

30-025-4449J

PRIDE ENERGY COMPANY
LEADING THE OIL AND GAS INDUSTRY

Pride Energy Company

Lea County, New Mexico (NAD 83)

Paduca "16" State

503H

Wellbore #1

Plan: Design #1

Standard Planning Report

15 February, 2018



Database:	Conroe Server	Local Co-ordinate Reference:	Well 503H
Company:	Pride Energy Company	TVD Reference:	WELL @ 3447.00usft
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3447.00usft
Site:	Paduca "16" State	North Reference:	Grid
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site		Paduca "16" State			
Site Position:		Northing:	414,244.02 usft	Latitude:	32° 6' 20.688 N
From:	Map	Easting:	744,014.57 usft	Longitude:	109° 8' 40.363 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.54 °

Well	503H					
Well Position	+N/-S	-12.84 usft	Northing:	414,231.18 usft	Latitude:	32° 6' 20.282 N
	+E/-W	-1,048.12 usft	Easting:	742,966.46 usft	Longitude:	109° 8' 52.529 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,427.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2017	02/02/18	9.16	58.91	47,089

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	176.95

Plan Survey Tool Program	Date 02/15/18			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,313.79	Design #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

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Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	2.00	50.00	3,099.98	1.12	1.34	2.00	2.00	0.00	50.00	
5,200.00	2.00	50.00	5,198.70	48.23	57.48	0.00	0.00	0.00	0.00	
5,333.33	0.00	0.00	5,332.01	49.73	59.26	1.50	-1.50	0.00	180.00	
7,200.00	0.00	0.00	7,198.67	49.73	59.26	0.00	0.00	0.00	0.00	
7,449.98	5.00	52.57	7,448.34	56.35	67.92	2.00	2.00	0.00	52.57	
9,674.76	5.00	52.57	9,664.65	174.19	221.89	0.00	0.00	0.00	0.00	
10,008.07	0.00	0.00	9,997.54	183.02	233.43	1.50	-1.50	0.00	180.00	
10,108.07	0.00	0.00	10,097.54	183.02	233.43	0.00	0.00	0.00	0.00	
10,858.07	90.00	179.77	10,575.01	-294.44	235.31	12.00	12.00	23.97	179.77	
15,314.49	90.00	179.77	10,575.00	-4,750.83	252.85	0.00	0.00	0.00	0.00	PBHL - Paduca "16"

Database: Conroe Server
Company: Pride Energy Company
Project: Lea County, New Mexico (NAD 83)
Site: Paduca "16" State
Well: 503H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 503H
TVD Reference: WELL @ 3447.00usft
MD Reference: WELL @ 3447.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 2.00°/100' Build									
3,100.00	2.00	50.00	3,099.98	1.12	1.34	-1.05	2.00	2.00	0.00
Hold 2.00° Inc, 50.00° Azm									
3,200.00	2.00	50.00	3,199.92	3.37	4.01	-3.15	0.00	0.00	0.00
3,300.00	2.00	50.00	3,299.86	5.61	6.68	-5.25	0.00	0.00	0.00
3,400.00	2.00	50.00	3,399.80	7.85	9.36	-7.34	0.00	0.00	0.00
3,500.00	2.00	50.00	3,499.74	10.09	12.03	-9.44	0.00	0.00	0.00
3,600.00	2.00	50.00	3,599.68	12.34	14.70	-11.54	0.00	0.00	0.00
3,700.00	2.00	50.00	3,699.61	14.58	17.38	-13.64	0.00	0.00	0.00
3,800.00	2.00	50.00	3,799.55	16.82	20.05	-15.74	0.00	0.00	0.00
3,900.00	2.00	50.00	3,899.49	19.07	22.72	-17.83	0.00	0.00	0.00
4,000.00	2.00	50.00	3,999.43	21.31	25.40	-19.93	0.00	0.00	0.00
4,100.00	2.00	50.00	4,099.37	23.55	28.07	-22.03	0.00	0.00	0.00
4,200.00	2.00	50.00	4,199.31	25.80	30.74	-24.13	0.00	0.00	0.00
4,300.00	2.00	50.00	4,299.25	28.04	33.42	-26.23	0.00	0.00	0.00
4,400.00	2.00	50.00	4,399.19	30.28	36.09	-28.32	0.00	0.00	0.00
4,500.00	2.00	50.00	4,499.13	32.53	38.77	-30.42	0.00	0.00	0.00
4,600.00	2.00	50.00	4,599.07	34.77	41.44	-32.52	0.00	0.00	0.00
4,700.00	2.00	50.00	4,699.01	37.01	44.11	-34.62	0.00	0.00	0.00
4,800.00	2.00	50.00	4,798.94	39.26	46.79	-36.72	0.00	0.00	0.00
4,900.00	2.00	50.00	4,898.88	41.50	49.46	-38.81	0.00	0.00	0.00
5,000.00	2.00	50.00	4,998.82	43.74	52.13	-40.91	0.00	0.00	0.00
5,100.00	2.00	50.00	5,098.76	45.99	54.81	-43.01	0.00	0.00	0.00

