

April 6, 2020



**END OF WELL
REPORT
FOR**

**STEWARD ENERGY
Slippin Jimmy Fee 1H
Lea County, NM
DM-2020-050-SEDN NM**



PLAN vs ACTUAL

SURVEYS

BOTTOM HOLE ASSEMBLIES

SLIDE REPORTS

DAILY REPORTS

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC
Slippin Jimmy Fee 1H
Wellbore #1
Plan #2
Norton 6



SURFACE LOCATION

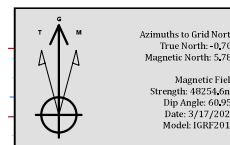
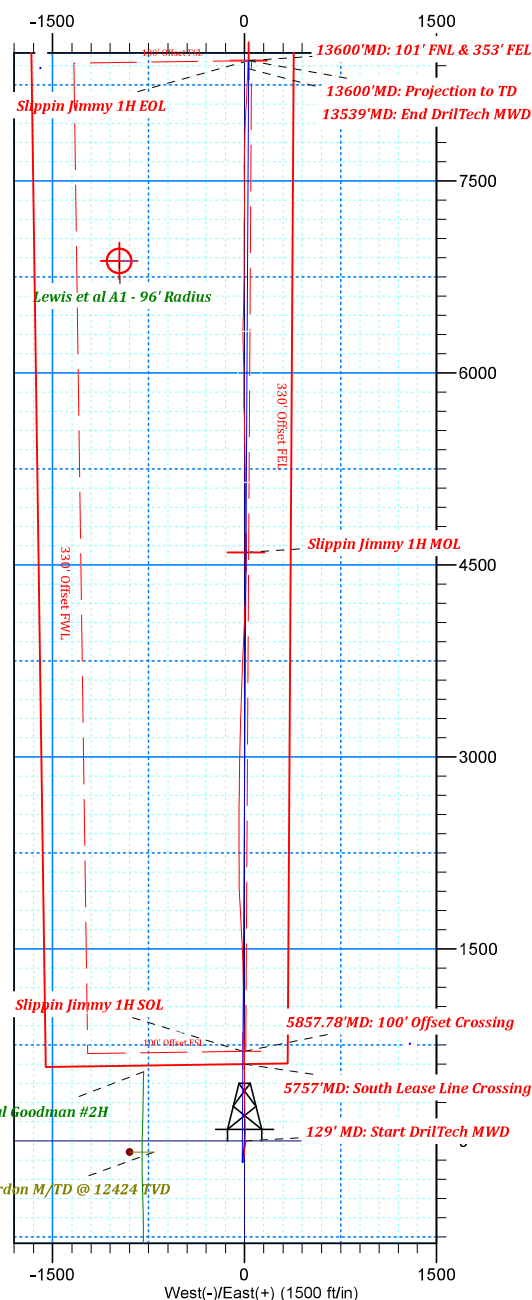
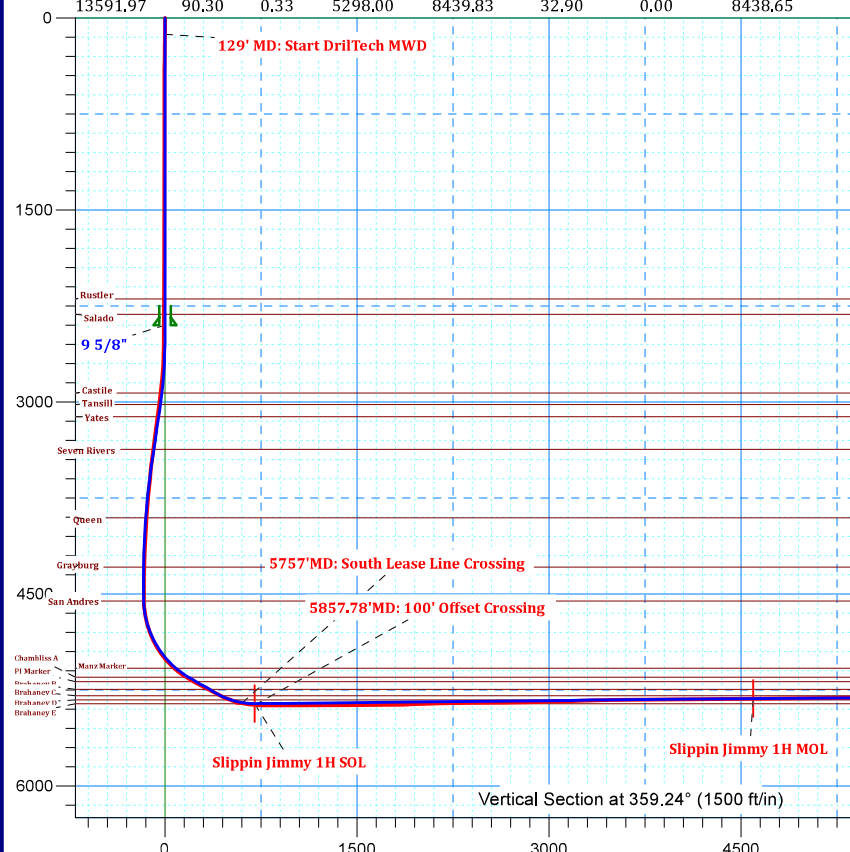
US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
 Northing 788492.14 Easting 930245.16 Latitude 33.161 Longitude -103.063

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Lewis et al A1 - 96' Radius	0.00	6874.91	-979.30	795367.04	929265.87
Slippin Jimmy 1H EOL	5298.00	8439.83	32.90	796931.95	930278.06
Slippin Jimmy 1H MOL	5318.00	4595.64	10.64	793087.77	930255.80
Slippin Jimmy 1H SOL	5358.00	700.15	-12.48	789192.29	930232.68

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00
3062.63	8.44	186.02	3060.60	-41.13	-4.34	1.50	-41.07
3501.92	8.44	186.02	3495.13	-105.25	-11.11	0.00	-105.09
4345.87	0.00	0.00	4336.03	-166.95	-17.62	1.00	-166.70
4545.87	0.00	0.00	4536.03	-166.95	-17.62	0.00	-166.70
5295.87	60.00	0.34	5156.28	191.14	-15.50	8.00	191.33
5545.87	60.00	0.34	5281.28	407.64	-14.21	0.00	407.80
5851.75	90.59	0.34	5358.01	700.00	-12.48	10.00	700.11
9747.66	90.59	0.34	5318.00	4595.64	10.64	0.00	4595.09
9762.20	90.30	0.33	5317.89	4610.18	10.73	2.00	4609.63
13591.97	90.30	0.33	5298.00	8439.83	32.90	0.00	8438.65



Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Slippin Jimmy Fee 1H

Slippin Jimmy Fee 1H

Wellbore #1

Survey: DrillTech MWD

Standard Survey Report

01 April, 2020

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

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

Site	Slippin Jimmy Fee 1H						
Site Position:		Northing:	788,492.14	usft	Latitude:	33.161	
From:	Map	Easting:	930,245.16	usft	Longitude:	-103.063	
Position Uncertainty:	0.00	ft	Slot Radius:	13.200	in	Grid Convergence:	0.70 °

Well	Slippin Jimmy Fee 1H					
Well Position	+N/-S	0.00 ft	Northing:	788,492.14 usft	Latitude:	33.161
	+E/-W	0.00 ft	Easting:	930,245.16 usft	Longitude:	-103.063
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,791.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/17/2020	6.48	60.95	48,254.55810579

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.24	

Survey Program	Date	4/1/2020			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
129.00	13,600.00	DrilTech MWD (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
129.00	0.70	135.68	129.00	-0.56	0.55	-0.57	0.54	0.54	0.00	
129' MD: Start DrilTech MWD										
223.00	1.14	129.44	222.98	-1.57	1.67	-1.59	0.48	0.47	-6.64	
315.00	0.79	106.24	314.97	-2.33	2.99	-2.37	0.56	-0.38	-25.22	
407.00	0.70	99.12	406.96	-2.59	4.15	-2.65	0.14	-0.10	-7.74	
498.00	0.62	107.73	497.96	-2.83	5.17	-2.90	0.14	-0.09	9.46	
590.00	0.62	105.18	589.95	-3.11	6.13	-3.19	0.03	0.00	-2.77	
685.00	0.53	102.81	684.95	-3.35	7.05	-3.44	0.10	-0.09	-2.49	
779.00	0.53	109.75	778.94	-3.59	7.88	-3.69	0.07	0.00	7.38	

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Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
872.00	0.62	92.18	871.94	-3.75	8.79	-3.87	0.21	0.10	-18.89	
964.00	0.53	90.86	963.93	-3.78	9.71	-3.91	0.10	-0.10	-1.43	
1,059.00	0.62	106.59	1,058.93	-3.93	10.65	-4.07	0.19	0.09	16.56	
1,153.00	0.62	103.34	1,152.92	-4.19	11.63	-4.35	0.04	0.00	-3.46	
1,248.00	0.35	85.85	1,247.92	-4.29	12.42	-4.46	0.32	-0.28	-18.41	
1,342.00	0.18	109.67	1,341.92	-4.32	12.84	-4.49	0.21	-0.18	25.34	
1,435.00	0.26	130.32	1,434.92	-4.51	13.14	-4.68	0.12	0.09	22.20	
1,521.00	0.62	141.13	1,520.92	-5.00	13.58	-5.18	0.43	0.42	12.57	
1,621.00	0.44	121.18	1,620.91	-5.62	14.25	-5.80	0.26	-0.18	-19.95	
1,716.00	0.35	114.59	1,715.91	-5.93	14.83	-6.12	0.11	-0.09	-6.94	
1,810.00	0.26	131.38	1,809.91	-6.19	15.25	-6.39	0.13	-0.10	17.86	
1,904.00	0.18	136.03	1,903.91	-6.43	15.51	-6.64	0.09	-0.09	4.95	
1,998.00	0.26	128.39	1,997.91	-6.67	15.78	-6.88	0.09	0.09	-8.13	
2,089.00	0.09	186.57	2,088.91	-6.87	15.93	-7.08	0.25	-0.19	63.93	
2,183.00	0.09	232.45	2,182.91	-6.99	15.87	-7.20	0.07	0.00	48.81	
2,277.00	0.44	265.58	2,276.91	-7.06	15.45	-7.27	0.39	0.37	35.24	
2,372.00	0.79	265.15	2,371.90	-7.15	14.43	-7.34	0.37	0.37	-0.45	
2,484.00	0.88	240.01	2,483.89	-7.64	12.92	-7.81	0.33	0.08	-22.45	
2,578.00	1.58	216.54	2,577.87	-9.04	11.52	-9.19	0.90	0.74	-24.97	
2,673.00	2.46	206.17	2,672.81	-11.92	9.84	-12.05	1.00	0.93	-10.92	
2,766.00	4.40	195.71	2,765.64	-17.15	8.00	-17.26	2.18	2.09	-11.25	
2,861.00	6.24	190.53	2,860.22	-25.74	6.06	-25.81	2.00	1.94	-5.45	
2,956.00	7.65	190.26	2,954.52	-37.03	3.99	-37.08	1.48	1.48	-0.28	
3,049.00	7.74	192.20	3,046.69	-49.25	1.57	-49.26	0.30	0.10	2.09	
3,141.00	7.03	190.26	3,137.92	-60.84	-0.74	-60.83	0.82	-0.77	-2.11	
3,236.00	6.86	189.21	3,232.23	-72.16	-2.69	-72.12	0.22	-0.18	-1.11	
3,331.00	7.47	190.97	3,326.48	-83.83	-4.77	-83.76	0.68	0.64	1.85	
3,424.00	7.65	188.94	3,418.68	-95.88	-6.88	-95.78	0.35	0.19	-2.18	
3,519.00	6.68	184.73	3,512.93	-107.63	-8.32	-107.51	1.16	-1.02	-4.43	
3,614.00	6.51	185.34	3,607.31	-118.50	-9.28	-118.36	0.19	-0.18	0.64	
3,709.00	5.54	185.60	3,701.78	-128.42	-10.23	-128.28	1.02	-1.02	0.27	
3,803.00	4.75	182.53	3,795.40	-136.83	-10.84	-136.67	0.89	-0.84	-3.27	
3,898.00	3.61	180.24	3,890.15	-143.75	-11.03	-143.59	1.21	-1.20	-2.41	
3,991.00	3.34	178.05	3,982.97	-149.38	-10.95	-149.23	0.32	-0.29	-2.35	
4,086.00	2.29	183.14	4,077.86	-154.04	-10.96	-153.89	1.14	-1.11	5.36	
4,180.00	2.20	178.22	4,171.79	-157.72	-11.00	-157.56	0.23	-0.10	-5.23	
4,275.00	2.20	180.51	4,266.72	-161.37	-10.96	-161.21	0.09	0.00	2.41	
4,369.00	1.49	168.64	4,360.67	-164.37	-10.74	-164.21	0.85	-0.76	-12.63	
4,462.00	0.53	139.81	4,453.65	-165.89	-10.22	-165.74	1.14	-1.03	-31.00	
4,556.00	1.32	15.36	4,547.65	-165.17	-9.66	-165.03	1.78	0.84	-132.39	

