

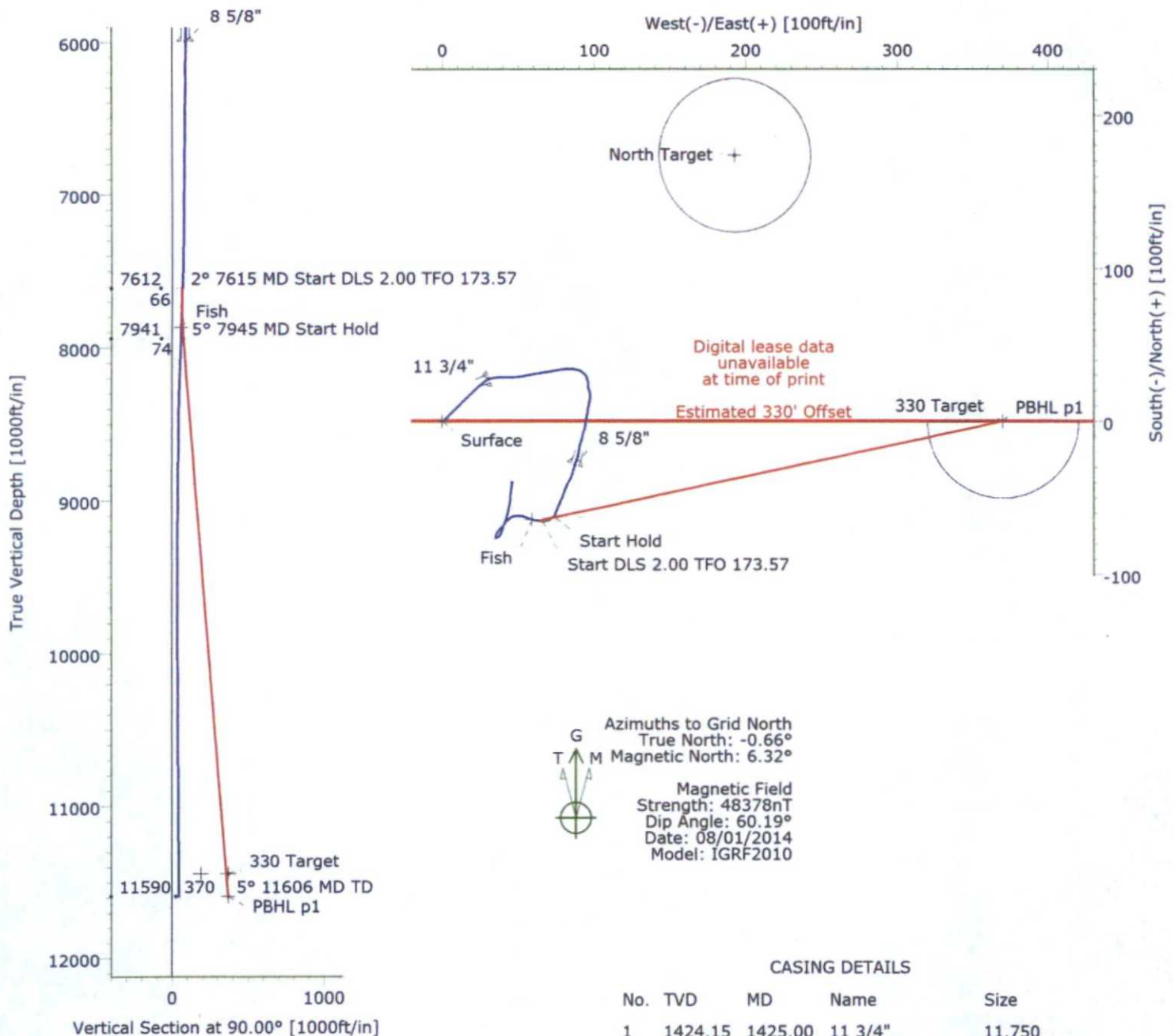


SPINDLETOP OIL & GAS CO.

Field: Lea County, NM
Site: Fowler Federal
Well: #1
Wellpath: Sidetrack
Plan: Plan #1



Precision
Directional Services



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	447267.00	882657.00	32°13'24.948N	103°05'45.472W	Point
Fish	7867.50	-64.13	59.23	447202.87	882716.23	32°13'24.307N	103°05'44.791W	Point
North Target	11440.00	173.83	192.65	447440.83	882849.65	32°13'26.646N	103°05'43.206W	Circle (Radius: 50)
330 Target	11440.00	0.00	370.00	447267.00	883027.00	32°13'24.906N	103°05'41.165W	Circle (Radius: 50)
PBHL p1	11590.00	0.00	370.00	447267.00	883027.00	32°13'24.906N	103°05'41.165W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7615.00	1.87	267.00	7611.61	-65.17	66.38	0.00	0.00	66.38	
2	7944.61	4.73	78.04	7940.93	-62.63	74.31	0.00	173.57	74.31	
3	11606.18	4.73	78.04	11590.00	0.00	370.00	0.00	0.00	370.00	

Precision Directional Services, Inc.

