

Stryker Directional Survey Report

15-42696

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2DA State Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H	MD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Well:	Bradley 36 B2DA State Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
11,039.0	89.00	92.90	8,127.2	-77.3	3,160.3	3,161.2	1.19	-1.06	-0.53
11,134.0	88.20	92.80	8,129.6	-82.0	3,255.2	3,256.2	0.85	-0.84	-0.11
11,229.0	87.30	92.60	8,133.3	-86.5	3,350.0	3,351.1	0.97	-0.95	-0.21
11,324.0	88.20	92.10	8,137.0	-90.4	3,444.9	3,446.0	1.08	0.95	-0.53
11,419.0	89.90	92.50	8,138.6	-94.2	3,539.8	3,540.9	1.84	1.79	0.42
11,514.0	90.10	92.90	8,138.6	-98.7	3,634.7	3,635.9	0.47	0.21	0.42
11,610.0	90.00	93.00	8,138.5	-103.6	3,730.5	3,731.8	0.15	-0.10	0.10
11,704.0	89.60	90.70	8,138.8	-106.6	3,824.5	3,825.8	2.48	-0.43	-2.45
11,798.0	89.10	90.50	8,139.9	-107.6	3,918.5	3,919.8	0.57	-0.53	-0.21
11,891.0	88.70	90.10	8,141.7	-108.1	4,011.4	4,012.8	0.61	-0.43	-0.43
11,987.0	90.40	89.30	8,142.4	-107.6	4,107.4	4,108.8	1.96	1.77	-0.83
12,082.0	90.50	88.60	8,141.7	-105.9	4,202.4	4,203.7	0.74	0.11	-0.74
12,177.0	89.20	90.20	8,141.9	-104.9	4,297.4	4,298.6	2.17	-1.37	1.68
12,272.0	86.90	90.10	8,145.2	-105.1	4,392.3	4,393.6	2.42	-2.42	-0.11
12,367.0	86.60	89.80	8,150.6	-105.0	4,487.2	4,488.4	0.45	-0.32	-0.32
12,462.0	89.30	88.60	8,154.0	-103.7	4,582.1	4,583.3	3.11	2.84	-1.26
12,557.0	86.90	88.50	8,157.1	-101.3	4,677.0	4,678.1	2.53	-2.53	-0.11
12,583.0	86.90	88.50	8,158.5	-100.6	4,703.0	4,704.0	0.00	0.00	0.00
12,640.0	87.00	88.50	8,161.5	-99.1	4,759.9	4,760.9	0.18	0.18	0.00
12640' MD Projected to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,448.0	7,446.2	68.1	-51.0	7448' MD MS Gyro
12,640.0	8,161.5	-99.1	4,759.9	12640' MD Projected to Bit

Operating Company Mewbourne
Well Name & Number Bradley 36 B2DA-1H
Sales Ticket Number 4707060
Date 12/29/2014

Company Rep Josh / Brian /
Field Santo Nino
BOT Service Rep charles mosley
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,474.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	5,500.00	12,410	10,680
Bott Liner										
TVD	8,156.00			KOP	7,748.00		Open Hole	6.125	Casing Vol. (bbl)	313.8
Carry Fluid Weight (ppg)	8.4			Propant Content (ppa)				Max Drill Out Size	0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
Liner Top	1	10292414	JR Setting Sleeve_RH Profile	8200.67	4.00	5.750	4.000			

Zone Length										
20	H409400008	S3 Liner Hanger Packer	8204.67	4.63	5.813	3.875				
		4-1/2-13.5# LTC Nipple & Collar	8209.30	7.59	5.000	3.920				
		6 Joints of 4-1/2-13.5 LTC Casing	8216.89	251.85	4.500	3.920				
	20	3.500" EX Frac Sleeve	8468.74	2.40	5.750		3.525	2286	310	314
		2 Joint of 4-1/2-13.5 LTC Casing	8471.14	84.23	4.500	3.920				
19		Baker Open Hole Packer	8555.37	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	8559.26	125.91	4.500	3.920				
	19	3.438" EX Frac Sleeve	8685.17	2.40	5.750		3.400	2286	289	314
		2 Joint of 4-1/2-13.5 LTC Casing	8687.57	84.05	4.500	3.920				
		Baker Open Hole Packer	8771.62	3.89	5.820	3.875		2154		
18		3 Joints of 4-1/2-13.5 LTC Casing	8775.51	126.43	4.500	3.920				
	18	3.375" EX Frac Sleeve	8901.94	2.40	5.750		3.275	2286	268	314
		2 Joint of 4-1/2-13.5 LTC Casing	8904.34	84.49	4.500	3.920				
		Baker Open Hole Packer	8988.83	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	8992.72	126.29	4.500	3.920				
17	17	3.313" EX Frac Sleeve	9119.01	2.40	5.750		3.150	2286	248	314
		2 Joint of 4-1/2-13.5 LTC Casing	9121.41	83.50	4.500	3.920				
		Baker Open Hole Packer	9204.91	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9208.80	125.16	4.500	3.920				
	16	3.250" EX Frac Sleeve	9333.96	2.40	5.750		3.025	2286	228	314
16		2 Joints of 4-1/2-13.5 LTC Casing	9336.36	84.69	4.500	3.920				
		Baker Open Hole Packer	9421.05	3.89	5.820	3.875		2154		

