16	171.56	465169.43	604149.19	
7527.00	26.12	91.25	7492.00	24.98	186.92	8.65	184.59	465168.88	604162.22	
7559.00	29.04	88.39	7520.36	25.04	201.73	10.02	199.36	465168.94	604177.03	
7590.00	32.17	87.04	7547.04	25.68	217.50	10.34	215.04	465169.58	604192.80	
7621.00	35.92	86.36	7572.72	26.68	234.82	12.16	232.24	465170.58	604210.12	
7652.00	41.61	86.39	7596.88	27.91	254.18	18.35	251.46	465171.81	604229.48	
7684.00	47.27	87.51	7619.72	29.09	276.55	17.86	273.68	465172.99	604251.85	
7715.00	52.28	88.87	7639.74	29.83	300.20	16.50	297.21	465173.73	604275.50	
7747.00	58.37	90.22	7657.93	30.02	326.50	19.34	323.43	465173.92	604301.80	
7778.00	64.36	90.93	7672.78	29.75	353.69	19.43	350.57	465173.65	604328.99	
7810.00	70.70	91.53	7685.01	29.11	383.24	19.89	380.08	465173.01	604358.54	
7841.00	77.63	87.63	7693.46	29.34	413.04	25.42	409.78	465173.24	604388.34	
7873.00	83.13	86.94	7698.81	30.84	444.54	17.32	441.09	465174.74	604419.84	
7904.00	85.48	86.49	7701.89	32.61	475.34	7.72	471.68	465176.51	604450.64	
7935.00	87.37	86.70	7703.82	34.44	506.22	6.13	502.34	465178.34	604481.52	
7967.00	89.13	87.94	7704.80	35.94	538.17	6.73	534.09	465179.84	604513.47	
7998.00	89.97	88.96	7705.04	36.78	569.16	4.26	564.94	465180.68	604544.46	
8030.00	90.59	90.15	7704.88	37.03	601.15	4.19	596.83	465180.93	604576.45	
8061.00	90.74	90.88	7704.52	36.75	632.15	2.40	627.76	465180.65	604607.45	
8092.00	89.97	92.42	7704.33	35.86	663.14	5.55	658.73	465179.76	604638.44	
8124.00	89.69	93.38	7704.43	34.24	695.09	3.12	690.72	465178.14	604670.39	
8187.00	90.38	94.31	7704.39	30.01	757.95	1.84	753.72	465173.91	604733.25	
8281.00	88.92	95.07	7704.96	22.33	851.63	1.75	847.71	465166.23	604826.93	
8375.00	87.86	96.41	7707.60	12.93	945.12	1.82	941.64	465156.83	604920.42	
8470.00	88.14	96.59	7710.92	2.18	1039.45	0.35	1036.50	465146.08	605014.75	
8564.00	89.13	97.18	7713.16	-9.08	1132.75	1.23	1130.37	465134.82	605108.05	
8658.00	87.87	97.27	7715.62	-20.90	1225.97	1.34	1224.21	465123.00	605201.27	
8752.00	88.85	97.50	7718.31	-32.98	1319.15	1.07	1318.02	465110.92	605294.45	
8846.00	89.13	97.51	7719.97	-45.25	1412.33	0.30	1411.85	465098.65	605387.63	
8940.00	88.64	96.88	7721.79	-57.02	1505.57	0.85	1505.70	465086.88	605480.87	
9035.00	88.43	96.42	7724.22	-68.02	1599.90	0.53	1600.58	465075.88	605575.20	
9129.00	88.26	95.89	7726.94	-78.10	1693.32	0.59	1694.49	465065.80	605668.62	
9223.00	89.55	95.29	7728.73	-87.25	1786.85	1.51	1788.44	465056.65	605762.15	
9318.00	90.31	94.60	7728.85	-95.44	1881.49	1.08	1883.43	465048.46	605856.79	
9412.00	90.32	94.43	7728.33	-102.84	1975.20	0.18	1977.43	465041.06	605950.50	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 11/2/2011 Time: 06:54:06 Page: 4
Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Cypress 28 Fed 4H; Grid North
Site: Cypress 28 Fed 4H Vertical (TVD) Reference: SITE 3029.8
Well: Cypress 28 Fed 4H Section (VS) Reference: Well (0.00N,0.00E,94.20Azi)
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
9506.00	90.24	93.58	7727.87	-109.41	2068.97	0.91	2071.43	465034.49	606044.27	
9601.00	89.83	93.43	7727.82	-115.21	2163.79	0.46	2166.42	465028.69	606139.09	
9695.00	88.22	94.63	7729.42	-121.82	2257.54	2.14	2260.40	465022.08	606232.84	
9789.00	88.15	95.92	7732.39	-130.46	2351.09	1.37	2354.34	465013.44	606326.39	
9884.00	87.65	95.30	7735.87	-139.74	2445.57	0.84	2449.24	465004.16	606420.87	
9977.00	86.67	96.18	7740.48	-149.03	2537.99	1.42	2542.09	464994.87	606513.29	
10072.00	86.81	96.10	7745.89	-159.17	2632.29	0.17	2636.88	464984.73	606607.59	
10166.00	88.57	96.83	7749.67	-169.74	2725.62	2.03	2730.73	464974.16	606700.92	
10261.00	88.92	96.55	7751.75	-180.81	2819.95	0.47	2825.62	464963.09	606795.25	
10355.00	89.20	96.23	7753.30	-191.27	2913.35	0.45	2919.54	464952.63	606888.65	
10449.00	89.69	96.69	7754.21	-201.85	3006.75	0.71	3013.46	464942.05	606982.05	
10544.00	91.01	96.68	7753.63	-212.90	3101.10	1.39	3108.36	464931.00	607076.40	
10639.00	91.57	96.36	7751.49	-223.69	3195.46	0.68	3203.26	464920.21	607170.76	
10703.00	90.24	97.63	7750.48	-231.48	3258.97	2.87	3267.17	464912.42	607234.27	Last Wft Svy
10765.00	90.24	97.63	7750.22	-239.71	3320.42	0.00	3329.06	464904.19	607295.72	Proj To Bit

Annotation

MD ft	TVD ft	
273.00	272.98	Tie On SDI
405.00	404.97	First Wft Svy
10703.00	7750.48	Last Wft Svy
10765.00	7750.22	Proj. To Bit