



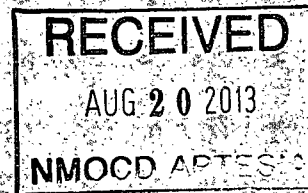
A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-40683

February 13, 2013

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010



Attn: Patti Riechers

Re: **Burton Flat Deep Unit No 056H**

Please find enclosed a copy of the survey from 0' to 6.028' ran on the above referenced well.

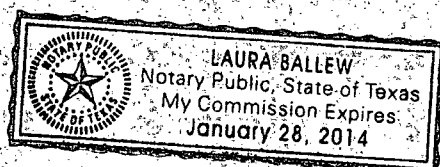
If I can be of any further service, please do not hesitate to call me at 800-606-4976

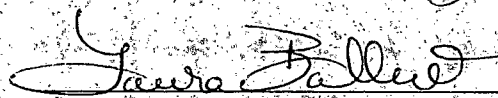
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 13th day of February
A.D., 2013, by Keith Havelka.

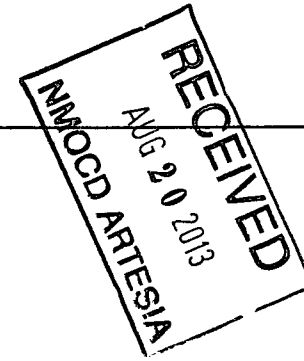



Laura Ballew
Notary Public, State of Texas

Company: DEVON ENERGY PRODUCTION CO., LP
Well: BURTON FLAT DEEP UNIT NO 056H



Rig Name: H&P 223
State/County: NEW MEXICO/EDDY
Latitude: 32.51, Longitude: -104.18
GRID North is 0.08 Degrees East of True North
VS-Azi: 269.50 Degrees



DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01_int.ut
Minimum Curvature Method
Report Date/Time: 2/13/2013 / 09:30

Vaughn Energy Services
Corpus Christi, TX
800-606-4976

Surveyor: Shane Nelson
Burton Flat Deep Unit No 056H / API 30-015-40683

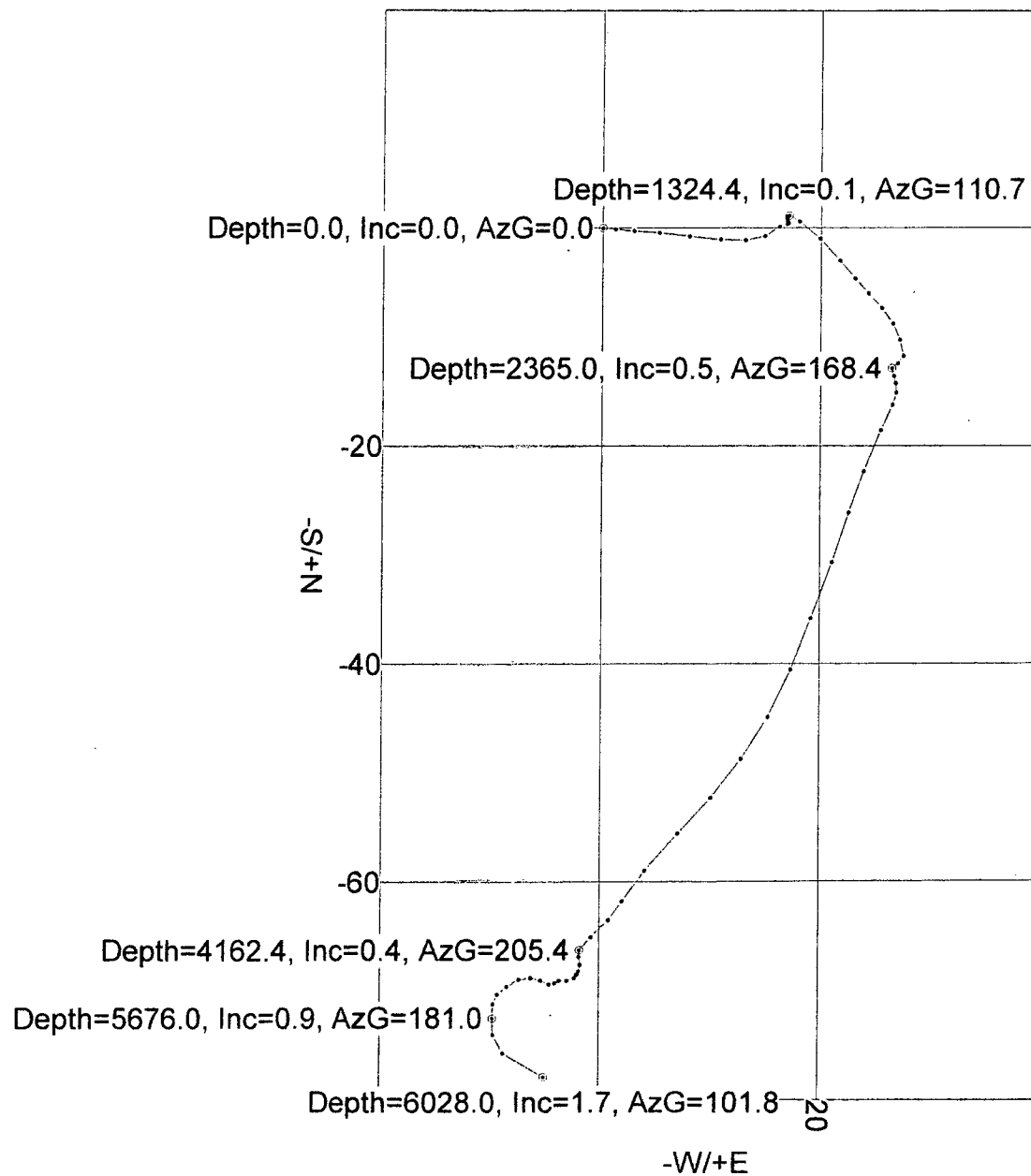
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
189.20	0.71	95.22	189.20	-0.11	1.16	-1.16	1.17	95.22	0.37
283.80	1.38	95.40	283.78	-0.27	2.88	-2.88	2.89	95.29	0.71
378.40	1.46	91.92	378.35	-0.41	5.22	-5.22	5.24	94.54	0.12
473.00	1.92	99.80	472.91	-0.72	7.98	-7.97	8.01	95.19	0.54
567.60	1.56	92.28	567.47	-1.04	10.83	-10.82	10.88	95.51	0.45
662.20	1.16	89.97	662.04	-1.10	13.08	-13.07	13.12	94.79	0.42
756.80	1.07	64.03	756.62	-0.71	14.84	-14.83	14.85	92.73	0.54
851.40	0.84	49.02	851.21	0.14	16.16	-16.16	16.16	89.51	0.36
946.00	0.33	140.83	945.80	0.39	16.86	-16.86	16.86	88.68	0.97
1040.60	0.34	350.96	1040.40	0.46	16.98	-16.99	16.99	88.45	0.68
1135.20	0.16	314.50	1135.00	0.83	16.85	-16.85	16.87	87.18	0.25
1229.80	0.19	34.76	1229.60	1.05	16.84	-16.85	16.87	86.43	0.24
1324.40	0.15	110.67	1324.20	1.13	17.04	-17.05	17.08	86.19	0.22
1419.00	1.17	119.82	1418.79	0.61	17.99	-18.00	18.00	88.05	1.08
1513.60	1.84	135.65	1513.36	-0.96	19.89	-19.88	19.92	92.75	0.83
1608.20	1.46	140.96	1607.92	-2.98	21.72	-21.69	21.92	97.82	0.43
1702.80	1.10	138.34	1702.50	-4.60	23.08	-23.04	23.54	101.27	0.39
1797.40	1.10	137.08	1797.08	-5.95	24.31	-24.25	25.02	103.75	0.03
1892.00	1.10	139.16	1891.66	-7.30	25.52	-25.46	26.55	105.97	0.04
1986.60	1.03	150.50	1986.25	-8.73	26.54	-26.46	27.94	108.21	0.23