Operating Company Mewbourne
Well Name & Number Bradley 36 B2DA-1H
Sales Ticket Number 4707060
Date 12/29/2014

Company Rep Josh / Brian /
Field Santo Nino
BOT Service Rep charles mosley
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,474.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	5,500.00	12,410	10,680	
Bott Liner											
TVD		8,156.00		KOP		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	313.8
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
15		3 Joints of 4-1/2-13.5 LTC Casing	9424.94	124.67	4.500	3.920				
	15	3.188" EX Frac sleeve	9549.61	2.40	5.750		2.900	2286	210	314
		2 Joint of 4-1/2-13.5 LTC Casing	9552.01	84.58	4.500	3.920				
14		Baker Open Hole Packer	9636.59	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9640.48	125.15	4.500	3.920				
	14	3.125" EX Frac Sleeve	9765.63	2.40	5.750		2.775	2286	192	314
13		2 Joints of 4-1/2-13.5 LTC Casing	9768.03	84.50	4.500	3.920				
		Baker Open Hole Packer	9852.53	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9856.42	126.59	4.500	3.920				
12	13	3.063" EX Frac Sleeve	9983.01	2.40	5.750		2.650	2286	175	314
		2 Joint of 4-1/2-13.5 LTC Casing	9985.41	84.78	4.500	3.920				
		Baker Open Hole Packer	10070.19	3.89	5.820	3.875		2154		
11		3 Joints of 4-1/2-13.5 LTC Casing	10074.08	126.07	4.500	3.920				
	12	3.00" EX Frac Sleeve	10200.15	2.40	5.750		2.525	2286	159	314
		2 Joints of 4-1/2-13.5 LTC Casing	10202.55	84.58	4.500	3.920				
10		Baker Open Hole Packer	10287.13	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10291.02	126.83	4.500	3.920				
	11	2.938" EX Frac Sleeve	10417.85	2.40	5.750		2.400	2286	144	314
9		3 Joint of 4-1/2-13.5 LTC Casing	10420.25	121.22	4.500	3.920				
		Baker Open Hole Packer	10541.47	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10545.36	118.94	4.500	3.920				
	10	2.875" EX Frac Sleeve	10664.30	2.40	5.750		2.275	2286	129	314
		2 Joints of 4-1/2-13.5 LTC Casing	10666.70	84.22	4.500	3.920				
		Baker Open Hole Packer	10750.92	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10754.81	126.51	4.500	3.920				
	9	2.813" EX Frac Sleeve	10881.32	2.40	5.750		2.150	2286	115	314

Operating Company Mewbourne
 Well Name & Number Bradley.36 B2DA-1H
 Sales Ticket Number 4707060
 Date 12/29/2014

Company Rep Josh / Brian /
 Field Santo Nino
 BOT Service Rep charles mosley
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,474.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	5,500.00	12,410	10,680	
Bott Liner											
TVD		8,156.00		KOP		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	313.8
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ. (BBL)
8		2 Joints of 4-1/2-13.5 LTC Casing	10883.72	84.04	4.500	3.920				
		Baker Open Hole Packer	10967.76	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10971.65	127.11	4.500	3.920				
	8	2.750" EX Frac Sleeve	11098.76	2.40	5.750		2.025	2286	102	314
		2 Joints of 4-1/2-13.5 LTC Casing	11101.16	84.43	4.500	3.920				
		Baker Open Hole Packer	11185.59	3.89	5.820	3.875		2154		
7		3 Joint of 4-1/2-13.5 LTC Casing	11189.48	126.72	4.500	3.920				
	7	2.688" EX Frac Sleeve	11316.20	2.40	5.750		1.900	2286	90	314
		2 Joints of 4-1/2-13.5 LTC Casing	11318.60	82.99	4.500	3.920				
		Baker Open Hole Packer	11401.59	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	11405.48	126.60	4.500	3.920				
	6	2.625" EX Frac Sleeve	11532.08	2.40	5.750		1.775	2286	79	314
6		2 Joints of 4-1/2-13.5 LTC Casing	11534.48	84.52	4.500	3.920				
		Baker Open Hole Packer	11619.00	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	11622.89	126.58	4.500	3.920				
	5	2.563" EX Frac Sleeve	11749.47	2.40	5.750		1.650	2286	68	314
		2 Joint of 4-1/2-13.5 LTC Casing	11751.87	84.28	4.500	3.920				
		Baker Open Hole Packer	11836.15	3.89	5.820	3.875		2154		
5		3 Joints of 4-1/2-13.5 LTC Casing	11840.04	125.64	4.500	3.920				
	4	2.500" EX Frac Sleeve	11965.68	2.40	5.750		1.525	2286	58	314
		2 Joints of 4-1/2-13.5 LTC Casing	11968.08	83.92	4.500	3.920				
		Baker Open Hole Packer	12052.00	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	12055.89	126.87	4.500	3.920				
	3	2.438" EX Frac Sleeve	12182.76	2.40	5.750		1.400	2286	49	314
3		2 Joint of 4-1/2-13.5 LTC Casing	12185.16	83.82	5.000	3.920				
		Baker Open Hole Packer	12268.98	3.89	5.820	3.875		2154		

