

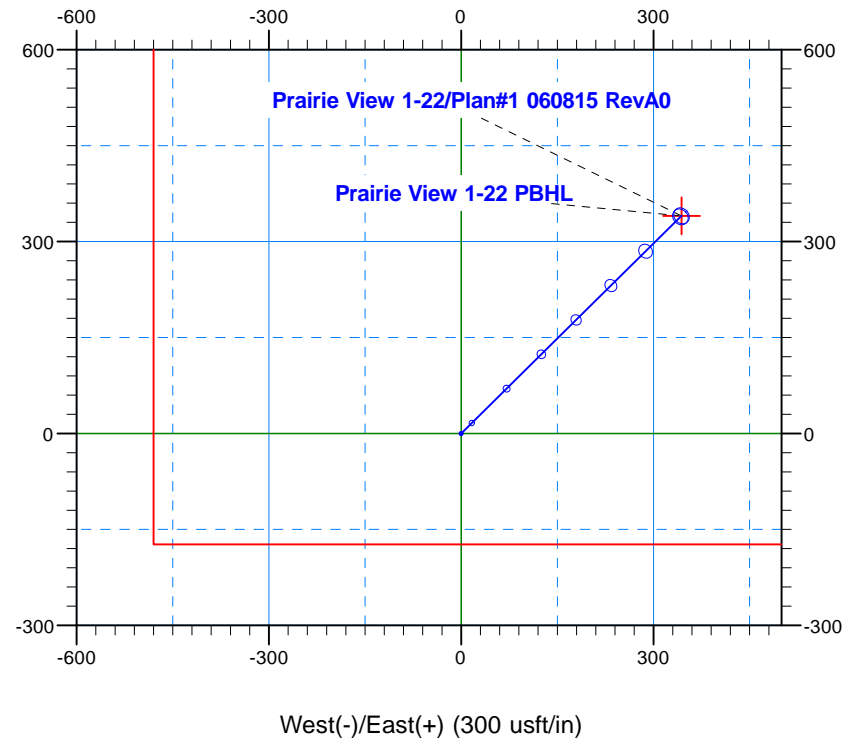
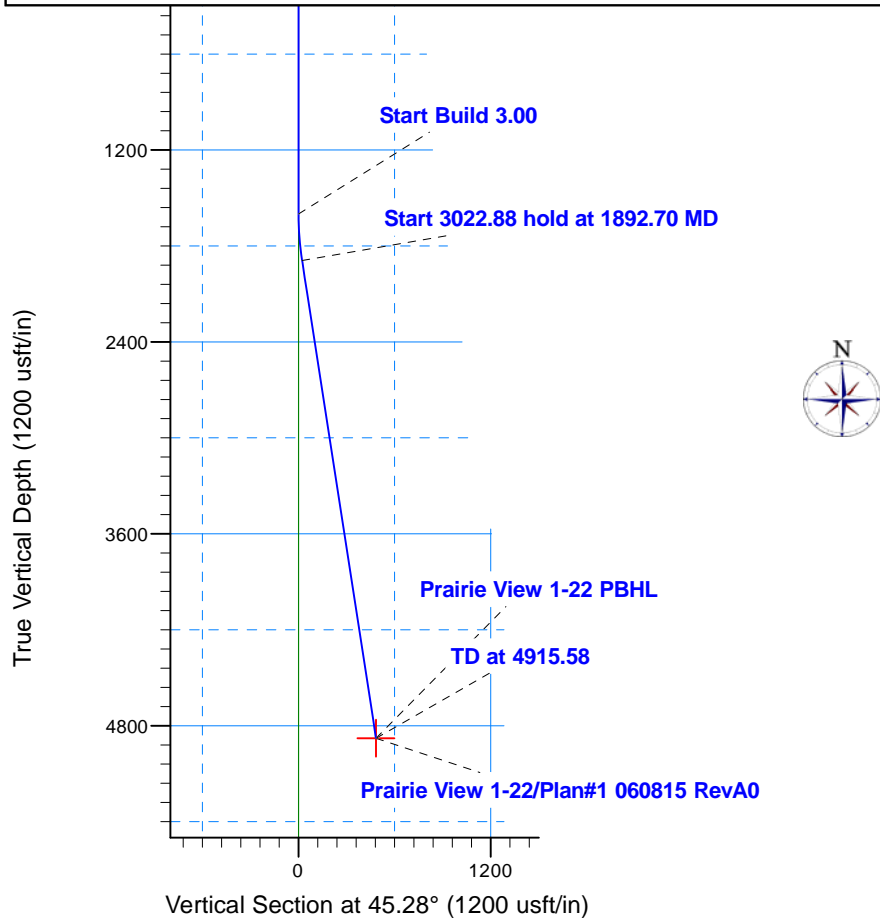
Plan: Plan#1 060815 RevA0 (Prairie View 1-22/Wellbore #1)
 Saxon 146