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2081.20	0.96	165.34	2080.83	-10.24	27.16	-27.07	29.03	110.66	0.28
2175.80	0.86	169.62	2175.42	-11.71	27.49	-27.38	29.88	113.07	0.13
2270.40	0.76	269.60	2270.01	-12.41	26.99	-26.88	29.71	114.70	1.32
2365.00	0.54	168.38	2364.61	-12.86	26.45	-26.34	29.41	115.92	1.07
2459.60	0.34	158.73	2459.21	-13.56	26.65	-26.53	29.90	116.98	0.23
2554.20	0.47	170.60	2553.81	-14.21	26.81	-26.69	30.34	117.92	0.16
2648.80	0.61	181.08	2648.40	-15.09	26.87	-26.73	30.82	119.33	0.18
2743.40	0.81	208.66	2742.99	-16.19	26.53	-26.39	31.08	121.38	0.41
2838.00	2.31	202.55	2837.56	-18.53	25.48	-25.32	31.51	126.03	1.59
2932.60	2.63	201.80	2932.07	-22.31	23.95	-23.75	32.73	132.98	0.35
3027.20	2.27	197.08	3026.58	-26.12	22.59	-22.36	34.53	139.14	0.44
3121.80	3.52	198.89	3121.06	-30.65	21.10	-20.83	37.21	145.46	1.33
3216.40	3.14	201.95	3215.50	-35.80	19.19	-18.88	40.62	151.81	0.44
3311.00	2.99	200.44	3309.96	-40.52	17.36	-17.01	44.08	156.81	0.18
3405.60	2.85	210.77	3404.44	-44.85	15.30	-14.90	47.39	161.17	0.58
3500.20	2.68	213.62	3498.93	-48.71	12.87	-12.45	50.38	165.20	0.23
3594.80	2.71	221.58	3593.43	-52.23	10.16	-9.71	53.20	168.99	0.40
3689.40	2.65	222.81	3687.92	-55.51	7.19	-6.70	55.97	172.62	0.09
3784.00	2.87	220.56	3782.41	-58.91	4.16	-3.65	59.06	175.96	0.26
3878.60	1.38	207.14	3876.95	-61.73	2.10	-1.56	61.76	178.05	1.65
3973.20	1.21	225.99	3971.52	-63.44	0.86	-0.31	63.44	179.22	0.48
4067.80	1.51	225.80	4066.10	-65.00	-0.76	1.32	65.01	180.67	0.32
4162.40	0.43	205.36	4160.68	-66.20	-1.80	2.38	66.22	181.56	1.18
4257.00	0.39	156.04	4255.28	-66.82	-1.83	2.41	66.84	181.56	0.37
4351.60	0.55	182.46	4349.88	-67.56	-1.71	2.30	67.58	181.45	0.28
4446.20	0.24	219.35	4444.47	-68.17	-1.86	2.45	68.19	181.56	0.40
4540.80	0.14	190.05	4539.07	-68.44	-2.01	2.60	68.47	181.68	0.15
4635.40	0.39	220.29	4633.67	-68.80	-2.24	2.84	68.84	181.86	0.30
4730.00	0.56	273.45	4728.27	-69.02	-2.91	3.51	69.08	182.41	0.48
4824.60	0.28	269.68	4822.87	-69.00	-3.60	4.20	69.09	182.99	0.30
4919.20	0.38	213.45	4917.47	-69.26	-4.00	4.61	69.38	183.31	0.34
5013.80	0.49	297.67	5012.06	-69.34	-4.54	5.14	69.49	183.74	0.63
5108.40	0.51	290.88	5106.66	-69.00	-5.29	5.89	69.20	184.38	0.06
5203.00	0.63	280.97	5201.26	-68.75	-6.19	6.79	69.03	185.15	0.17
5297.60	0.76	245.87	5295.85	-68.91	-7.28	7.88	69.29	186.03	0.46
5392.20	0.78	235.39	5390.44	-69.53	-8.38	8.98	70.03	186.87	0.15
5486.80	0.60	223.95	5485.03	-70.25	-9.25	9.86	70.86	187.50	0.24
5581.40	0.67	185.38	5579.63	-71.16	-9.65	10.27	71.81	187.72	0.45
5676.00	0.93	181.04	5674.22	-72.48	-9.71	10.35	73.13	187.63	0.29
5770.60	0.93	173.09	5768.81	-74.01	-9.64	10.28	74.64	187.42	0.14

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5865.20	1.54	140.60	5863.38	-75.75	-8.74	9.40	76.26	186.58	0.96
6028.00	1.70	101.80	6026.12	-77.94	-4.98	5.66	78.10	183.66	0.67



Vaughn Energy Services
Corpus Christi, TX
800-606-4976
Surveyor: Shane Nelson
Burton Flat Deep Unit No 056H / API 30-015-40683



DEVON ENERGY

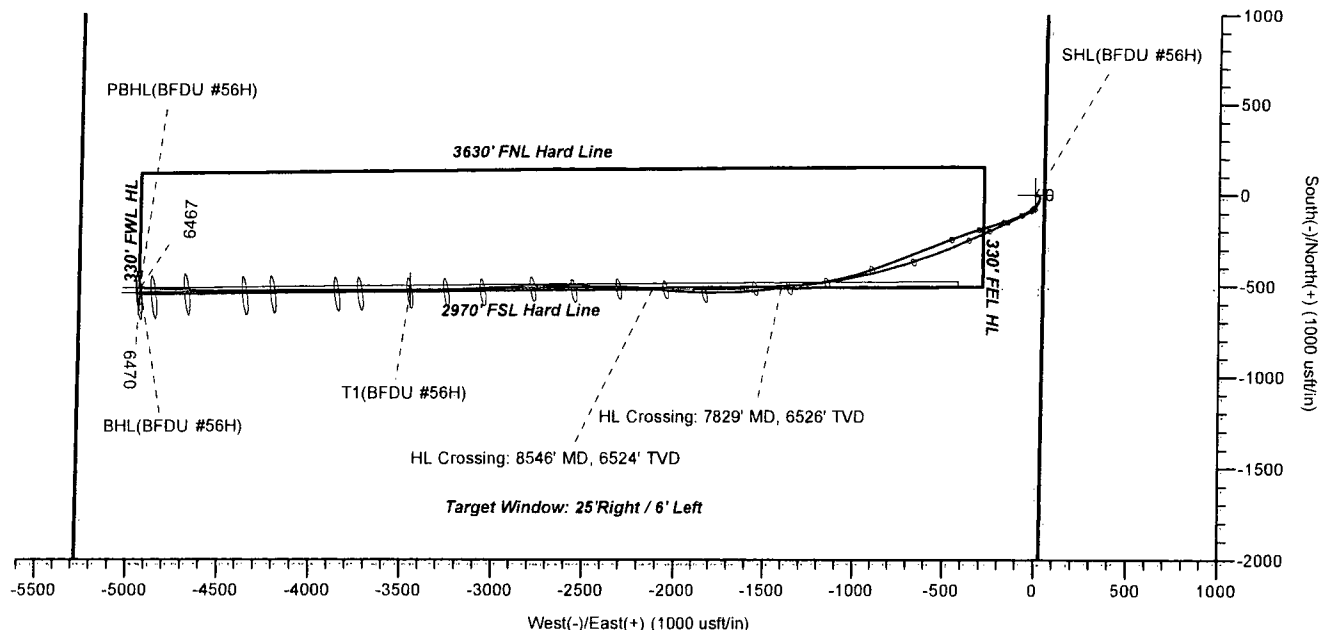
Project: Eddy County, NM (NAD-83)
 Site: Burton Flat Deep Unit
 Well: 56H
 Wellbore: OH
 Design: OH

devon



Azimuths to Grid North
 True North: -0.09°
 Magnetic North: 7.60°

Magnetic Field
 Strength: 48566.5nT
 Dip Angle: 60.31°
 Date: 01/14/2013
 Model: IGRF2010

