



Project: Lea Co., NM (NAD 83)
 Site: Sec 27-T12S-R38E
 Rig: Norton #4
 Well: Trinity 27-22 State Com #4H
 Wellbore: HZ [440537]
 Design: Final



Total Azimuth to Grid North
 + 5.90°
 Gravity = 0.9986°

Magnetic Field
 Strength: 48323.0nT
 Dip Angle: 60.90°
 Date: 11/30/2018
 Model: HDGM_FILE

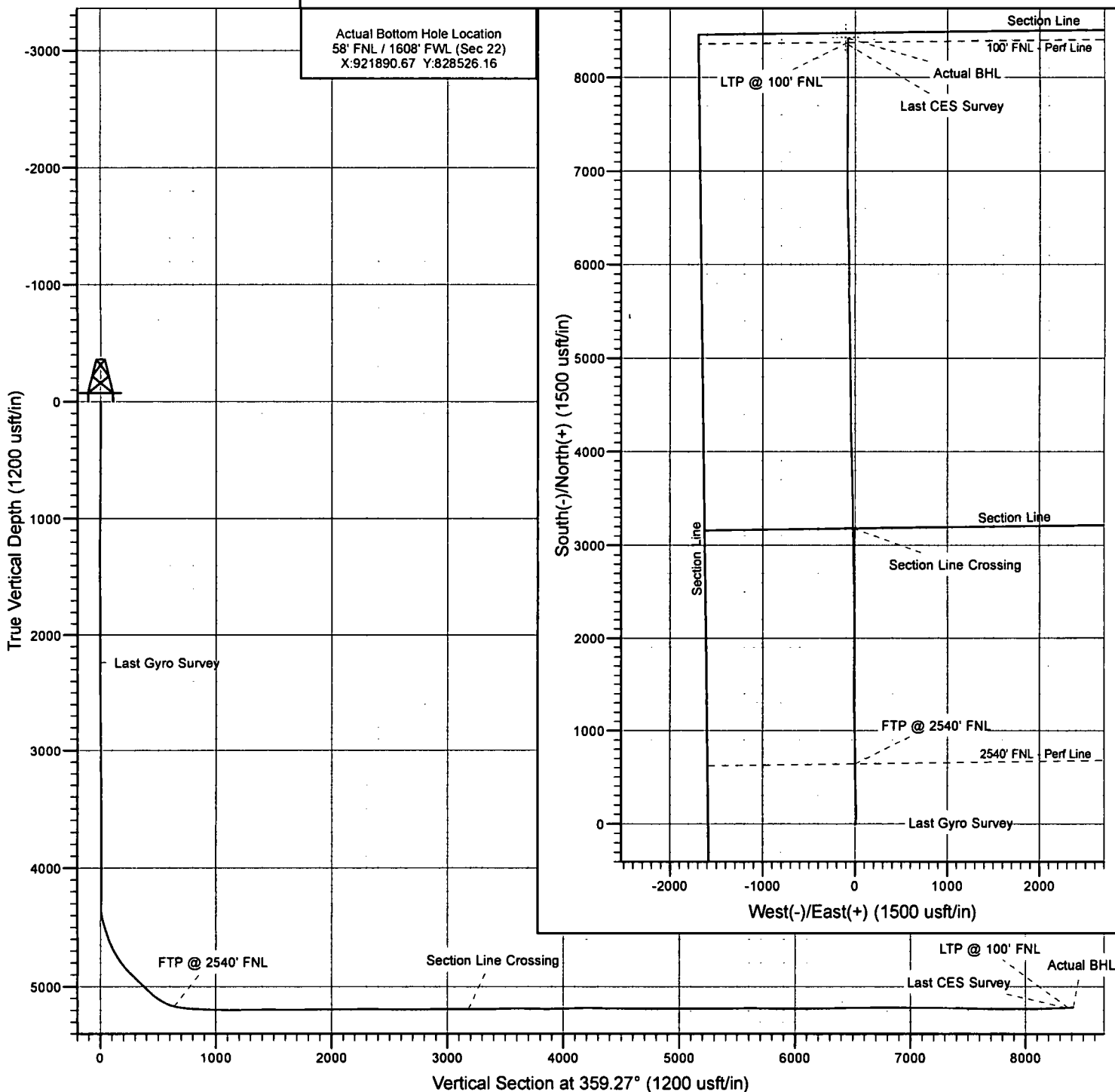
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	820111.90	921973.10	33.248212	-103.088307