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4,587.00	3.08	5.08	4,578.62	-164.00	-9.49	-163.86	5.80	5.68	-33.16	
4,619.00	5.19	3.58	4,610.54	-161.70	-9.32	-161.56	6.60	6.59	-4.69	
4,651.00	7.47	3.93	4,642.34	-158.18	-9.09	-158.04	7.13	7.13	1.09	
4,682.00	10.11	5.87	4,672.97	-153.46	-8.67	-153.33	8.57	8.52	6.26	
4,714.00	12.93	5.87	4,704.32	-147.10	-8.02	-146.98	8.81	8.81	0.00	
4,746.00	15.39	5.34	4,735.35	-139.31	-7.26	-139.21	7.70	7.69	-1.66	
4,778.00	17.50	5.96	4,766.04	-130.30	-6.36	-130.20	6.62	6.59	1.94	
4,809.00	20.05	6.83	4,795.39	-120.39	-5.25	-120.31	8.28	8.23	2.81	
4,841.00	22.60	6.75	4,825.19	-108.83	-3.87	-108.77	7.97	7.97	-0.25	
4,873.00	25.24	7.54	4,854.44	-95.96	-2.25	-95.92	8.31	8.25	2.47	
4,905.00	27.96	7.80	4,883.05	-81.76	-0.34	-81.75	8.51	8.50	0.81	
4,937.00	30.07	6.83	4,911.04	-66.37	1.63	-66.38	6.76	6.59	-3.03	
4,968.00	32.71	5.08	4,937.50	-50.31	3.30	-50.35	9.01	8.52	-5.65	
5,000.00	35.44	3.76	4,964.00	-32.44	4.67	-32.49	8.84	8.53	-4.13	
5,032.00	37.81	1.82	4,989.68	-13.37	5.59	-13.44	8.24	7.41	-6.06	
5,064.00	40.19	0.86	5,014.55	6.76	6.06	6.68	7.67	7.44	-3.00	
5,096.00	42.82	359.80	5,038.51	27.96	6.18	27.88	8.51	8.22	-3.31	
5,128.00	45.73	358.75	5,061.42	50.30	5.89	50.21	9.38	9.09	-3.28	
5,159.00	48.28	358.57	5,082.56	72.96	5.36	72.89	8.24	8.23	-0.58	
5,191.00	51.00	358.31	5,103.28	97.34	4.69	97.26	8.52	8.50	-0.81	
5,223.00	53.55	358.31	5,122.86	122.63	3.95	122.57	7.97	7.97	0.00	
5,255.00	56.37	358.66	5,141.23	148.82	3.26	148.76	8.86	8.81	1.09	
5,286.00	59.27	359.28	5,157.74	175.05	2.79	175.00	9.51	9.35	2.00	
5,318.00	60.76	359.36	5,173.73	202.77	2.46	202.72	4.66	4.66	0.25	
5,350.00	61.20	359.45	5,189.25	230.75	2.17	230.70	1.40	1.38	0.28	
5,382.00	61.38	359.72	5,204.63	258.81	1.96	258.76	0.93	0.56	0.84	
5,413.00	61.47	0.15	5,219.45	286.04	1.93	285.98	1.25	0.29	1.39	
5,445.00	61.64	0.07	5,234.70	314.17	1.99	314.12	0.57	0.53	-0.25	
5,477.00	62.08	359.63	5,249.79	342.39	1.91	342.33	1.83	1.38	-1.38	
5,509.00	62.08	359.72	5,264.77	370.66	1.75	370.61	0.25	0.00	0.28	
5,539.00	62.43	359.72	5,278.74	397.22	1.62	397.16	1.17	1.17	0.00	
5,571.00	62.87	0.07	5,293.44	425.64	1.57	425.58	1.68	1.38	1.09	
5,602.00	65.33	359.80	5,306.98	453.52	1.54	453.46	7.97	7.94	-0.87	
5,634.00	68.59	359.80	5,319.50	482.97	1.44	482.90	10.19	10.19	0.00	
5,666.00	71.05	359.72	5,330.54	513.00	1.31	512.94	7.69	7.69	-0.25	
5,697.00	73.25	359.45	5,340.04	542.50	1.10	542.44	7.15	7.10	-0.87	
5,729.00	75.97	359.36	5,348.53	573.35	0.78	573.29	8.50	8.50	-0.28	
5,757.00	78.27	359.29	5,354.77	600.64	0.45	600.58	8.23	8.23	-0.26	
5757'MD: South Lease Line Crossing										
5,760.00	78.52	359.28	5,355.38	603.58	0.42	603.52	8.23	8.23	-0.26	