Company Rep	Josh / Brian /
Field	Santo Nino
BOT Service Rep	charles mosley
District Location	Odessa, Texas, USA

[illegible]



Job Number: SVMO-141721
 Company: Mewbourne Oil & Gas
 Lease/Well: Bradely 36 B2DA State Com 001
 Location: Eddy County, NM
 Rig Name: Patterson #41
 RKB: 16.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.28°
 Grid: East To Grid North
 File name: Y:\WINSER~1\2014SU~1\MEWBOU~1\MO\BRADELY\36B2DA~1\001.SVY
 Date/Time: 23-Dec-14 / 12:23
 Curve Name: Surface - 7448' M.D. (Rate Gyro)

MS Survey

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 7448' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Clayton Turner 12/23/14
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.70	325.52	100.00	.50	-.35	.50	.61	325.52	.70
200.00	1.43	329.02	199.98	2.08	-1.33	2.08	2.47	327.29	.73
300.00	1.49	339.87	299.95	4.37	-2.42	4.37	4.99	330.97	.28
400.00	1.63	357.89	399.91	7.01	-2.92	7.01	7.59	337.36	.51
500.00	1.78	355.05	499.87	9.98	-3.11	9.98	10.45	342.69	.17
600.00	1.97	353.27	599.81	13.23	-3.45	13.23	13.67	345.41	.20
700.00	1.97	353.33	699.75	16.65	-3.85	16.65	17.08	346.99	.00
800.00	2.25	10.89	799.69	20.28	-3.68	20.28	20.61	349.73	.70
900.00	2.45	20.67	899.60	24.21	-2.55	24.21	24.34	353.99	.45

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	2.68	24.64	999.50	28.33	-.82	28.33	28.35	358.34	.29
1100.00	2.63	20.05	1099.40	32.61	.94	32.61	32.63	1.65	.22
1200.00	2.36	13.63	1199.30	36.77	2.21	36.77	36.84	3.44	.39
1300.00	1.84	4.43	1299.23	40.37	2.82	40.37	40.47	4.00	.62
1400.00	1.63	357.32	1399.19	43.39	2.88	43.39	43.49	3.80	.30
1500.00	1.54	353.03	1499.15	46.15	2.65	46.15	46.22	3.29	.15
1600.00	1.36	348.03	1599.12	48.64	2.24	48.64	48.69	2.64	.22
1700.00	1.17	343.37	1699.09	50.78	1.70	50.78	50.81	1.92	.22
1800.00	1.09	346.31	1799.07	52.68	1.18	52.68	52.70	1.29	.10
1900.00	1.07	347.80	1899.06	54.52	.76	54.52	54.53	.80	.03
2000.00	1.06	345.09	1999.04	56.33	.33	56.33	56.33	.33	.05
2100.00	.95	335.80	2099.02	57.98	-.25	57.98	57.98	359.75	.20
2200.00	.92	331.86	2199.01	59.44	-.97	59.44	59.45	359.07	.07
2300.00	1.01	328.51	2299.00	60.90	-1.81	60.90	60.93	358.30	.11
2400.00	1.14	323.07	2398.98	62.45	-2.87	62.45	62.51	357.37	.17
2500.00	1.30	315.41	2498.96	64.05	-4.26	64.05	64.19	356.19	.23
2600.00	1.30	315.00	2598.93	65.66	-5.86	65.66	65.92	354.90	.01
2700.00	1.19	312.93	2698.91	67.17	-7.42	67.17	67.58	353.70	.12
2800.00	1.29	309.85	2798.88	68.60	-9.05	68.60	69.19	352.49	.12
2900.00	1.36	309.94	2898.86	70.08	-10.82	70.08	70.91	351.22	.07
3000.00	1.42	317.35	2998.83	71.75	-12.57	71.75	72.85	350.06	.19
3100.00	1.38	315.99	3098.80	73.53	-14.25	73.53	74.90	349.04	.05
3200.00	1.21	309.80	3198.77	75.07	-15.89	75.07	76.74	348.05	.22
3300.00	1.09	315.08	3298.75	76.42	-17.38	76.42	78.37	347.19	.16
3400.00	.83	318.53	3398.74	77.64	-18.53	77.64	79.82	346.58	.27
3500.00	.83	325.18	3498.73	78.78	-19.42	78.78	81.14	346.15	.10
3600.00	.78	316.94	3598.72	79.87	-20.30	79.87	82.41	345.74	.13
3700.00	.71	319.12	3698.71	80.83	-21.17	80.83	83.56	345.32	.08
3800.00	.60	297.80	3798.70	81.55	-22.04	81.55	84.47	344.88	.27