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
2237.00	1.00	68.95	2236.90	-2.46	-5.11	-2.39	Last Gyro Survey
5437.00	75.83	1.51	5168.16	639.98	0.10	639.92	FTP @ 2540' FNL
7979.00	90.57	359.02	5191.22	3179.74	-22.91	3179.78	Section Line Crossing
13151.00	92.18	359.40	5180.24	8350.31	-81.76	8350.67	Last CES Survey
13171.00	92.18	359.40	5179.48	8370.29	-81.97	8370.66	LTP @ 100' FNL
13215.00	92.18	359.40	5177.80	8414.26	-82.43	8414.63	Actual BHL

TARGET LINE
 90.05° INC @ 5191.35' TVD @ 0' VS
 10' Up / 10' Down
 30' Left / 30' Right

Actual Bottom Hole Location
 58' FNL / 1608' FWL (Sec 22)
 X:921890.67 Y:828526.16



Survey Report

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Local Co-ordinate Reference: Well Trinity 27-22 State Com #4H
TVD Reference: 13' KB @ 3811.00usft (Norton #4)
MD Reference: 13' KB @ 3811.00usft (Norton #4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Project	Lea Co., 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	Sec 27-T12S-R38E, 0.9986g			
Site Position:		Northing:	820,660.60 usft	Latitude: 33.249686
From:	Map	Easting:	923,019.50 usft	Longitude: -103.084863
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.68 °

Well	Trinity 27-22 State Com #4H			
Well Position	+N/-S	0.00 usft	Northing:	820,111.90 usft
	+E/-W	0.00 usft	Easting:	921,973.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,798.00 usft

Wellbore	HZ [440537]				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM_FILE	11/30/2018	6.58	60.90	48,323.00000000

Design	Final			
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	359.27

Survey Program	Date 12/10/2018			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
141.00	2,237.00	Gyro Surveys (HZ [440537])	GyroFlex	
2,336.00	13,215.00	CES MWD (HZ [440537])	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Formations /
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Comments
(usft)			(usft)			(usft)	(°/100usft)	(°/100u)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
141.00	0.20	281.95	141.00	0.05	-0.24	0.05	0.14	0.14	
288.00	0.30	121.95	288.00	-0.10	-0.17	-0.10	0.34	0.07	
377.00	0.40	178.95	377.00	-0.53	0.04	-0.53	0.39	0.11	
468.00	0.40	193.95	468.00	-1.16	-0.03	-1.16	0.11	0.00	
557.00	0.00	0.00	556.99	-1.46	-0.11	-1.46	0.45	-0.45	
645.00	0.40	232.95	644.99	-1.65	-0.35	-1.64	0.45	0.45	
680.00	0.50	167.95	679.99	-1.87	-0.42	-1.86	1.40	0.29	
823.00	0.10	247.95	822.99	-2.53	-0.40	-2.52	0.34	-0.28	
911.00	0.50	107.95	910.99	-2.67	-0.11	-2.67	0.66	0.45	
1,005.00	0.50	215.95	1,004.99	-3.13	0.04	-3.13	0.86	0.00	
1,096.00	0.70	234.95	1,095.98	-3.77	-0.65	-3.76	0.31	0.22	