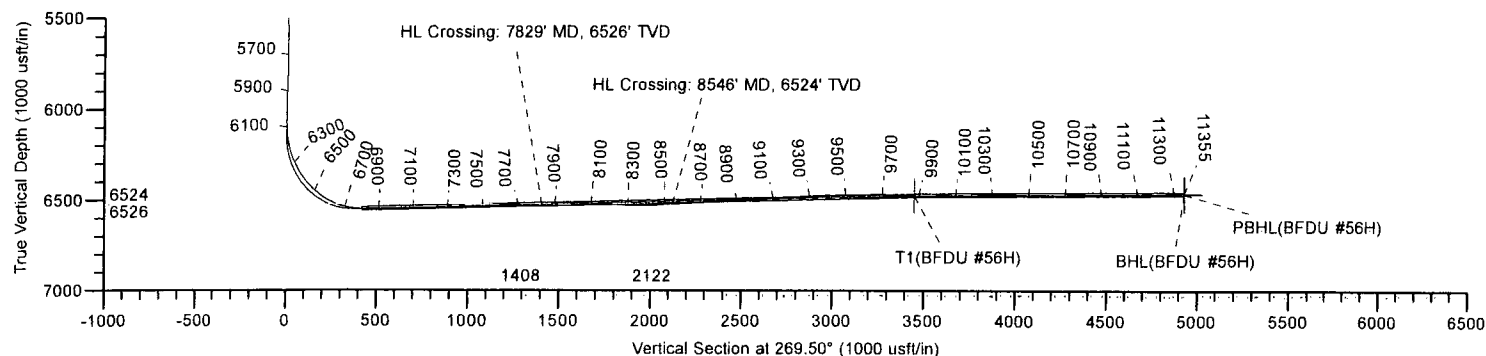


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(BFDU #56H)	0.00	0.00	0.00	549874.02	591983.71	32° 30' 41.603 N	104° 10' 8.521 W
BHL(BFDU #56H)	6467.18	-511.42	-4924.00	549362.60	587059.71	32° 30' 36.614 N	104° 11' 6.034 W
PBHL(BFDU #56H)	6470.00	-537.54	-4928.17	549336.48	587055.54	32° 30' 36.356 N	104° 11' 6.084 W
T1(BFDU #56H)	6477.00	-524.62	-3445.56	549349.40	588538.15	32° 30' 36.463 N	104° 10' 48.769 W

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
6526.13	7829.00	93.62	263.71	-512.33	-1403.63	1408.04	1595.40	HL Crossing: 7829' MD, 6526' TVD
6524.60	8545.73	93.37	275.58	-518.37	-2117.94	2122.38	2311.56	HL Crossing: 8546' MD, 6524' TVD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Design: OH (56H/OH)
 Burton Flat Deep Unit
 Created By: Tyler Carlson
 Date: 12.00, February 19 2013
 Approved: _____
 Date: _____

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project		Eddy County, NM (NAD-83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Burton Flat Deep Unit			
Site Position:		Northing:	548,073.21 usft	Latitude:	32° 30' 23.782 N
From:	Map	Easting:	592,066.43 usft	Longitude:	104° 10' 7.587 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	56H				
Well Position	+N/-S	0.00 usft	Northing:	549,874.02 usft	Latitude: 32° 30' 41.603 N
	+E/-W	0.00 usft	Easting:	591,983.71 usft	Longitude: 104° 10' 8.521 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,207.00 usft

Wellbore	OH.				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/14/13	7.69	60.31	48,566

Design:	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.50

Survey Program		Date	02/19/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
189.20	6,028.00	Survey #4 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
6,139.00	11,270.00	Survey #5 (OH)	LEAM MWD	MWD - Standard	
11,355.00	11,355.00	Survey #6 (OH)	Project	Projection	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL(BFDU #56H)									
189.20	0.71	95.22	189.20	-0.11	1.17	-1.17	0.38	0.38	0.00
283.80	1.38	95.40	283.78	-0.27	2.89	-2.88	0.71	0.71	0.19
378.40	1.46	91.92	378.35	-0.41	5.22	-5.22	0.12	0.08	-3.68
473.00	1.92	99.80	472.91	-0.72	7.99	-7.98	0.54	0.49	8.33
567.60	1.56	92.28	567.46	-1.05	10.84	-10.83	0.45	-0.38	-7.95

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
662.20	1.16	89.97	662.04	-1.10	13.08	-13.07	0.43	-0.42	-2.44	
756.80	1.07	64.03	756.62	-0.71	14.83	-14.83	0.54	-0.10	-27.42	
851.40	0.84	49.02	851.21	0.13	16.15	-16.15	0.36	-0.24	-15.87	
946.00	0.33	140.83	945.80	0.38	16.85	-16.85	0.96	-0.54	97.05	
1,040.60	0.34	350.96	1,040.40	0.44	16.98	-16.98	0.68	0.01	-158.42	
1,135.20	0.16	314.50	1,135.00	0.81	16.84	-16.84	0.24	-0.19	-38.54	
1,229.80	0.19	34.76	1,229.60	1.03	16.83	-16.84	0.24	0.03	84.84	
1,324.40	0.15	110.67	1,324.20	1.12	17.04	-17.05	0.22	-0.04	80.24	
1,419.00	1.17	119.82	1,418.79	0.59	17.99	-18.00	1.08	1.08	9.67	
1,513.60	1.84	135.65	1,513.36	-0.97	19.89	-19.88	0.83	0.71	16.73	
1,608.20	1.46	140.96	1,607.92	-2.99	21.71	-21.68	0.43	-0.40	5.61	
1,702.80	1.10	138.34	1,702.50	-4.61	23.07	-23.03	0.39	-0.38	-2.77	
1,797.40	1.10	137.08	1,797.08	-5.95	24.30	-24.24	0.03	0.00	-1.33	
1,892.00	1.10	139.16	1,891.66	-7.30	25.51	-25.44	0.04	0.00	2.20	
1,986.60	1.03	150.50	1,986.25	-8.73	26.52	-26.44	0.23	-0.07	11.99	
2,081.20	0.96	165.34	2,080.83	-10.24	27.14	-27.05	0.28	-0.07	15.69	
2,175.80	0.86	169.62	2,175.42	-11.70	27.47	-27.37	0.13	-0.11	4.52	
2,270.40	0.76	269.60	2,270.02	-12.41	26.97	-26.86	1.31	-0.11	105.69	
2,365.00	0.54	168.38	2,364.61	-12.85	26.43	-26.32	1.07	-0.23	-107.00	
2,459.60	0.34	158.73	2,459.21	-13.54	26.62	-26.50	0.22	-0.21	-10.20	
2,554.20	0.47	170.60	2,553.81	-14.19	26.79	-26.66	0.16	0.14	12.55	
2,648.80	0.61	181.08	2,648.40	-15.08	26.84	-26.71	0.18	0.15	11.08	
2,743.40	0.81	208.66	2,743.00	-16.17	26.51	-26.37	0.41	0.21	29.15	
2,838.00	2.31	202.55	2,837.56	-18.51	25.46	-25.30	1.59	1.59	-6.46	
2,932.60	2.63	201.80	2,932.07	-22.29	23.92	-23.73	0.34	0.34	-0.79	
3,027.20	2.27	197.08	3,026.58	-26.10	22.57	-22.34	0.44	-0.38	-4.99	
3,121.80	3.52	198.89	3,121.06	-30.63	21.08	-20.81	1.32	1.32	1.91	
3,216.40	3.14	201.95	3,215.50	-35.78	19.17	-18.85	0.44	-0.40	3.23	
3,311.00	2.99	200.44	3,309.97	-40.50	17.34	-16.98	0.18	-0.16	-1.60	
3,405.60	2.85	210.77	3,404.44	-44.83	15.27	-14.88	0.57	-0.15	10.92	
3,500.20	2.68	213.62	3,498.93	-48.69	12.84	-12.42	0.23	-0.18	3.01	
3,594.80	2.71	221.58	3,593.43	-52.21	10.14	-9.68	0.40	0.03	8.41	
3,689.40	2.65	222.81	3,687.93	-55.49	7.17	-6.68	0.09	-0.06	1.30	
3,784.00	2.87	220.56	3,782.42	-58.89	4.14	-3.63	0.26	0.23	-2.38	
3,878.60	1.38	207.14	3,876.95	-61.70	2.08	-1.54	1.65	-1.58	-14.19	
3,973.20	1.21	225.99	3,971.52	-63.41	0.84	-0.29	0.48	-0.18	19.93	
4,067.80	1.51	225.80	4,066.10	-64.97	-0.77	1.34	0.32	0.32	-0.20	
4,162.40	0.43	205.36	4,160.68	-66.16	-1.82	2.39	1.18	-1.14	-21.61	
4,257.00	0.39	156.04	4,255.28	-66.78	-1.84	2.42	0.36	-0.04	-52.14	
4,351.60	0.55	182.46	4,349.88	-67.53	-1.73	2.31	0.28	0.17	27.93	
4,446.20	0.24	219.35	4,444.48	-68.13	-1.87	2.46	0.41	-0.33	39.00	
4,540.80	0.14	190.05	4,539.07	-68.40	-2.02	2.61	0.14	-0.11	-30.97	