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Company:	Pride Energy Company	TVD Reference:	WELL @ 3447.00usft
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Site:	Paduca "16" State	North Reference:	Grid
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned 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)
5,200.00	2.00	50.00	5,198.70	48.23	57.48	-45.11	0.00	0.00	0.00
Begin 1.50°/100' Drop									
5,300.00	0.50	50.00	5,298.67	49.63	59.15	-46.42	1.50	-1.50	0.00
5,333.33	0.00	0.00	5,332.01	49.73	59.26	-46.51	1.50	-1.50	0.00
Begin Vertical Hold									
5,400.00	0.00	0.00	5,398.67	49.73	59.26	-46.51	0.00	0.00	0.00
5,500.00	0.00	0.00	5,498.67	49.73	59.26	-46.51	0.00	0.00	0.00
5,600.00	0.00	0.00	5,598.67	49.73	59.26	-46.51	0.00	0.00	0.00
5,700.00	0.00	0.00	5,698.67	49.73	59.26	-46.51	0.00	0.00	0.00
5,800.00	0.00	0.00	5,798.67	49.73	59.26	-46.51	0.00	0.00	0.00
5,900.00	0.00	0.00	5,898.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,000.00	0.00	0.00	5,998.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,100.00	0.00	0.00	6,098.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,200.00	0.00	0.00	6,198.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,300.00	0.00	0.00	6,298.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,400.00	0.00	0.00	6,398.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,500.00	0.00	0.00	6,498.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,600.00	0.00	0.00	6,598.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,700.00	0.00	0.00	6,698.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,800.00	0.00	0.00	6,798.67	49.73	59.26	-46.51	0.00	0.00	0.00
6,900.00	0.00	0.00	6,898.67	49.73	59.26	-46.51	0.00	0.00	0.00
7,000.00	0.00	0.00	6,998.67	49.73	59.26	-46.51	0.00	0.00	0.00
7,100.00	0.00	0.00	7,098.67	49.73	59.26	-46.51	0.00	0.00	0.00
7,200.00	0.00	0.00	7,198.67	49.73	59.26	-46.51	0.00	0.00	0.00
Begin 2.00°/100' Build									
7,300.00	2.00	52.57	7,298.65	50.79	60.65	-47.49	2.00	2.00	0.00
7,400.00	4.00	52.57	7,398.51	53.97	64.80	-50.45	2.00	2.00	0.00
7,449.98	5.00	52.57	7,448.34	56.35	67.92	-52.66	2.00	2.00	0.00

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Company:	Pride Energy Company	TVD Reference:	WELL @ 3447.00usft
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3447.00usft
Site:	Paduca "16" State	North Reference:	Grid
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned 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)
9,700.00	4.62	52.57	9,689.80	175.47	223.57	-163.34	1.50	-1.50	0.00
9,800.00	3.12	52.57	9,789.57	179.57	228.94	-167.15	1.50	-1.50	0.00
9,900.00	1.62	52.57	9,889.48	182.09	232.22	-169.49	1.50	-1.50	0.00
10,008.07	0.00	0.00	9,997.54	183.02	233.43	-170.35	1.50	-1.50	0.00
Begin Vertical Hold									
10,108.07	0.00	0.00	10,097.54	183.02	233.43	-170.35	0.00	0.00	0.00
Begin 12.00°/100' Build									
10,125.00	2.03	179.77	10,114.47	182.72	233.44	-170.05	12.00	12.00	0.00
10,150.00	5.03	179.77	10,139.41	181.18	233.44	-168.52	12.00	12.00	0.00
10,175.00	8.03	179.77	10,164.25	178.33	233.45	-165.68	12.00	12.00	0.00
10,200.00	11.03	179.77	10,188.90	174.20	233.47	-161.54	12.00	12.00	0.00
10,225.00	14.03	179.77	10,213.30	168.77	233.49	-156.12	12.00	12.00	0.00
10,250.00	17.03	179.77	10,237.39	162.08	233.52	-149.44	12.00	12.00	0.00
10,275.00	20.03	179.77	10,261.09	154.13	233.55	-141.50	12.00	12.00	0.00
10,300.00	23.03	179.77	10,284.34	144.96	233.58	-132.34	12.00	12.00	0.00
10,325.00	26.03	179.77	10,307.08	134.58	233.63	-121.97	12.00	12.00	0.00
10,350.00	29.03	179.77	10,329.25	123.03	233.67	-110.43	12.00	12.00	0.00
10,375.00	32.03	179.77	10,350.78	110.33	233.72	-97.75	12.00	12.00	0.00
10,400.00	35.03	179.77	10,371.62	96.52	233.78	-83.96	12.00	12.00	0.00
10,425.00	38.03	179.77	10,391.70	81.64	233.83	-69.10	12.00	12.00	0.00
10,450.00	41.03	179.77	10,410.98	65.73	233.90	-53.21	12.00	12.00	0.00
10,475.00	44.03	179.77	10,429.40	48.83	233.96	-36.33	12.00	12.00	0.00
10,500.00	47.03	179.77	10,446.91	30.99	234.03	-18.51	12.00	12.00	0.00
10,525.00	50.03	179.77	10,463.47	12.26	234.11	0.20	12.00	12.00	0.00
10,550.00	53.03	179.77	10,479.02	-7.31	234.18	19.74	12.00	12.00	0.00
10,57									