Survey Report

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 MD Reference: 13' KB @ 3811.00usft (Norton #4)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,189.00	0.70	177.95	1,188.98	-4.67	-1.09	-4.65	0.72	0.00	
1,284.00	1.00	235.95	1,283.97	-5.71	-1.76	-5.69	0.91	0.32	
1,378.00	1.00	274.95	1,377.96	-6.10	-3.26	-6.06	0.71	0.00	
1,473.00	1.00	293.95	1,472.94	-5.69	-4.84	-5.63	0.35	0.00	
1,566.00	0.80	313.95	1,565.93	-4.91	-6.05	-4.83	0.40	-0.22	
1,660.00	0.60	38.95	1,659.92	-4.07	-6.21	-3.99	1.02	-0.21	
1,755.00	0.70	305.95	1,754.92	-3.34	-6.37	-3.26	1.00	0.11	
1,846.00	0.40	304.95	1,845.92	-2.84	-7.08	-2.75	0.33	-0.33	
1,941.00	0.10	217.95	1,940.92	-2.71	-7.40	-2.62	0.43	-0.32	
2,034.00	0.30	171.95	2,033.92	-3.02	-7.42	-2.92	0.26	0.22	
2,079.00	0.50	64.95	2,078.91	-3.05	-7.22	-2.96	1.45	0.44	
2,173.00	0.90	79.95	2,172.91	-2.75	-6.12	-2.67	0.46	0.43	
2,237.00	1.00	68.95	2,236.90	-2.46	-5.11	-2.39	0.32	0.16	Last Gyro Survey
2,336.00	1.27	93.35	2,335.88	-2.21	-3.21	-2.17	0.55	0.27	
2,431.00	1.58	96.08	2,430.85	-2.41	-0.85	-2.40	0.33	0.33	
2,526.00	1.93	107.41	2,525.81	-3.03	1.97	-3.06	0.52	0.37	
2,620.00	3.38	76.12	2,619.71	-2.84	6.18	-2.92	2.13	1.54	
2,715.00	1.14	355.62	2,714.64	-1.23	8.82	-1.34	3.56	-2.36	
2,809.00	0.92	343.05	2,808.63	0.43	8.53	0.32	0.33	-0.23	
2,902.00	0.53	331.80	2,901.62	1.52	8.11	1.42	0.44	-0.42	
2,998.00	0.48	318.00	2,997.62	2.21	7.63	2.11	0.14	-0.05	
3,093.00	0.57	309.65	3,092.61	2.81	7.00	2.72	0.12	0.09	
3,187.00	0.53	304.29	3,186.61	3.35	6.28	3.27	0.07	-0.04	
3,281.00	0.48	323.54	3,280.60	3.91	5.69	3.84	0.19	-0.05	
3,375.00	0.92	342.08	3,374.60	4.95	5.22	4.88	0.52	0.47	
3,469.00	1.36	296.73	3,468.58	6.17	3.99	6.12	1.03	0.47	
3,563.00	0.84	352.45	3,562.56	7.35	2.91	7.32	1.20	-0.55	
3,657.00	1.10	1.68	3,656.55	8.94	2.84	8.90	0.32	0.28	
3,751.00	0.75	236.79	3,750.54	9.50	2.36	9.47	1.75	-0.37	
3,845.00	0.75	229.49	3,844.54	8.77	1.37	8.75	0.10	0.00	
3,940.00	0.62	218.95	3,939.53	7.96	0.58	7.96	0.19	-0.14	
4,034.00	0.48	211.12	4,033.53	7.23	0.05	7.23	0.17	-0.15	
4,128.00	0.44	189.59	4,127.52	6.54	-0.21	6.54	0.19	-0.04	
4,222.00	0.62	168.59	4,221.52	5.68	-0.17	5.68	0.28	0.19	
4,317.00	0.79	159.18	4,316.51	4.57	0.17	4.56	0.22	0.18	
4,348.00	1.54	18.91	4,347.51	4.76	0.38	4.76	7.12	2.42	
4,380.00	5.98	12.32	4,379.43	6.80	0.87	6.79	13.92	13.87	
4,411.00	10.51	8.62	4,410.10	11.17	1.84	11.15	14.71	14.61	
4,443.00	15.25	9.24	4,441.29	18.22	2.75	18.18	14.82	14.81	
4,474.00	18.11	12.05	4,470.98	26.95	4.41	26.90	9.58	9.23	
4,506.00	18.81	13.19	4,501.34	36.84	6.63	36.75	2.46	2.19	
4,537.00	18.46	8.45	4,530.71	46.56	8.49	46.45	5.01	-1.13	
4,568.00	18.37	4.76	4,560.13	56.29	9.62	56.16	3.77	-0.29	
4,600.00	18.77	3.61	4,590.46	66.45	10.36	66.31	1.69	1.25	
4,632.00	21.19	1.94	4,620.53	77.37	10.88	77.22	7.77	7.56	
4,663.00	24.88	359.40	4,649.06	89.49	11.00	89.35	12.32	11.90	
4,695.00	28.00	358.96	4,677.71	103.74	10.80	103.59	9.77	9.75	
4,726.00	29.19	358.52	4,704.92	118.57	10.47	118.43	3.90	3.84	
4,758.00	30.51	358.96	4,732.68	134.49	10.12	134.36	4.18	4.12	
4,789.00	33.19	358.61	4,759.01	150.85	9.77	150.71	8.67	8.65	
4,820.00	36.79	357.99	4,784.40	168.61	9.24	168.48	11.67	11.61	
4,852.00	38.11	357.90	4,809.80	188.06	8.54	187.94	4.13	4.12	
4,883.00	38.95	357.46	4,834.05	207.35	7.76	207.24	2.85	2.71	