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,635.40	0.39	220.29	4,633.67	-68.76	-2.25	2.84	0.29	0.26	31.97	
4,730.00	0.56	273.45	4,728.27	-68.98	-2.91	3.52	0.48	0.18	56.19	
4,824.60	0.28	269.68	4,822.87	-68.95	-3.61	4.21	0.30	-0.30	-3.99	
4,919.20	0.38	213.45	4,917.47	-69.21	-4.01	4.61	0.34	0.11	-59.44	
5,013.80	0.49	297.67	5,012.07	-69.29	-4.54	5.15	0.62	0.12	89.03	
5,108.40	0.51	290.88	5,106.66	-68.95	-5.29	5.89	0.07	0.02	-7.18	
5,203.00	0.63	280.97	5,201.26	-68.70	-6.20	6.80	0.16	0.13	-10.48	
5,297.60	0.76	245.87	5,295.85	-68.86	-7.28	7.88	0.46	0.14	-37.10	
5,392.20	0.78	235.39	5,390.44	-69.48	-8.38	8.99	0.15	0.02	-11.08	
5,486.80	0.60	223.95	5,485.03	-70.20	-9.26	9.87	0.24	-0.19	-12.09	
5,581.40	0.67	185.38	5,579.63	-71.11	-9.65	10.27	0.45	0.07	-40.77	
5,676.00	0.93	181.04	5,674.22	-72.43	-9.72	10.35	0.28	0.27	-4.59	
5,770.60	0.93	173.09	5,768.81	-73.96	-9.64	10.28	0.14	0.00	-8.40	
5,865.20	1.54	140.60	5,863.39	-75.70	-8.74	9.40	0.96	0.64	-34.34	
6,028.00	1.70	101.80	6,026.13	-77.89	-4.99	5.67	0.67	0.10	-23.83	
6,139.00	3.96	256.51	6,137.06	-79.12	-7.11	7.79	5.00	2.04	139.38	
6,171.00	8.62	250.88	6,168.85	-80.16	-10.45	11.15	14.67	14.56	-17.59	
6,203.00	13.10	246.66	6,200.27	-82.39	-16.05	16.76	14.21	14.00	-13.19	
6,234.00	18.20	247.37	6,230.11	-85.64	-23.75	24.49	16.46	16.45	2.29	
6,266.00	22.51	246.49	6,260.11	-90.01	-33.98	34.76	13.50	13.47	-2.75	
6,297.00	26.20	244.03	6,288.35	-95.38	-45.58	46.41	12.34	11.90	-7.94	
6,329.00	28.93	244.55	6,316.71	-101.80	-58.92	59.81	8.56	8.53	1.63	
6,360.00	32.71	245.43	6,343.33	-108.51	-73.31	74.26	12.28	12.19	2.84	
6,392.00	36.76	242.80	6,369.62	-116.48	-89.70	90.71	13.49	12.66	-8.22	
6,424.00	40.54	246.84	6,394.61	-124.95	-107.79	108.87	14.20	11.81	12.63	
6,455.00	43.88	248.95	6,417.57	-132.78	-127.08	128.24	11.70	10.77	6.81	
6,487.00	48.10	251.41	6,439.80	-140.56	-148.73	149.95	14.30	13.19	7.69	
6,518.00	51.70	252.99	6,459.77	-147.80	-171.31	172.59	12.25	11.61	5.10	
6,550.00	55.84	253.69	6,478.68	-155.19	-196.03	197.38	13.06	12.94	2.19	
6,581.00	60.41	253.52	6,495.04	-162.62	-221.28	222.69	14.75	14.74	-0.55	
6,613.00	64.54	252.11	6,509.83	-171.01	-248.38	249.86	13.48	12.91	-4.41	
6,644.00	68.68	251.76	6,522.13	-179.83	-275.43	276.98	13.39	13.35	-1.13	
6,676.00	73.34	252.64	6,532.54	-189.08	-304.23	305.87	14.79	14.56	2.75	
6,707.00	77.73	252.29	6,540.28	-198.12	-332.85	334.56	14.20	14.16	-1.13	
6,739.00	81.95	251.06	6,545.93	-208.02	-362.74	364.54	13.72	13.19	-3.84	
6,773.00	86.35	249.30	6,549.39	-219.49	-394.55	396.45	13.93	12.94	-5.18	
6,805.00	89.69	248.77	6,550.50	-230.93	-424.41	426.40	10.57	10.44	-1.66	
6,836.00	90.57	248.77	6,550.43	-242.16	-453.30	455.40	2.84	2.84	0.00	
6,931.00	92.68	249.12	6,547.73	-276.27	-541.92	544.31	2.25	2.22	0.37	
7,026.00	91.19	248.77	6,544.53	-310.38	-630.52	633.20	1.61	-1.57	-0.37	
7,120.00	90.66	248.24	6,543.01	-344.82	-717.97	720.95	0.80	-0.56	-0.56	
7,215.00	90.22	250.00	6,542.28	-378.68	-806.73	810.00	1.91	-0.46	1.85	

