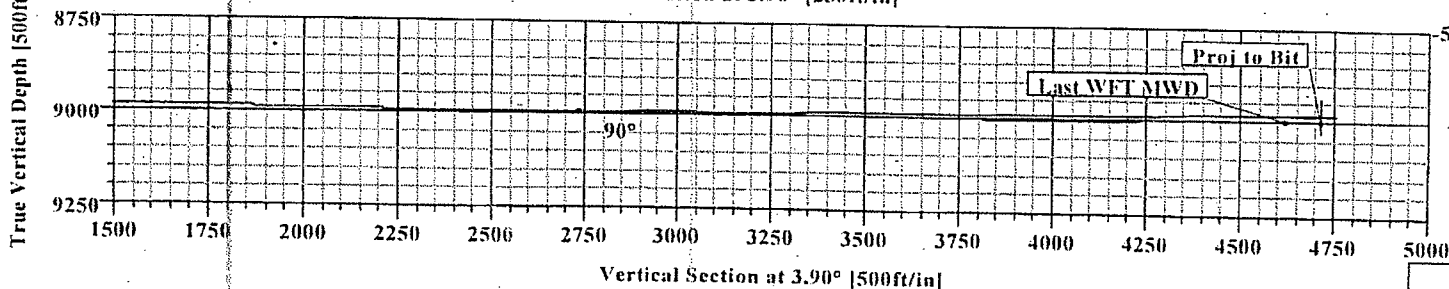
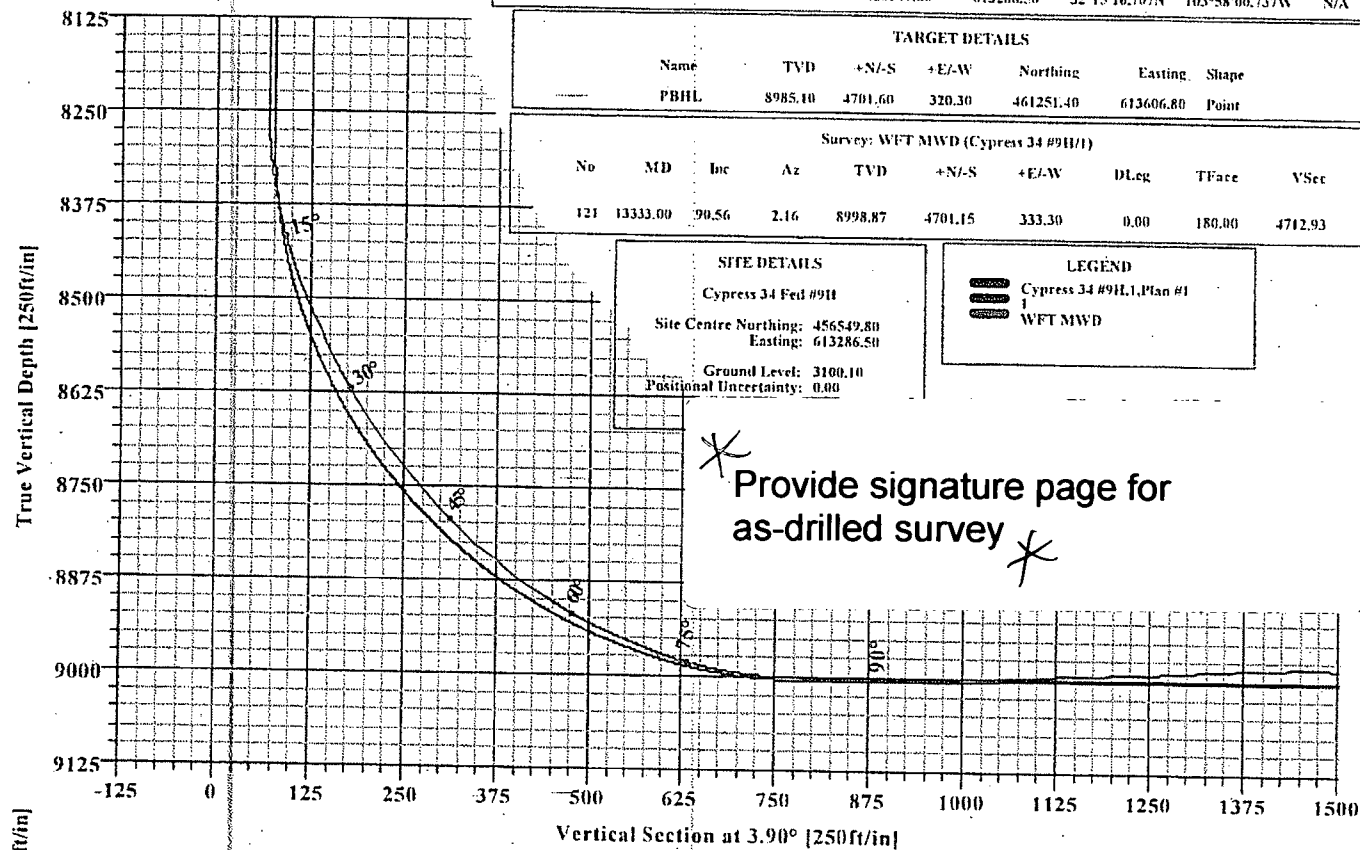