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3900.00	.58	288.24	3898.70	81.95	-22.98	81.95	85.11	344.33	.10
4000.00	.55	284.53	3998.69	82.23	-23.93	82.23	85.64	343.78	.05
4100.00	.48	287.46	4098.69	82.47	-24.79	82.47	86.12	343.27	.07
4200.00	.62	280.87	4198.68	82.70	-25.72	82.70	86.61	342.72	.15
4300.00	.55	295.03	4298.68	83.01	-26.69	83.01	87.19	342.18	.16
4400.00	.71	298.30	4398.67	83.50	-27.67	83.50	87.97	341.67	.16
4500.00	.78	289.12	4498.66	84.02	-28.86	84.02	88.84	341.04	.14
4600.00	.78	301.61	4598.65	84.60	-30.08	84.60	89.79	340.43	.17
4700.00	.79	301.12	4698.65	85.31	-31.25	85.31	90.86	339.88	.01
4800.00	.64	264.89	4798.64	85.62	-32.40	85.62	91.54	339.27	.47
4900.00	.41	267.91	4898.63	85.56	-33.31	85.56	91.81	338.73	.23
5000.00	.66	259.57	4998.63	85.44	-34.23	85.44	92.04	338.17	.26
5100.00	.80	238.85	5098.62	84.97	-35.40	84.97	92.05	337.38	.30
5200.00	.89	275.16	5198.61	84.68	-36.77	84.68	92.32	336.53	.53
5300.00	.81	297.55	5298.60	85.08	-38.17	85.08	93.25	335.84	.34
5400.00	.89	308.74	5398.59	85.89	-39.40	85.89	94.50	335.36	.18
5500.00	.78	298.75	5498.58	86.71	-40.60	86.71	95.74	334.91	.18
5600.00	.92	308.91	5598.57	87.54	-41.83	87.54	97.02	334.46	.21
5700.00	1.02	284.50	5698.55	88.27	-43.31	88.27	98.32	333.86	.42
5800.00	1.28	289.34	5798.53	88.86	-45.23	88.86	99.71	333.02	.28
5900.00	1.15	277.56	5898.51	89.36	-47.28	89.36	101.10	332.12	.28
6000.00	1.14	283.90	5998.49	89.73	-49.24	89.73	102.35	331.25	.13
6100.00	1.08	267.96	6098.47	89.94	-51.14	89.94	103.46	330.37	.31
6200.00	1.12	242.40	6198.46	89.45	-52.95	89.45	103.95	329.38	.49
6300.00	1.35	220.96	6298.43	88.11	-54.59	88.11	103.65	328.22	.51
6400.00	1.27	227.81	6398.41	86.47	-56.18	86.47	103.12	326.99	.18
6500.00	1.27	228.74	6498.38	85.00	-57.84	85.00	102.81	325.77	.02
6600.00	1.00	213.15	6598.36	83.54	-59.15	83.54	102.36	324.70	.41
6700.00	.60	176.22	6698.35	82.28	-59.59	82.28	101.60	324.09	.63

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	1.16	155.92	6798.34	80.84	-59.14	80.84	100.16	323.81	.63
6900.00	1.52	150.51	6898.31	78.76	-58.08	78.76	97.86	323.59	.38
7000.00	1.47	157.03	6998.28	76.42	-56.92	76.42	95.29	323.32	.18
7100.00	1.51	153.57	7098.25	74.06	-55.84	74.06	92.75	322.99	.10
7200.00	1.32	143.08	7198.22	71.96	-54.56	71.96	90.31	322.83	.32
7300.00	1.17	134.94	7298.19	70.32	-53.14	70.32	88.14	322.92	.23
7400.00	1.22	137.51	7398.17	68.81	-51.70	68.81	86.07	323.08	.07
Last Survey Depth Recorded									
7448.00	1.10	132.78	7446.16	68.12	-51.02	68.12	85.11	323.17	.32



COMPANY: Mewbourne Oil Company
WELL: Bradley 36 82DA State Com 1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson #45