Planning Report

Company: SPINDLETOP OIL & GAS CO.
 Field: Lea County, NM
 Site: Fowler Federal
 Well: #1
 Wellpath: Sidetrack

Date: 06/30/2014
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: 3915'GL+est.20'KB 3215.0
 Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
 Plan: Plan #1

Page: 1

Field: Lea County, NM

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: IGRF2010

Site: Fowler Federal
 Section 18 T24S-R38E

Site Position: Northing: 447267.00 ft Latitude: 32 13 24.948 N
 From: Map Easting: 882657.00 ft Longitude: 103 5 45.472 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3195.00 ft Grid Convergence: 0.66 deg

Well: #1

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 447267.00 ft Latitude: 32 13 24.948 N
 +E/-W 0.00 ft Easting: 882657.00 ft Longitude: 103 5 45.472 W
 Position Uncertainty: 0.00 ft

Wellpath: Sidetrack

Current Datum: 3915'GL+est.20'KB	Height 3215.00 ft	Drilled From: Original Hole
Magnetic Data: 08/01/2014		Tie-on Depth: 11595.00 ft
Field Strength: 48378 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 6.98 deg
ft	ft	Mag Dip Angle: 60.19 deg
0.00	0.00	+E/-W Direction
		ft deg
		0.00 90.00

Plan: Plan #1
 Sidetrack off existing plug above fish
 Principal: No

Date Composed: 06/27/2014
 Version: 1
 Tied-to: From: Definitive Path

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
7615.00	1.87	267.00	7611.61	-65.17	66.38	0.00	0.00	0.00	0.00	
7944.61	4.73	78.04	7940.93	-62.63	74.31	2.00	0.87	51.89	173.57	
11606.18	4.73	78.04	11590.00	0.00	370.00	0.00	0.00	0.00	0.00	

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	Tool/Comment
7615.00	1.87	267.00	7611.61	-65.17	66.38	66.38	0.00	0.00	0.00	
7700.00	0.27	312.91	7696.59	-65.11	64.84	64.84	2.00	-1.89	54.01	
7800.00	1.85	74.06	7796.57	-64.51	66.23	66.23	2.00	1.58	121.15	
7871.00	3.26	76.89	7867.50	-63.73	69.30	69.30	2.00	1.99	3.99	Fish
7900.00	3.84	77.45	7896.45	-63.34	71.05	71.05	2.00	2.00	1.92	
7944.61	4.73	78.04	7940.93	-62.63	74.31	74.31	2.00	2.00	1.32	
8000.00	4.73	78.04	7996.13	-61.68	78.79	78.79	0.00	0.00	0.00	
8100.00	4.73	78.04	8095.79	-59.97	86.86	86.86	0.00	0.00	0.00	
8200.00	4.73	78.04	8195.45	-58.26	94.94	94.94	0.00	0.00	0.00	
8300.00	4.73	78.04	8295.11	-56.55	103.01	103.01	0.00	0.00	0.00	
8400.00	4.73	78.04	8394.77	-54.84	111.09	111.09	0.00	0.00	0.00	
8500.00	4.73	78.04	8494.42	-53.13	119.16	119.16	0.00	0.00	0.00	
8600.00	4.73	78.04	8594.08	-51.42	127.24	127.24	0.00	0.00	0.00	
8700.00	4.73	78.04	8693.74	-49.71	135.31	135.31	0.00	0.00	0.00	
8800.00	4.73	78.04	8793.40	-48.00	143.39	143.39	0.00	0.00	0.00	
8900.00	4.73	78.04	8893.06	-46.29	151.46	151.46	0.00	0.00	0.00	
9000.00	4.73	78.04	8992.72	-44.58	159.54	159.54	0.00	0.00	0.00	
9100.00	4.73	78.04	9092.38	-42.87	167.62	167.62	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: SPINDLETOP OIL & GAS CO.
 Field: Lea County, NM
 Site: Fowler Federal
 Well: #1
 Wellpath: Sidetrack

Date: 06/30/2014 Time: 14:30:03
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: 3915'GL+est.20'KB 3215.0
 Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
 Plan: Plan #1

Page: 2

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	Tool/Comment
9200.00	4.73	78.04	9192.04	-41.16	175.69	175.69	0.00	0.00	0.00	
9300.00	4.73	78.04	9291.69	-39.45	183.77	183.77	0.00	0.00	0.00	
9400.00	4.73	78.04	9391.35	-37.74	191.84	191.84	0.00	0.00	0.00	
9500.00	4.73	78.04	9491.01	-36.03	199.92	199.92	0.00	0.00	0.00	
9600.00	4.73	78.04	9590.67	-34.31	207.99	207.99	0.00	0.00	0.00	
9700.00	4.73	78.04	9690.33	-32.60	216.07	216.07	0.00	0.00	0.00	
9800.00	4.73	78.04	9789.99	-30.89	224.14	224.14	0.00	0.00	0.00	
9900.00	4.73	78.04	9889.65	-29.18	232.22	232.22	0.00	0.00	0.00	
10000.00	4.73	78.04	9989.31	-27.47	240.29	240.29	0.00	0.00	0.00	
10100.00	4.73	78.04	10088.96	-25.76	248.37	248.37	0.00	0.00	0.00	
10200.00	4.73	78.04	10188.62	-24.05	256.44	256.44	0.00	0.00	0.00	
10300.00	4.73	78.04	10288.28	-22.34	264.52	264.52	0.00	0.00	0.00	
10400.00	4.73	78.04	10387.94	-20.63	272.60	272.60	0.00	0.00	0.00	
10500.00	4.73	78.04	10487.60	-18.92	280.67	280.67	0.00	0.00	0.00	
10600.00	4.73	78.04	10587.26	-17.21	288.75	288.75	0.00	0.00	0.00	
10700.00	4.73	78.04	10686.92	-15.50	296.82	296.82	0.00	0.00	0.00	
10800.00	4.73	78.04	10786.58	-13.79	304.90	304.90	0.00	0.00	0.00	
10900.00	4.73	78.04	10886.23	-12.08	312.97	312.97	0.00	0.00	0.00	
11000.00	4.73	78.04	10985.89	-10.37	321.05	321.05	0.00	0.00	0.00	
11100.00	4.73	78.04	11085.55	-8.66	329.12	329.12	0.00	0.00	0.00	
11200.00	4.73	78.04	11185.21	-6.95	337.20	337.20	0.00	0.00	0.00	
11300.00	4.73	78.04	11284.87	-5.24	345.27	345.27	0.00	0.00	0.00	
11400.00	4.73	78.04	11384.53	-3.53	353.35	353.35	0.00	0.00	0.00	
11455.66	4.73	78.04	11440.00	-2.57	357.85	357.85	0.00	0.00	0.00	North Target
11500.00	4.73	78.04	11484.19	-1.82	361.43	361.43	0.00	0.00	0.00	
11606.18	4.73	78.04	11590.00	0.00	370.00	370.00	0.00	0.00	0.00	PBHL p1

