

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 18 2015

RECEIVED

15-42070

DEVON ENERGY

Carlsbad (NAD83)
Eddy County, NM (Grid North)
Lone Tree Draw 14 State Com #1H
VH - Job #320315-K-0215

Survey: drop Gyro

Regulatory Report (Grid North)

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

Jamie Hartman

Notarized this date 17th of April, 2015.

Sherry Stewart

Notary Signature
County of Midland
State of Texas



Regulatory Report (Grid North)

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Lone Tree Draw 14 State Com #1H
Project:	Carlsbad (NAD83)	TVD Reference:	RKB @ 3249.0usft
Site:	Eddy County, NM (Grid North)	MD Reference:	RKB @ 3249.0usft
Well:	Lone Tree Draw 14 State Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320315-K-0215	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320315-K-0215	Database:	MID_Regulatory

Project	Carlsbad (NAD83)		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Eddy County, NM (Grid North)				
Site Position:		Northing:	541,021.74 usft	Latitude:	32° 29' 13.861 N	
From:	Lat/Long	Easting:	600,685.09 usft	Longitude:	104° 8' 27.087 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.10 °

Well	Lone Tree Draw 14 State Com #1H, Horizontal					
Well Position	+N/-S	0.0 usft	Northing:	541,479.31 usft	Latitude:	32° 29' 18.466 N
	+E/-W	0.0 usft	Easting:	596,171.62 usft	Longitude:	104° 9' 19.775 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	25.0 usft	Ground Level:	3,224.0 usft

Wellbore	VH - Job #320315-K-0215				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	3/20/2015	7.48	60.24	48,265

Design		VH - Job #320315-K-0215		
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	338.08

Survey Program	Date	4/5/2015			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
69.0	6,864.0	drop Gyro (VH - Job #320315-K-0215)	Keeper	Keeper Gyro	

Survey								
MD	Inc	Azi	TVD	N/S	E/W	Closure Azimuth	Closure Distance	
(usft)	(°)	(grid_north_azim)	(usft)	(usft)	(usft)	(°)	(usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
69.0	0.41	349.00	69.0	0.2	0.0	349.00	0.2	
161.0	0.43	352.17	161.0	0.9	-0.2	350.19	0.9	
253.0	0.41	353.17	253.0	1.6	-0.2	351.23	1.6	
347.0	0.61	346.37	347.0	2.4	-0.4	350.50	2.4	
436.0	0.67	346.33	436.0	3.4	-0.6	349.30	3.4	
528.0	0.71	336.15	528.0	4.4	-1.0	347.30	4.5	
618.0	0.83	345.70	618.0	5.5	-1.4	346.03	5.7	
708.0	0.85	345.04	708.0	6.8	-1.7	345.91	7.0	
798.0	0.84	333.96	797.9	8.1	-2.2	344.90	8.4	
889.0	0.88	339.22	888.9	9.3	-2.7	343.75	9.7	
976.0	0.85	340.75	975.9	10.5	-3.2	343.30	11.0	

Regulatory Report (Grid North)

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Site:	Eddy County, NM (Grid North)	MD Reference:	RKB @ 3249.0usft
Well:	Lone Tree Draw 14 State Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320315-K-0215	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320315-K-0215	Database:	MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,070.0	0.92	340.88	1,069.9	11.9	-3.6	343.01	12.5	
1,164.0	0.98	341.49	1,163.9	13.4	-4.1	342.81	14.0	
1,258.0	1.04	340.73	1,257.9	15.0	-4.7	342.63	15.7	
1,352.0	1.01	335.77	1,351.9	16.5	-5.3	342.21	17.4	
1,446.0	1.02	338.66	1,445.9	18.1	-5.9	341.77	19.0	
1,540.0	1.15	335.89	1,539.8	19.7	-6.6	341.38	20.8	
1,634.0	1.14	336.02	1,633.8	21.4	-7.4	340.93	22.7	
1,728.0	1.23	333.38	1,727.8	23.2	-8.2	340.43	24.6	
1,821.0	1.27	333.49	1,820.8	25.0	-9.1	339.90	26.6	
1,915.0	1.32	341.41	1,914.8	26.9	-10.0	339.73	28.7	
2,009.0	1.25	336.42	2,008.7	28.9	-10.7	339.68	30.8	
2,103.0	1.34	337.39	2,102.7	30.9	-11.5	339.50	33.0	
2,197.0	1.30	335.76	2,196.7	32.9	-12.4	339.32	35.1	
2,289.0	1.38	338.41	2,288.7	34.8	-13.2	339.19	37.3	
2,383.0	1.44	339.50	2,382.6	37.0	-14.1	339.18	39.6	
2,477.0	1.40	337.13	2,476.6	39.2	-14.9	339.13	41.9	
2,571.0	1.39	350.42	2,570.6	41.3	-15.6	339.37	44.2	
2,665.0	1.48	336.64	2,664.5	43.6	-16.2	339.57	46.5	
2,759.0	1.48	337.54	2,758.5	45.8	-17.2	339.44	48.9	
2,818.0	1.42	340.06	2,817.5	47.2	-17.7	339.42	50.4	
2,947.0	1.36	320.68	2,946.5	49.9	-19.2	338.92	53.5	
3,033.0	1.29	338.68	3,032.4	51.6	-20.2	338.58	55.4	
3,221.0	1.28	336.06	3,220.4	55.5	-21.9	338.50	59.6	
3,315.0	1.35	11.15	3,314.4	57.5	-22.1	339.01	61.6	
3,409.0	1.37	13.15	3,408.3	59.7	-21.6	340.11	63.5	
3,503.0	1.40	355.05	3,502.3	61.9	-21.4	340.91	65.5	
3,597.0	1.43	358.76	3,596.3	64.3	-21.6	341.45	67.8	
3,785.0	1.60	357.61	3,784.2	69.2	-21.7	342.58	72.6	
3,879.0	1.52	356.55	3,878.2	71.8	-21.9	343.07	75.0	
3,973.0	1.52	355.85	3,972.1	74.3	-22.0	343.48	77.5	
4,067.0	1.43	354.51	4,066.1	76.7	-22.2	343.84	79.8	
4,161.0	1.46	352.10	4,160.1	79.0	-22.5	344.11	82.2	
4,255.0	1.36	352.33	4,254.1	81.3	-22.8	344.33	84.5	
4,349.0	1.34	351.89	4,348.0	83.5	-23.1	344.53	86.7	
4,443.0	1.34	350.29	4,442.0	85.7	-23.5	344.69	88.8	
4,537.0	1.32	349.61	4,536.0	87.8	-23.8	344.82	91.0	
4,631.0	1.28	347.58	4,630.0	89.9	-24.3	344.90	93.1	
4,725.0	1.21	344.95	4,723.9	91.9	-24.7	344.93	95.2	
4,819.0	1.22	343.93	4,817.9	93.8	-25.3	344.92	97.2	
4,913.0	1.24	343.89	4,911.9	95.8	-25.8	344.90	99.2	
5,007.0	1.40	346.05	5,005.9	97.9	-26.4	344.91	101.4	
5,101.0	1.46	350.84	5,099.8	100.2	-26.9	344.99	103.7	
5,195.0	1.44	347.07	5,193.8	102.5	-27.3	345.08	106.1	
5,289.0	1.46	342.61	5,287.8	104.8	-27.9	345.07	108.4	