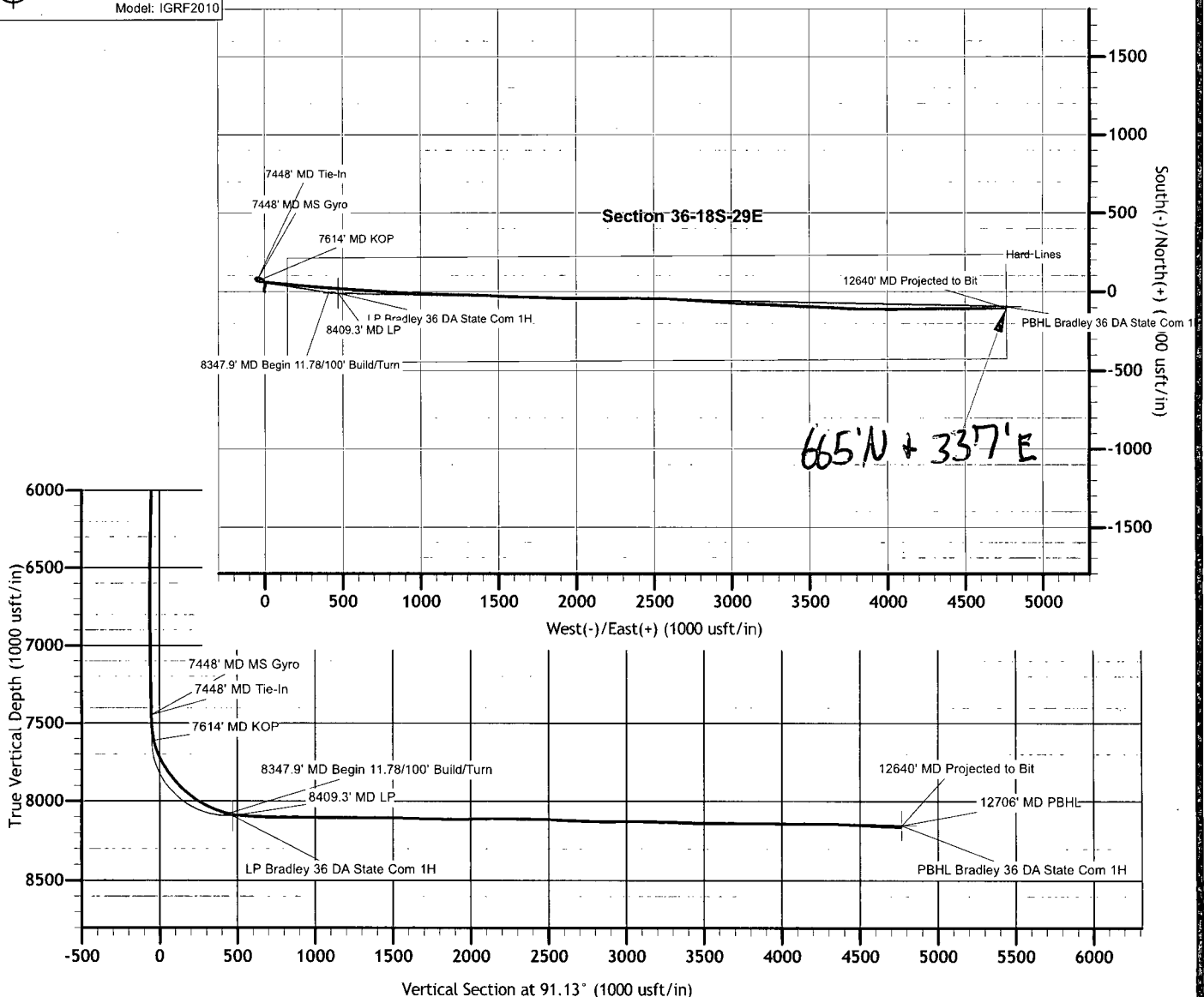
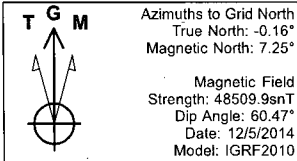


OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.25°

GEODETIC ZONE: New Mexico East 3001 3442 + 20 @ 3462.0usft (Patterson #45) GROUND ELEVATION: 3442.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	621999.80	591532.70	32° 42' 34.638 N	104° 2' 8.691 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	7448.0	1.10	132.78	7446.2	68.1	-51.0	0.00	0.00	-52.4	
2	7614.0	1.10	132.78	7612.1	66.0	-48.7	0.00	0.00	-50.0	
3	8347.8	87.37	98.14	8090.2	-4.6	409.8	11.78	-34.68	409.8	
4	8409.3	89.20	91.13	8092.0	-9.6	471.0	11.78	-75.51	471.1	LP Bradley 36 DA State Com 1H
5	12706.0	89.20	91.13	8152.0	-94.0	4766.5	0.00	0.00	4767.4	PBHL Bradley 36 DA State Com 1H

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
LP Bradley 36 DA State Com 1H	8409.3	87.37	98.14	8090.2	621999.80	32° 42' 34.638 N	104° 2' 8.691 W	Point	
- plan hits target center									
PBHL Bradley 36 DA State Com 1H	8152.0	91.13	4766.5	621905.79	596299.1832	42° 33.572 N	104° 1' 12.907 W	Point	
- plan hits target center									



Mewbourne Oil Company .

Eddy County, New Mexico

Section 36-18S-29E Bradley 36 B2DA State Com 1H

Bradley 36 B2DA State Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

22 January, 2015

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2DA State Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H	MD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Well:	Bradley 36 B2DA State Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H		
Site Position:	Northing:	621,999.80 usft	Latitude: 32° 42' 34.638 N
From: Map	Easting:	591,532.70 usft	Longitude: 104° 2' 8.691 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "		Grid Convergence: 0.16 °

Well	Bradley 36 B2DA State Com 1H		
Well Position	+N/-S	0.0 usft	Latitude: 32° 42' 34.638 N
	+E/-W	0.0 usft	Longitude: 104° 2' 8.691 W
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 3,442.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/5/2014	7.41	60.47	48,510

Design	Original Hole				
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	91.13	

Survey Program		Date: 1/22/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,448.0	MS Gyro Survey #1 (Original Hole)	GyroFlex	
7,524.0	12,640.0	MWD Survey #1 (Original Hole)	MWD	MWD v3:standard declination

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.70	325.52	100.0	0.5	-0.3	-0.4	0.70	0.70	0.00
200.0	1.43	329.02	200.0	2.1	-1.3	-1.4	0.73	0.73	3.50
300.0	1.49	339.87	299.9	4.4	-2.4	-2.5	0.28	0.06	10.85
400.0	1.63	357.89	399.9	7.0	-2.9	-3.1	0.51	0.14	18.02
500.0	1.78	355.05	499.9	10.0	-3.1	-3.3	0.17	0.15	-2.84
600.0	1.97	353.27	599.8	13.2	-3.4	-3.7	0.20	0.19	-1.78
700.0	1.97	353.33	699.8	16.6	-3.8	-4.2	0.00	0.00	0.06
800.0	2.25	10.89	799.7	20.3	-3.7	-4.1	0.70	0.28	17.56