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
Surface		0.00	0.00	0.00	447267.00	882657.00	32	13	24.948 N	103	5	45.472 W
Fish		7867.50	-64.13	59.23	447202.87	882716.23	32	13	24.307 N	103	5	44.791 W
-Plan out by 10.08 at		7867.50	-63.73	69.30	447203.27	882726.30	32	13	24.310 N	103	5	44.674 W
North Target		11440.00	173.83	192.65	447440.83	882849.65	32	13	26.646 N	103	5	43.206 W
-Circle (Radius: 50)												
-Plan out by 241.68 at		11440.00	-2.57	357.85	447264.43	883014.85	32	13	24.882 N	103	5	41.307 W
330 Target		11440.00	0.00	370.00	447267.00	883027.00	32	13	24.906 N	103	5	41.165 W
-Circle (Radius: 50)												
-Plan out by 12.42 at		11440.00	-2.57	357.85	447264.43	883014.85	32	13	24.882 N	103	5	41.307 W
PBHL p1		11590.00	0.00	370.00	447267.00	883027.00	32	13	24.906 N	103	5	41.165 W
-Plan hit target												

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1425.00	1424.15	11.750	14.000	11 3/4"
5999.00	5996.24	8.625	11.000	8 5/8"



SPINDLETOP OIL & GAS CO.

Field: Lea County, NM
Site: Fowler Federal
Well: #1
Wellpath: Original Hole



Precision
Directional Services

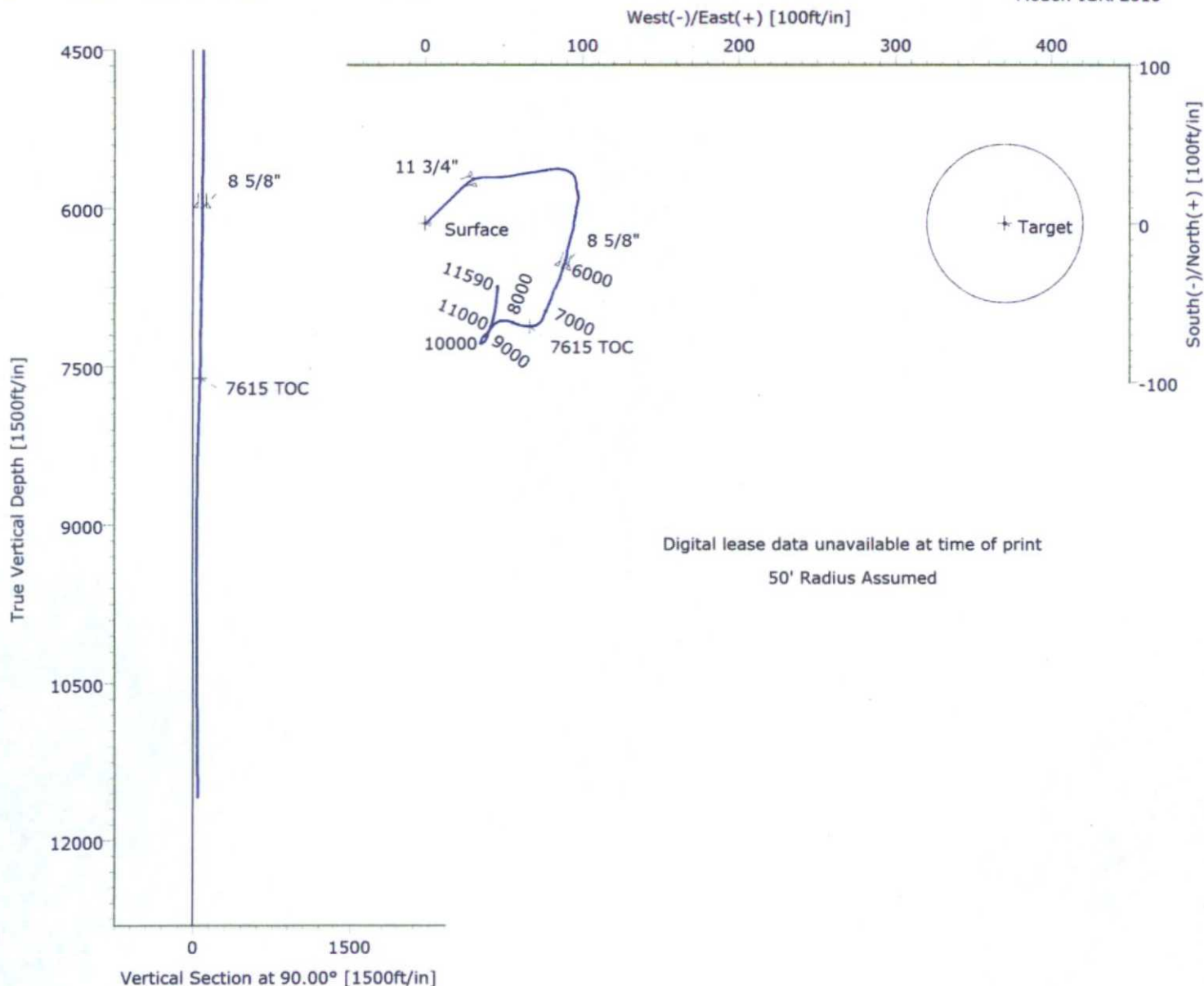
CASING DETAILS

No.	TVD	MD	Name	Size
1	1424.15	1425.00	11 3/4"	11.750
2	5996.24	5999.00	8 5/8"	8.625