WELL DETAILS: Prairie View 1-22

	Ground Level:	2902.00		
Northing	Easting	Latitude	Longitude	
475154.56	1297562.18	37° 56' 47.112 N	100° 56' 10.449 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	-0.01	0.00	0.00	0.00	0.00	
1892.70	8.78	45.28	1891.56	15.75	15.91	3.00	45.28	22.39	
4915.58	8.78	45.28	4879.00	340.44	343.82	0.00	0.00	483.85	Prairie View 1-22 PBHL



South(+)/North(-) (300 usft/in)

Saxon 146

Merit Energy

Finney County, KS (NAD 27) Sec. 22, T24S-R33W

API#

Prairie View 1-22

173.41' FSL & 479.93' FWL

Wellbore #1

Plan: Plan#1 060815 RevA0

Sperry Drilling Services

Combo Report

08 June, 2015

Well Coordinates: 37° 56' 47.11" N
100° 56' 10.45" W

NAD 1927 (NADCON CONUS)
Kansas South 1502
475,154.56 N
1,297,562.18 E

Ground Level: 2,902.00 usft

Local Coordinate Origin:

Centered on Well Prairie View 1-22

Viewing Datum:

KB=14' @ 2916.00usft (Saxon 146)

TVDs to System:

N

North Reference:

Grid

Unit System:

Clyde

Version: 5000.1 Build: 73

Report Version: Midcon Combo v1.11

HALLIBURTON



Plan Report for Prairie View 1-22 - Plan#1 060815 RevA0

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing	Easting	Northing	Easting			
0.00	0.00	0.00	-2,916.00	0.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
100.00	0.00	0.00	-2,816.00	100.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
200.00	0.00	0.00	-2,716.00	200.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
300.00	0.00	0.00	-2,616.00	300.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
400.00	0.00	0.00	-2,516.00	400.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
500.00	0.00	0.00	-2,416.00	500.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
600.00	0.00	0.00	-2,316.00	600.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
700.00	0.00	0.00	-2,216.00	700.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
800.00	0.00	0.00	-2,116.00	800.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
900.00	0.00	0.00	-2,016.00	900.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,000.00	0.00	0.00	-1,916.00	1,000.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,100.00	0.00	0.00	-1,816.00	1,100.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,200.00	0.00	0.00	-1,716.00	1,200.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,300.00	0.00	0.00	-1,616.00	1,300.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,400.00	0.00	0.00	-1,516.00	1,400.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,500.00	0.00	0.00	-1,416.00	1,500.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	
1,600.00	0.00	0.00	-1,316.00	1,600.00	0.01 S	0.00 W	475,154.56	1,297,562.18	0.00	0.00	Start Build 3.00
1,700.00	3.00	45.28	-1,216.05	1,699.95	1.84 N	1.86 E	475,156.40	1,297,564.04	3.00	2.62	
1,800.00	6.00	45.28	-1,116.37	1,799.63	7.36 N	7.43 E	475,161.92	1,297,569.61	3.00	10.46	
1,892.70	8.78	45.28	-1,024.45	1,891.55	15.75 N	15.91 E	475,170.31	1,297,578.08	3.00	22.39	Start 3022.88 hold at 1892.70 MD
1,900.00	8.78	45.28	-1,017.23	1,898.77	16.53 N	16.70 E	475,171.09	1,297,578.88	0.00	23.50	
2,000.00	8.78	45.28	-918.40	1,997.60	27.27 N	27.55 E	475,181.83	1,297,589.72	0.00	38.77	
2,100.00	8.78	45.28	-819.57	2,096.43	38.01 N	38.39 E	475,192.58	1,297,600.57	0.00	54.03	
2,200.00	8.78	45.28	-720.75	2,195.25	48.75 N	49.24 E	475,203.32	1,297,611.42	0.00	69.30	
2,300.00	8.78	45.28	-621.92	2,294.08	59.49 N	60.09 E	475,214.06	1,297,622.27	0.00	84.56	
2,400.00	8.78	45.28	-523.09	2,392.91	70.24 N	70.94 E	475,224.80	1,297,633.12	0.00	99.83	
2,500.00	8.78	45.28	-424.26	2,491.74	80.98 N	81.79 E	475,235.54	1,297,643.96	0.00	115.09	
2,600.00	8.78	45.28	-325.43	2,590.57	91.72 N	92.63 E	475,246.28	1,297,654.81	0.00	130.36	
2,700.00	8.78	45.28	-226.61	2,689.39	102.46 N	103.48 E	475,257.02	1,297,665.66	0.00	145.63	
2,800.00	8.78	45.28	-127.78	2,788.22	113.20 N	114.33 E	475,267.76	1,297,676.51	0.00	160.89	
2,900.00	8.78	45.28	-28.95	2,887.05	123.94 N	125.18 E	475,278.50	1,297,687.35	0.00	176.16	
3,000.00	8.78	45.28	69.88	2,985.88	134.68 N	136.02 E	475,289.25	1,297,698.20	0.00	191.42	
3,100.00	8.78	45.28	168.70	3,084.70	145.42 N	146.87 E	475,299.99	1,297,709.05	0.00	206.69	
3,200.00	8.78	45.28	267.53	3,183.53	156.16 N	157.72 E	475,310.73	1,297,719.90	0.00	221.96	
3,300.00	8.78	45.28	366.36	3,282.36	166.91 N	168.57 E	475,321.47	1,297,730.75	0.00	237.22	
3,400.00	8.78	45.28	465.19	3,381.19	177.65 N	179.42 E	475,332.21	1,297,741.59	0.00	252.49	
3,500.00	8.78	45.28	564.02	3,480.02	188.39 N	190.26 E	475,342.95	1,297,752.44	0.00	267.75	
3,600.00	8.78	45.28	662.84	3,578.84	199.13 N	201.11 E	475,353.69	1,297,763.29	0.00	283.02	
3,700.00	8.78	45.28	761.67	3,677.67	209.87 N	211.96 E	475,364.43	1,297,774.14	0.00	298.29	
3,800.00	8.78	45.28	860.50	3,776.50	220.61 N	222.81 E	475,375.17	1,297,784.98	0.00	313.55	
3,900.00	8.78	45.28	959.33	3,875.33	231.35 N	233.65 E	475,385.92	1,297,795.83	0.00	328.82	