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,309.00	89.96	251.76	6,542.13	-409.47	-895.54	899.07	1.89	-0.28	1.87
7,404.00	90.40	253.69	6,541.83	-437.67	-986.25	990.03	2.08	0.46	2.03
7,499.00	91.10	256.86	6,540.59	-461.82	-1,078.11	1,082.09	3.42	0.74	3.34
7,594.00	91.45	259.85	6,538.47	-480.99	-1,171.12	1,175.27	3.17	0.37	3.15
7,688.00	93.03	262.31	6,534.80	-495.55	-1,263.90	1,268.17	3.11	1.68	2.62
7,783.00	93.83	263.54	6,529.12	-507.23	-1,358.01	1,362.37	1.54	0.84	1.29
7,829.00	93.62	263.71	6,526.13	-512.33	-1,403.63	1,408.04	0.59	-0.46	0.37
HL Crossing: 7829' MD, 6526' TVD									
7,878.00	93.39	263.89	6,523.13	-517.61	-1,452.25	1,456.70	0.59	-0.46	0.37
7,972.00	91.28	264.42	6,519.31	-527.17	-1,545.68	1,550.21	2.31	-2.24	0.56
8,067.00	88.20	266.88	6,519.74	-534.38	-1,640.38	1,644.98	4.15	-3.24	2.59
8,161.00	86.97	269.34	6,523.70	-537.47	-1,734.24	1,738.86	2.92	-1.31	2.62
8,256.00	87.23	270.92	6,528.50	-537.26	-1,829.11	1,833.73	1.68	0.27	1.66
8,351.00	89.78	272.68	6,530.98	-534.28	-1,924.02	1,928.61	3.26	2.68	1.85
8,445.00	92.07	275.14	6,529.47	-527.87	-2,017.78	2,022.30	3.58	2.44	2.62
8,540.00	93.39	275.67	6,524.94	-518.93	-2,112.25	2,116.69	1.50	1.39	0.56
8,545.73	93.37	275.58	6,524.60	-518.37	-2,117.94	2,122.38	1.51	-0.28	-1.48
HL Crossing: 8546' MD, 6524' TVD									
8,635.00	93.12	274.26	6,519.55	-510.72	-2,206.74	2,211.10	1.51	-0.28	-1.48
8,730.00	92.68	271.27	6,514.74	-506.15	-2,301.49	2,305.81	3.18	-0.46	-3.15
8,824.00	93.03	270.04	6,510.06	-505.07	-2,395.37	2,399.68	1.36	0.37	-1.31
8,919.00	93.83	270.57	6,504.37	-504.57	-2,490.20	2,494.50	1.01	0.84	0.56
9,013.00	94.35	270.57	6,497.67	-503.64	-2,583.95	2,588.24	0.55	0.55	0.00
9,108.00	93.83	269.34	6,490.89	-503.71	-2,678.71	2,682.99	1.40	-0.55	-1.29
9,203.00	94.00	269.16	6,484.41	-504.95	-2,773.48	2,777.77	0.26	0.18	-0.19
9,297.00	93.03	268.11	6,478.64	-507.19	-2,867.27	2,871.58	1.52	-1.03	-1.12
9,392.00	90.92	267.05	6,475.37	-511.20	-2,962.12	2,966.46	2.49	-2.22	-1.12
9,487.00	91.45	267.05	6,473.40	-516.08	-3,056.98	3,061.36	0.56	0.56	0.00
9,581.00	90.75	268.11	6,471.60	-520.05	-3,150.87	3,155.28	1.35	-0.74	1.13
9,676.00	90.13	267.93	6,470.87	-523.33	-3,245.81	3,250.25	0.68	-0.65	-0.19
9,771.00	87.67	269.69	6,472.69	-525.31	-3,340.76	3,345.21	3.18	-2.59	1.85
9,865.00	88.29	269.69	6,476.01	-525.82	-3,434.70	3,439.15	0.66	0.66	0.00
9,875.88	88.31	269.73	6,476.33	-525.87	-3,445.58	3,450.03	0.41	0.18	0.37
T1(BFDU #56H)									
9,960.00	88.46	270.04	6,478.70	-526.04	-3,529.67	3,534.11	0.41	0.18	0.37
10,055.00	89.16	270.04	6,480.67	-525.97	-3,624.64	3,629.09	0.74	0.74	0.00
10,149.00	90.22	270.39	6,481.18	-525.62	-3,718.64	3,723.08	1.19	1.13	0.37
10,244.00	90.92	270.39	6,480.24	-524.97	-3,813.63	3,818.06	0.74	0.74	0.00
10,339.00	91.10	270.39	6,478.56	-524.33	-3,908.62	3,913.04	0.19	0.19	0.00
10,433.00	90.22	269.87	6,477.48	-524.11	-4,002.61	4,007.02	1.09	-0.94	-0.55
10,528.00	89.34	269.34	6,477.85	-524.77	-4,097.60	4,102.02	1.08	-0.93	-0.56
10,623.00	89.43	268.99	6,478.86	-526.15	-4,192.59	4,197.01	0.38	0.09	-0.37
10,717.00	89.52	268.81	6,479.73	-527.96	-4,286.57	4,291.00	0.21	0.10	-0.19

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,812.00	89.96	270.04	6,480.16	-528.91	-4,381.56	4,386.00	1.38	0.46	1.29
10,907.00	90.40	270.74	6,479.86	-528.26	-4,476.56	4,480.99	0.87	0.46	0.74
11,001.00	91.01	271.27	6,478.70	-526.62	-4,570.53	4,574.95	0.86	0.65	0.56
11,096.00	91.98	273.38	6,476.22	-522.76	-4,665.42	4,669.79	2.44	1.02	2.22
11,190.00	91.54	271.80	6,473.34	-518.52	-4,759.27	4,763.61	1.74	-0.47	-1.68
11,270.00	92.33	272.68	6,470.64	-515.39	-4,839.17	4,843.47	1.48	0.99	1.10
11,355.00	92.33	272.68	6,467.18	-511.42	-4,924.00	4,928.27	0.00	0.00	0.00
BHL(BFDU #56H) - PBHL(BFDU #56H)									

Design Targets									
Target Name:	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
SHL(BFDU #56H)	- actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	549,874.02	591,983.71	32° 30' 41.603 N 104° 10' 8.521 W
BHL(BFDU #56H)	- actual wellpath hits target center - Point	0.00	0.00	6,467.18	-511.42	-4,924.00	549,362.60	587,059.71	32° 30' 36.614 N 104° 11' 6.034 W
PBHL(BFDU #56H)	- actual wellpath misses target center by 26.60usft at 11355.00usft MD (6467.18 TVD, -511.42 N, -4924.00 E) - Rectangle (sides W31.00 H1,477.08 D20.00)	-0.25	269.50	6,470.00	-537.54	-4,928.17	549,336.48	587,055.54	32° 30' 36.356 N 104° 11' 6.084 W
T1(BFDU #56H)	- actual wellpath misses target center by 1.42usft at 9875.87usft MD (6476.33 TVD, -525.87 N, -3445.57 E) - Rectangle (sides W31.00 H3,028.98 D20.00)	-1.37	269.50	6,477.00	-524.62	-3,445.56	549,349.40	588,538.15	32° 30' 36.463 N 104° 10' 48.769 W

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
7,829.00	6,526.13	-512.33	-1,403.63	HL Crossing: 7829' MD, 6526' TVD
8,545.73	6,524.60	-518.37	-2,117.94	HL Crossing: 8546' MD, 6524' TVD

Checked By: _____	Approved By: _____	Date: _____
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LEAM Drilling Systems LLC

Survey Report - Geographic

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Burton Flat Deep Unit			
Site Position:		Northing:	548,073.21 usft	Latitude:	32° 30' 23.782
From:	Map	Easting:	592,066.43 usft	Longitude:	104° 10' 7.587 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	56H					
Well Position	+N/-S	0.00 usft	Northing:	549,874.02 usft	Latitude:	32° 30' 41.603
	+E/-W	0.00 usft	Easting:	591,983.71 usft	Longitude:	104° 10' 8.521
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,207.00 us

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/14/13	7.69	60.31	48,566

Design:		OH								
Audit Notes:										
Version:		1.0		Phase:	ACTUAL		Tie On Depth:		0.00	
Vertical Section:		Depth From (TVD)		+N/-S		+E/-W		Direction		
		(usft)		(usft)		(usft)		(°)		
		0.00		0.00		0.00		269.50		

Survey Program		Date: 02/19/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
189.20	6,028.00	Survey #4 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
6,139.00	11,270.00	Survey #5 (OH)	LEAM MWD	MWD - Standard
11,355.00	11,355.00	Survey #6 (OH)	Project	Projection

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	549,874.02	591,983.71	32° 30' 41.603 N	104° 10' 8.521
SHL(BFDU #56H)									
189.20	0.71	95.22	189.20	-0.11	1.17	549,873.92	591,984.88	32° 30' 41.602 N	104° 10' 8.507
283.80	1.38	95.40	283.78	-0.27	2.89	549,873.76	591,986.60	32° 30' 41.601 N	104° 10' 8.487
378.40	1.46	91.92	378.35	-0.41	5.22	549,873.61	591,988.94	32° 30' 41.599 N	104° 10' 8.460
473.00	1.92	99.80	472.91	-0.72	7.99	549,873.30	591,991.70	32° 30' 41.596 N	104° 10' 8.427
567.60	1.56	92.28	567.46	-1.05	10.84	549,872.98	591,994.55	32° 30' 41.593 N	104° 10' 8.394
662.20	1.16	89.97	662.04	-1.10	13.08	549,872.93	591,996.80	32° 30' 41.592 N	104° 10' 8.368