Regulatory Report (Grid North)

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Site:	Eddy County, NM (Grid North)	MD Reference:	RKB @ 3249.0usft
Well:	Lone Tree Draw 14 State Com #1H	North Reference:	Grid
Wellbore:	VH - Job #320315-K-0215	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320315-K-0215	Database:	MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
5,383.0	1.43	337.85	5,381.7	107.0	-28.7	344.97	110.8	
5,477.0	1.19	347.60	5,475.7	109.1	-29.4	344.92	112.9	
5,571.0	1.21	347.53	5,569.7	111.0	-29.8	344.96	114.9	
5,665.0	1.04	352.10	5,663.7	112.8	-30.1	345.04	116.7	
5,759.0	0.97	347.76	5,757.7	114.4	-30.4	345.10	118.4	
5,854.0	1.12	334.67	5,852.6	116.0	-31.0	345.04	120.1	
5,948.0	1.30	337.13	5,946.6	117.8	-31.8	344.90	122.1	
6,042.0	1.64	322.73	6,040.6	119.9	-33.0	344.60	124.4	
6,136.0	1.96	298.38	6,134.5	121.7	-35.3	343.84	126.7	
6,228.0	2.16	289.41	6,226.5	123.1	-38.3	342.72	128.9	
6,322.0	1.84	292.09	6,320.4	124.2	-41.4	341.59	130.9	
6,416.0	1.39	289.76	6,414.4	125.2	-43.8	340.70	132.6	
6,510.0	1.13	279.04	6,508.4	125.7	-45.8	339.97	133.8	
6,604.0	1.19	281.46	6,602.4	126.0	-47.7	339.28	134.8	
6,698.0	1.18	295.23	6,696.3	126.6	-49.5	338.64	136.0	
6,792.0	1.07	316.47	6,790.3	127.7	-51.0	338.23	137.5	
6,864.0	0.84	325.47	6,862.3	128.6	-51.8	338.08	138.6	

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling

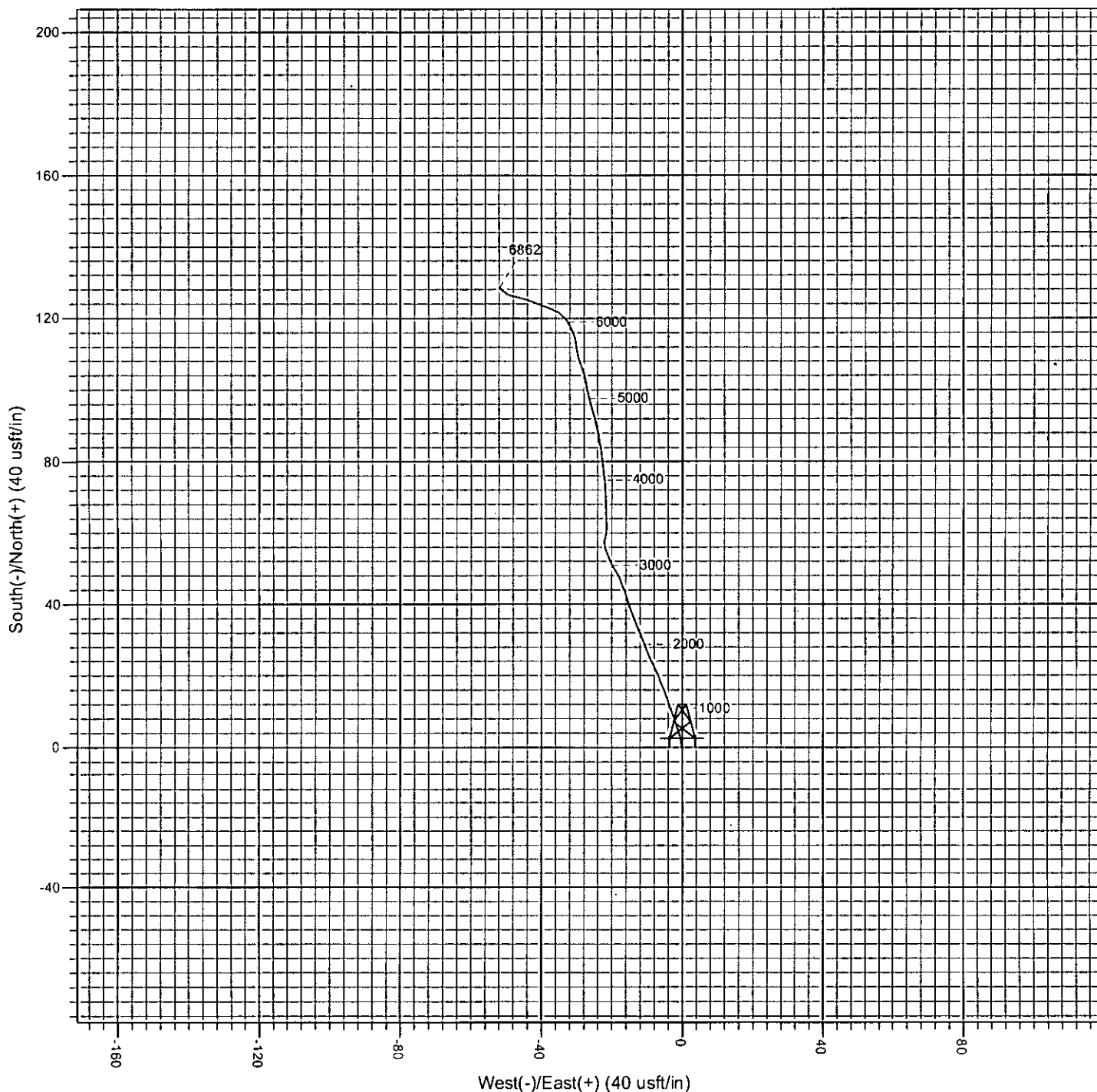
Project: Carlsbad (NAD83)
Eddy County, NM (Grid North)
Well: Lone Tree Draw 14 State Com #1H
Wellbore: VH - Job #320315-K-0215
Design: VH - Job #320315-K-0215