Plan Report for Prairie View 1-22 - Plan#1 060815 RevA0

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing	Easting	Northing	Easting			
4,000.00	8.78	45.28	1,058.16	3,974.16	242.09 N	244.50 E	475,396.66	1,297,806.68	0.00	344.08	
4,100.00	8.78	45.28	1,156.98	4,072.98	252.83 N	255.35 E	475,407.40	1,297,817.53	0.00	359.35	
4,200.00	8.78	45.28	1,255.81	4,171.81	263.58 N	266.20 E	475,418.14	1,297,828.38	0.00	374.61	
4,300.00	8.78	45.28	1,354.64	4,270.64	274.32 N	277.05 E	475,428.88	1,297,839.22	0.00	389.88	
4,400.00	8.78	45.28	1,453.47	4,369.47	285.06 N	287.89 E	475,439.62	1,297,850.07	0.00	405.15	
4,500.00	8.78	45.28	1,552.30	4,468.30	295.80 N	298.74 E	475,450.36	1,297,860.92	0.00	420.41	
4,600.00	8.78	45.28	1,651.12	4,567.12	306.54 N	309.59 E	475,461.10	1,297,871.77	0.00	435.68	
4,700.00	8.78	45.28	1,749.95	4,665.95	317.28 N	320.44 E	475,471.84	1,297,882.61	0.00	450.94	
4,800.00	8.78	45.28	1,848.78	4,764.78	328.02 N	331.28 E	475,482.59	1,297,893.46	0.00	466.21	
4,900.00	8.78	45.28	1,947.61	4,863.61	338.76 N	342.13 E	475,493.33	1,297,904.31	0.00	481.48	
4,915.58	8.78	45.28	1,963.00	4,879.00	340.44 N	343.82 E	475,495.00	1,297,906.00	0.00	483.85	TD at 4915.58

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,600.00	1,600.00	-0.01	0.00	Start Build 3.00
1,892.70	1,891.55	15.75	15.91	Start 3022.88 hold at 1892.70 MD
4,915.58	4,879.00	340.44	343.82	TD at 4915.58

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	+E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	45.28	Slot	-0.01	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	4,915.58	Plan#1 060815 RevA0	MWD+SC

Plan Report for Prairie View 1-22 - Plan#1 060815 RevA0

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
Prairie View 1-22 PBHL (813.4' FWL & 517' FSL)	0.00	360.00	4,879.00	340.44	343.82	475,495.00	1,297,906.00	37° 56' 50.566 N	100° 56' 6.270 W
- plan hits target center									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.18 °/100usft	Maximum Dogleg over Survey:	3.00 °/100usft at 1,892.70 usft
Net Tortousity applicable to Plans:	0.18 °/100usft	Directional Difficulty Index:	3.913

Audit Info

North Reference Sheet for Sec. 22, T24S-R33W - Prairie View 1-22 - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to KB=14' @ 2916.00usft (Saxon 146). Northing and Easting are relative to Prairie View 1-22

Coordinate System is US State Plane 1927 (Exact solution), Kansas South 1502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 98° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:37° 16' 0.000 N°

False Easting: 2,000,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99993605

Grid Coordinates of Well: 475,154.56 usft N, 1,297,562.18 usft E

Geographical Coordinates of Well: 37° 56' 47.11" N, 100° 56' 10.45" W

Grid Convergence at Surface is: -1.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 4,915.58usft the Bottom Hole Displacement is 483.85usft in the Direction of 45.28° (Grid).

Magnetic Convergence at surface is: -7.60° (8 June 2015, , BGGM2015)