Survey Report

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Survey										
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5,791.00	80.72	359.54	5,360.96	634.07	0.10	634.01	7.14	7.10	0.84	
5,823.00	82.75	359.54	5,365.56	665.74	-0.15	665.68	6.34	6.34	0.00	
5,854.00	85.12	359.10	5,368.84	696.56	-0.52	696.50	7.77	7.65	-1.42	
5,857.78	85.39	359.03	5,369.15	700.32	-0.58	700.27	7.40	7.16	-1.91	
5857.78'MD: 100' Offset Crossing										
5,886.00	87.41	358.49	5,370.92	728.48	-1.19	728.43	7.40	7.16	-1.91	
5,918.00	89.60	358.75	5,371.76	760.46	-1.96	760.42	6.89	6.84	0.81	
5,949.00	90.04	358.31	5,371.85	791.45	-2.75	791.41	2.01	1.42	-1.42	
5,981.00	90.57	358.22	5,371.68	823.43	-3.72	823.41	1.68	1.66	-0.28	
6,074.00	89.34	359.19	5,371.76	916.41	-5.83	916.40	1.68	-1.32	1.04	
6,169.00	89.96	359.19	5,372.34	1,011.39	-7.17	1,011.40	0.65	0.65	0.00	
6,262.00	91.19	359.80	5,371.40	1,104.38	-7.99	1,104.39	1.48	1.32	0.66	
6,357.00	89.87	359.36	5,370.52	1,199.37	-8.68	1,199.38	1.46	-1.39	-0.46	
6,451.00	90.22	358.92	5,370.45	1,293.36	-10.10	1,293.38	0.60	0.37	-0.47	
6,547.00	91.63	358.05	5,368.90	1,389.31	-12.63	1,389.36	1.73	1.47	-0.91	
6,640.00	89.25	357.78	5,368.19	1,482.24	-16.02	1,482.33	2.58	-2.56	-0.29	
6,733.00	89.25	357.52	5,369.40	1,575.16	-19.83	1,575.28	0.28	0.00	-0.28	
6,828.00	90.22	357.43	5,369.84	1,670.06	-24.01	1,670.23	1.03	1.02	-0.09	
6,921.00	90.75	356.11	5,369.06	1,762.91	-29.25	1,763.14	1.53	0.57	-1.42	
7,016.00	92.95	356.46	5,365.99	1,857.65	-35.41	1,857.96	2.34	2.32	0.37	
7,112.00	92.77	358.75	5,361.20	1,953.44	-39.41	1,953.80	2.39	-0.19	2.39	
7,207.00	91.01	359.45	5,358.07	2,048.38	-40.90	2,048.74	1.99	-1.85	0.74	
7,302.00	91.98	359.89	5,355.59	2,143.34	-41.45	2,143.70	1.12	1.02	0.46	
7,398.00	91.36	359.54	5,352.79	2,239.30	-41.93	2,239.66	0.74	-0.65	-0.36	
7,493.00	89.78	0.24	5,351.84	2,334.29	-42.11	2,334.64	1.82	-1.66	0.74	
7,589.00	90.75	0.68	5,351.40	2,430.28	-41.34	2,430.62	1.11	1.01	0.46	
7,684.00	89.69	0.15	5,351.03	2,525.28	-40.65	2,525.60	1.25	-1.12	-0.56	
7,779.00	91.89	359.80	5,349.73	2,620.26	-40.69	2,620.57	2.34	2.32	-0.37	
7,875.00	90.48	0.77	5,347.74	2,716.24	-40.21	2,716.53	1.78	-1.47	1.01	
7,968.00	90.31	359.98	5,347.10	2,809.23	-39.61	2,809.51	0.87	-0.18	-0.85	
8,063.00	92.33	1.03	5,344.91	2,904.20	-38.77	2,904.46	2.40	2.13	1.11	
8,158.00	91.89	1.56	5,341.41	2,999.11	-36.62	2,999.33	0.72	-0.46	0.56	
8,254.00	89.69	1.30	5,340.09	3,095.07	-34.23	3,095.25	2.31	-2.29	-0.27	
8,368.00	92.59	1.30	5,337.82	3,209.00	-31.64	3,209.14	2.54	2.54	0.00	
8,463.00	91.89	0.86	5,334.11	3,303.91	-29.85	3,304.02	0.87	-0.74	-0.46	
8,558.00	90.92	2.18	5,331.78	3,398.85	-27.33	3,398.91	1.72	-1.02	1.39	
8,652.00	90.22	2.09	5,330.84	3,492.78	-23.83	3,492.78	0.75	-0.74	-0.10	
8,747.00	90.57	2.18	5,330.19	3,587.71	-20.29	3,587.66	0.38	0.37	0.09	
8,843.00	90.48	2.53	5,329.31	3,683.62	-16.35	3,683.51	0.38	-0.09	0.36	
8,938.00	91.01	2.70	5,328.07	3,778.51	-12.02	3,778.34	0.59	0.56	0.18	

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,033.00	90.48	2.53	5,326.84	3,873.41	-7.68	3,873.17	0.59	-0.56	-0.18	
9,125.00	90.57	2.09	5,326.00	3,965.33	-3.97	3,965.03	0.49	0.10	-0.48	
9,216.00	90.48	2.53	5,325.16	4,056.25	-0.31	4,055.90	0.49	-0.10	0.48	
9,308.00	90.66	3.06	5,324.25	4,148.14	4.18	4,147.72	0.61	0.20	0.58	
9,399.00	90.66	2.44	5,323.20	4,239.02	8.55	4,238.54	0.68	0.00	-0.68	
9,491.00	91.10	0.59	5,321.79	4,330.98	10.98	4,330.45	2.07	0.48	-2.01	
9,585.00	90.66	0.68	5,320.34	4,424.96	12.02	4,424.41	0.48	-0.47	0.10	
9,677.00	90.75	1.03	5,319.21	4,516.94	13.39	4,516.37	0.39	0.10	0.38	
9,769.00	89.96	358.92	5,318.64	4,608.94	13.35	4,608.35	2.45	-0.86	-2.29	
9,861.00	89.96	358.49	5,318.70	4,700.91	11.27	4,700.35	0.47	0.00	-0.47	
9,953.00	90.13	359.01	5,318.63	4,792.89	9.27	4,792.34	0.59	0.18	0.57	
10,048.00	90.48	359.28	5,318.13	4,887.88	7.85	4,887.34	0.47	0.37	0.28	
10,143.00	90.92	0.42	5,316.97	4,982.87	7.60	4,982.33	1.29	0.46	1.20	
10,238.00	89.96	359.45	5,316.24	5,077.86	7.49	5,077.32	1.44	-1.01	-1.02	
10,331.00	90.31	359.54	5,316.02	5,170.86	6.67	5,170.32	0.39	0.38	0.10	
10,426.00	90.40	359.10	5,315.43	5,265.85	5.54	5,265.31	0.47	0.09	-0.46	
10,521.00	90.84	359.45	5,314.40	5,360.84	4.34	5,360.31	0.59	0.46	0.37	
10,614.00	89.87	358.31	5,313.82	5,453.81	2.52	5,453.30	1.61	-1.04	-1.23	
10,709.00	90.13	359.19	5,313.82	5,548.79	0.45	5,548.30	0.97	0.27	0.93	
10,804.00	90.48	358.57	5,313.32	5,643.77	-1.40	5,643.29	0.75	0.37	-0.65	
10,899.00	90.57	358.84	5,312.45	5,738.74	-3.55	5,738.28	0.30	0.09	0.28	
10,993.00	90.40	359.89	5,311.65	5,832.73	-4.59	5,832.28	1.13	-0.18	1.12	
11,088.00	89.60	359.54	5,311.65	5,927.73	-5.07	5,927.28	0.92	-0.84	-0.37	
11,184.00	89.60	359.28	5,312.32	6,023.72	-6.05	6,023.27	0.27	0.00	-0.27	
11,279.00	89.78	358.75	5,312.84	6,118.71	-7.69	6,118.27	0.59	0.19	-0.56	
11,375.00	90.22	359.01	5,312.84	6,214.69	-9.56	6,214.27	0.53	0.46	0.27	
11,470.00	90.40	359.80	5,312.32	6,309.68	-10.55	6,309.27	0.85	0.19	0.83	
11,566.00	90.75	0.77	5,311.36	6,405.67	-10.07	6,405.24	1.07	0.36	1.01	
11,660.00	90.84	1.91	5,310.05	6,499.64	-7.87	6,499.17	1.22	0.10	1.21	
11,755.00	90.48	1.21	5,308.96	6,594.59	-5.29	6,594.08	0.83	-0.38	-0.74	
11,849.00	90.66	0.95	5,308.02	6,688.57	-3.52	6,688.03	0.34	0.19	-0.28	
11,945.00	90.04	0.24	5,307.44	6,784.56	-2.52	6,784.00	0.98	-0.65	-0.74	
12,039.00	88.99	359.72	5,308.23	6,878.56	-2.55	6,877.99	1.25	-1.12	-0.55	
12,134.00	89.60	0.33	5,309.40	6,973.55	-2.51	6,972.97	0.91	0.64	0.64	
12,228.00	90.22	359.89	5,309.55	7,067.55	-2.33	7,066.96	0.81	0.66	-0.47	
12,323.00	91.01	0.95	5,308.53	7,162.54	-1.63	7,161.93	1.39	0.83	1.12	
12,418.00	90.31	0.42	5,307.44	7,257.53	-0.50	7,256.89	0.92	-0.74	-0.56	
12,512.00	90.40	0.07	5,306.85	7,351.52	-0.10	7,350.88	0.38	0.10	-0.37	
12,605.00	90.57	359.45	5,306.07	7,444.52	-0.49	7,443.87	0.69	0.18	-0.67	
12,700.00	90.75	359.98	5,304.97	7,539.51	-0.96	7,538.86	0.59	0.19	0.56	