WELL DETAILS: Lone Tree Draw 14 State Com #1H

RKB @ 3249.0usft

Ground Level: 3224.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	541479.31	596171.62	32° 29' 18.466 N	104° 9' 19.775 W	



PROJECT DETAILS: Carlsbad (NAD83)	SITE DETAILS: Eddy County, NM (Grid North)
Geodetic System: US State Plane 1983	Site Centre Latitude: 32° 29' 13.861 N
Datum: North American Datum 1983	Longitude: 104° 8' 27.087 W
Ellipsoid: GRS 1980	Positional Uncertainty: 0.0
Zone: New Mexico Eastern Zone	Convergence: 0.10
System Datum: Ground Level	Local North: Grid

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 18 2015

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DEVON ENERGY

Burton Flat (NAD27)
Eddy County, NM (Grid North)
Lonetree "14" State Com #1
VH - Job #320315-KW-0168

Survey: Gyro

Regulatory Report (Grid North)

10 March, 2015

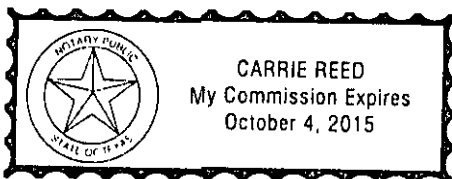
This survey is correct to the best of my knowledge and is supported by actual field data.

Janis H. Hauer

Notarized this date 13th of March, 2015.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Regulatory Report (Grid North)

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Lonetree "14" State Com #1
Project:	Burton Flat (NAD27)	TVD Reference:	GL @ 3193.0usft
Site:	Eddy County, NM (Grid North)	MD Reference:	GL @ 3193.0usft
Well:	Lonetree "14" State Com #1	North Reference:	Grid
Wellbore:	VH - Job #320315-KW-0168	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320315-KW-0168	Database:	MID_Regulatory

Project	Burton Flat (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Eddy County, NM (Grid North)		
Site Position:		Northing:	561,295.13 usft
From:	Lat/Long	Easting:	550,948.15 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0"
		Latitude:	32° 32' 34.800 N
		Longitude:	104° 10' 4.800 W
		Grid Convergence:	0.09 °

Well	Lonetree "14" State Com #1; Vertical		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 28' 55.200 N
		Longitude:	104° 9' 7.200 W
		Ground Level:	3,193.0 usft

Wellbore	VH - Job #320315-KW-0168		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2014	3/2/2015	7.60
			Dip Angle
			(°)
			60.22
			Field Strength
			(nT)
			48,281

Design	VH - Job #320315-KW-0168		
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
			(°)
			47.20

Survey Program	Date 3/10/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	5,012.0	Gyro (VH - Job #320315-KW-0168)	Keeper
			Description
			Keeper Gyro

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	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
100.0	0.68	155.19	100.0	-0.5	0.2	155.19	0.6
200.0	0.81	149.64	200.0	-1.7	0.9	153.12	1.9
300.0	0.77	156.17	300.0	-2.9	1.5	152.99	3.3
400.0	0.70	169.79	400.0	-4.1	1.9	155.70	4.5
500.0	0.61	192.25	500.0	-5.2	1.9	160.50	5.6
600.0	0.57	205.89	600.0	-6.2	1.5	166.18	6.4
700.0	0.62	221.27	700.0	-7.1	1.0	172.31	7.1
800.0	0.69	235.03	799.9	-7.8	0.1	179.23	7.8
900.0	0.69	242.24	899.9	-8.4	-0.9	186.23	8.5
1,000.0	0.75	214.45	999.9	-9.3	-1.8	191.14	9.4
1,100.0	0.75	178.43	1,099.9	-10.5	-2.2	191.75	10.7

Regulatory Report (Grid North)

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Lonetree "14" State Com #1
Project:	Burton Flat (NAD27)	TVD Reference:	GL @ 3193.0usft
Site:	Eddy County, NM (Grid North)	MD Reference:	GL @ 3193.0usft
Well:	Lonetree "14" State Com #1	North Reference:	Grid
Wellbore:	VH - Job #320315-KW-0168	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320315-KW-0168	Database:	MID_Regulatory

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	0.56	155.92	1,199.9	-11.6	-2.0	189.62	11.7
1,300.0	0.39	128.83	1,299.9	-12.2	-1.5	186.97	12.3
1,400.0	0.42	112.77	1,399.9	-12.6	-0.9	184.06	12.6
1,500.0	0.62	91.17	1,499.9	-12.7	0.0	180.06	12.7
1,600.0	0.66	67.63	1,599.9	-12.5	1.1	175.16	12.6
1,700.0	0.61	52.91	1,699.9	-12.0	2.0	170.44	12.2
1,800.0	0.65	44.82	1,799.9	-11.3	2.8	165.83	11.6
1,900.0	0.88	33.53	1,899.9	-10.2	3.7	160.26	10.9
2,000.0	1.34	35.69	1,999.9	-8.6	4.8	151.05	9.9
2,100.0	1.29	22.17	2,099.8	-6.6	5.9	138.45	8.9
2,200.0	1.10	33.63	2,199.8	-4.8	6.8	125.03	8.3
2,300.0	1.03	46.58	2,299.8	-3.4	8.0	112.83	8.7
2,400.0	1.02	49.47	2,399.8	-2.2	9.3	103.12	9.6
2,500.0	0.96	50.93	2,499.8	-1.1	10.7	95.74	10.7
2,600.0	0.99	44.91	2,599.7	0.1	11.9	89.68	11.9
2,700.0	0.90	43.07	2,699.7	1.3	13.1	84.53	13.1
2,800.0	0.84	48.75	2,799.7	2.3	14.2	80.74	14.4
2,900.0	0.89	39.41	2,899.7	3.4	15.2	77.43	15.6
3,000.0	0.72	41.00	2,999.7	4.5	16.1	74.51	16.7
3,100.0	0.78	55.78	3,099.7	5.3	17.1	72.70	17.9
3,200.0	0.92	51.12	3,199.7	6.2	18.3	71.24	19.3
3,300.0	0.74	37.37	3,299.7	7.2	19.3	69.47	20.6
3,400.0	0.72	49.98	3,399.7	8.1	20.2	68.01	21.8
3,500.0	0.94	47.62	3,499.7	9.1	21.3	66.82	23.1
3,600.0	0.86	34.58	3,599.6	10.3	22.3	65.26	24.5
3,700.0	0.81	45.54	3,699.6	11.4	23.2	63.88	25.9
3,800.0	0.98	37.75	3,799.6	12.6	24.2	62.62	27.3
3,900.0	0.74	32.62	3,899.6	13.8	25.1	61.26	28.7
4,000.0	0.94	29.37	3,999.6	15.0	25.9	59.84	29.9
4,100.0	0.75	21.70	4,099.6	16.4	26.5	58.33	31.2
4,200.0	0.97	25.92	4,199.6	17.7	27.1	56.84	32.4
4,300.0	0.79	29.02	4,299.6	19.1	27.8	55.55	33.8
4,400.0	0.82	15.52	4,399.5	20.4	28.4	54.29	34.9
4,500.0	0.94	16.96	4,499.5	21.9	28.8	52.79	36.1
4,600.0	0.94	21.84	4,599.5	23.4	29.3	51.41	37.5
4,700.0	0.95	22.09	4,699.5	24.9	30.0	50.22	39.0
4,800.0	0.84	25.39	4,799.5	26.4	30.6	49.23	40.4
4,900.0	0.84	19.17	4,899.5	27.7	31.1	48.32	41.7
5,000.0	0.69	8.40	4,999.5	29.0	31.5	47.32	42.8
5,012.0	0.87	14.04	5,011.5	29.2	31.5	47.20	42.9