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4,914.00	41.85	358.17	4,857.66	227.43	7.00	227.32	9.47	9.35	
4,945.00	45.23	358.87	4,880.13	248.77	6.45	248.67	11.01	10.90	
4,977.00	47.43	358.52	4,902.22	271.91	5.92	271.81	6.92	6.87	
5,008.00	47.30	358.61	4,923.22	294.71	5.35	294.62	0.47	-0.42	
5,039.00	47.25	357.90	4,944.25	317.47	4.66	317.39	1.69	-0.16	
5,071.00	46.99	358.08	4,966.03	340.91	3.83	340.83	0.91	-0.81	
5,103.00	46.95	358.17	4,987.86	364.29	3.07	364.22	0.24	-0.12	
5,134.00	46.86	357.81	5,009.04	386.91	2.27	386.85	0.90	-0.29	
5,166.00	46.86	357.99	5,030.92	410.24	1.42	410.19	0.41	0.00	
5,198.00	46.64	358.78	5,052.85	433.54	0.76	433.50	1.93	-0.69	
5,229.00	50.46	358.43	5,073.37	456.77	0.19	456.73	12.35	12.32	
5,261.00	54.15	357.99	5,092.93	482.07	-0.60	482.04	11.58	11.53	
5,292.00	57.93	357.90	5,110.25	507.76	-1.52	507.74	12.20	12.19	
5,324.00	61.27	359.48	5,126.44	535.35	-2.15	535.33	11.27	10.44	
5,356.00	64.70	0.71	5,140.97	563.85	-2.09	563.83	11.25	10.72	
5,386.00	68.75	2.12	5,152.82	591.40	-1.41	591.37	14.17	13.50	
5,418.00	73.58	1.68	5,163.15	621.66	-0.41	621.61	15.15	15.09	
5,437.00	75.83	1.51	5,168.16	639.98	0.10	639.92	11.86	11.83	FTP @ 2540' FNL
5,447.00	77.01	1.42	5,170.51	649.69	0.35	649.64	11.86	11.83	
5,477.00	80.84	0.10	5,176.27	679.12	0.74	679.06	13.48	12.77	
5,509.00	83.56	359.31	5,180.62	710.83	0.58	710.76	8.84	8.50	
5,540.00	85.45	358.69	5,183.58	741.68	0.04	741.62	6.41	6.10	
5,571.00	85.85	358.69	5,185.94	772.58	-0.67	772.53	1.29	1.29	
5,603.00	86.24	359.13	5,188.14	804.50	-1.28	804.45	1.83	1.22	
5,634.00	86.51	359.13	5,190.10	835.43	-1.75	835.39	0.87	0.87	
5,666.00	86.86	358.25	5,191.95	867.37	-2.48	867.33	2.96	1.09	
5,697.00	87.21	358.52	5,193.56	898.32	-3.35	898.29	1.43	1.13	
5,728.00	87.69	358.08	5,194.94	929.27	-4.27	929.25	2.10	1.55	
5,760.00	88.18	357.99	5,196.09	961.23	-5.36	961.22	1.56	1.53	
5,791.00	88.35	358.17	5,197.03	992.20	-6.40	992.20	0.80	0.55	
5,854.00	88.84	358.08	5,198.57	1,055.15	-8.46	1,055.17	0.79	0.78	
5,946.00	90.59	357.99	5,199.03	1,147.09	-11.62	1,147.14	1.90	1.90	
6,040.00	90.51	359.48	5,198.13	1,241.06	-13.69	1,241.13	1.59	-0.09	
6,135.00	91.12	0.01	5,198.78	1,338.05	-14.12	1,338.12	0.85	0.64	
6,229.00	90.64	359.84	5,195.33	1,430.04	-14.24	1,430.10	0.54	-0.51	
6,323.00	89.14	0.45	5,195.51	1,524.03	-14.00	1,524.09	1.72	-1.60	
6,417.00	89.67	0.63	5,196.49	1,618.02	-13.11	1,618.06	0.80	0.56	
6,511.00	90.59	0.28	5,196.28	1,712.02	-12.37	1,712.04	1.05	0.98	
6,605.00	91.16	0.54	5,194.84	1,806.00	-11.70	1,806.01	0.67	0.61	
6,699.00	89.89	0.28	5,193.98	1,900.00	-11.02	1,899.98	1.38	-1.35	
6,793.00	90.42	0.01	5,193.72	1,993.99	-10.79	1,993.97	0.63	0.56	
6,887.00	90.95	0.63	5,192.60	2,087.99	-10.26	2,087.95	0.87	0.56	
6,982.00	91.21	0.45	5,190.81	2,182.96	-9.37	2,182.91	0.33	0.27	
7,076.00	89.54	0.01	5,190.19	2,276.96	-8.99	2,276.89	1.84	-1.78	
7,169.00	89.93	359.13	5,190.63	2,369.95	-9.69	2,369.88	1.03	0.42	
7,263.00	88.62	358.78	5,191.81	2,463.93	-11.40	2,463.87	1.44	-1.39	
7,358.00	89.10	359.40	5,193.70	2,558.90	-12.91	2,558.85	0.83	0.51	
7,452.00	89.98	359.04	5,194.46	2,652.88	-14.19	2,652.85	1.01	0.94	
7,546.00	90.90	359.40	5,193.74	2,746.87	-15.47	2,746.85	1.05	0.98	
7,641.00	91.74	359.31	5,191.55	2,841.84	-16.54	2,841.82	0.89	0.88	
7,735.00	90.51	358.61	5,189.70	2,935.80	-18.24	2,935.80	1.51	-1.31	
7,829.00	88.84	359.04	5,190.24	3,029.78	-20.17	3,029.79	1.83	-1.78	
7,923.00	89.76	358.87	5,191.38	3,123.75	-21.88	3,123.78	1.00	0.98	