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Planned 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)
12,300.00	90.00	179.77	10,575.00	-1,736.36	240.99	1,746.71	0.00	0.00	0.00
12,400.00	90.00	179.77	10,575.00	-1,836.36	241.38	1,846.59	0.00	0.00	0.00
12,500.00	90.00	179.77	10,575.00	-1,936.36	241.78	1,946.47	0.00	0.00	0.00
12,600.00	90.00	179.77	10,575.00	-2,036.36	242.17	2,046.35	0.00	0.00	0.00
12,700.00	90.00	179.77	10,575.00	-2,136.36	242.56	2,146.23	0.00	0.00	0.00
12,800.00	90.00	179.77	10,575.00	-2,236.36	242.96	2,246.11	0.00	0.00	0.00
12,900.00	90.00	179.77	10,575.00	-2,336.36	243.35	2,345.99	0.00	0.00	0.00
13,000.00	90.00	179.77	10,575.00	-2,436.36	243.74	2,445.87	0.00	0.00	0.00
13,100.00	90.00	179.77	10,575.00	-2,536.35	244.14	2,545.74	0.00	0.00	0.00
13,200.00	90.00	179.77	10,575.00	-2,636.35	244.53	2,645.62	0.00	0.00	0.00
13,300.00	90.00	179.77	10,575.00	-2,736.35	244.92	2,745.50	0.00	0.00	0.00
13,400.00	90.00	179.77	10,575.00	-2,836.35	245.32	2,845.38	0.00	0.00	0.00
13,500.00	90.00	179.77	10,575.00	-2,936.35	245.71	2,945.26	0.00	0.00	0.00
13,600.00	90.00	179.77	10,575.00	-3,036.35	246.10	3,045.14	0.00	0.00	0.00
13,700.00	90.00	179.77	10,575.00	-3,136.35	246.50	3,145.02	0.00	0.00	0.00
13,800.00	90.00	179.77	10,575.00	-3,236.35	246.89	3,244.90	0.00	0.00	0.00
13,900.00	90.00	179.77	10,575.00	-3,336.35	247.28	3,344.78	0.00	0.00	0.00
14,000.00	90.00	179.77	10,575.00	-3,436.35	247.68	3,444.65	0.00	0.00	0.00
14,100.00	90.00	179.77	10,575.00	-3,536.35	248.07	3,544.53	0.00	0.00	0.00
14,200.00	90.00	179.77	10,575.00	-3,636.35	248.47	3,644.41	0.00	0.00	0.00
14,300.00	90.00	179.77	10,575.00	-3,736.35	248.86	3,744.29	0.00	0.00	0.00
14,400.00	90.00	179.77	10,575.00	-3,836.34	249.25	3,844.17	0.00	0.00	0.00
14,500.00	90.00	179.77	10,575.00	-3,936.34	249.65	3,944.05	0.00	0.00	0.00
14,600.00	90.00	179.77	10,575.00	-4,036.34	250.04	4,043.93	0.00	0.00	0.00
14,700.00	90.00	179.77	10,575.00	-4,136.34	250.43	4,143.81	0.00	0.00	0.00
14,800.00	90.00	179.77	10,575.00	-4,236.34	250.83	4,243.68	0.00	0.00	0.00
14,900.00	90.00	179.77	10,575.00	-4,336.34	251.22	4,343.56	0.00	0.00	0.00
15,000.00	90.00	179.77	10,575.00	-4,436.34	251.61	4,443.44	0.00	0.00	0.00
15,100.00	90.00	179.77	10,575.00	-4,536.34	252.01	4,543.32	0.00	0.00	0.00
15,200.00	90.00	179.77	10,575.00	-4,636.34	252.40	4,643.20	0.00	0.00	0.00
15,300.00	90.00	179.77	10,575.00	-4,736.34	252.79	4,743.08	0.00	0.00	0.00
15,314.49	90.00	179.77	10,575.00	-4,750.83	252.85	4,757.55	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
VP - Paduca "16" Stal	0.00	360.00	9,997.54	183.02	233.43	414,414.20	743,199.89	32° 6' 22.153 N	109° 8' 49.876 W
- plan hits target center									
- Point									
PBHL - Paduca "16" S	0.00	360.00	10,575.00	-4,750.83	252.85	409,480.35	743,219.31	32° 5' 33.394 N	109° 8' 48.110 W
- plan hits target center									
- Point									