Checked By: _____ Approved By: _____ Date: _____

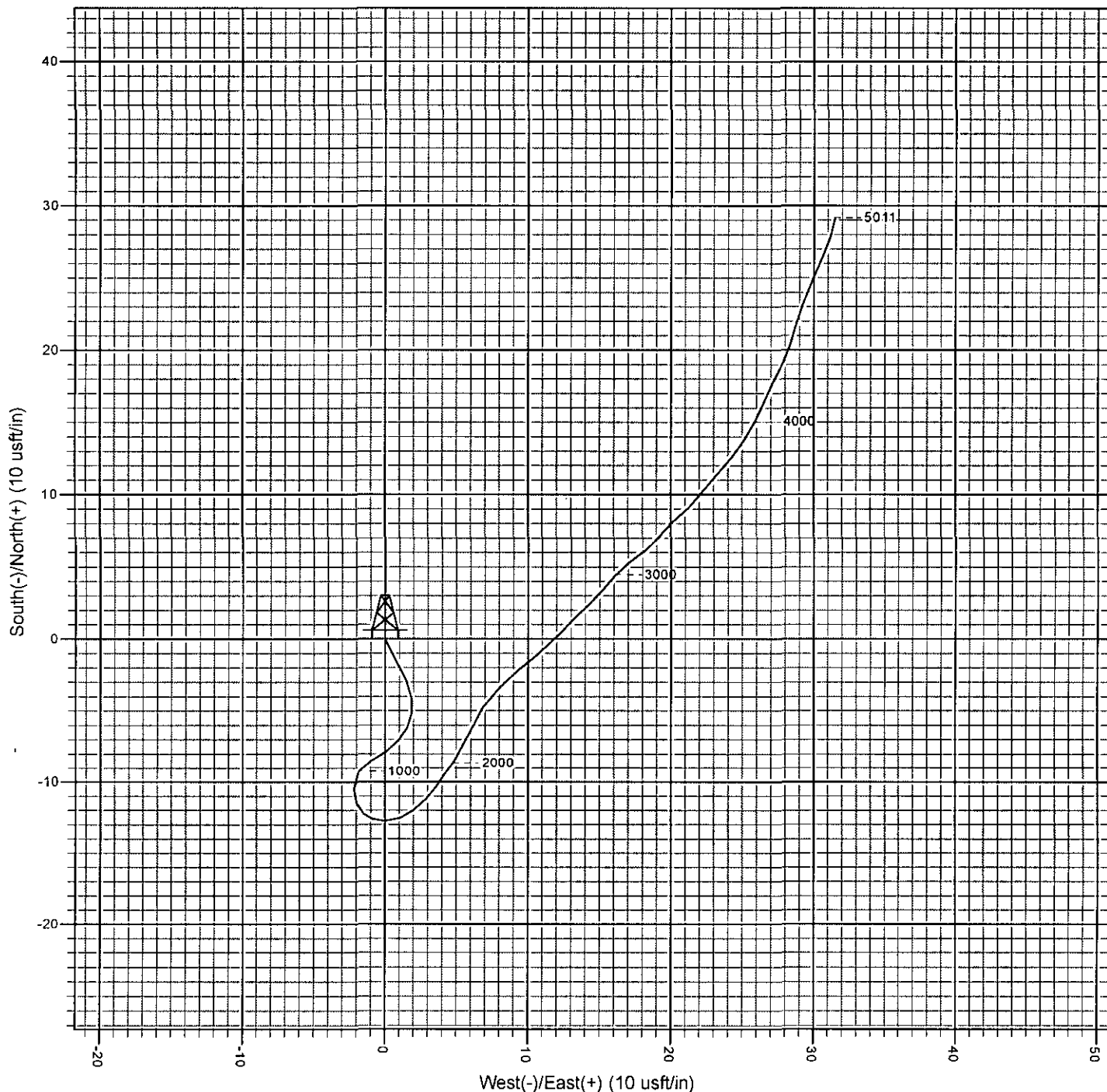


Scientific Drilling

Project: Burton Flat (NAD27)
Eddy County, NM (Grid North)
Well: Lonetree "14" State Com #1
Wellbore: VH - Job #320315-KW-0168
Design: VH - Job #320315-KW-0168

WELL DETAILS: Lonetree "14" State Com #1
GL @ 3193.0usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	539112.15	555916.37	32° 28' 55.200 N	104° 9' 7.200 W	



PROJECT DETAILS: Burton Flat (NAD27)	SITE DETAILS: Eddy County, NM (Grid North)
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 32' 34.800 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 10' 4.800 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.0
Zone: New Mexico East 3001	Convergence: 0.09
System Datum: Ground Level	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

Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: April 17, 2015

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 18 2015

RECEIVED

Attention: Scott Schmidt

Re: Devon Energy
Well: Lone Tree Draw 14 State Com 1H
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:

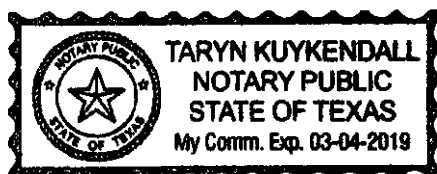
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Jesus Lopez	1H	6986 MD	2/20/2015	Measurement
MWD Supervisor		12477 MD	3/29/2015	While Drilling

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.