Survey Report

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
7,979.00	90.57	359.02	5,191.22	3,179.74	-22.91	3,179.78	1.47	1.45	Section Line Crossing
8,017.00	91.12	359.13	5,190.66	3,217.73	-23.52	3,217.77	1.47	1.45	
8,111.00	89.89	359.48	5,189.83	3,311.72	-24.66	3,311.77	1.36	-1.31	
8,205.00	90.81	359.13	5,189.26	3,405.71	-25.81	3,405.77	1.05	0.98	
8,300.00	92.04	358.78	5,186.90	3,500.67	-27.54	3,500.73	1.35	1.29	
8,393.00	90.24	358.25	5,185.05	3,593.61	-29.95	3,593.70	2.02	-1.94	
8,488.00	88.66	358.34	5,185.96	3,688.56	-32.77	3,688.68	1.67	-1.66	
8,582.00	89.19	358.61	5,187.72	3,782.51	-35.27	3,782.65	0.63	0.56	
8,676.00	90.11	358.17	5,188.30	3,876.47	-37.92	3,876.64	1.08	0.98	
8,770.00	90.81	358.87	5,187.54	3,970.44	-40.34	3,970.63	1.05	0.74	
8,817.00	91.47	358.69	5,186.61	4,017.42	-41.34	4,017.62	1.46	1.40	
8,912.00	92.26	358.34	5,183.52	4,112.33	-43.80	4,112.56	0.91	0.83	
9,007.00	90.55	358.69	5,181.19	4,207.27	-46.27	4,207.52	1.84	-1.80	
9,101.00	88.13	359.31	5,182.27	4,301.24	-47.91	4,301.50	2.66	-2.57	
9,195.00	88.92	359.75	5,184.69	4,395.21	-48.68	4,395.47	0.96	0.84	
9,289.00	90.24	359.66	5,185.38	4,489.20	-49.16	4,489.46	1.41	1.40	
9,383.00	89.10	359.66	5,185.92	4,583.19	-49.72	4,583.46	1.21	-1.21	
9,478.00	89.63	359.57	5,186.97	4,678.19	-50.36	4,678.45	0.57	0.56	
9,572.00	90.59	359.40	5,186.79	4,772.18	-51.20	4,772.45	1.04	1.02	
9,666.00	91.16	359.22	5,185.36	4,866.16	-52.33	4,866.44	0.64	0.61	
9,760.00	88.88	358.69	5,185.32	4,960.14	-54.05	4,960.43	2.49	-2.43	
9,854.00	89.54	359.22	5,186.62	5,054.12	-55.76	5,054.42	0.90	0.70	
9,948.00	90.81	359.66	5,186.33	5,148.11	-56.68	5,148.41	1.43	1.35	
10,042.00	89.45	359.22	5,186.12	5,242.10	-57.60	5,242.41	1.52	-1.45	
10,136.00	89.93	358.78	5,186.63	5,336.08	-59.24	5,336.41	0.69	0.51	
10,231.00	90.86	359.04	5,185.97	5,431.06	-61.05	5,431.40	1.02	0.98	