Cypress 34 Fed #9H
Eddy Co, NM

KB ELEV: 3124.7
GL ELEV: 3100.1



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	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	
3	3750.00	5.00	55.32	3749.68	6.20	8.96	2.00	55.32	6.80	
4	4895.00	5.00	55.32	4890.33	62.98	91.03	0.00	0.00	69.03	
5	5145.00	0.00	0.00	5140.01	69.19	99.99	2.00	180.00	75.83	
6	8293.90	0.00	0.00	8288.91	69.19	99.99	0.00	0.00	75.83	
7	9422.56	90.29	2.72	9005.10	788.23	134.19	8.00	2.72	795.53	
8	13340.40	90.29	2.72	8985.10	4701.60	320.30	0.00	0.00	4712.50	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cypress 34 #9H	0.00	0.00	456549.80	613286.50	32°15'16.707N	103°58'00.737W	N/A

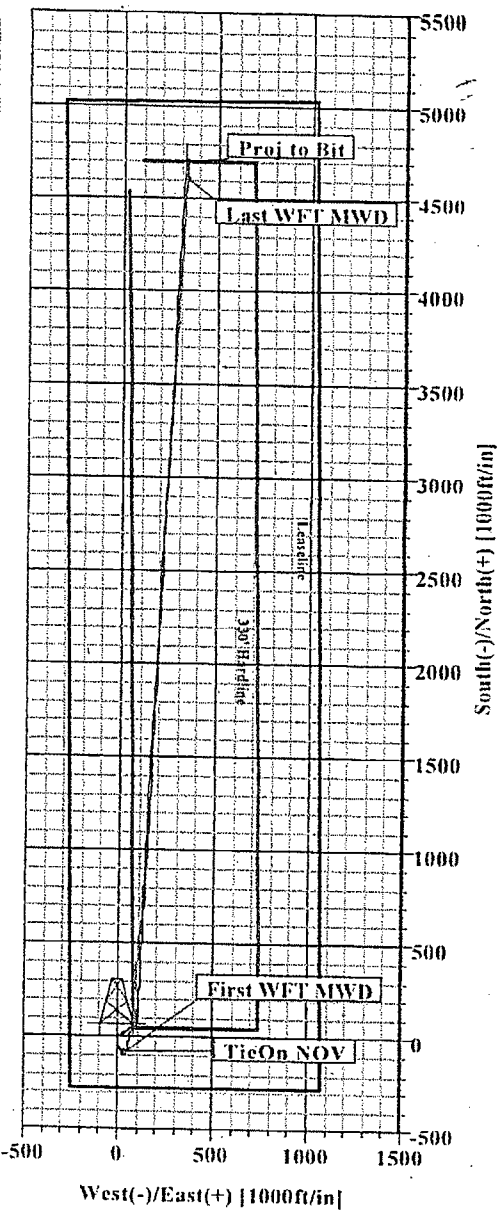
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8985.10	4701.60	320.30	461251.40	613606.80	Point

Survey: WFT MWD (Cypress 34 #9H/1)										
No	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
121	13333.00	90.56	2.16	8998.87	4701.15	333.30	0.00	180.00	4712.93	

SITE DETAILS
Cypress 34 Fed #9H
Site Centre Northing: 456549.80
Easting: 613286.50
Ground Level: 3100.10
Positional Uncertainty: 0.00

LEGEND
Cypress 34 #9H/1, Plan #1
WFT MWD

* Provide signature page for
as-drilled survey *



Weatherford

Survey: WFT MWD (Cypress 34 #9H/1)
Created By: Michael Dill
Date: 4/21/2014

30-015-32375



Cypress 34 Fed #9H
Eddy Co, NM

KB ELEV: 3124.7
GL ELEV: 3100.1

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	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	
3	3750.00	5.00	55.32	3749.68	6.20	8.96	2.00	55.32	6.80	
4	4895.00	5.00	55.32	4890.33	62.98	91.03	0.00	0.00	69.03	
5	5145.00	0.00	0.00	5140.01	69.19	99.99	2.00	180.00	75.83	
6	8293.90	0.00	0.00	8288.91	69.19	99.99	0.00	0.00	75.83	
7	9423.56	90.29	2.72	9005.10	788.23	134.19	8.00	2.72	795.53	
8	13340.40	90.29	2.72	8985.10	4701.60	320.30	0.00	0.00	4712.50	PBHL