Jesus Aguilar
MWD Coordinator

On this, the 10th day of May, 2015, before me a notary public, the undersigned officer, personally appeared Jesus 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

5D Survey Report**Devon Energy**

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Lone Tree Draw 14 State Com 1H,3H Pad*
Well Name: *Lone Tree Draw 14 State Com 1H*
Survey: *Wft MWD Svy*

30 March 2015

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 18 2015

RECEIVED

**Weatherford®**

Lone Tree Draw 14 State Com 1H

Field Name Eddy Co, NM (Nad 83 NME)	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
Site Name Lone Tree Draw 14 State Com 1H, 3H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.10	
	Position	Northing : 541479.98 US ft	Latitude : 32° 29' 18.47"	
		Easting : 596288.24 US ft	Longitude : -104° 9' 18.41"	
	Elevation above Mean Sea Level: 3221.00 US ft		Comment :	
Slot Name Lone Tree Draw 14 State Com 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 541479.98 US ft	Latitude : 32° 29' 18.47"	
	+E / -W : 0.00 US ft	Easting : 596288.24 US ft	Longitude : -104° 9' 18.41"	
	Elevation above Mean Sea Level : 3221.00 US ft		Comment :	
Well Name Lone Tree Draw 14 State Com 1H	Type : Main well		UWI :	
	Rig Height Well TVD Reference : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3246.00 US ft			
	Closure Distance : 5113 US ft		Closure Azimuth : 177.465°	
	Vertical Section (Position of Origin Relative to Slot)			
+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 177.97°	

Survey Name: Wft MWD Svy

Date : 23/Mar/2015 **Survey Tool :** MWD **Comment :** **Company :** Wft

Magnetic Model

Model Name: BGGM **Date:** 25/Mar/2015 **Field Strength:** 48300.9 nT **Declination:** 7.60° **Dip:** 60.23°

Tie Point

MD: 6864 **Inclination:** 0.84 **Azimuth:** 325.47 **TVD:** 6862.32 **North Offset:** 128.619 **East Offset:** -51.75