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2DA State Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H	MD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Well:	Bradley 36 B2DA State Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)	
900.0	2.45	20.67	899.6	24.2	-2.5	-3.0	0.45	0.20	9.78	
1,000.0	2.68	24.64	999.5	28.3	-0.8	-1.4	0.29	0.23	3.97	
1,100.0	2.63	20.05	1,099.4	32.6	0.9	0.3	0.22	-0.05	-4.59	
1,200.0	2.36	13.63	1,199.3	36.8	2.2	1.5	0.39	-0.27	-6.42	
1,300.0	1.84	4.43	1,299.2	40.4	2.8	2.0	0.62	-0.52	-9.20	
1,400.0	1.63	357.32	1,399.2	43.4	2.9	2.0	0.30	-0.21	-7.11	
1,500.0	1.54	353.03	1,499.1	46.1	2.6	1.7	0.15	-0.09	-4.29	
1,600.0	1.36	348.03	1,599.1	48.6	2.2	1.3	0.22	-0.18	-5.00	
1,700.0	1.17	343.37	1,699.1	50.8	1.7	0.7	0.22	-0.19	-4.66	
1,800.0	1.09	346.31	1,799.1	52.7	1.2	0.1	0.10	-0.08	2.94	
1,900.0	1.07	347.80	1,899.1	54.5	0.8	-0.3	0.03	-0.02	1.49	
2,000.0	1.06	345.09	1,999.0	56.3	0.3	-0.8	0.05	-0.01	-2.71	
2,100.0	0.95	335.80	2,099.0	58.0	-0.3	-1.4	0.20	-0.11	-9.29	
2,200.0	0.92	331.86	2,199.0	59.4	-1.0	-2.1	0.07	-0.03	-3.94	
2,300.0	1.01	328.51	2,299.0	60.9	-1.8	-3.0	0.11	0.09	-3.35	
2,400.0	1.14	323.07	2,399.0	62.4	-2.9	-4.1	0.17	0.13	-5.44	
2,500.0	1.30	315.41	2,499.0	64.1	-4.3	-5.5	0.23	0.16	-7.66	
2,600.0	1.30	315.00	2,598.9	65.7	-5.9	-7.2	0.01	0.00	-0.41	
2,700.0	1.19	312.93	2,698.9	67.2	-7.4	-8.7	0.12	-0.11	-2.07	
2,800.0	1.29	309.85	2,798.9	68.6	-9.0	-10.4	0.12	0.10	-3.08	
2,900.0	1.36	309.94	2,898.9	70.1	-10.8	-12.2	0.07	0.07	0.09	
3,000.0	1.42	317.35	2,998.8	71.8	-12.6	-14.0	0.19	0.06	7.41	
3,100.0	1.38	315.99	3,098.8	73.5	-14.2	-15.7	0.05	-0.04	-1.36	
3,200.0	1.21	309.80	3,198.8	75.1	-15.9	-17.4	0.22	-0.17	-6.19	
3,300.0	1.09	315.08	3,298.8	76.4	-17.4	-18.9	0.16	-0.12	5.28	
3,400.0	0.83	318.53	3,398.7	77.6	-18.5	-20.1	0.27	-0.26	3.45	
3,500.0	0.83	325.18	3,498.7	78.8	-19.4	-21.0	0.10	0.00	6.65	
3,600.0	0.78	316.94	3,598.7	79.9	-20.3	-21.9	0.13	-0.05	-8.24	
3,700.0	0.71	319.12	3,698.7	80.8	-21.2	-22.8	0.08	-0.07	2.18	
3,800.0	0.60	297.80	3,798.7	81.5	-22.0	-23.6	0.27	-0.11	-21.32	
3,900.0	0.58	288.24	3,898.7	81.9	-23.0	-24.6	0.10	-0.02	-9.56	
4,000.0	0.55	284.53	3,998.7	82.2	-23.9	-25.5	0.05	-0.03	-3.71	
4,100.0	0.48	287.46	4,098.7	82.5	-24.8	-26.4	0.07	-0.07	2.93	
4,200.0	0.62	280.87	4,198.7	82.7	-25.7	-27.3	0.15	0.14	-6.59	
4,300.0	0.55	295.03	4,298.7	83.0	-26.7	-28.3	0.16	-0.07	14.16	
4,400.0	0.71	298.30	4,398.7	83.5	-27.7	-29.3	0.16	0.16	3.27	
4,500.0	0.78	289.12	4,498.7	84.0	-28.9	-30.5	0.14	0.07	-9.18	
4,600.0	0.78	301.61	4,598.7	84.6	-30.1	-31.7	0.17	0.00	12.49	
4,700.0	0.79	301.12	4,698.6	85.3	-31.2	-32.9	0.01	0.01	-0.49	
4,800.0	0.64	264.89	4,798.6	85.6	-32.4	-34.1	0.47	-0.15	-36.23	
4,900.0	0.41	267.91	4,898.6	85.6	-33.3	-35.0	0.23	-0.23	3.02	
5,000.0	0.66	259.57	4,998.6	85.4	-34.2	-35.9	0.26	0.25	-8.34	