LEAM Drilling Systems LLC

Survey Report - Geographic

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
756.80	1.07	64.03	756.62	-0.71	14.83	549,873.31	591,998.55	32° 30' 41.596 N	104° 10' 8.347 W
851.40	0.84	49.02	851.21	0.13	16.15	549,874.15	591,999.86	32° 30' 41.605 N	104° 10' 8.332 W
946.00	0.33	140.83	945.80	0.38	16.85	549,874.40	592,000.56	32° 30' 41.607 N	104° 10' 8.324 W
1,040.60	0.34	350.96	1,040.40	0.44	16.98	549,874.46	592,000.69	32° 30' 41.608 N	104° 10' 8.322 W
1,135.20	0.16	314.50	1,135.00	0.81	16.84	549,874.83	592,000.55	32° 30' 41.611 N	104° 10' 8.324 W
1,229.80	0.19	34.76	1,229.60	1.03	16.83	549,875.06	592,000.55	32° 30' 41.613 N	104° 10' 8.324 W
1,324.40	0.15	110.67	1,324.20	1.12	17.04	549,875.14	592,000.75	32° 30' 41.614 N	104° 10' 8.322 W
1,419.00	1.17	119.82	1,418.79	0.59	17.99	549,874.62	592,001.70	32° 30' 41.609 N	104° 10' 8.311 W
1,513.60	1.84	135.65	1,513.36	-0.97	19.89	549,873.05	592,003.60	32° 30' 41.594 N	104° 10' 8.288 W
1,608.20	1.46	140.96	1,607.92	-2.99	21.71	549,871.03	592,005.42	32° 30' 41.574 N	104° 10' 8.267 W
1,702.80	1.10	138.34	1,702.50	-4.61	23.07	549,869.41	592,006.79	32° 30' 41.558 N	104° 10' 8.251 W
1,797.40	1.10	137.08	1,797.08	-5.95	24.30	549,868.07	592,008.01	32° 30' 41.544 N	104° 10' 8.237 W
1,892.00	1.10	139.16	1,891.66	-7.30	25.51	549,866.72	592,009.22	32° 30' 41.531 N	104° 10' 8.223 W
1,986.60	1.03	150.50	1,986.25	-8.73	26.52	549,865.29	592,010.23	32° 30' 41.517 N	104° 10' 8.211 W
2,081.20	0.96	165.34	2,080.83	-10.24	27.14	549,863.78	592,010.85	32° 30' 41.502 N	104° 10' 8.204 W
2,175.80	0.86	169.62	2,175.42	-11.70	27.47	549,862.32	592,011.18	32° 30' 41.487 N	104° 10' 8.200 W
2,270.40	0.76	269.60	2,270.02	-12.41	26.97	549,861.62	592,010.68	32° 30' 41.480 N	104° 10' 8.206 W
2,365.00	0.54	168.38	2,364.61	-12.85	26.43	549,861.18	592,010.14	32° 30' 41.476 N	104° 10' 8.212 W
2,459.60	0.34	158.73	2,459.21	-13.54	26.62	549,860.48	592,010.34	32° 30' 41.469 N	104° 10' 8.210 W
2,554.20	0.47	170.60	2,553.81	-14.19	26.79	549,859.83	592,010.50	32° 30' 41.463 N	104° 10' 8.208 W
2,648.80	0.61	181.08	2,648.40	-15.08	26.84	549,858.95	592,010.56	32° 30' 41.454 N	104° 10' 8.207 W
2,743.40	0.81	208.66	2,743.00	-16.17	26.51	549,857.86	592,010.23	32° 30' 41.443 N	104° 10' 8.211 W
2,838.00	2.31	202.55	2,837.56	-18.51	25.46	549,855.51	592,009.17	32° 30' 41.420 N	104° 10' 8.224 W
2,932.60	2.63	201.80	2,932.07	-22.29	23.92	549,851.73	592,007.64	32° 30' 41.383 N	104° 10' 8.242 W
3,027.20	2.27	197.08	3,026.58	-26.10	22.57	549,847.93	592,006.28	32° 30' 41.345 N	104° 10' 8.258 W
3,121.80	3.52	198.89	3,121.06	-30.63	21.08	549,843.39	592,004.79	32° 30' 41.300 N	104° 10' 8.275 W
3,216.40	3.14	201.95	3,215.50	-35.78	19.17	549,838.24	592,002.88	32° 30' 41.249 N	104° 10' 8.297 W
3,311.00	2.99	200.44	3,309.97	-40.50	17.34	549,833.52	592,001.05	32° 30' 41.202 N	104° 10' 8.319 W
3,405.60	2.85	210.77	3,404.44	-44.83	15.27	549,829.19	591,998.99	32° 30' 41.160 N	104° 10' 8.343 W
3,500.20	2.68	213.62	3,498.93	-48.69	12.84	549,825.33	591,996.56	32° 30' 41.121 N	104° 10' 8.372 W
3,594.80	2.71	221.58	3,593.43	-52.21	10.14	549,821.81	591,993.85	32° 30' 41.087 N	104° 10' 8.403 W
3,689.40	2.65	222.81	3,687.93	-55.49	7.17	549,818.54	591,990.88	32° 30' 41.054 N	104° 10' 8.438 W
3,784.00	2.87	220.56	3,782.42	-58.89	4.14	549,815.13	591,987.85	32° 30' 41.021 N	104° 10' 8.473 W
3,878.60	1.38	207.14	3,876.95	-61.70	2.08	549,812.32	591,985.79	32° 30' 40.993 N	104° 10' 8.497 W
3,973.20	1.21	225.99	3,971.52	-63.41	0.84	549,810.61	591,984.56	32° 30' 40.976 N	104° 10' 8.512 W
4,067.80	1.51	225.80	4,066.10	-64.97	-0.77	549,809.05	591,982.94	32° 30' 40.961 N	104° 10' 8.531 W
4,162.40	0.43	205.36	4,160.68	-66.16	-1.82	549,807.86	591,981.90	32° 30' 40.949 N	104° 10' 8.543 W
4,257.00	0.39	156.04	4,255.28	-66.78	-1.84	549,807.24	591,981.88	32° 30' 40.943 N	104° 10' 8.543 W
4,351.60	0.55	182.46	4,349.88	-67.53	-1.73	549,806.50	591,981.99	32° 30' 40.935 N	104° 10' 8.542 W
4,446.20	0.24	219.35	4,444.48	-68.13	-1.87	549,805.89	591,981.84	32° 30' 40.929 N	104° 10' 8.544 W
4,540.80	0.14	190.05	4,539.07	-68.40	-2.02	549,805.62	591,981.70	32° 30' 40.927 N	104° 10' 8.545 W
4,635.40	0.39	220.29	4,633.67	-68.76	-2.25	549,805.26	591,981.47	32° 30' 40.923 N	104° 10' 8.548 W
4,730.00	0.56	273.45	4,728.27	-68.98	-2.91	549,805.04	591,980.80	32° 30' 40.921 N	104° 10' 8.556 W
4,824.60	0.28	269.68	4,822.87	-68.95	-3.61	549,805.07	591,980.11	32° 30' 40.921 N	104° 10' 8.564 W
4,919.20	0.38	213.45	4,917.47	-69.21	-4.01	549,804.81	591,979.70	32° 30' 40.919 N	104° 10' 8.569 W
5,013.80	0.49	297.67	5,012.07	-69.29	-4.54	549,804.73	591,979.17	32° 30' 40.918 N	104° 10' 8.575 W
5,108.40	0.51	290.88	5,106.66	-68.95	-5.29	549,805.07	591,978.42	32° 30' 40.921 N	104° 10' 8.584 W
5,203.00	0.63	280.97	5,201.26	-68.70	-6.20	549,805.32	591,977.52	32° 30' 40.924 N	104° 10' 8.594 W
5,297.60	0.76	245.87	5,295.85	-68.86	-7.28	549,805.16	591,976.43	32° 30' 40.922 N	104° 10' 8.607 W
5,392.20	0.78	235.39	5,390.44	-69.48	-8.38	549,804.54	591,975.33	32° 30' 40.916 N	104° 10' 8.620 W
5,486.80	0.60	223.95	5,485.03	-70.20	-9.26	549,803.82	591,974.46	32° 30' 40.909 N	104° 10' 8.630 W
5,581.40	0.67	185.38	5,579.63	-71.11	-9.65	549,802.91	591,974.06	32° 30' 40.900 N	104° 10' 8.635 W
5,676.00	0.93	181.04	5,674.22	-72.43	-9.72	549,801.59	591,973.99	32° 30' 40.887 N	104° 10' 8.635 W