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
6986.00	0.60	228.73	6984.31	128.93	-52.74	-130.72	0.00	541608.91	596235.50	First Wft Svy
7018.00	2.74	175.14	7016.30	128.06	-52.80	-129.85	7.60	541608.04	596235.44	
7049.00	6.15	174.46	7047.20	125.07	-52.56	-129.45	11.00	541605.65	596235.60	
7081.00	9.49	172.55	7078.90	121.35	-52.07	-123.11	10.47	541601.33	596236.17	
7112.00	13.31	172.28	7109.28	115.27	-51.26	-117.02	12.32	541595.25	596236.98	
7143.00	17.17	172.61	7139.18	107.20	-50.19	-108.91	12.45	541587.18	596238.05	
7175.00	20.81	171.36	7169.44	96.89	-48.73	-98.56	11.45	541576.87	596239.51	
7206.00	23.89	168.01	7198.11	85.30	-46.59	-86.90	10.75	541565.28	596241.65	
7237.00	26.42	165.84	7226.17	72.47	-43.60	-73.97	8.69	541552.45	596244.64	
7269.00	28.64	165.00	7254.54	58.16	-39.88	-59.54	7.04	541538.14	596248.36	
7300.00	30.61	165.83	7281.49	43.33	-36.02	-44.58	6.49	541523.31	596252.22	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
7332.00	32.94	167.03	7308.69	26.95	-32.07	-28.07	7.54	541506.93	596256.17	
7363.00	34.84	167.28	7334.42	10.10	-28.23	-11.09	6.15	541490.08	596260.01	
7394.00	37.01	167.19	7359.52	-7.64	-24.21	6.78	7.00	541472.34	596264.03	
7426.00	39.17	167.29	7384.71	-26.89	-19.85	26.17	6.75	541453.09	596268.39	
7457.00	41.53	167.32	7408.33	-46.47	-15.44	45.89	7.61	541433.51	596272.80	
7489.00	43.90	167.93	7431.84	-67.67	-10.79	67.25	7.52	541412.31	596277.45	
7520.00	45.86	168.15	7453.81	-89.07	-6.26	88.79	6.34	541390.91	596281.98	
7552.00	48.13	169.03	7475.63	-112.01	-1.64	111.88	7.37	541367.97	596286.60	
7583.00	50.16	169.66	7495.91	-135.05	2.70	135.06	6.73	541344.93	596290.94	
7615.00	52.84	170.26	7515.83	-159.71	7.06	159.86	8.50	541320.27	596295.30	
7646.00	55.08	171.40	7534.06	-184.45	11.05	184.73	7.81	541295.53	596299.29	
7677.00	57.61	172.35	7551.24	-210.00	14.70	210.39	8.55	541269.98	596302.94	
7709.00	59.82	173.41	7567.86	-237.13	18.08	237.62	7.46	541242.85	596306.32	
7740.00	62.28	174.41	7582.87	-264.10	20.96	264.68	8.42	541215.88	596309.20	
7772.00	65.03	176.34	7597.07	-292.68	23.26	293.32	10.15	541187.30	596311.50	
7804.00	67.52	177.72	7609.94	-321.93	24.78	322.61	8.73	541158.05	596313.02	
7835.00	70.74	178.24	7620.98	-350.88	25.80	351.57	10.50	541129.10	596314.04	
7866.00	73.48	178.44	7630.50	-380.36	26.65	381.07	8.86	541099.62	596314.89	
7898.00	77.46	178.96	7638.53	-411.33	27.35	412.04	12.54	541068.65	596315.59	
7929.00	81.01	178.64	7644.32	-441.77	27.99	442.48	11.50	541038.21	596316.23	
7961.00	85.17	178.58	7648.17	-473.52	28.76	474.24	13.00	541006.46	596317.00	
7989.00	87.69	178.58	7649.91	-501.46	29.45	502.18	9.00	540978.52	596317.69	
8020.00	89.09	178.60	7650.78	-532.43	30.22	533.17	4.52	540947.55	596318.46	
8052.00	89.58	178.39	7651.16	-564.42	31.06	565.17	1.67	540915.56	596319.30	
8146.00	91.33	177.09	7650.41	-658.34	34.76	659.16	2.32	540821.64	596323.00	
8152.00	91.26	177.03	7650.27	-664.33	35.07	665.15	1.54	540815.65	596323.31	Cross Prod. Box
8240.00	90.28	176.09	7649.09	-752.16	40.35	753.12	1.54	540727.82	596328.59	
8335.00	90.91	176.46	7648.10	-846.95	46.52	848.07	0.77	540633.03	596334.76	
8429.00	89.37	176.22	7647.87	-940.76	52.53	942.03	1.66	540539.22	596340.77	
8523.00	89.44	177.18	7648.85	-1034.60	57.94	1036.00	1.02	540445.38	596346.18	
8617.00	89.44	177.79	7649.77	-1128.50	62.06	1129.99	0.65	540351.48	596350.30	
8711.00	89.02	176.47	7651.03	-1222.37	66.77	1223.97	1.47	540257.61	596355.01	
8805.00	88.88	175.16	7652.75	-1316.10	73.62	1317.89	1.40	540163.88	596361.86	
8899.00	89.44	175.50	7654.13	-1409.78	81.28	1411.78	0.70	540070.20	596369.52	
8993.00	88.25	175.19	7656.03	-1503.45	88.90	1505.66	1.31	539976.53	596377.14	
9087.00	88.11	175.63	7659.01	-1597.10	96.42	1599.51	0.49	539882.88	596384.66	
9181.00	88.46	175.76	7661.82	-1690.79	103.48	1693.40	0.40	539789.19	596391.72	
9276.00	88.67	176.68	7664.20	-1785.56	109.74	1788.32	0.99	539694.42	596397.98	
9370.00	89.16	176.94	7665.98	-1879.39	114.97	1882.29	0.59	539600.59	596403.21	
9464.00	89.37	177.62	7667.19	-1973.28	119.43	1976.27	0.76	539506.70	596407.67	
9558.00	89.65	177.88	7667.99	-2067.20	123.12	2070.27	0.41	539412.78	596411.36	
9652.00	89.72	178.24	7668.51	-2161.15	126.30	2164.27	0.39	539318.83	596414.54	
9746.00	88.25	177.53	7670.18	-2255.07	129.77	2258.25	1.74	539224.91	596418.01	
9840.00	88.81	177.78	7672.59	-2348.96	133.61	2352.21	0.65	539131.02	596421.85	
9934.00	89.09	177.87	7674.31	-2442.87	137.18	2446.20	0.31	539037.11	596425.42	
10028.00	89.72	177.61	7675.29	-2536.79	140.89	2540.19	0.73	538943.19	596429.13	
10122.00	88.81	177.68	7676.49	-2630.71	144.75	2634.18	0.97	538849.27	596432.99	
10216.00	89.44	178.29	7677.93	-2724.64	148.05	2728.17	0.93	538755.34	596436.29	
10310.00	89.51	179.36	7678.79	-2818.61	149.98	2822.15	1.14	538661.37	596438.22	
10405.00	90.07	179.87	7679.14	-2913.61	150.62	2917.11	0.80	538566.37	596438.86	
10499.00	89.58	179.35	7679.42	-3007.60	151.26	3011.07	0.76	538472.38	596439.50	
10593.00	89.58	179.71	7680.11	-3101.60	152.03	3105.04	0.38	538378.38	596440.27	
10687.00	89.58	178.46	7680.80	-3195.58	153.53	3199.01	1.33	538284.40	596441.77	
10781.00	90.00	178.57	7681.15	-3289.55	155.97	3293.01	0.46	538190.43	596444.21	
10876.00	89.09	177.67	7681.90	-3384.49	159.08	3388.00	1.35	538095.49	596447.32	
10970.00	89.44	177.92	7683.11	-3478.42	162.70	3482.00	0.46	538001.56	596450.94	
11064.00	89.79	178.26	7683.74	-3572.36	165.83	3575.99	0.52	537907.62	596454.07	
11158.00	90.42	178.90	7683.57	-3666.33	168.16	3669.99	0.96	537813.65	596456.40	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
11253.00	91.05	177.80	7682.35	-3761.28	170.90	3764.97	1.33	537718.70	596459.14	
11347.00	90.07	176.67	7681.43	-3855.16	175.43	3858.96	1.59	537624.82	596463.67	
11441.00	90.42	176.76	7681.03	-3949.01	180.82	3952.94	0.38	537530.97	596469.06	
11536.00	89.44	176.91	7681.14	-4043.86	186.06	4047.92	1.04	537436.12	596474.30	
11630.00	89.09	177.26	7682.35	-4137.73	190.84	4141.90	0.53	537342.25	596479.08	
11724.00	89.58	177.48	7683.44	-4231.63	195.15	4235.89	0.57	537248.35	596483.39	
11818.00	89.93	178.09	7683.84	-4325.56	198.79	4329.88	0.75	537154.42	596487.03	
11913.00	88.88	177.67	7684.83	-4420.48	202.30	4424.88	1.19	537059.50	596490.54	
12007.00	89.23	177.83	7686.38	-4514.40	205.99	4518.86	0.41	536965.58	596494.23	
12101.00	90.00	178.54	7687.01	-4608.35	208.97	4612.86	1.11	536871.63	596497.21	
12195.00	90.14	177.55	7686.89	-4702.29	212.18	4706.86	1.06	536777.69	596500.42	
12289.00	88.32	177.66	7688.16	-4796.20	216.10	4800.84	1.94	536683.78	596504.34	
12383.00	88.88	177.94	7690.45	-4890.10	219.71	4894.81	0.67	536589.88	596507.95	
12477.00	90.21	178.40	7691.20	-4984.05	222.71	4988.81	1.50	536495.93	596510.95	Last Wft Svy 1H
12601.00	90.21	178.40	7690.75	-5108.00	226.17	5112.80	0.00	536371.98	596514.41	Proj. To Bit



Lone Tree Draw 14 State Com 1H Eddy Co, NM



Plan Data for Lone Tree Draw 14 State Com 1H

Plan Point Information:										
Dogleg Severity Unit: %/100.00ft Position offsets from Slot centre										
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
11347.00	90.07	176.67	7681.43	-3855.16	175.42	537624.82	596463.66	3858.96	1.59	
11419.00	89.46	175.97	7681.72	-3927.02	180.04	537552.96	596468.28	3930.93	1.20	
11535.31	89.19	178.28	7683.89	-4043.16	185.87	537436.82	596474.11	4047.21	2.00	
12804.22	89.19	178.28	7701.00	-5311.38	223.94	536168.60	596512.18	5315.98	0.00	