Stryker Directional Survey Report

Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Bradley 36 B2DA State Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H	MD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Well:	Bradley 36 B2DA State Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
5,100.0	0.80	238.85	5,098.6	85.0	-35.4	-37.1	0.30	0.14	-20.72
5,200.0	0.89	275.16	5,198.6	84.7	-36.8	-38.4	0.53	0.09	36.31
5,300.0	0.81	297.55	5,298.6	85.1	-38.2	-39.8	0.34	-0.08	22.39
5,400.0	0.89	308.74	5,398.6	85.9	-39.4	-41.1	0.18	0.08	11.19
5,500.0	0.78	298.75	5,498.6	86.7	-40.6	-42.3	0.18	-0.11	-9.99
5,600.0	0.92	308.91	5,598.6	87.5	-41.8	-43.5	0.21	0.14	10.16
5,700.0	1.02	284.50	5,698.6	88.3	-43.3	-45.0	0.42	0.10	-24.41
5,800.0	1.28	289.34	5,798.5	88.9	-45.2	-47.0	0.28	0.26	4.84
5,900.0	1.15	277.56	5,898.5	89.4	-47.3	-49.0	0.28	-0.13	-11.78
6,000.0	1.14	283.90	5,998.5	89.7	-49.2	-51.0	0.13	-0.01	6.34
6,100.0	1.08	267.96	6,098.5	89.9	-51.1	-52.9	0.31	-0.06	-15.94
6,200.0	1.12	242.40	6,198.5	89.4	-53.0	-54.7	0.49	0.04	-25.56
6,300.0	1.35	220.96	6,298.4	88.1	-54.6	-56.3	0.51	0.23	-21.44
6,400.0	1.27	227.81	6,398.4	86.5	-56.2	-57.9	0.18	-0.08	6.85
6,500.0	1.27	228.74	6,498.4	85.0	-57.8	-59.5	0.02	0.00	0.93
6,600.0	1.00	213.15	6,598.4	83.5	-59.1	-60.8	0.41	-0.27	-15.59
6,700.0	0.60	176.22	6,698.4	82.3	-59.6	-61.2	0.63	-0.40	-36.93
6,800.0	1.16	155.92	6,798.3	80.8	-59.1	-60.7	0.63	0.56	-20.30
6,900.0	1.52	150.51	6,898.3	78.8	-58.1	-59.6	0.38	0.36	-5.41
7,000.0	1.47	157.03	6,998.3	76.4	-56.9	-58.4	0.18	-0.05	6.52
7,100.0	1.51	153.57	7,098.2	74.1	-55.8	-57.3	0.10	0.04	-3.46
7,200.0	1.32	143.08	7,198.2	72.0	-54.6	-56.0	0.32	-0.19	-10.49
7,300.0	1.17	134.94	7,298.2	70.3	-53.1	-54.5	0.23	-0.15	-8.14
7,400.0	1.22	137.51	7,398.2	68.8	-51.7	-53.0	0.07	0.05	2.57
7,448.0	1.10	132.78	7,446.2	68.1	-51.0	-52.4	0.32	-0.25	-9.85
7448' MD MS Gyro									
7,524.0	3.60	93.90	7,522.1	67.5	-48.1	-49.4	3.72	3.29	-51.16
7,555.0	6.80	91.10	7,553.0	67.4	-45.3	-46.6	10.35	10.32	-9.03
7,587.0	10.10	90.50	7,584.6	67.3	-40.6	-41.9	10.32	10.31	-1.88
7,618.0	13.30	93.80	7,615.0	67.0	-34.3	-35.6	10.54	10.32	10.65
7,650.0	16.70	97.10	7,645.9	66.2	-26.1	-27.4	10.95	10.63	10.31
7,681.0	20.10	98.00	7,675.3	64.9	-16.4	-17.7	11.01	10.97	2.90
7,713.0	23.50	98.00	7,705.0	63.3	-4.6	-5.9	10.63	10.63	0.00
7,745.0	27.30	97.30	7,733.9	61.5	9.0	7.8	11.91	11.88	-2.19
7,776.0	31.30	95.90	7,760.9	59.7	24.1	22.9	13.09	12.90	-4.52
7,808.0	33.70	95.10	7,787.9	58.1	41.2	40.0	7.62	7.50	-2.50
7,839.0	35.00	95.00	7,813.5	56.5	58.6	57.5	4.20	4.19	-0.32
7,871.0	37.30	95.10	7,839.3	54.9	77.4	76.3	7.19	7.19	0.31
7,902.0	40.20	95.30	7,863.5	53.1	96.7	95.6	9.36	9.35	0.65
7,934.0	42.60	95.10	7,887.5	51.2	117.8	116.8	7.51	7.50	-0.63
7,965.0	44.90	95.20	7,909.9	49.3	139.1	138.1	7.42	7.42	0.32
7,997.0	48.30	95.30	7,931.9	47.2	162.3	161.3	10.63	10.63	0.31
8,028.0	51.30	95.20	7,951.9	45.0	185.9	184.9	9.68	9.68	-0.32