Azimuths to Grid North
True North: -0.66°
Magnetic North: 6.32°



Magnetic Field
Strength: 48383nT
Dip Angle: 60.19°
Date: 07/15/2014
Model: IGRF2010



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	447267.00	882657.00	32°13'24.948N	103°05'45.472W	Point
Target	0.00	0.00	370.00	447267.00	883027.00	32°13'24.906N	103°05'41.165W	Circle (Radius: 50)
7615 TOC	7611.61	-65.17	66.38	447201.83	882723.38	32°13'24.296N	103°05'44.708W	Point

Precision Directional Services, Inc.

Survey Report

Company: SPINDLETOP OIL & GAS CO.	Date: 06/23/2014	Time: 12:30:50	Page: 1
Field: Lea County, NM	Co-ordinate(NE) Reference:	Well: #1, Grid North	
Site: Fowler Federal	Vertical (TVD) Reference:	3915'GL+est.20'KB 3215.0	
Well: #1	Section (VS) Reference:	Well (0.00N,0.00E,90.00Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Adapti

Field: Lea County, NM

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: IGRF2010

Site: Fowler Federal
 Section 18 T24S-R38E

Site Position:	Northing:	447267.00 ft	Latitude:	32	13	24.948 N
From: Map	Easting:	882657.00 ft	Longitude:	103	5	45.472 W
Position Uncertainty:		0.00 ft	North Reference:	Grid		
Ground Level:		3195.00 ft	Grid Convergence:	0.66 deg		

Well: #1

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	447267.00 ft	Latitude:	32	13	24.948 N
	+E/-W	0.00 ft	Easting:	882657.00 ft	Longitude:	103	5	45.472 W
Position Uncertainty:		0.00 ft						

Wellpath: Original Hole

Current Datum:	3915'GL+est.20'KB	Height	3215.00 ft	Drilled From:	Surface
Magnetic Data:	07/15/2014			Tie-on Depth:	0.00 ft
Field Strength:	48383 nT			Above System Datum:	Mean Sea Level
Vertical Section:	Depth From (TVD)	+N/-S		Declination:	6.98 deg
	ft	ft		Mag Dip Angle:	60.19 deg
				+E/-W	Direction
				ft	deg
	0.00	0.00		0.00	90.00

Survey Program for Definitive Wellpath

Date: 06/20/2014	Validated: No	Version: 0	
Actual From	To	Survey	Toolcode
ft	ft		Tool Name
100.00	11595.00	Survey #1 (100.00-11595.00)	Gyroscope
			Gyroscope

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	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.48	64.08	100.00	0.18	0.38	0.38	0.48	0.48	0.00	Gyroscope
200.00	0.84	49.80	199.99	0.84	1.31	1.31	0.39	0.36	-14.28	Gyroscope
300.00	1.09	43.68	299.98	2.00	2.53	2.53	0.27	0.25	-6.12	Gyroscope
400.00	1.85	44.02	399.94	3.85	4.31	4.31	0.76	0.76	0.34	Gyroscope
500.00	2.83	46.41	499.86	6.71	7.22	7.22	0.98	0.98	2.39	Gyroscope
600.00	3.68	45.45	599.70	10.67	11.29	11.29	0.85	0.85	-0.96	Gyroscope
700.00	3.58	46.98	699.50	15.05	15.86	15.86	0.14	-0.10	1.53	Gyroscope
800.00	2.69	45.23	799.35	18.83	19.81	19.81	0.90	-0.89	-1.75	Gyroscope
900.00	2.08	46.92	899.26	21.72	22.80	22.80	0.61	-0.61	1.69	Gyroscope
1000.00	1.51	50.91	999.21	23.79	25.15	25.15	0.58	-0.57	3.99	Gyroscope
1100.00	1.26	48.66	1099.18	25.35	27.00	27.00	0.26	-0.25	-2.25	Gyroscope
1200.00	0.90	55.01	1199.16	26.53	28.47	28.47	0.38	-0.36	6.35	Gyroscope
1300.00	0.56	59.93	1299.15	27.22	29.53	29.53	0.35	-0.34	4.92	Gyroscope
1400.00	0.67	61.95	1399.15	27.74	30.47	30.47	0.11	0.11	2.02	Gyroscope
1425.00	0.75	69.71	1424.15	27.87	30.76	30.76	0.50	0.33	31.03	11 3/4"
1500.00	1.05	84.68	1499.14	28.10	31.90	31.90	0.50	0.40	19.96	Gyroscope
1600.00	1.13	79.51	1599.12	28.37	33.78	33.78	0.13	0.08	-5.17	Gyroscope
1700.00	1.20	79.34	1699.10	28.74	35.78	35.78	0.07	0.07	-0.17	Gyroscope
1800.00	1.22	91.66	1799.08	28.90	37.88	37.88	0.26	0.02	12.32	Gyroscope
1900.00	1.36	91.08	1899.05	28.85	40.13	40.13	0.14	0.14	-0.58	Gyroscope
2000.00	1.42	90.70	1999.02	28.81	42.55	42.55	0.06	0.06	-0.38	Gyroscope
2100.00	1.51	87.00	2098.99	28.86	45.11	45.11	0.13	0.09	-3.70	Gyroscope

Precision Directional Services, Inc.