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,794.00	90.92	359.36	5,303.60	7,633.50	-1.50	7,632.85	0.68	0.18	-0.66	
12,887.00	90.84	1.12	5,302.17	7,726.48	-1.11	7,725.82	1.89	-0.09	1.89	
12,980.00	91.10	2.35	5,300.60	7,819.43	1.70	7,818.72	1.35	0.28	1.32	
13,074.00	89.96	1.91	5,299.73	7,913.36	5.20	7,912.59	1.30	-1.21	-0.47	
13,168.00	90.22	2.62	5,299.58	8,007.28	8.91	8,006.46	0.80	0.28	0.76	
13,263.00	90.66	3.23	5,298.85	8,102.15	13.76	8,101.26	0.79	0.46	0.64	
13,358.00	90.57	2.09	5,297.83	8,197.04	18.17	8,196.08	1.20	-0.09	-1.20	
13,453.00	90.13	4.02	5,297.25	8,291.90	23.23	8,290.87	2.08	-0.46	2.03	
13,539.00	89.60	2.00	5,297.46	8,377.78	27.75	8,376.67	2.43	-0.62	-2.35	
13539'MD: End DrillTech MWD										
13,600.00	89.60	2.00	5,297.88	8,438.74	29.88	8,437.60	0.00	0.00	0.00	
13600'MD: Projection to TD - 13600'MD: 101' FNL & 353' FEL										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
129.00	129.00	-0.56	0.55	129' MD: Start DrillTech MWD	
5,757.00	5,354.77	600.64	0.45	5757'MD: South Lease Line Crossing	
5,857.78	5,369.15	700.32	-0.58	5857.78'MD: 100' Offset Crossing	
13,539.00	5,297.46	8,377.78	27.75	13539'MD: End DrillTech MWD	
13,600.00	5,297.88	8,438.74	29.88	13600'MD: Projection to TD	
13,600.00	5,297.88	8,438.74	29.88	13600'MD: 101' FNL & 353' FEL	

Checked By: _____	Approved By: _____	Date: _____
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Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Slippin Jimmy Fee 1H

Slippin Jimmy Fee 1H

Wellbore #1

Survey: DrillTech MWD

Survey Report - Geographic

01 April, 2020

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

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

Site		Slippin Jimmy Fee 1H			
Site Position:		Northing:	788,492.14 usft	Latitude:	33.161
From:	Map	Easting:	930,245.16 usft	Longitude:	-103.063
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.70 °

Well	Slippin Jimmy Fee 1H					
Well Position	+N/-S	0.00 ft	Northing:	788,492.14 usft	Latitude:	33.161
	+E/-W	0.00 ft	Easting:	930,245.16 usft	Longitude:	-103.063
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,791.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/17/2020	6.48	60.95	48,254.55810579

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.24	

Survey Program	Date	4/1/2020			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
129.00	13,600.00	DriTech MWD (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	788,492.14	930,245.16	33.161	-103.063
129.00	0.70	135.68	129.00	-0.56	0.55	788,491.57	930,245.71	33.161	-103.063
129' MD: Start DriTech MWD									
223.00	1.14	129.44	222.98	-1.57	1.67	788,490.57	930,246.83	33.161	-103.063
315.00	0.79	106.24	314.97	-2.33	2.99	788,489.81	930,248.15	33.161	-103.062
407.00	0.70	99.12	406.96	-2.59	4.15	788,489.54	930,249.31	33.161	-103.062
498.00	0.62	107.73	497.96	-2.83	5.17	788,489.31	930,250.33	33.161	-103.062
590.00	0.62	105.18	589.95	-3.11	6.13	788,489.02	930,251.29	33.161	-103.062
685.00	0.53	102.81	684.95	-3.35	7.05	788,488.79	930,252.21	33.161	-103.062
779.00	0.53	109.75	778.94	-3.59	7.88	788,488.55	930,253.04	33.161	-103.062
872.00	0.62	92.18	871.94	-3.75	8.79	788,488.38	930,253.95	33.161	-103.062
964.00	0.53	90.86	963.93	-3.78	9.71	788,488.36	930,254.87	33.161	-103.062