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 B2DA State Com 1H
Project:	Eddy County, New Mexico	TVD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Site:	Section 36-18S-29E Bradley 36 B2DA State Com 1H	MD Reference:	3442 + 20 @ 3462.0usft (Patterson #45)
Well:	Bradley 36 B2DA State Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
8,060.0	53.60	95.10	7,971.4	42.7	211.1	210.2	7.19	7.19	-0.31
8,091.0	56.70	95.80	7,989.1	40.3	236.5	235.6	10.17	10.00	2.26
8,123.0	60.40	95.80	8,005.8	37.5	263.6	262.8	11.56	11.56	0.00
8,154.0	63.40	95.10	8,020.4	34.9	290.8	290.1	9.88	9.68	-2.26
8,186.0	65.50	94.50	8,034.2	32.5	319.6	318.9	6.78	6.56	-1.88
8,217.0	67.20	94.20	8,046.6	30.4	347.9	347.2	5.56	5.48	-0.97
8,249.0	70.30	94.30	8,058.2	28.2	377.6	377.0	9.69	9.69	0.31
8,280.0	74.30	94.40	8,067.7	25.9	407.1	406.5	12.91	12.90	0.32
8,312.0	77.00	94.00	8,075.6	23.7	438.0	437.4	8.52	8.44	-1.25
8,344.0	79.10	93.70	8,082.2	21.6	469.2	468.7	6.63	6.56	-0.94
8,375.0	82.50	93.40	8,087.2	19.7	499.8	499.3	11.01	10.97	-0.97
8,385.0	83.60	93.20	8,088.4	19.1	509.7	509.2	11.18	11.00	-2.00
8,488.0	88.10	94.90	8,095.8	11.8	612.1	611.8	4.67	4.37	1.65
8,520.0	88.60	94.50	8,096.7	9.2	644.0	643.7	2.00	1.56	-1.25
8,583.0	89.00	93.90	8,098.1	4.6	706.8	706.6	1.14	0.63	-0.95
8,646.0	88.70	93.20	8,099.3	0.7	769.7	769.5	1.21	-0.48	-1.11
8,708.0	90.10	93.60	8,100.0	-3.0	831.6	831.5	2.35	2.26	0.65
8,769.0	90.40	93.10	8,099.7	-6.5	892.5	892.4	0.96	0.49	-0.82
8,832.0	89.60	92.40	8,099.7	-9.6	955.4	955.4	1.69	-1.27	-1.11
8,895.0	88.70	91.40	8,100.7	-11.7	1,018.4	1,018.4	2.14	-1.43	-1.59
8,957.0	89.80	91.70	8,101.5	-13.3	1,080.3	1,080.4	1.84	1.77	0.48
9,052.0	90.20	91.40	8,101.5	-15.9	1,175.3	1,175.4	0.53	0.42	-0.32
9,145.0	90.30	92.10	8,101.1	-18.7	1,268.2	1,268.4	0.76	0.11	0.75
9,239.0	89.70	91.40	8,101.1	-21.6	1,362.2	1,362.4	0.98	-0.64	-0.74
9,334.0	89.10	92.90	8,102.1	-25.2	1,457.1	1,457.3	1.70	-0.63	1.58
9,429.0	87.90	92.20	8,104.5	-29.4	1,552.0	1,552.3	1.46	-1.26	-0.74
9,523.0	88.40	91.40	8,107.6	-32.4	1,645.9	1,646.2	1.00	0.53	-0.85
9,616.0	88.00	92.20	8,110.5	-35.3	1,738.8	1,739.2	0.96	-0.43	0.86
9,710.0	89.10	92.00	8,112.9	-38.7	1,832.7	1,833.1	1.19	1.17	-0.21
9,806.0	90.60	90.90	8,113.1	-41.1	1,928.7	1,929.1	1.94	1.56	-1.15
9,901.0	90.80	89.60	8,112.0	-41.6	2,023.7	2,024.1	1.38	0.21	-1.37
9,996.0	90.50	90.10	8,110.9	-41.3	2,118.7	2,119.1	0.61	-0.32	0.53
10,090.0	90.60	90.70	8,110.0	-42.0	2,212.7	2,213.0	0.65	0.11	0.64
10,185.0	89.60	89.90	8,109.8	-42.5	2,307.6	2,308.0	1.35	-1.05	-0.84
10,279.0	88.30	89.80	8,111.5	-42.2	2,401.6	2,402.0	1.39	-1.38	-0.11
10,373.0	87.50	90.20	8,115.0	-42.2	2,495.6	2,495.9	0.95	-0.85	0.43
10,469.0	88.70	92.90	8,118.2	-44.8	2,591.5	2,591.8	3.08	1.25	2.81
10,564.0	86.50	93.70	8,122.1	-50.3	2,686.2	2,686.7	2.46	-2.32	0.84
10,660.0	88.50	92.60	8,126.3	-55.5	2,782.0	2,782.5	2.38	2.08	-1.15
10,755.0	90.60	93.60	8,127.1	-60.7	2,876.8	2,877.5	2.45	2.21	1.05
10,851.0	90.10	93.40	8,126.5	-66.5	2,972.6	2,973.4	0.56	-0.52	-0.21
10,945.0	90.00	93.40	8,126.4	-72.1	3,066.5	3,067.3	0.11	-0.11	0.00