Survey Report

Company: SPINDLETOP OIL & GAS CO.
 Field: Lea County, NM
 Site: Fowler Federal
 Well: #1
 Wellpath: Original Hole

Date: 06/23/2014 Time: 12:30:50 Page: 2
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: 3915'GL+est.20'KB 3215.0
 Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Adapti

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	Tool/Comment
2200.00	1.84	86.43	2198.95	29.03	48.02	48.02	0.33	0.33	-0.57	Gyroscope
2300.00	2.21	83.16	2298.88	29.36	51.54	51.54	0.39	0.37	-3.27	Gyroscope
2400.00	2.56	78.79	2398.80	30.03	55.65	55.65	0.39	0.35	-4.37	Gyroscope
2500.00	2.66	80.37	2498.69	30.85	60.12	60.12	0.12	0.10	1.58	Gyroscope
2600.00	2.71	80.23	2598.58	31.64	64.74	64.74	0.05	0.05	-0.14	Gyroscope
2700.00	2.77	81.93	2698.47	32.38	69.46	69.46	0.10	0.06	1.70	Gyroscope
2800.00	2.67	78.79	2798.36	33.17	74.14	74.14	0.18	-0.10	-3.14	Gyroscope
2900.00	2.16	82.37	2898.27	33.87	78.29	78.29	0.53	-0.51	3.58	Gyroscope
3000.00	1.82	87.11	2998.21	34.20	81.75	81.75	0.38	-0.34	4.74	Gyroscope
3100.00	1.43	91.85	3098.17	34.24	84.58	84.58	0.41	-0.39	4.74	Gyroscope
3189.00	1.40	99.20	3187.14	34.03	86.76	86.76	0.21	-0.03	8.26	Gyroscope
3284.00	1.40	102.50	3282.11	33.60	89.04	89.04	0.08	0.00	3.47	Gyroscope
3380.00	1.10	119.00	3378.09	32.90	90.99	90.99	0.49	-0.31	17.19	Gyroscope
3474.00	0.90	132.00	3472.07	31.97	92.33	92.33	0.32	-0.21	13.83	Gyroscope
3570.00	1.00	127.80	3568.06	30.95	93.55	93.55	0.13	0.10	-4.37	Gyroscope
3665.00	1.10	152.90	3663.05	29.63	94.62	94.62	0.49	0.11	26.42	Gyroscope
3761.00	0.90	169.50	3759.03	28.07	95.18	95.18	0.36	-0.21	17.29	Gyroscope
3857.00	1.00	155.70	3855.02	26.56	95.66	95.66	0.26	0.10	-14.37	Gyroscope
3952.00	1.00	182.30	3950.00	24.98	95.97	95.97	0.48	0.00	28.00	Gyroscope
4048.00	1.10	182.10	4045.99	23.22	95.90	95.90	0.10	0.10	-0.21	Gyroscope
4142.00	1.10	162.00	4139.97	21.46	96.15	96.15	0.41	0.00	-21.38	Gyroscope
4236.00	1.00	163.00	4233.96	19.82	96.67	96.67	0.11	-0.11	1.06	Gyroscope
4332.00	1.30	170.80	4329.94	17.94	97.09	97.09	0.35	0.31	8.12	Gyroscope
4428.00	1.10	183.10	4425.91	15.95	97.21	97.21	0.34	-0.21	12.81	Gyroscope
4524.00	1.10	191.80	4521.90	14.12	96.97	96.97	0.17	0.00	9.06	Gyroscope
4617.00	1.50	190.90	4614.87	12.05	96.56	96.56	0.43	0.43	-0.97	Gyroscope
4713.00	1.60	194.20	4710.84	9.52	95.99	95.99	0.14	0.10	3.44	Gyroscope
4808.00	1.40	181.70	4805.81	7.08	95.63	95.63	0.40	-0.21	-13.16	Gyroscope
4904.00	1.30	194.20	4901.78	4.85	95.33	95.33	0.32	-0.10	13.02	Gyroscope
4999.00	1.80	190.60	4996.74	2.34	94.79	94.79	0.54	0.53	-3.79	Gyroscope
5095.00	1.60	185.40	5092.70	-0.48	94.39	94.39	0.26	-0.21	-5.42	Gyroscope
5191.00	1.50	189.90	5188.67	-3.05	94.05	94.05	0.16	-0.10	4.69	Gyroscope
5287.00	1.80	202.00	5284.63	-5.69	93.27	93.27	0.48	0.31	12.60	Gyroscope
5382.00	1.90	193.70	5379.58	-8.60	92.34	92.34	0.30	0.11	-8.74	Gyroscope
5478.00	1.80	193.70	5475.53	-11.61	91.60	91.60	0.10	-0.10	0.00	Gyroscope
5573.00	2.00	197.60	5570.48	-14.64	90.75	90.75	0.25	0.21	4.11	Gyroscope
5669.00	2.10	186.10	5666.41	-17.99	90.05	90.05	0.44	0.10	-11.98	Gyroscope
5745.00	2.20	189.20	5742.36	-20.81	89.67	89.67	0.20	0.13	4.08	Gyroscope
5840.00	1.70	201.20	5837.31	-23.93	88.87	88.87	0.68	-0.53	12.63	Gyroscope
5935.00	1.50	201.50	5932.27	-26.40	87.91	87.91	0.21	-0.21	0.32	Gyroscope
5999.00	1.63	198.75	5996.24	-28.04	87.31	87.31	0.24	0.20	-4.30	8 5/8"
6032.00	1.70	197.50	6029.23	-28.95	87.01	87.01	0.24	0.21	-3.79	Gyroscope
6128.00	1.70	195.80	6125.19	-31.68	86.19	86.19	0.05	0.00	-1.77	Gyroscope
6223.00	1.80	197.60	6220.14	-34.46	85.36	85.36	0.12	0.11	1.89	Gyroscope
6319.00	1.80	204.70	6316.10	-37.26	84.27	84.27	0.23	0.00	7.40	Gyroscope
6415.00	1.80	210.00	6412.05	-39.94	82.89	82.89	0.17	0.00	5.52	Gyroscope
6510.00	1.60	201.80	6507.01	-42.46	81.65	81.65	0.33	-0.21	-8.63	Gyroscope
6605.00	1.70	200.20	6601.97	-45.02	80.67	80.67	0.12	0.11	-1.68	Gyroscope
6701.00	1.80	199.50	6697.92	-47.77	79.67	79.67	0.11	0.10	-0.73	Gyroscope
6797.00	1.70	204.90	6793.88	-50.49	78.57	78.57	0.20	-0.10	5.62	Gyroscope
6892.00	1.50	202.00	6888.84	-52.92	77.51	77.51	0.23	-0.21	-3.05	Gyroscope
6986.00	1.50	204.00	6982.81	-55.18	76.55	76.55	0.06	0.00	2.13	Gyroscope
7081.00	1.50	205.70	7077.78	-57.44	75.51	75.51	0.05	0.00	1.79	Gyroscope