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,059.00	0.62	106.59	1,058.93	-3.93	10.65	788,488.21	930,255.81	33.161	-103.062	
1,153.00	0.62	103.34	1,152.92	-4.19	11.63	788,487.94	930,256.79	33.161	-103.062	
1,248.00	0.35	85.85	1,247.92	-4.29	12.42	788,487.85	930,257.58	33.161	-103.062	
1,342.00	0.18	109.67	1,341.92	-4.32	12.84	788,487.82	930,258.00	33.161	-103.062	
1,435.00	0.26	130.32	1,434.92	-4.51	13.14	788,487.63	930,258.30	33.161	-103.062	
1,521.00	0.62	141.13	1,520.92	-5.00	13.58	788,487.14	930,258.74	33.161	-103.062	
1,621.00	0.44	121.18	1,620.91	-5.62	14.25	788,486.52	930,259.41	33.161	-103.062	
1,716.00	0.35	114.59	1,715.91	-5.93	14.83	788,486.21	930,259.99	33.161	-103.062	
1,810.00	0.26	131.38	1,809.91	-6.19	15.25	788,485.95	930,260.41	33.161	-103.062	
1,904.00	0.18	136.03	1,903.91	-6.43	15.51	788,485.70	930,260.67	33.161	-103.062	
1,998.00	0.26	128.39	1,997.91	-6.67	15.78	788,485.47	930,260.94	33.161	-103.062	
2,089.00	0.09	186.57	2,088.91	-6.87	15.93	788,485.27	930,261.09	33.161	-103.062	
2,183.00	0.09	232.45	2,182.91	-6.99	15.87	788,485.15	930,261.03	33.161	-103.062	
2,277.00	0.44	265.58	2,276.91	-7.06	15.45	788,485.08	930,260.61	33.161	-103.062	
2,372.00	0.79	265.15	2,371.90	-7.15	14.43	788,484.99	930,259.59	33.161	-103.062	
2,484.00	0.88	240.01	2,483.89	-7.64	12.92	788,484.50	930,258.08	33.161	-103.062	
2,578.00	1.58	216.54	2,577.87	-9.04	11.52	788,483.09	930,256.68	33.161	-103.062	
2,673.00	2.46	206.17	2,672.81	-11.92	9.84	788,480.21	930,255.00	33.161	-103.062	
2,766.00	4.40	195.71	2,765.64	-17.15	8.00	788,474.99	930,253.16	33.161	-103.062	
2,861.00	6.24	190.53	2,860.22	-25.74	6.06	788,466.40	930,251.23	33.161	-103.062	
2,956.00	7.65	190.26	2,954.52	-37.03	3.99	788,455.10	930,249.16	33.161	-103.062	
3,049.00	7.74	192.20	3,046.69	-49.25	1.57	788,442.89	930,246.73	33.161	-103.063	
3,141.00	7.03	190.26	3,137.92	-60.84	-0.74	788,431.30	930,244.42	33.161	-103.063	
3,236.00	6.86	189.21	3,232.23	-72.16	-2.69	788,419.97	930,242.47	33.161	-103.063	
3,331.00	7.47	190.97	3,326.48	-83.83	-4.77	788,408.31	930,240.39	33.161	-103.063	
3,424.00	7.65	188.94	3,418.68	-95.88	-6.88	788,396.26	930,238.28	33.161	-103.063	
3,519.00	6.68	184.73	3,512.93	-107.63	-8.32	788,384.51	930,236.84	33.161	-103.063	
3,614.00	6.51	185.34	3,607.31	-118.50	-9.28	788,373.64	930,235.88	33.161	-103.063	
3,709.00	5.54	185.60	3,701.78	-128.42	-10.23	788,363.71	930,234.93	33.161	-103.063	
3,803.00	4.75	182.53	3,795.40	-136.83	-10.84	788,355.31	930,234.32	33.161	-103.063	
3,898.00	3.61	180.24	3,890.15	-143.75	-11.03	788,348.39	930,234.13	33.161	-103.063	
3,991.00	3.34	178.05	3,982.97	-149.38	-10.95	788,342.75	930,234.21	33.161	-103.063	
4,086.00	2.29	183.14	4,077.86	-154.04	-10.96	788,338.09	930,234.20	33.161	-103.063	
4,180.00	2.20	178.22	4,171.79	-157.72	-11.00	788,334.41	930,234.16	33.161	-103.063	
4,275.00	2.20	180.51	4,266.72	-161.37	-10.96	788,330.77	930,234.20	33.161	-103.063	
4,369.00	1.49	168.64	4,360.67	-164.37	-10.74	788,327.77	930,234.42	33.161	-103.063	
4,462.00	0.53	139.81	4,453.65	-165.89	-10.22	788,326.25	930,234.94	33.161	-103.063	
4,556.00	1.32	15.36	4,547.65	-165.17	-9.66	788,326.96	930,235.51	33.161	-103.063	
4,587.00	3.08	5.08	4,578.62	-164.00	-9.49	788,328.14	930,235.67	33.161	-103.063	
4,619.00	5.19	3.58	4,610.54	-161.70	-9.32	788,330.44	930,235.84	33.161	-103.063	
4,651.00	7.47	3.93	4,642.34	-158.18	-9.09	788,333.96	930,236.07	33.161	-103.063	
4,682.00	10.11	5.87	4,672.97	-153.46	-8.67	788,338.68	930,236.49	33.161	-103.063	
4,714.00	12.93	5.87	4,704.32	-147.10	-8.02	788,345.03	930,237.14	33.161	-103.063	
4,746.00	15.39	5.34	4,735.35	-139.31	-7.26	788,352.82	930,237.90	33.161	-103.063	
4,778.00	17.50	5.96	4,766.04	-130.30	-6.36	788,361.84	930,238.80	33.161	-103.063	
4,809.00	20.05	6.83	4,795.39	-120.39	-5.25	788,371.75	930,239.92	33.161	-103.063	
4,841.00	22.60	6.75	4,825.19	-108.83	-3.87	788,383.31	930,241.29	33.161	-103.063	
4,873.00	25.24	7.54	4,854.44	-95.96	-2.25	788,396.18	930,242.91	33.161	-103.063	
4,905.00	27.96	7.80	4,883.05	-81.76	-0.34	788,410.38	930,244.82	33.161	-103.063	
4,937.00	30.07	6.83	4,911.04	-66.37	1.63	788,425.77	930,246.79	33.161	-103.063	
4,968.00	32.71	5.08	4,937.50	-50.31	3.30	788,441.83	930,248.46	33.161	-103.062	
5,000.00	35.44	3.76	4,964.00	-32.44	4.67	788,459.70	930,249.83	33.161	-103.062	
5,032.00	37.81	1.82	4,989.68	-13.37	5.59	788,478.77	930,250.75	33.161	-103.062	
5,064.00	40.19	0.86	5,014.55	6.76	6.06	788,498.90	930,251.22	33.161	-103.062	
5,096.00	42.82	359.80	5,038.51	27.96	6.18	788,520.10	930,251.34	33.161	-103.062	