10,325.00	91.52	358.61	5,184.02	5,525.02	-62.97	5,525.38	0.84	0.70	
10,419.00	90.20	358.61	5,182.61	5,618.98	-65.25	5,619.36	1.40	-1.40	
10,513.00	88.31	359.48	5,183.83	5,712.96	-66.82	5,713.35	2.21	-2.01	
10,608.00	89.01	0.10	5,186.05	5,807.93	-67.17	5,808.31	0.98	0.74	
10,702.00	89.80	0.19	5,187.03	5,901.92	-66.93	5,902.30	0.85	0.84	
10,796.00	90.64	359.92	5,186.67	5,995.92	-66.84	5,996.29	0.94	0.89	
10,890.00	90.46	359.31	5,185.77	6,089.91	-67.47	6,090.28	0.68	-0.19	
10,984.00	90.20	357.90	5,185.23	6,183.88	-69.76	6,184.27	1.53	-0.28	
11,078.00	91.03	357.90	5,184.22	6,277.81	-73.20	6,278.24	0.88	0.88	
11,172.00	91.74	357.73	5,181.94	6,371.72	-76.79	6,372.18	0.78	0.76	
11,266.00	90.77	358.25	5,179.89	6,465.64	-80.08	6,466.13	1.17	-1.03	
11,360.00	89.36	359.22	5,179.78	6,559.61	-82.16	6,560.12	1.82	-1.50	
11,454.00	90.07	359.40	5,180.25	6,653.60	-83.29	6,654.12	0.78	0.76	
11,547.00	91.34	359.57	5,179.10	6,746.59	-84.13	6,747.11	1.38	1.37	
11,641.00	90.20	359.75	5,177.84	6,840.58	-84.68	6,841.10	1.23	-1.21	
11,736.00	88.70	359.66	5,178.75	6,935.57	-85.17	6,936.09	1.58	-1.58	
11,830.00	89.05	359.66	5,180.60	7,029.55	-85.73	7,030.07	0.37	0.37	
11,925.00	89.76	359.40	5,181.58	7,124.54	-86.51	7,125.06	0.80	0.75	
12,018.00	90.77	359.92	5,181.15	7,217.53	-87.06	7,218.06	1.22	1.09	
12,112.00	89.67	0.63	5,180.79	7,311.53	-86.61	7,312.04	1.39	-1.17	
12,206.00	88.53	0.98	5,182.27	7,405.51	-85.29	7,405.99	1.27	-1.21	
12,301.00	88.92	0.71	5,184.38	7,500.47	-83.89	7,500.93	0.50	0.41	
12,395.00	89.63	0.63	5,185.57	7,594.46	-82.79	7,594.90	0.76	0.76	
12,490.00	88.66	0.54	5,186.99	7,689.44	-81.82	7,689.86	1.03	-1.02	
12,585.00	89.27	0.27	5,188.70	7,784.42	-81.15	7,784.83	0.70	0.64	
12,679.00	90.11	0.19	5,189.21	7,878.42	-80.77	7,878.81	0.90	0.89	
12,773.00	91.47	0.63	5,187.92	7,972.41	-80.10	7,972.78	1.52	1.45	