Precision Directional Services, Inc.

Survey Report

Company: SPINDLETOP OIL & GAS CO.
 Field: Lea County, NM
 Site: Fowler Federal
 Well: #1
 Wellpath: Original Hole

Date: 06/23/2014 Time: 12:30:50 Page: 3
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: 3915'GL+est.20'KB 3215.0
 Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Adapti

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	Tool/Comment
7177.00	1.30	194.20	7173.75	-59.63	74.69	74.69	0.36	-0.21	-11.98	Gyroscope
7273.00	1.10	212.10	7269.73	-61.46	73.94	73.94	0.44	-0.21	18.65	Gyroscope
7369.00	0.90	225.30	7365.71	-62.77	72.91	72.91	0.32	-0.21	13.75	Gyroscope
7461.00	1.70	241.00	7457.69	-63.94	71.20	71.20	0.94	0.87	17.07	Gyroscope
7560.00	2.00	260.00	7556.64	-64.96	68.22	68.22	0.69	0.30	19.19	Gyroscope
7615.00	1.87	267.00	7611.61	-65.17	66.38	66.38	0.49	-0.23	12.73	toc
7656.00	1.80	272.80	7652.59	-65.17	65.06	65.06	0.49	-0.18	14.14	Gyroscope
7751.00	1.60	280.60	7747.54	-64.86	62.27	62.27	0.32	-0.21	8.21	Gyroscope
7847.00	1.40	285.20	7843.51	-64.30	59.82	59.82	0.24	-0.21	4.79	Gyroscope
7942.00	1.90	290.40	7938.47	-63.45	57.22	57.22	0.55	0.53	5.47	Gyroscope
8038.00	1.90	290.80	8034.42	-62.33	54.25	54.25	0.01	0.00	0.42	Gyroscope
8134.00	1.80	270.30	8130.37	-61.76	51.25	51.25	0.69	-0.10	-21.35	Gyroscope
8229.00	1.80	267.80	8225.32	-61.81	48.27	48.27	0.08	0.00	-2.63	Gyroscope
8325.00	2.00	236.10	8321.27	-62.80	45.37	45.37	1.10	0.21	-33.02	Gyroscope
8420.00	2.60	224.50	8416.20	-65.26	42.48	42.48	0.80	0.63	-12.21	Gyroscope
8516.00	0.20	73.40	8512.17	-66.76	41.12	41.12	2.89	-2.50	-157.40	Gyroscope
8612.00	0.90	213.40	8608.16	-67.35	40.86	40.86	1.11	0.73	145.83	Gyroscope
8707.00	0.60	229.80	8703.15	-68.29	40.07	40.07	0.39	-0.32	17.26	Gyroscope
8802.00	0.70	218.60	8798.15	-69.06	39.33	39.33	0.17	0.11	-11.79	Gyroscope
8898.00	0.60	233.80	8894.14	-69.82	38.56	38.56	0.21	-0.10	15.83	Gyroscope
8993.00	0.80	216.40	8989.13	-70.65	37.76	37.76	0.30	0.21	-18.32	Gyroscope
9089.00	0.60	225.90	9085.13	-71.54	37.01	37.01	0.24	-0.21	9.90	Gyroscope
9185.00	0.50	231.50	9181.12	-72.15	36.32	36.32	0.12	-0.10	5.83	Gyroscope
9281.00	0.40	190.80	9277.12	-72.74	35.93	35.93	0.34	-0.10	-42.40	Gyroscope
9376.00	0.50	200.80	9372.12	-73.45	35.72	35.72	0.13	0.11	10.53	Gyroscope
9471.00	0.50	194.80	9467.11	-74.24	35.46	35.46	0.06	0.00	-6.32	Gyroscope
9567.00	0.40	196.90	9563.11	-74.96	35.26	35.26	0.11	-0.10	2.19	Gyroscope
9662.00	0.40	182.60	9658.11	-75.61	35.15	35.15	0.10	0.00	-15.05	Gyroscope
9758.00	0.10	174.90	9754.11	-76.03	35.14	35.14	0.31	-0.31	-8.02	Gyroscope
9852.00	0.00	138.50	9848.11	-76.11	35.15	35.15	0.11	-0.11	0.00	Gyroscope
9948.00	0.20	51.60	9944.11	-76.01	35.28	35.28	0.21	0.21	0.00	Gyroscope
10044.00	0.80	74.20	10040.10	-75.72	36.05	36.05	0.65	0.62	23.54	Gyroscope
10139.00	0.80	55.60	10135.09	-75.17	37.24	37.24	0.27	0.00	-19.58	Gyroscope
10234.00	0.70	28.40	10230.09	-74.28	38.06	38.06	0.39	-0.11	-28.63	Gyroscope
10329.00	0.50	24.80	10325.08	-73.39	38.51	38.51	0.21	-0.21	-3.79	Gyroscope
10424.00	0.50	26.00	10420.08	-72.65	38.87	38.87	0.01	0.00	1.26	Gyroscope
10520.00	0.50	23.70	10516.07	-71.89	39.22	39.22	0.02	0.00	-2.40	Gyroscope
10615.00	0.60	17.50	10611.07	-71.03	39.54	39.54	0.12	0.11	-6.53	Gyroscope
10707.00	0.70	14.70	10703.06	-70.03	39.82	39.82	0.11	0.11	-3.04	Gyroscope
10803.00	0.90	19.00	10799.05	-68.75	40.22	40.22	0.22	0.21	4.48	Gyroscope
10899.00	1.10	18.30	10895.04	-67.16	40.75	40.75	0.21	0.21	-0.73	Gyroscope
10992.00	1.10	25.20	10988.02	-65.51	41.41	41.41	0.14	0.00	7.42	Gyroscope
11087.00	1.40	18.60	11083.00	-63.58	42.17	42.17	0.35	0.32	-6.95	Gyroscope
11183.00	1.60	14.50	11178.97	-61.17	42.88	42.88	0.24	0.21	-4.27	Gyroscope
11278.00	3.90	12.50	11273.85	-56.73	43.91	43.91	2.42	2.42	-2.11	Gyroscope
11373.00	4.50	4.50	11368.60	-49.86	44.91	44.91	0.88	0.63	-8.42	Gyroscope
11469.00	4.00	9.30	11464.33	-42.80	45.74	45.74	0.64	-0.52	5.00	Gyroscope
11595.00	1.81	200.71	11590.25	-40.33	45.75	45.75	4.59	-1.74	-133.80	Gyroscope