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
5,128.00	45.73	358.75	5,061.42	50.30	5.89	788,542.43	930,251.05		33.161	-103.062
5,159.00	48.28	358.57	5,082.56	72.96	5.36	788,565.10	930,250.52		33.161	-103.062
5,191.00	51.00	358.31	5,103.28	97.34	4.69	788,589.47	930,249.85		33.161	-103.062
5,223.00	53.55	358.31	5,122.86	122.63	3.95	788,614.77	930,249.11		33.161	-103.062
5,255.00	56.37	358.66	5,141.23	148.82	3.26	788,640.96	930,248.42		33.161	-103.062
5,286.00	59.27	359.28	5,157.74	175.05	2.79	788,667.19	930,247.95		33.162	-103.062
5,318.00	60.76	359.36	5,173.73	202.77	2.46	788,694.90	930,247.62		33.162	-103.062
5,350.00	61.20	359.45	5,189.25	230.75	2.17	788,722.88	930,247.33		33.162	-103.062
5,382.00	61.38	359.72	5,204.63	258.81	1.96	788,750.95	930,247.12		33.162	-103.062
5,413.00	61.47	0.15	5,219.45	286.04	1.93	788,778.17	930,247.09		33.162	-103.062
5,445.00	61.64	0.07	5,234.70	314.17	1.99	788,806.31	930,247.15		33.162	-103.062
5,477.00	62.08	359.63	5,249.79	342.39	1.91	788,834.53	930,247.07		33.162	-103.062
5,509.00	62.08	359.72	5,264.77	370.66	1.75	788,862.80	930,246.91		33.162	-103.062
5,539.00	62.43	359.72	5,278.74	397.22	1.62	788,889.35	930,246.78		33.162	-103.062
5,571.00	62.87	0.07	5,293.44	425.64	1.57	788,917.77	930,246.73		33.162	-103.062
5,602.00	65.33	359.80	5,306.98	453.52	1.54	788,945.66	930,246.70		33.162	-103.062
5,634.00	68.59	359.80	5,319.50	482.97	1.44	788,975.10	930,246.60		33.162	-103.062
5,666.00	71.05	359.72	5,330.54	513.00	1.31	789,005.13	930,246.47		33.162	-103.062
5,697.00	73.25	359.45	5,340.04	542.50	1.10	789,034.64	930,246.26		33.163	-103.062
5,729.00	75.97	359.36	5,348.53	573.35	0.78	789,065.49	930,245.94		33.163	-103.062
5,757.00	78.27	359.29	5,354.77	600.64	0.45	789,092.78	930,245.61		33.163	-103.062
5757'MD: South Lease Line Crossing										
5,760.00	78.52	359.28	5,355.38	603.58	0.42	789,095.72	930,245.58		33.163	-103.062
5,791.00	80.72	359.54	5,360.96	634.07	0.10	789,126.21	930,245.26		33.163	-103.062
5,823.00	82.75	359.54	5,365.56	665.74	-0.15	789,157.87	930,245.01		33.163	-103.062
5,854.00	85.12	359.10	5,368.84	696.56	-0.52	789,188.69	930,244.64		33.163	-103.062
5,857.78	85.39	359.03	5,369.15	700.32	-0.58	789,192.46	930,244.58		33.163	-103.062
5857.78'MD: 100' Offset Crossing										
5,886.00	87.41	358.49	5,370.92	728.48	-1.19	789,220.62	930,243.97		33.163	-103.062
5,918.00	89.60	358.75	5,371.76	760.46	-1.96	789,252.59	930,243.20		33.163	-103.062
5,949.00	90.04	358.31	5,371.85	791.45	-2.75	789,283.58	930,242.41		33.163	-103.062
5,981.00	90.57	358.22	5,371.68	823.43	-3.72	789,315.57	930,241.44		33.163	-103.062
6,074.00	89.34	359.19	5,371.76	916.41	-5.83	789,408.54	930,239.34		33.164	-103.062
6,169.00	89.96	359.19	5,372.34	1,011.39	-7.17	789,503.53	930,237.99		33.164	-103.062
6,262.00	91.19	359.80	5,371.40	1,104.38	-7.99	789,596.52	930,237.17		33.164	-103.062
6,357.00	89.87	359.36	5,370.52	1,199.37	-8.68	789,691.51	930,236.48		33.164	-103.062
6,451.00	90.22	358.92	5,370.45	1,293.36	-10.10	789,785.50	930,235.07		33.165	-103.062
6,547.00	91.63	358.05	5,368.90	1,389.31	-12.63	789,881.45	930,232.53		33.165	-103.062
6,640.00	89.25	357.78	5,368.19	1,482.24	-16.02	789,974.38	930,229.14		33.165	-103.063
6,733.00	89.25	357.52	5,369.40	1,575.16	-19.83	790,067.29	930,225.33		33.165	-103.063
6,828.00	90.22	357.43	5,369.84	1,670.06	-24.01	790,162.20	930,221.15		33.166	-103.063
6,921.00	90.75	356.11	5,369.06	1,762.91	-29.25	790,255.04	930,215.91		33.166	-103.063
7,016.00	92.95	356.46	5,365.99	1,857.65	-35.41	790,349.79	930,209.75		33.166	-103.063
7,112.00	92.77	358.75	5,361.20	1,953.44	-39.41	790,445.58	930,205.75		33.166	-103.063
7,207.00	91.01	359.45	5,358.07	2,048.38	-40.90	790,540.51	930,204.26		33.167	-103.063
7,302.00	91.98	359.89	5,355.59	2,143.34	-41.45	790,635.47	930,203.71		33.167	-103.063
7,398.00	91.36	359.54	5,352.79	2,239.30	-41.93	790,731.43	930,203.23		33.167	-103.063
7,493.00	89.78	0.24	5,351.84	2,334.29	-42.11	790,826.42	930,203.05		33.167	-103.063
7,589.00	90.75	0.68	5,351.40	2,430.28	-41.34	790,922.42	930,203.82		33.168	-103.063
7,684.00	89.69	0.15	5,351.03	2,525.28	-40.65	791,017.41	930,204.51		33.168	-103.063
7,779.00	91.89	359.80	5,349.73	2,620.26	-40.69	791,112.40	930,204.47		33.168	-103.063
7,875.00	90.48	0.77	5,347.74	2,716.24	-40.21	791,208.37	930,204.95		33.169	-103.063
7,968.00	90.31	359.98	5,347.10	2,809.23	-39.61	791,301.37	930,205.55		33.169	-103.063
8,063.00	92.33	1.03	5,344.91	2,904.20	-38.77	791,396.33	930,206.39		33.169	-103.063