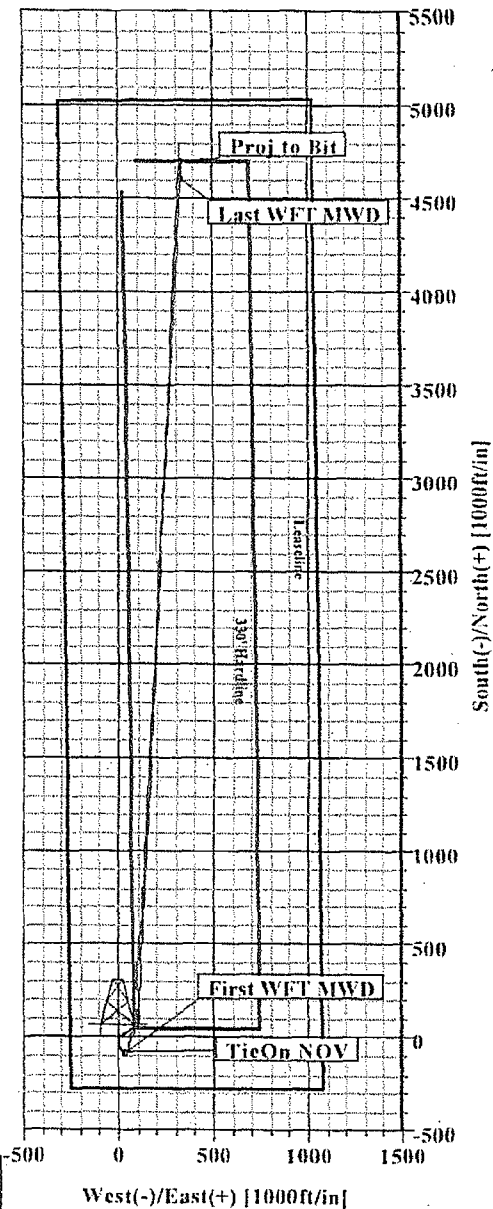
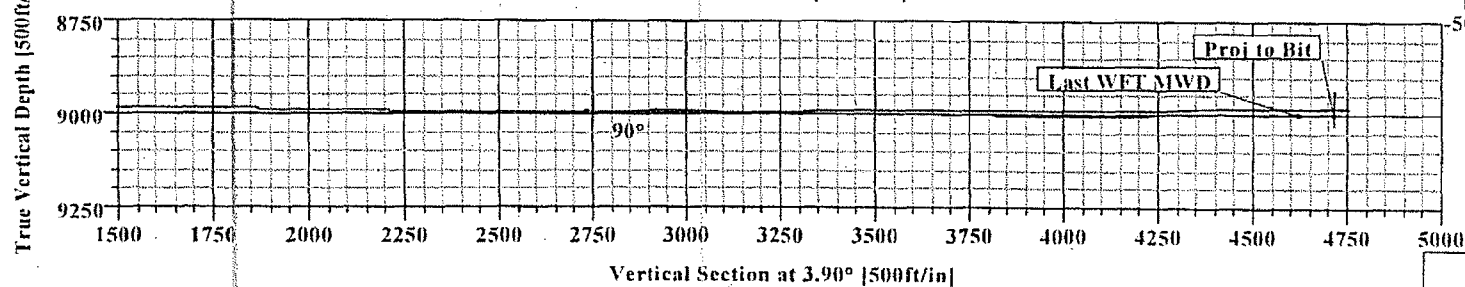
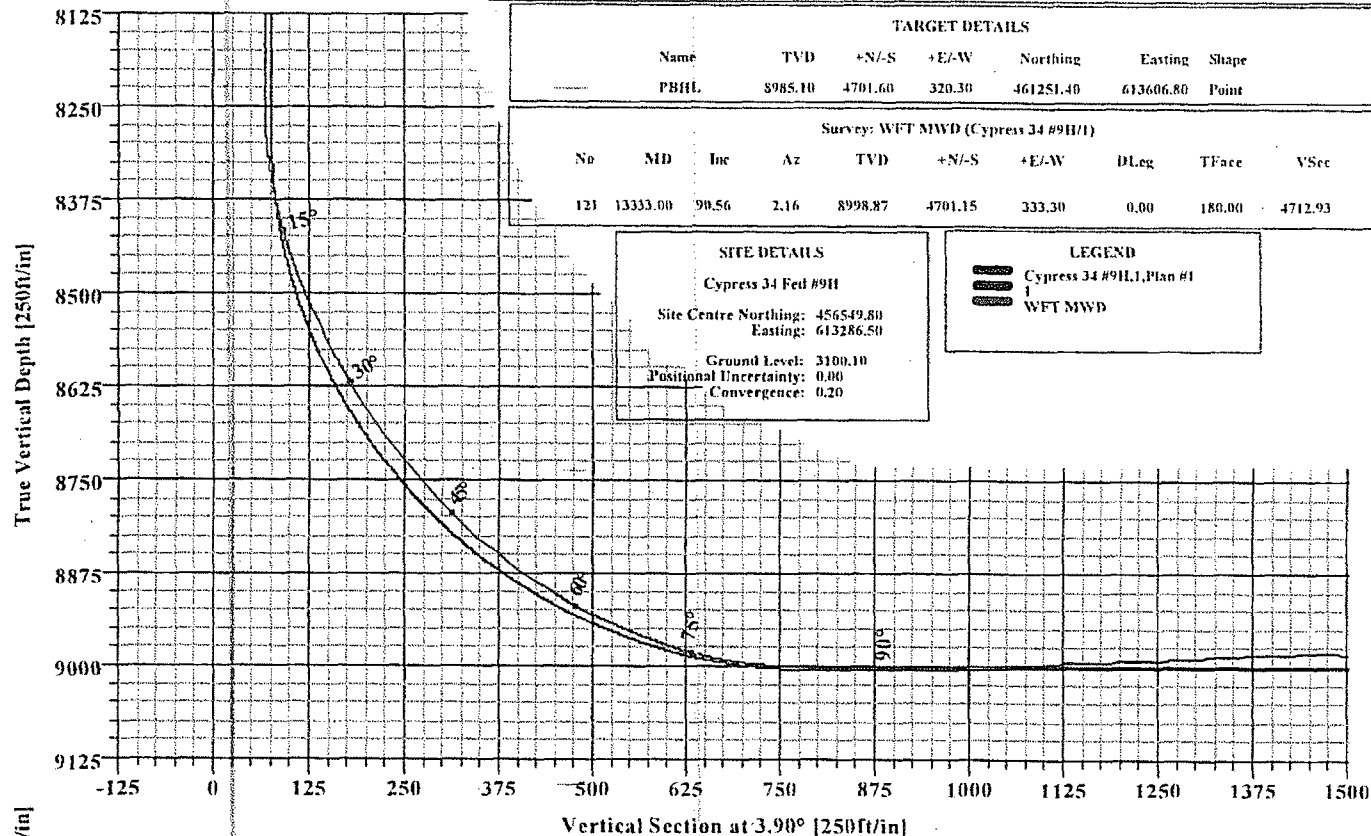
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cypress 34 #9H	0.00	0.00	456549.80	613286.50	32°15'16.707N	103°58'00.737W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8985.10	4701.60	320.30	461251.40	613606.80	Point