Precision Directional Services, Inc.

Survey Report

Company: SPINDLETOP OIL & GAS CO.
Field: Lea County, NM
Site: Fowler Federal
Well: #1
Wellpath: Original Hole

Date: 06/23/2014 Time: 12:30:50 Page: 4
Co-ordinate(NE) Reference: Well: #1, Grid North
Vertical (TVD) Reference: 3915'GL+est.20'KB 3215.0
Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
Survey Calculation Method: Minimum Curvature Db: Adapti

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1425.00	1424.15	11.750	14.000	11 3/4"
5999.00	5996.24	8.625	11.000	8 5/8"

Annotation

MD ft	TVD ft	
7615.00	7611.61	toc

Spindletop Oil & Gas Co.
Fowler Federal, Well no. 1
API no. 30-025-38408
Sec 18; T24S; R38E
Lee County, New Mexico



Fowler Federal, Well no. 1 Proposed Sidetrack



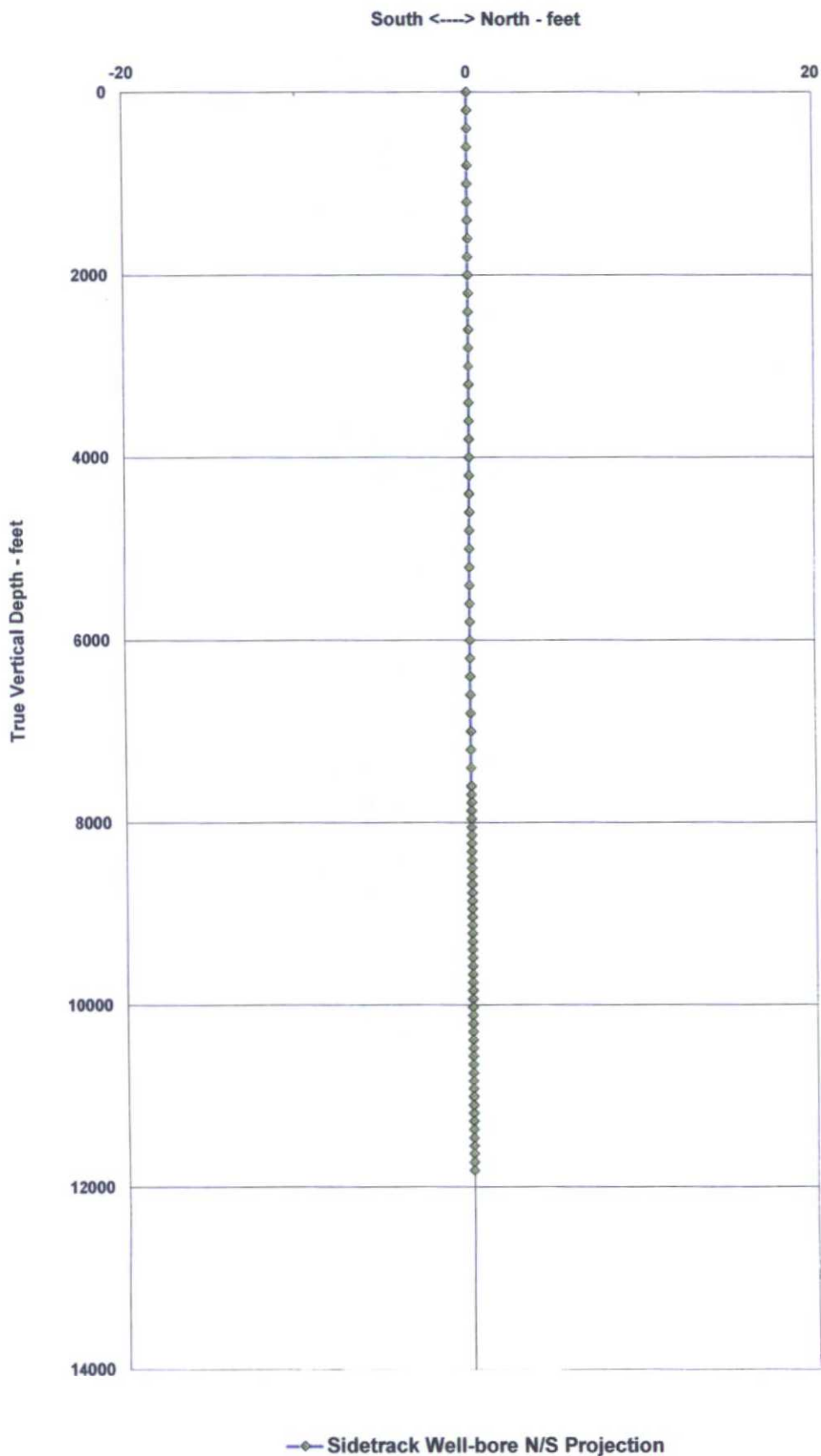
Chuck D. Howell
17-Jun-2014

West <----> East - feet

—◆— Sidetrack Well-bore Surface Projection

Spindletop Oil & Gas Co.
Fowler Federal, Well no. 1
API no. 30-025-38408
Sec 18; T24S; R38E
Lee County, New Mexico

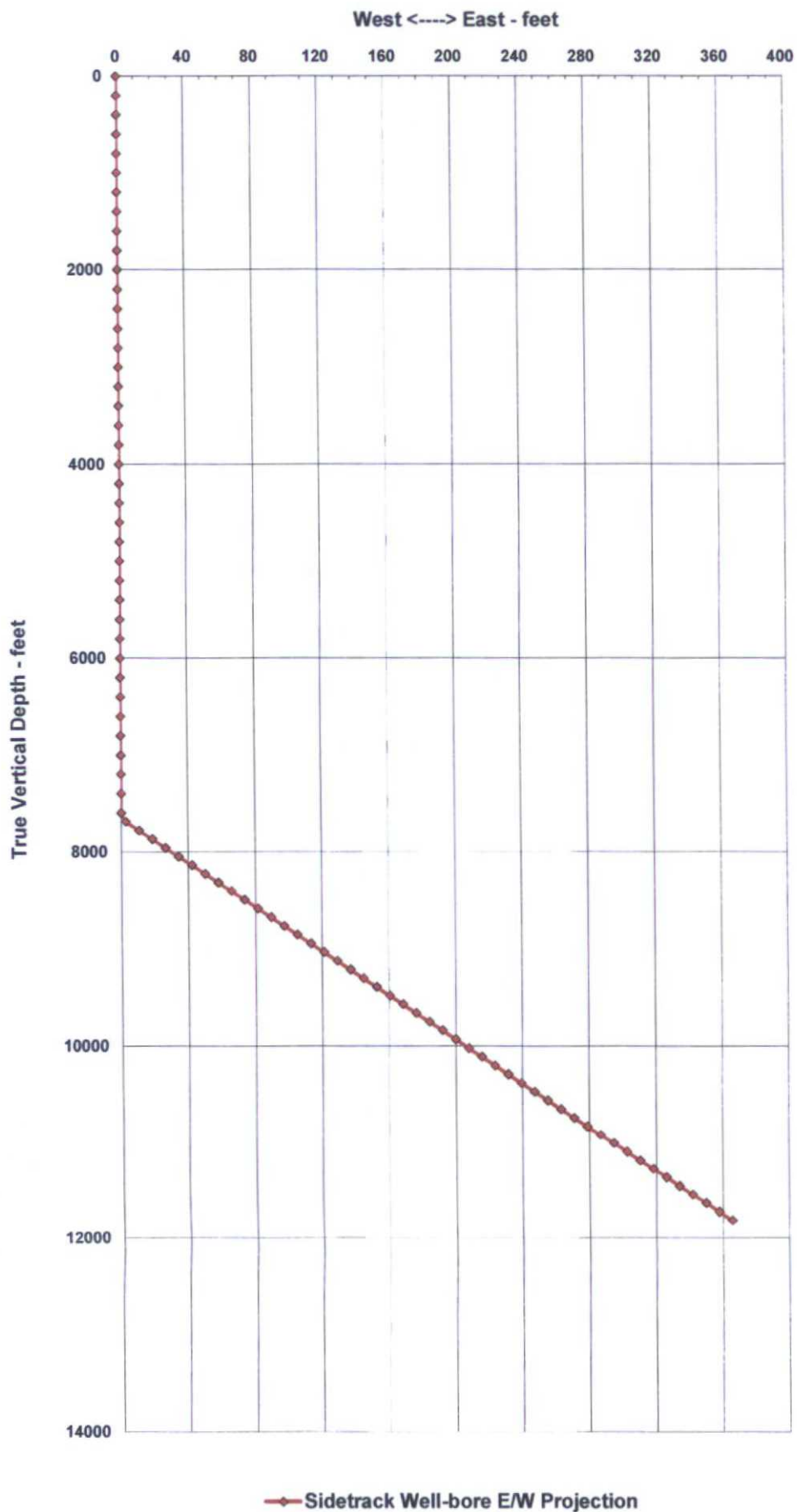
Fowler Federal, Well no. 1 Proposed Sidetrack



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