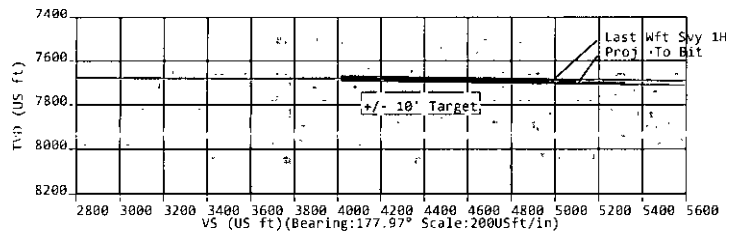
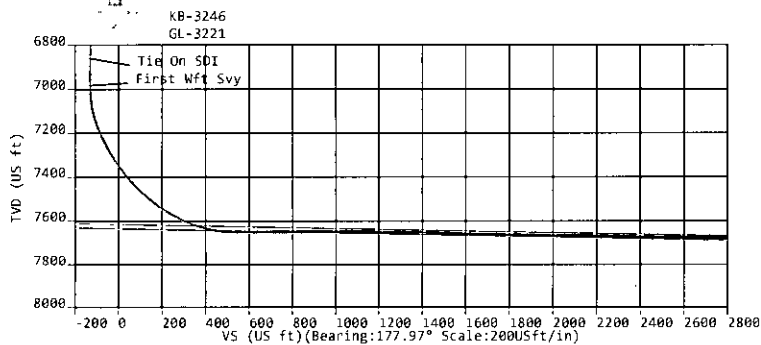
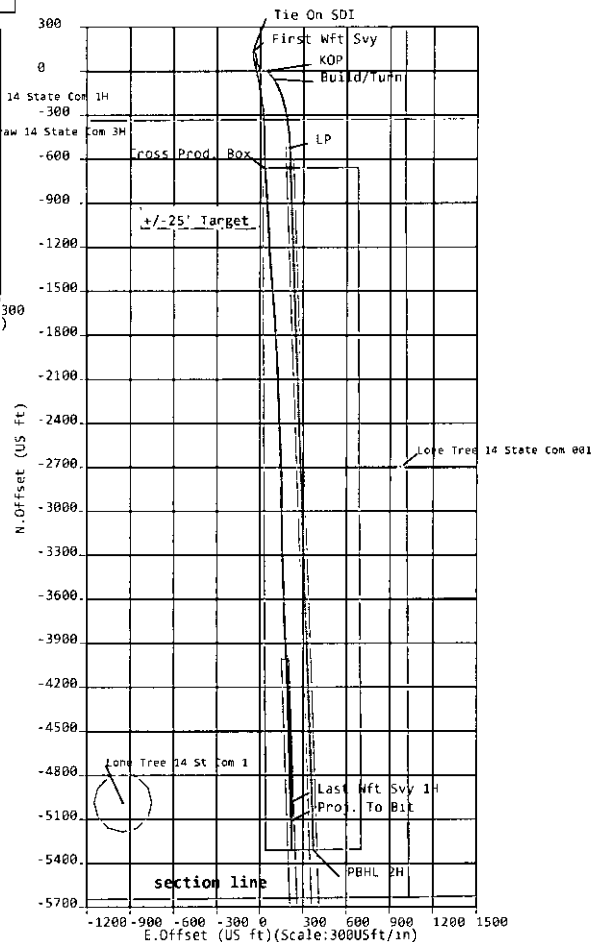
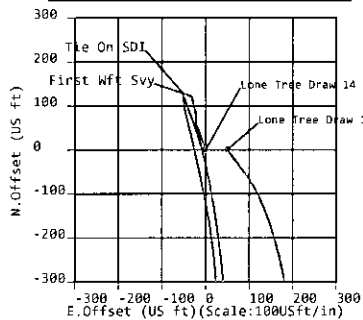
Plan Data for Lone Tree Draw 14 State Com 1H

Slot: Lone Tree Draw 14 State Com 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 541479.98USft Latitude: 32°29'18.5"
+E/-W: 0.00USft Easting: 596288.24USft Longitude: -104°9'18.4"
Elevation Above VRD: 3221.00USft

Plan Data for Lone Tree Draw 14 State Com 1H

Target Set Information:										
Name: Lone Tree Draw 14 State Com 1H										
Position offsets from Slot centre										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment			
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)					
LP Tgt	7641.00	-664.34	59.76	540815.64	596348.00	Cuboid				
T1	7681.00	-2697.04	131.35	538782.94	596419.59	Cuboid				
PBHL 1H	7701.00	-5311.38	223.94	536168.60	596512.18	Cuboid				

Lone Tree Draw 14 State Com 1H
Lone Tree Draw 14 State Com 3H
Lone Tree 14 State Com 001
Lone Tree 14 St Com 1
Lone Tree Draw 14 State Com 1H



Plan Data for Lone Tree Draw 14 State Com 1H										
Well: Lone Tree Draw 14 State Com 1H										
Type: Main Well										
File Number:										
Plan folder: P4										
Vertical Section: Position offset of origin from Slot centre:										
+N/-S: 0.00USft Azimuth: 177.97°										
Magnetic Parameters:										
Model: Field Strength, Declination, Dip, Date:										
BGM 48300(nT) 7.40° 60.21° 2015-03-25										