LEAM Drilling Systems LLC

Survey Report - Geographic

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,770.60	0.93	173.09	5,768.81	-73.96	-9.64	549,800.06	591,974.07	32° 30' 40.872 N	104° 10' 8.635 W
5,865.20	1.54	140.60	5,863.39	-75.70	-8.74	549,798.32	591,974.97	32° 30' 40.854 N	104° 10' 8.624 W
6,028.00	1.70	101.80	6,026.13	-77.89	-4.99	549,796.14	591,978.72	32° 30' 40.833 N	104° 10' 8.580 W
6,139.00	3.96	256.51	6,137.06	-79.12	-7.11	549,794.90	591,976.61	32° 30' 40.821 N	104° 10' 8.605 W
6,171.00	8.62	250.88	6,168.85	-80.16	-10.45	549,793.86	591,973.27	32° 30' 40.810 N	104° 10' 8.644 W
6,203.00	13.10	246.66	6,200.27	-82.39	-16.05	549,791.64	591,967.67	32° 30' 40.788 N	104° 10' 8.710 W
6,234.00	18.20	247.37	6,230.11	-85.64	-23.75	549,788.38	591,959.97	32° 30' 40.756 N	104° 10' 8.799 W
6,266.00	22.51	246.49	6,260.11	-90.01	-33.98	549,784.01	591,949.73	32° 30' 40.713 N	104° 10' 8.919 W
6,297.00	26.20	244.03	6,288.35	-95.38	-45.58	549,778.65	591,938.13	32° 30' 40.660 N	104° 10' 9.055 W
6,329.00	28.93	244.55	6,316.71	-101.80	-58.92	549,772.22	591,924.79	32° 30' 40.597 N	104° 10' 9.211 W
6,360.00	32.71	245.43	6,343.33	-108.51	-73.31	549,765.52	591,910.40	32° 30' 40.531 N	104° 10' 9.379 W
6,392.00	36.76	242.80	6,369.62	-116.48	-89.70	549,757.54	591,894.01	32° 30' 40.452 N	104° 10' 9.570 W
6,424.00	40.54	246.84	6,394.61	-124.95	-107.79	549,749.07	591,875.92	32° 30' 40.369 N	104° 10' 9.782 W
6,455.00	43.88	248.95	6,417.57	-132.78	-127.08	549,741.25	591,856.63	32° 30' 40.291 N	104° 10' 10.007 W
6,487.00	48.10	251.41	6,439.80	-140.56	-148.73	549,733.46	591,834.98	32° 30' 40.215 N	104° 10' 10.260 W
6,518.00	51.70	252.99	6,459.77	-147.80	-171.31	549,726.22	591,812.40	32° 30' 40.144 N	104° 10' 10.524 W
6,550.00	55.84	253.69	6,478.68	-155.19	-196.03	549,718.83	591,787.68	32° 30' 40.071 N	104° 10' 10.813 W
6,581.00	60.41	253.52	6,495.04	-162.62	-221.28	549,711.40	591,762.43	32° 30' 39.998 N	104° 10' 11.108 W
6,613.00	64.54	252.11	6,509.83	-171.01	-248.38	549,703.01	591,735.33	32° 30' 39.915 N	104° 10' 11.424 W
6,644.00	68.68	251.76	6,522.13	-179.83	-275.43	549,694.19	591,708.29	32° 30' 39.828 N	104° 10' 11.740 W
6,676.00	73.34	252.64	6,532.54	-189.08	-304.23	549,684.94	591,679.48	32° 30' 39.737 N	104° 10' 12.077 W
6,707.00	77.73	252.29	6,540.28	-198.12	-332.85	549,675.90	591,650.87	32° 30' 39.648 N	104° 10' 12.411 W
6,739.00	81.95	251.06	6,545.93	-208.02	-362.74	549,666.00	591,620.97	32° 30' 39.550 N	104° 10' 12.761 W
6,773.00	86.35	249.30	6,549.39	-219.49	-394.55	549,654.53	591,589.17	32° 30' 39.437 N	104° 10' 13.132 W
6,805.00	89.69	248.77	6,550.50	-230.93	-424.41	549,643.09	591,559.31	32° 30' 39.325 N	104° 10' 13.481 W
6,836.00	90.57	248.77	6,550.43	-242.16	-453.30	549,631.86	591,530.41	32° 30' 39.214 N	104° 10' 13.819 W
6,931.00	92.68	249.12	6,547.73	-276.27	-541.92	549,597.75	591,441.79	32° 30' 38.878 N	104° 10' 14.854 W
7,026.00	91.19	248.77	6,544.53	-310.38	-630.52	549,563.64	591,353.19	32° 30' 38.542 N	104° 10' 15.890 W
7,120.00	90.66	248.24	6,543.01	-344.82	-717.97	549,529.20	591,265.74	32° 30' 38.202 N	104° 10' 16.912 W
7,215.00	90.22	250.00	6,542.28	-378.68	-806.73	549,495.35	591,176.98	32° 30' 37.868 N	104° 10' 17.949 W
7,309.00	89.96	251.76	6,542.13	-409.47	-895.54	549,464.56	591,088.17	32° 30' 37.565 N	104° 10' 18.987 W
7,404.00	90.40	253.69	6,541.83	-437.67	-986.25	549,436.35	590,997.46	32° 30' 37.287 N	104° 10' 20.046 W
7,499.00	91.10	256.86	6,540.59	-461.82	-1,078.11	549,412.21	590,905.60	32° 30' 37.050 N	104° 10' 21.120 W
7,594.00	91.45	259.85	6,538.47	-480.99	-1,171.12	549,393.04	590,812.59	32° 30' 36.861 N	104° 10' 22.206 W
7,688.00	93.03	262.31	6,534.80	-495.55	-1,263.90	549,378.47	590,719.81	32° 30' 36.719 N	104° 10' 23.290 W
7,783.00	93.83	263.54	6,529.12	-507.23	-1,358.01	549,366.79	590,625.71	32° 30' 36.605 N	104° 10' 24.389 W
7,829.00	93.62	263.71	6,526.13	-512.33	-1,403.63	549,361.70	590,580.09	32° 30' 36.555 N	104° 10' 24.922 W
HL Crossing: 7829' MD, 6526' TVD									
7,878.00	93.39	263.89	6,523.13	-517.61	-1,452.25	549,356.41	590,531.46	32° 30' 36.503 N	104° 10' 25.490 W
7,972.00	91.28	264.42	6,519.31	-527.17	-1,545.68	549,346.85	590,438.04	32° 30' 36.410 N	104° 10' 26.581 W
8,067.00	88.20	266.88	6,519.74	-534.38	-1,640.38	549,339.65	590,343.33	32° 30' 36.340 N	104° 10' 27.687 W
8,161.00	86.97	269.34	6,523.70	-537.47	-1,734.24	549,336.55	590,249.47	32° 30' 36.311 N	104° 10' 28.783 W
8,256.00	87.23	270.92	6,528.50	-537.26	-1,829.11	549,336.76	590,154.60	32° 30' 36.314 N	104° 10' 29.891 W
8,351.00	89.78	272.68	6,530.98	-534.28	-1,924.02	549,339.75	590,059.69	32° 30' 36.345 N	104° 10' 31.000 W
8,445.00	92.07	275.14	6,529.47	-527.87	-2,017.78	549,346.15	589,965.93	32° 30' 36.410 N	104° 10' 32.095 W
8,540.00	93.39	275.67	6,524.94	-518.93	-2,112.25	549,355.09	589,871.47	32° 30' 36.500 N	104° 10' 33.198 W
8,545.73	93.37	275.58	6,524.60	-518.37	-2,117.94	549,355.65	589,865.77	32° 30' 36.506 N	104° 10' 33.264 W
HL Crossing: 8546' MD, 6524' TVD									
8,635.00	93.12	274.26	6,519.55	-510.72	-2,206.74	549,363.30	589,776.98	32° 30' 36.582 N	104° 10' 34.301 W
8,730.00	92.68	271.27	6,514.74	-506.15	-2,301.49	549,367.88	589,682.22	32° 30' 36.629 N	104° 10' 35.408 W
8,824.00	93.03	270.04	6,510.06	-505.07	-2,395.37	549,368.95	589,588.35	32° 30' 36.641 N	104° 10' 36.504 W
8,919.00	93.83	270.57	6,504.37	-504.57	-2,490.20	549,369.45	589,493.52	32° 30' 36.648 N	104° 10' 37.611 W
9,013.00	94.35	270.57	6,497.67	-503.64	-2,583.95	549,370.39	589,399.76	32° 30' 36.658 N	104° 10' 38.706 W