Survey: WFT MWD (Cypress 34 #9H/I)									
No	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
121	13333.00	90.56	2.16	8998.87	4701.15	333.30	0.00	180.00	4712.93

SITE DETAILS
Cypress 34 Fed #9H
Site Centre Northing: 456549.80
Easting: 613286.50
Ground Level: 3100.10
Positional Uncertainty: 0.00
Convergence: 0.20

LEGEND
Cypress 34 #9H/I, Plan #1
WFT MWD



Weatherford

Survey: WFT MWD (Cypress 34 #9H/I)
Created By: Michael Dill
Date: 4/21/2014



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 4/21/2014	Time: 07:52:46	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(N/E) Reference:	Well: Cypress 34 #9H, Grid North	
Site: Cypress 34 Fed #9H	Vertical (TVD) Reference:	SITE 3124.7	
Well: Cypress 34 #9H	Section (VS) Reference:	Well (0.00N, 0.00E, 3.90Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Start Date:

Company: Engineer:
Tool: Tied-to:

Site: Cypress 34 Fed #9H

Site Position:	Northings:	456549.80 ft	Latitude:	32 15 16.707 N
From: Map	Easting:	613286.50 ft	Longitude:	103 58 0.737 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3100.10 ft		Grid Convergence:	0.20 deg

Well: Cypress 34 #9H Slot Name:

Well Position:	+N/-S	0.00 ft	Northings:	456549.80 ft	Latitude:	32 15 16.707 N
	+E/-W	0.00 ft	Easting:	613286.50 ft	Longitude:	103 58 0.737 W
Position Uncertainty:	0.00 ft					

Wellpath: 1	Drilled From:	Surface
Current Datum: SITE	Tie-on Depth:	0.00 ft
Magnetic Data: 3/7/2014	Above System Datum:	Mean Sea Level
Field Strength: 48344 nT	Declination:	7.44 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle:	60.08 deg
ft	+E/-W	Direction
	ft	deg
0.00	0.00	3.90