Survey Report

Company: Manzano LLC
Project: Lea Co., NM (NAD 83)
Site: Sec 27-T12S-R38E
Well: Trinity 27-22 State Com #4H
Wellbore: HZ [440537]
Design: Final

Local Co-ordinate Reference: Well Trinity 27-22 State Com #4H
TVD Reference: 13' KB @ 3811.00usft (Norton #4)
MD Reference: 13' KB @ 3811.00usft (Norton #4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
12,867.00	90.46	359.75	5,186.33	8,066.39	-79.79	8,066.75	1.43	-1.07	
12,962.00	90.90	359.66	5,185.21	8,161.38	-80.28	8,161.74	0.47	0.46	
13,056.00	91.47	359.57	5,183.26	8,255.36	-80.91	8,255.72	0.61	0.61	
13,151.00	92.18	359.40	5,180.24	8,350.31	-81.76	8,350.67	0.77	0.75	Last CES Survey
13,171.00	92.18	359.40	5,179.48	8,370.29	-81.97	8,370.66	0.00	0.00	LTP @ 100' FNL
13,215.00	92.18	359.40	5,177.80	8,414.26	-82.43	8,414.63	0.00	0.00	Actual BHL

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
PBHL P3 - Trinity 27-22	0.00	0.00	5,184.00	8,422.10	-106.90	828,534.00	921,866.20	33.271358	-103.088328
- actual wellpath misses target center by 26.43usft at 13215.00usft MD (5177.80 TVD, 8414.26 N, -82.43 E)									
- Point									
PBHL - Trinity 27-22 S.C	0.00	0.00	5,169.00	8,422.10	-106.90	828,534.00	921,866.20	33.271358	-103.088328
- actual wellpath misses target center by 27.16usft at 13215.00usft MD (5177.80 TVD, 8414.26 N, -82.43 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,237.00	2,236.90	-2.46	-5.11	Last Gyro Survey
5,437.00	5,168.16	639.98	0.10	FTP @ 2540' FNL
7,979.00	5,191.22	3,179.74	-22.91	Section Line Crossing
13,151.00	5,180.24	8,350.31	-81.76	Last CES Survey
13,171.00	5,179.48	8,370.29	-81.97	LTP @ 100' FNL
13,215.00	5,177.80	8,414.26	-82.43	Actual BHL

Checked By: _____ Approved By: _____ Date: _____