LEAM Drilling Systems LLC

Survey Report - Geographic

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,108.00	93.83	269.34	6,490.89	-503.71	-2,678.71	549,370.31	589,305.01	32° 30' 36.659 N	104° 10' 39.813 W
9,203.00	94.00	269.16	6,484.41	-504.95	-2,773.48	549,369.07	589,210.24	32° 30' 36.648 N	104° 10' 40.920 W
9,297.00	93.03	268.11	6,478.64	-507.19	-2,867.27	549,366.84	589,116.44	32° 30' 36.627 N	104° 10' 42.015 W
9,392.00	90.92	267.05	6,475.37	-511.20	-2,962.12	549,362.83	589,021.59	32° 30' 36.589 N	104° 10' 43.123 W
9,487.00	91.45	267.05	6,473.40	-516.08	-3,056.98	549,357.94	588,926.74	32° 30' 36.542 N	104° 10' 44.231 W
9,581.00	90.75	268.11	6,471.60	-520.05	-3,150.87	549,353.97	588,832.84	32° 30' 36.504 N	104° 10' 45.327 W
9,676.00	90.13	267.93	6,470.87	-523.33	-3,245.81	549,350.69	588,737.90	32° 30' 36.473 N	104° 10' 46.436 W
9,771.00	87.67	269.69	6,472.69	-525.31	-3,340.76	549,348.72	588,642.95	32° 30' 36.455 N	104° 10' 47.545 W
9,865.00	88.29	269.69	6,476.01	-525.82	-3,434.70	549,348.21	588,549.01	32° 30' 36.451 N	104° 10' 48.642 W
9,875.88	88.31	269.73	6,476.33	-525.87	-3,445.58	549,348.15	588,538.14	32° 30' 36.450 N	104° 10' 48.769 W
T1(BFDU #56H)									
9,960.00	88.46	270.04	6,478.70	-526.04	-3,529.67	549,347.98	588,454.05	32° 30' 36.450 N	104° 10' 49.751 W
10,055.00	89.16	270.04	6,480.67	-525.97	-3,624.64	549,348.05	588,359.07	32° 30' 36.452 N	104° 10' 50.860 W
10,149.00	90.22	270.39	6,481.18	-525.62	-3,718.64	549,348.40	588,265.07	32° 30' 36.457 N	104° 10' 51.958 W
10,244.00	90.92	270.39	6,480.24	-524.97	-3,813.63	549,349.05	588,170.08	32° 30' 36.465 N	104° 10' 53.067 W
10,339.00	91.10	270.39	6,478.56	-524.33	-3,908.62	549,349.70	588,075.10	32° 30' 36.472 N	104° 10' 54.177 W
10,433.00	90.22	269.87	6,477.48	-524.11	-4,002.61	549,349.91	587,981.10	32° 30' 36.476 N	104° 10' 55.274 W
10,528.00	89.34	269.34	6,477.85	-524.77	-4,097.60	549,349.25	587,886.11	32° 30' 36.471 N	104° 10' 56.384 W
10,623.00	89.43	268.99	6,478.86	-526.15	-4,192.59	549,347.87	587,791.12	32° 30' 36.458 N	104° 10' 57.493 W
10,717.00	89.52	268.81	6,479.73	-527.96	-4,286.57	549,346.06	587,697.15	32° 30' 36.442 N	104° 10' 58.590 W
10,812.00	89.96	270.04	6,480.16	-528.91	-4,381.56	549,345.11	587,602.15	32° 30' 36.434 N	104° 10' 59.700 W
10,907.00	90.40	270.74	6,479.86	-528.26	-4,476.56	549,345.76	587,507.16	32° 30' 36.441 N	104° 11' 0.809 W
11,001.00	91.01	271.27	6,478.70	-526.62	-4,570.53	549,347.41	587,413.18	32° 30' 36.459 N	104° 11' 1.907 W
11,096.00	91.98	273.38	6,476.22	-522.76	-4,665.42	549,351.26	587,318.30	32° 30' 36.498 N	104° 11' 3.015 W
11,190.00	91.54	271.80	6,473.34	-518.52	-4,759.27	549,355.50	587,224.44	32° 30' 36.542 N	104° 11' 4.111 W
11,270.00	92.33	272.68	6,470.64	-515.39	-4,839.17	549,358.63	587,144.55	32° 30' 36.574 N	104° 11' 5.044 W
11,355.00	92.33	272.68	6,467.18	-511.42	-4,924.00	549,362.60	587,059.71	32° 30' 36.614 N	104° 11' 6.034 W
BHL(BFDU #56H) - PBHL(BFDU #56H)									

Design Targets									
Target Name	hit/miss target Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
SHL(BFDU #56H)	- actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	549,874.02	591,983.71	32° 30' 41.603 N 104° 10' 8.521 W
BHL(BFDU #56H)	- actual wellpath hits target center - Point	0.00	0.00	6,467.18	-511.42	-4,924.00	549,362.60	587,059.71	32° 30' 36.614 N 104° 11' 6.034 W
PBHL(BFDU #56H)	- actual wellpath misses target center by 26.60usft at 11355.00usft MD (6467.18 TVD, -511.42 N, -4924.00 E) - Rectangle (sides W31.00 H1,477.08 D20.00)	-0.25	269.50	6,470.00	-537.54	-4,928.17	549,336.48	587,055.54	32° 30' 36.356 N 104° 11' 6.084 W
T1(BFDU #56H)	- actual wellpath misses target center by 1.42usft at 9875.87usft MD (6476.33 TVD, -525.87 N, -3445.57 E) - Rectangle (sides W31.00 H3,028.98 D20.00)	-1.37	269.50	6,477.00	-524.62	-3,445.56	549,349.40	588,538.15	32° 30' 36.463 N 104° 10' 48.769 W

LEAM Drilling Systems LLC

Survey Report - Geographic

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well-56H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3207' + KB 25' @ 3232.00usft (Original Well Elev)
Well:	56H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,829.00	6,526.13	-512.33	-1,403.63	HL Crossing: 7829' MD, 6526' TVD
8,545.73	6,524.60	-518.37	-2,117.94	HL Crossing: 8546' MD, 6524' TVD

Checked By: _____	Approved By: _____	Date: _____
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