Survey Program for Definitive Wellpath

Date: 4/21/2014	Validated: No	Version: 0
Actual From	To	Toolcode
ft	ft	Tool Name
0.00	3111.00	MWD (0.00-3111.00)
3111.00	13333.00	WFT MWD (3111.00-13333.00)
		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	456549.80	613286.50	
489.00	0.80	184.00	488.98	-3.41	-0.24	0.16	-3.41	456546.39	613286.26	
666.00	1.30	181.00	665.95	-6.65	-0.36	0.28	-6.65	456543.15	613286.14	
846.00	1.10	194.00	845.91	-10.36	-0.81	0.19	-10.39	456539.44	613285.69	
1031.00	0.90	205.00	1030.89	-13.40	-1.86	0.15	-13.50	456536.40	613284.64	
1220.00	1.60	211.00	1219.84	-17.01	-3.84	0.38	-17.23	456532.79	613282.66	
1409.00	2.20	169.00	1408.74	-22.83	-4.51	0.78	-23.09	456526.97	613281.99	
1598.00	2.60	173.00	1597.58	-30.65	-3.30	0.23	-30.80	456519.15	613283.20	
1787.00	2.80	166.00	1786.37	-39.38	-1.66	0.20	-39.40	456510.42	613284.84	
1976.00	1.80	157.00	1975.21	-46.60	0.62	0.56	-46.45	456503.20	613287.12	
2165.00	1.30	138.00	2164.15	-50.92	3.22	0.38	-50.58	456498.88	613289.72	
2354.00	1.20	125.00	2353.10	-53.65	6.27	0.16	-53.10	456496.15	613292.77	
2543.00	2.40	187.00	2542.02	-58.71	7.41	1.12	-58.07	456491.09	613293.91	
2732.00	3.10	123.00	2730.84	-65.43	11.21	1.57	-64.51	456484.37	613297.71	
2921.00	3.90	142.00	2919.49	-73.27	19.46	0.74	-71.78	456476.53	613305.96	
3111.00	3.50	136.00	3109.10	-82.54	27.46	0.29	-80.48	456467.26	613313.96	TieOn NOV
3253.00	2.77	127.44	3250.88	-87.74	33.20	0.61	-85.28	456462.06	613319.70	First WFT MWD
3285.00	2.98	108.74	3282.85	-88.48	34.60	2.99	-85.92	456461.32	613321.10	
3379.00	3.11	64.92	3376.72	-88.18	39.23	2.42	-85.31	456461.62	613325.73	
3474.00	3.35	28.30	3471.58	-84.65	42.88	2.15	-81.53	456465.15	613329.38	
3568.00	4.83	17.18	3565.34	-78.45	45.35	1.78	-75.18	456471.35	613331.85	
3663.00	6.21	11.48	3659.90	-69.59	47.55	1.56	-66.19	456480.21	613334.05	
3757.00	6.25	11.54	3753.35	-59.59	49.59	0.04	-56.08	456490.21	613336.09	
3852.00	6.20	11.79	3847.79	-49.51	51.67	0.06	-45.88	456500.29	613338.17	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Cypress 34 Fed #9H
Well: Cypress 34 #9H
Wellpath: 1