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,158.00	91.89	1.56	5,341.41	2,999.11	-36.62	791,491.24	930,208.54	33.169	-103.063	
8,254.00	89.69	1.30	5,340.09	3,095.07	-34.23	791,587.20	930,210.93	33.170	-103.062	
8,368.00	92.59	1.30	5,337.82	3,209.00	-31.64	791,701.13	930,213.52	33.170	-103.062	
8,463.00	91.89	0.86	5,334.11	3,303.91	-29.85	791,796.04	930,215.31	33.170	-103.062	
8,558.00	90.92	2.18	5,331.78	3,398.85	-27.33	791,890.98	930,217.83	33.170	-103.062	
8,652.00	90.22	2.09	5,330.84	3,492.78	-23.83	791,984.91	930,221.33	33.171	-103.062	
8,747.00	90.57	2.18	5,330.19	3,587.71	-20.29	792,079.84	930,224.87	33.171	-103.062	
8,843.00	90.48	2.53	5,329.31	3,683.62	-16.35	792,175.75	930,228.81	33.171	-103.062	
8,938.00	91.01	2.70	5,328.07	3,778.51	-12.02	792,270.64	930,233.15	33.171	-103.062	
9,033.00	90.48	2.53	5,326.84	3,873.41	-7.68	792,365.54	930,237.48	33.172	-103.062	
9,125.00	90.57	2.09	5,326.00	3,965.33	-3.97	792,457.46	930,241.19	33.172	-103.062	
9,216.00	90.48	2.53	5,325.16	4,056.25	-0.31	792,548.38	930,244.85	33.172	-103.062	
9,308.00	90.66	3.06	5,324.25	4,148.14	4.18	792,640.27	930,249.34	33.172	-103.062	
9,399.00	90.66	2.44	5,323.20	4,239.02	8.55	792,731.15	930,253.71	33.173	-103.062	
9,491.00	91.10	0.59	5,321.79	4,330.98	10.98	792,823.11	930,256.14	33.173	-103.062	
9,585.00	90.66	0.68	5,320.34	4,424.96	12.02	792,917.09	930,257.18	33.173	-103.062	
9,677.00	90.75	1.03	5,319.21	4,516.94	13.39	793,009.07	930,258.55	33.173	-103.062	
9,769.00	89.96	358.92	5,318.64	4,608.94	13.35	793,101.06	930,258.51	33.174	-103.062	
9,861.00	89.96	358.49	5,318.70	4,700.91	11.27	793,193.04	930,256.43	33.174	-103.062	
9,953.00	90.13	359.01	5,318.63	4,792.89	9.27	793,285.02	930,254.43	33.174	-103.062	
10,048.00	90.48	359.28	5,318.13	4,887.88	7.85	793,380.00	930,253.01	33.174	-103.062	
10,143.00	90.92	0.42	5,316.97	4,982.87	7.60	793,475.00	930,252.76	33.175	-103.062	
10,238.00	89.96	359.45	5,316.24	5,077.86	7.49	793,569.99	930,252.65	33.175	-103.062	
10,331.00	90.31	359.54	5,316.02	5,170.86	6.67	793,662.99	930,251.83	33.175	-103.062	
10,426.00	90.40	359.10	5,315.43	5,265.85	5.54	793,757.98	930,250.71	33.176	-103.062	
10,521.00	90.84	359.45	5,314.40	5,360.84	4.34	793,852.96	930,249.50	33.176	-103.062	
10,614.00	89.87	358.31	5,313.82	5,453.81	2.52	793,945.94	930,247.69	33.176	-103.062	
10,709.00	90.13	359.19	5,313.82	5,548.79	0.45	794,040.92	930,245.61	33.176	-103.062	
10,804.00	90.48	358.57	5,313.32	5,643.77	-1.40	794,135.90	930,243.76	33.177	-103.062	
10,899.00	90.57	358.84	5,312.45	5,738.74	-3.55	794,230.87	930,241.61	33.177	-103.062	
10,993.00	90.40	359.89	5,311.65	5,832.73	-4.59	794,324.86	930,240.57	33.177	-103.062	
11,088.00	89.60	359.54	5,311.65	5,927.73	-5.07	794,419.86	930,240.10	33.177	-103.062	
11,184.00	89.60	359.28	5,312.32	6,023.72	-6.05	794,515.85	930,239.11	33.178	-103.062	
11,279.00	89.78	358.75	5,312.84	6,118.71	-7.69	794,610.83	930,237.47	33.178	-103.062	
11,375.00	90.22	359.01	5,312.84	6,214.69	-9.56	794,706.81	930,235.60	33.178	-103.062	
11,470.00	90.40	359.80	5,312.32	6,309.68	-10.55	794,801.81	930,234.61	33.178	-103.062	
11,566.00	90.75	0.77	5,311.36	6,405.67	-10.07	794,897.80	930,235.09	33.179	-103.062	
11,660.00	90.84	1.91	5,310.05	6,499.64	-7.87	794,991.76	930,237.29	33.179	-103.062	
11,755.00	90.48	1.21	5,308.96	6,594.59	-5.29	795,086.72	930,239.87	33.179	-103.062	
11,849.00	90.66	0.95	5,308.02	6,688.57	-3.52	795,180.70	930,241.64	33.179	-103.062	
11,945.00	90.04	0.24	5,307.44	6,784.56	-2.52	795,276.69	930,242.64	33.180	-103.062	
12,039.00	88.99	359.72	5,308.23	6,878.56	-2.55	795,370.68	930,242.61	33.180	-103.062	
12,134.00	89.60	0.33	5,309.40	6,973.55	-2.51	795,465.68	930,242.65	33.180	-103.062	
12,228.00	90.22	359.89	5,309.55	7,067.55	-2.33	795,559.67	930,242.83	33.180	-103.062	
12,323.00	91.01	0.95	5,308.53	7,162.54	-1.63	795,654.66	930,243.53	33.181	-103.062	
12,418.00	90.31	0.42	5,307.44	7,257.53	-0.50	795,749.65	930,244.66	33.181	-103.062	
12,512.00	90.40	0.07	5,306.85	7,351.52	-0.10	795,843.65	930,245.06	33.181	-103.062	
12,605.00	90.57	359.45	5,306.07	7,444.52	-0.49	795,936.64	930,244.67	33.182	-103.062	
12,700.00	90.75	359.98	5,304.97	7,539.51	-0.96	796,031.63	930,244.20	33.182	-103.062	
12,794.00	90.92	359.36	5,303.60	7,633.50	-1.50	796,125.62	930,243.66	33.182	-103.062	
12,887.00	90.84	1.12	5,302.17	7,726.48	-1.11	796,218.61	930,244.05	33.182	-103.062	
12,980.00	91.10	2.35	5,300.60	7,819.43	1.70	796,311.55	930,246.87	33.183	-103.062	
13,074.00	89.96	1.91	5,299.73	7,913.36	5.20	796,405.48	930,250.36	33.183	-103.062	
13,168.00	90.22	2.62	5,299.58	8,007.28	8.91	796,499.40	930,254.07	33.183	-103.062	
13,263.00	90.66	3.23	5,298.85	8,102.15	13.76	796,594.28	930,258.92	33.183	-103.062	

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Slippin Jimmy Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Site:	Slippin Jimmy Fee 1H	MD Reference:	GL 3791' + 17' RKB @ 3808.00ft (Norton 6)
Well:	Slippin Jimmy Fee 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude Longitude		
13,358.00	90.57	2.09	5,297.83	8,197.04	18.17	796,689.17	930,263.33	33.184	-103.062	
13,453.00	90.13	4.02	5,297.25	8,291.90	23.23	796,784.02	930,268.39	33.184	-103.062	
13,539.00	89.60	2.00	5,297.46	8,377.78	27.75	796,869.90	930,272.91	33.184	-103.062	
13539'MD: End DrilTech MWD										
13,600.00	89.60	2.00	5,297.88	8,438.74	29.88	796,930.86	930,275.04	33.184	-103.062	
13600'MD: Projection to TD - 13600'MD: 101' FNL & 353' FEL										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
129.00	129.00	-0.56	0.55	129' MD: Start DrilTech MWD	
5,757.00	5,354.77	600.64	0.45	5757'MD: South Lease Line Crossing	
5,857.78	5,369.15	700.32	-0.58	5857.78'MD: 100' Offset Crossing	
13,539.00	5,297.46	8,377.78	27.75	13539'MD: End DrilTech MWD	
13,600.00	5,297.88	8,438.74	29.88	13600'MD: Projection to TD	
13,600.00	5,297.88	8,438.74	29.88	13600'MD: 101' FNL & 353' FEL	

Checked By: _____ Approved By: _____ Date: _____