Sign Off: Russell Joyner



Directional Survey

Well Name: LONE TREE DRAW 14 STATE COM 1H

Sub-Division DELAWARE BASIN WEST		Region SLOPE WEST		Field Name BURTON FLAT		County EDDY		State/Province NM					
Surface Legal Location Sec 11 T21S R27E		API/UWI 3001542070		Latitude (") 32° 29' 18.072" N		Longitude (") 104° 9' 17.696" W		Orig KB Elevation (ft) 3,249.40		Ground Elev MSL (ft) 3,224.40		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH				SAP Well ID 38551				Vertical Section Direction (") 177.97			
Kick Offs & Key Depths													
Date				Type						Top Depth (ftKB)			
Actual Deviation Survey GYRO SURVEYS, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 3/21/2015		Description GYRO SURVEYS											
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (") 0.00		Azimuth Tie In (") 0.00		NSTie in (ft) 0.00		EWTie in (ft) 0.00			
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
3/21/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO	SCIENTIFIC DRILLING			
3/21/2015	69.00	0.41	349.00	69.00	-0.24	0.24	-0.05	0.59	GYRO	SCIENTIFIC DRILLING			
3/21/2015	161.00	0.43	352.17	161.00	-0.91	0.91	-0.16	0.03	GYRO	SCIENTIFIC DRILLING			
3/21/2015	253.00	0.41	353.17	252.99	-1.58	1.58	-0.24	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	347.00	0.61	346.37	346.99	-2.41	2.40	-0.40	0.22	GYRO	SCIENTIFIC DRILLING			
3/21/2015	436.00	0.67	346.33	435.99	-3.38	3.36	-0.64	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	436.00	0.67	346.33	435.99	-3.38	3.36	-0.64	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	528.00	0.71	336.15	527.98	-4.44	4.41	-0.99	0.14	GYRO	SCIENTIFIC DRILLING			
3/21/2015	618.00	0.83	345.70	617.97	-5.59	5.55	-1.38	0.19	GYRO	SCIENTIFIC DRILLING			
3/21/2015	708.00	0.85	345.04	707.96	-6.88	6.82	-1.71	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	798.00	0.84	333.96	797.95	-8.13	8.06	-2.18	0.18	GYRO	SCIENTIFIC DRILLING			
3/21/2015	889.00	0.88	339.22	888.94	-9.41	9.32	-2.72	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	976.00	0.85	340.75	975.93	-10.65	10.55	-3.17	0.04	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,070.00	0.92	340.88	1,069.92	-12.04	11.92	-3.64	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,164.00	0.98	341.49	1,163.91	-13.53	13.40	-4.14	0.06	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,258.00	1.04	340.73	1,257.89	-15.12	14.96	-4.68	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,352.00	1.01	335.77	1,351.88	-16.70	16.52	-5.30	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,446.00	1.02	338.66	1,445.86	-18.26	18.06	-5.95	0.06	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,540.00	1.15	335.89	1,539.85	-19.92	19.70	-6.64	0.15	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,634.00	1.14	336.02	1,633.83	-21.66	21.41	-7.40	0.01	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,728.00	1.23	333.38	1,727.81	-23.45	23.17	-8.23	0.11	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,821.00	1.27	333.49	1,820.78	-25.29	24.99	-9.14	0.04	GYRO	SCIENTIFIC DRILLING			
3/21/2015	1,915.00	1.32	341.41	1,914.76	-27.28	26.94	-9.95	0.20	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,009.00	1.25	336.42	2,008.74	-29.27	28.91	-10.71	0.14	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,103.00	1.34	337.39	2,102.71	-31.25	30.86	-11.54	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,197.00	1.30	335.76	2,196.69	-33.27	32.85	-12.40	0.06	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,289.00	1.38	338.41	2,288.66	-35.28	34.83	-13.24	0.11	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,383.00	1.44	339.50	2,382.63	-37.47	36.99	-14.07	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,477.00	1.40	337.13	2,476.61	-39.66	39.16	-14.93	0.08	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,571.00	1.39	350.42	2,570.58	-41.86	41.34	-15.56	0.34	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,665.00	1.48	336.64	2,664.55	-44.12	43.58	-16.23	0.38	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,759.00	1.48	337.54	2,758.52	-46.39	45.81	-17.18	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,818.00	1.42	340.06	2,817.50	-47.80	47.20	-17.72	0.15	GYRO	SCIENTIFIC DRILLING			
3/21/2015	2,947.00	1.36	320.68	2,946.46	-50.54	49.89	-19.23	0.37	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,033.00	1.29	338.68	3,032.44	-52.27	51.58	-20.23	0.49	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,221.00	1.28	336.06	3,220.39	-56.21	55.47	-21.85	0.03	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,315.00	1.35	11.15	3,314.37	-58.26	57.52	-22.07	0.85	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,409.00	1.37	13.15	3,408.34	-60.43	59.70	-21.60	0.05	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,503.00	1.40	355.05	3,502.31	-62.66	61.94	-21.44	0.46	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,597.00	1.43	358.76	3,596.29	-64.98	64.25	-21.56	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,785.00	1.60	357.61	3,784.22	-69.95	69.22	-21.72	0.09	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,879.00	1.52	356.55	3,878.19	-72.51	71.78	-21.85	0.09	GYRO	SCIENTIFIC DRILLING			
3/21/2015	3,973.00	1.52	355.85	3,972.15	-75.00	74.27	-22.02	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,067.00	1.43	354.51	4,066.12	-77.42	76.68	-22.22	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,161.00	1.46	352.10	4,160.09	-79.78	79.03	-22.50	0.07	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,255.00	1.36	352.33	4,254.06	-82.08	81.32	-22.81	0.11	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,349.00	1.34	351.89	4,348.04	-84.28	83.52	-23.12	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,443.00	1.34	350.29	4,442.01	-86.46	85.69	-23.46	0.04	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,537.00	1.32	349.61	4,535.99	-88.62	87.84	-23.84	0.03	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,631.00	1.28	347.58	4,629.96	-90.73	89.93	-24.26	0.06	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,725.00	1.21	344.95	4,723.94	-92.73	91.91	-24.74	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,819.00	1.22	343.93	4,817.92	-94.67	93.83	-25.28	0.03	GYRO	SCIENTIFIC DRILLING			
3/21/2015	4,913.00	1.24	343.89	4,911.90	-96.62	95.77	-25.84	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,007.00	1.40	346.05	5,005.87	-98.73	97.86	-26.40	0.18	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,101.00	1.46	350.84	5,099.84	-101.05	100.16	-26.86	0.14	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,195.00	1.44	347.07	5,193.81	-103.39	102.49	-27.32	0.10	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,289.00	1.46	342.61	5,287.78	-105.71	104.78	-27.94	0.12	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,383.00	1.43	337.85	5,381.75	-107.96	107.01	-28.74	0.13	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,477.00	1.19	347.60	5,475.73	-110.03	109.05	-29.39	0.35	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,571.00	1.21	347.53	5,569.71	-111.96	110.98	-29.82	0.02	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,665.00	1.04	352.10	5,663.69	-113.79	112.79	-30.15	0.20	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,759.00	0.97	347.76	5,757.67	-115.42	114.41	-30.43	0.11	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,854.00	1.12	334.67	5,852.66	-117.06	116.04	-31.00	0.30	GYRO	SCIENTIFIC DRILLING			
3/21/2015	5,948.00	1.30	337.13	5,946.64	-118.90	117.85	-31.81	0.20	GYRO	SCIENTIFIC DRILLING			
3/21/2015	6,042.00	1.64	322.73	6,040.61	-121.00	119.90	-33.04	0.53	GYRO	SCIENTIFIC DRILLING			
3/21/2015	6,136.00	1.96	298.38	6,134.56	-122.91	121.74	-35.27	0.87	GYRO	SCIENTIFIC DRILLING			



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