Date: 4/21/2014 Time: 07:52:46 Page: 2
Co-ordinate(NE) Reference: Well: Cypress 34 #9H, Grid North
Vertical (TVD) Reference: SITE 3124.7
Section (VS) Reference: Well (0.00N,0.00E,3.90Azi)
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
3946.00	6.15	10.49	3941.24	-39.59	53.62	0.16	-35.85	456510.21	613340.12	
4041.00	7.19	10.59	4035.60	-28.74	55.64	1.09	-24.89	456521.06	613342.14	
4135.00	7.06	11.26	4128.87	-17.29	57.85	0.16	-13.32	456532.51	613344.35	
4229.00	6.94	9.32	4222.17	-6.02	59.90	0.28	-1.93	456543.78	613346.40	
4324.00	6.98	11.25	4316.47	5.30	61.96	0.25	9.51	456555.10	613348.46	
4419.00	6.99	11.04	4410.76	16.64	64.19	0.03	20.97	456566.44	613350.69	
4607.00	7.30	24.30	4597.32	38.75	71.29	0.89	43.51	456588.55	613357.79	
4796.00	6.53	36.06	4784.95	58.39	82.56	0.85	63.87	456608.19	613369.06	
4986.00	4.58	57.25	4974.07	71.23	95.30	1.47	77.54	456621.03	613381.80	
5175.00	1.86	71.88	5162.75	76.26	104.57	1.49	83.20	456626.06	613391.07	
5364.00	0.41	155.86	5351.72	76.60	107.76	0.99	83.75	456626.40	613394.26	
5553.00	0.51	175.34	5540.71	75.15	108.10	0.10	82.32	456624.95	613394.60	
5648.00	0.51	175.12	5635.71	74.30	108.17	0.00	81.49	456624.10	613394.67	
5742.00	0.35	188.76	5729.71	73.60	108.17	0.20	80.79	456623.40	613394.67	
5932.00	0.92	215.70	5919.69	71.79	107.19	0.33	78.91	456621.59	613393.69	
6121.00	0.20	330.99	6108.69	70.85	106.14	0.54	77.90	456620.65	613392.64	
6310.00	0.31	221.07	6297.69	70.75	105.65	0.22	77.77	456620.55	613392.15	
6499.00	0.45	218.96	6486.68	69.79	104.84	0.07	76.76	456619.59	613391.34	
6688.00	0.56	185.67	6675.67	68.29	104.29	0.16	75.23	456618.09	613390.79	
6877.00	0.30	194.28	6864.67	66.89	104.07	0.14	73.82	456616.69	613390.57	
7065.00	0.49	223.38	7052.66	65.83	103.40	0.14	72.71	456615.63	613389.90	
7255.00	0.77	208.84	7242.65	64.12	102.23	0.17	70.93	456613.92	613388.73	
7444.00	1.41	258.19	7431.62	62.53	99.34	0.57	69.15	456612.33	613385.84	
7633.00	1.57	208.59	7620.57	59.78	95.82	0.67	66.16	456609.58	613382.32	
7727.00	0.85	210.19	7714.54	58.05	94.85	0.77	64.37	456607.85	613381.35	
7822.00	0.66	261.39	7809.54	57.36	93.96	0.71	63.62	456607.16	613380.46	
7917.00	0.85	319.47	7904.53	57.81	92.96	0.79	64.00	456607.61	613379.46	
8011.00	1.12	316.17	7998.52	59.01	91.87	0.29	65.12	456608.81	613378.37	
8105.00	0.99	314.05	8092.50	60.23	90.65	0.14	66.26	456610.03	613377.15	
8200.00	0.71	299.22	8187.49	61.09	89.55	0.37	67.04	456610.89	613376.05	
8229.00	0.78	276.74	8216.49	61.20	89.20	1.03	67.13	456611.00	613375.70	
8260.00	0.78	318.50	8247.48	61.39	88.85	1.79	67.29	456611.19	613375.35	
8292.00	3.10	355.92	8279.46	62.41	88.64	7.89	68.30	456612.21	613375.14	
8323.00	6.32	12.82	8310.36	64.91	88.96	11.20	70.81	456614.71	613375.46	
8354.00	9.32	17.48	8341.07	68.97	90.09	9.88	74.94	456618.77	613376.59	
8386.00	11.38	8.50	8372.55	74.57	91.34	8.16	80.61	456624.37	613377.84	
8417.00	13.91	7.09	8402.79	81.29	92.25	8.22	87.38	456631.09	613378.75	
8449.00	16.49	7.07	8433.67	89.61	93.28	8.06	95.75	456639.41	613379.78	
8480.00	20.01	7.10	8463.10	99.25	94.48	11.35	105.44	456649.05	613380.90	
8512.00	22.12	6.16	8492.96	110.67	95.80	6.68	116.93	456660.47	613382.30	
8544.00	23.39	5.78	8522.47	122.98	97.09	4.00	129.30	456672.78	613383.59	
8575.00	25.52	4.44	8550.69	135.76	98.23	7.10	142.13	456685.56	613384.73	
8607.00	27.07	2.92	8579.38	149.91	99.13	5.28	156.30	456699.71	613385.63	
8638.00	28.93	359.86	8606.75	164.45	99.47	7.58	170.84	456714.25	613385.97	
8670.00	31.04	359.11	8634.47	180.44	99.33	6.70	186.78	456730.24	613385.83	
8701.00	33.88	359.39	8660.62	197.08	99.11	9.17	203.36	456746.88	613385.61	
8733.00	36.21	0.88	8686.82	215.45	99.16	7.76	221.70	456765.25	613385.66	
8765.00	38.48	359.12	8712.26	234.86	99.15	7.84	241.06	456784.66	613385.65	
8796.00	39.24	357.46	8736.40	254.30	98.57	4.16	260.41	456804.10	613385.07	
8828.00	41.85	357.96	8760.71	275.08	97.74	8.22	281.09	456824.88	613384.24	
8859.00	43.65	359.53	8783.47	296.12	97.28	6.75	302.05	456845.92	613383.78	
8891.00	46.43	359.84	8806.08	318.76	97.16	8.71	324.63	456868.56	613383.66	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Cypress 34 Fed #9H
Well: Cypress 34 #9H
Wellpath: 1

Date: 4/21/2014 Time: 07:52:46 Page: 3
Co-ordinate(NE) Reference: Well: Cypress 34 #9H, Grid North
Vertical (TVD) Reference: SITE 3124.7
Section (VS) Reference: Well (0.00N,0.00E,3.90Azi)
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
8922.00	49.13	0.96	8826.91	341.71	97.33	9.11	347.54	456891.51	613383.83	
8954.00	52.04	1.58	8847.23	366.43	97.88	9.22	372.23	456916.23	613384.38	
8985.00	53.46	1.91	8865.99	391.09	98.63	4.66	396.89	456940.89	613385.13	
9016.00	54.59	2.30	8884.20	416.16	99.55	3.78	421.97	456965.96	613386.05	
9048.00	57.97	2.13	8901.97	442.75	100.58	10.57	448.57	456992.55	613387.08	
9080.00	59.94	3.24	8918.47	470.14	101.87	6.84	475.98	457019.94	613388.37	
9111.00	63.81	5.01	8933.08	497.40	103.84	13.46	503.31	457047.20	613390.34	
9143.00	67.05	6.40	8946.38	526.35	106.74	10.87	532.39	457076.15	613393.24	
9174.00	68.21	7.82	8958.18	554.80	110.29	5.65	561.01	457104.60	613396.79	
9206.00	71.11	7.09	8969.30	584.54	114.18	9.31	590.96	457134.34	613400.68	
9237.00	73.62	5.58	8978.69	613.90	117.43	9.33	620.47	457163.70	613403.93	
9269.00	77.44	4.42	8986.69	644.76	120.13	12.44	651.44	457194.56	613406.63	
9300.00	80.16	3.64	8992.71	675.10	122.27	9.11	681.85	457224.90	613408.77	
9332.00	83.83	4.02	8997.17	706.71	124.38	11.53	713.53	457256.51	613410.88	
9363.00	86.92	3.82	8999.67	737.53	126.50	9.99	744.43	457287.33	613413.00	
9393.00	88.39	2.95	9000.89	767.45	128.27	5.69	774.40	457317.25	613414.77	
9425.00	88.60	2.66	9001.73	799.40	129.83	1.12	806.38	457349.20	613416.33	
9456.00	88.95	2.43	9002.40	830.37	131.21	1.35	837.37	457380.17	613417.71	
9519.00	90.14	2.18	9002.90	893.31	133.74	1.93	900.34	457443.11	613420.24	
9582.00	91.19	1.96	9002.17	956.27	136.02	1.70	963.30	457506.07	613422.52	
9645.00	92.38	1.96	9000.20	1019.20	138.17	1.89	1026.23	457569.00	613424.67	
9739.00	92.45	2.21	8996.24	1113.05	141.59	0.28	1120.10	457662.85	613428.09	
9834.00	91.68	2.94	8992.82	1207.89	145.85	1.12	1215.01	457757.69	613432.35	
9928.00	93.42	2.07	8988.64	1301.70	149.96	2.07	1308.89	457851.50	613436.46	
10023.00	92.24	2.50	8983.95	1396.51	153.74	1.32	1403.73	457946.31	613440.24	
10118.00	88.60	2.74	8983.25	1491.39	158.08	3.84	1498.69	458041.19	613444.58	
10212.00	89.93	2.39	8984.46	1585.29	162.29	1.46	1592.66	458135.09	613448.79	
10307.00	89.09	3.34	8985.27	1680.17	167.04	1.33	1687.64	458229.97	613453.54	
10401.00	90.07	3.52	8985.96	1773.99	172.66	1.06	1781.63	458323.79	613459.16	
10496.00	88.46	3.32	8987.18	1868.81	178.33	1.71	1876.61	458418.61	613464.83	
10590.00	89.16	3.51	8989.13	1962.63	183.92	0.77	1970.59	458512.43	613470.42	
10685.00	88.88	3.22	8990.75	2057.45	189.50	0.42	2065.57	458607.25	613476.00	
10779.00	89.86	3.36	8991.79	2151.29	194.89	1.05	2159.56	458701.09	613481.39	
10874.00	88.67	2.78	8993.01	2246.14	199.98	1.39	2254.54	458795.94	613486.48	
10969.00	89.09	2.60	8994.86	2341.02	204.44	0.48	2349.50	458890.82	613490.94	
11063.00	89.37	2.57	8996.13	2434.91	208.68	0.30	2443.47	458984.71	613495.18	
11158.00	89.65	2.73	8996.94	2529.81	213.07	0.34	2538.44	459079.61	613499.57	
11252.00	91.54	2.63	8995.96	2623.69	217.47	2.01	2632.41	459173.49	613503.97	
11347.00	90.91	3.15	8993.93	2718.55	222.25	0.86	2727.37	459268.35	613508.75	
11441.00	90.63	3.21	8992.67	2812.40	227.47	0.30	2821.36	459362.20	613513.97	
11536.00	90.63	3.64	8991.62	2907.22	233.14	0.45	2916.35	459457.02	613519.64	
11631.00	89.23	3.62	8991.74	3002.03	239.16	1.47	3011.34	459551.83	613525.66	
11726.00	89.16	3.40	8993.07	3096.84	244.97	0.24	3106.33	459646.64	613531.47	
11820.00	88.74	3.24	8994.80	3190.67	250.42	0.48	3200.31	459740.47	613536.92	
11915.00	88.81	3.01	8996.83	3285.50	255.59	0.25	3295.28	459835.30	613542.09	
12010.00	88.67	3.37	8998.92	3380.33	260.88	0.41	3390.25	459930.13	613547.38	
12104.00	89.93	3.48	9000.06	3474.16	266.49	1.35	3484.24	460023.96	613552.99	
12198.00	90.28	3.33	8999.89	3567.99	272.08	0.41	3578.23	460117.79	613558.58	
12293.00	89.37	3.19	9000.18	3662.84	277.48	0.97	3673.23	460212.64	613563.98	
12387.00	88.88	3.29	9001.62	3756.67	282.79	0.53	3767.21	460306.47	613569.29	
12482.00	88.25	3.00	9004.00	3851.50	288.00	0.73	3862.17	460401.30	613574.50	
12577.00	89.02	3.26	9006.26	3946.33	293.19	0.86	3957.13	460496.13	613579.69	
12671.00	91.19	3.99	9006.09	4040.14	299.13	2.44	4051.13	460589.94	613585.63	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Cypress 34 Fed #9H
Well: Cypress 34 #9H
Wellpath: 1

Date: 4/21/2014 Time: 07:52:46 Page: 4
Co-ordinate(NE) Reference: Well: Cypress 34 #9H, Grid North
Vertical (TVD) Reference: SITE 3124.7
Section (VS) Reference: Well (0.00N,0.00E,3.90Azi)
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
12766.00	91.19	3.86	9004.11	4134.89	305.63	0.14	4146.11	460684.69	613592.13	
12860.00	90.98	3.48	9002.33	4228.68	311.65	0.46	4240.09	460778.48	613598.15	
12955.00	90.00	3.61	9001.52	4323.50	317.52	1.04	4335.08	460873.30	613604.02	
13050.00	90.21	2.32	9001.35	4418.37	322.44	1.38	4430.07	460968.17	613608.94	
13144.00	90.56	2.20	9000.72	4512.29	326.14	0.39	4524.03	461062.09	613612.64	
13239.00	90.56	2.16	8999.79	4607.22	329.76	0.04	4618.98	461157.02	613616.26	Last WFT MWD
13333.00	90.56	2.16	8998.87	4701.15	333.30	0.00	4712.93	461250.95	613619.80	Proj to Bit

Annotation

MD ft	TVD ft	
3111.00	3109.10	TieOn NOV
3253.00	3250.88	First WFT MWD
13239.00	8999.79	Last WFT MWD
13333.00	8998.87	Proj to Bit



Weatherford®

Surface Logging Systems

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

Logging Personnel:

THOMAS L. RAWLS

Unit No.: SLS - 082

Rig: H & P 477

Filename: OXY-CYPRESS-34-FEDERAL-9H.mlw

COMPANY: OXY USA, INC.

WELL: CYPRESS 34 FEDERAL #9H

FIELD: CEDAR CANYON BONE SPRING

COUNTY: EDDY STATE: NEW MEXICO

LOCATION: 279' FSL & 1070' FEL, SEC. 34, T-23S, R-29E

Spud Date: 03/30/2014

Started: 03/29/2014 At: 100'

Ended: At: 13333'

Api No.: 300154208800000

G.L.: 3100.10'

K.B.: 3125.10'

Geologist: SHAWN ARNDT

Abbreviations:

NB...New Bit
CO...Circ Out
NR...No Returns
TG...Trip Gas
WOB...Wt on Bit
RPM...Rev/Min
SG...Survey Gas
DST...Drill Stem Test
DS...Directional Survey
CG...Connection gas
LAT...Logged After Trip
PP...Pump Pressure
SPM...Strokes/Min
DTG...Down Time Gas

Mud Data

WT...Weight V...Viscosity
PH...Acidity F...Filtrate
CHL...Chlorides SC...Solids Content

Lithology Symbols:

Anhydrite Siltstone Dolomite Coal Carb Shale Red Sh Cust Sh1 Cust Sh4 Salt Chert Conglomerate Shale Granite Wash Org Sh Cust Sh2 Cust Sh5 Granite Sandstone Limestone Bentonite Quartz Wash Green Sh Cust Sh3 Cust Sh6

Accessories

Glaucinite Pyrite Fossils Oolites Fractures Cement

Gas Chromatograph Analysis:

HW
C1
C2
C3
IC4
NC4
IC5

Drilling Info	Drilling Rate MIN/FT	Vis Por	Lithology	% Oil Flu	Cut	Descriptions/Remarks	Total Gas/Chromatograph
TLR	GAMMA 1 2 3 4 5 150					LOGGERS ON LOCATION AT 11:00 CST ON 3/29/14 FINISHED RIG UP TO BEGIN TWO MAN LOGGING AT 07:37 CST ON 3/30/14 GAS AND SAMPLES LAGGED FOR DEPTH	25 50 75 100 150 200 250
-BHA #1-- In at 100' Ulterra Size 14.750" M# U616S S# 16971 (8 x 15) Jets	3/30/14 100					***** DRILLING WITH SPUD MUD ***** 16.00" CONDUCTOR @ 100' ***** SS: LTRDOR, OR, RD, VLTGRY, FRSTD, SPECCLD, VF-F GRN, UNCON-PR CONS, DOLO/ARG MTRX, WLL SRTDD, SBRNDD- RNDD-SBANG, NO VIS FLU	Calibrate & Maintenance The Equipment HW = 201u C1 = 99u C2 = 177u C3 = 148u IC4 = 116u NC4 = 101u