

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address STEWART ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034		² OGRID Number 371682
		³ Reason for Filing Code/ Effective Date RT-5000 bbls- Dec-21-2020
⁴ API Number 30 -025-47475	⁵ Pool Name Bronco San Andres South	⁶ Pool Code 7500
⁷ Property Code 328920	⁸ Property Name Combo Fee	⁹ Well Number 1H

II. ¹⁰ Surface Location

U or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from th	East/West line	County
P	15	13S	R 38E		667	S	359	E	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	13S	38E		51	S	381	E	Lea

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number Submitted	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
P					

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371407	Stakeholder 777 E. Sonterra Blvd Suite 100 San Antonio, TX 78258	O&G

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
Nov 10, 2020	Dec 21, 2020	10909'	10909'	6249'-10,909' 4 x 20 stages	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12.25"	9-5/8"	2450	1105-Circ to Surface		
8.75"	5.5"	10909	2808		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Wayne Price*

Printed name:
Wayne Price-Price LLC

Title:

Consultant for SEII

E-mail Address:

wayneprice@a.com

Date:

Dec 21, 2020

Phone:

505-715-2809

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

12/21/2020

District I
1625 N. French Dr., Hobbs NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-47475		² Pool Code 7500		³ Pool Name BRONCO; SAN ANDRES, SOUTH	
⁴ Property Code 328920		Property Name COMBO FEE			⁶ Well Number 1H
⁷ OGRID No. 371682		⁸ Operator Name STEWARD ENERGY II, LLC			⁹ Elevation 3803'
¹⁰ Surface Location					
UL or lot no. P	Section 15	Township 13S	Range 38E	Lot Idn 667	Feet from the North/South line SOUTH 359
				East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. P	Section 22	Township 13S	Range 38E	Lot Idn 51	Feet from the North/South line SOUTH 381
				East/West line EAST	County LEA
¹² Dedicated Acres 160.0		¹³ Joint or Infill		¹⁴ Consolidation Code	
¹⁵ Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

DEFINING WELL 	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 925931.71' / Y: 798968.63' B - X: 925960.73' / Y: 794311.75' C - X: 926018.30' / Y: 791679.11' D - X: 924695.76' / Y: 791663.20' E - X: 924648.33' / Y: 794296.56' F - X: 924615.04' / Y: 796952.00'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 884755.82' / Y: 796905.79' B - X: 884784.83' / Y: 794248.98' C - X: 884842.39' / Y: 791616.42' D - X: 883519.85' / Y: 791600.45' E - X: 883472.43' / Y: 794233.73' F - X: 883439.15' / Y: 796889.10'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Ben Barton</i> Date: 12-21-2020 Printed Name: Ben Barton E-mail Address: ben.barton@stewardenergy.com	
	SURFACE HOLE LOCATION 667' FSL 359' FEL, SECTION 15 NAD 83, SPCS NM EAST X: 925564.59' / Y: 797631.12' LAT: 33.18632111N / LON: 103.07744484W NAD 27, SPCS NM EAST X: 884389.70' / Y: 797568.24' LAT: 33.18621393N / LON: 103.07694582W	KICK OFF POINT 654' FSL 349' FEL, SECTION 15 4545' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 925573.81' / Y: 797618.51' LAT: 33.18628617N / LON: 103.07741520W NAD 27, SPCS NM EAST X: 884397.92' / Y: 797555.64' LAT: 33.18617899N / LON: 103.07691619W		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by K-Squared Global. Date of Survey: 09/30/20 Signature and Seal of Professional Surveyor: <i>David W. Myers</i> Certificate Number: DAVID W. MYERS 11403
	FIRST TAKE POINT 115' FSL 368' FEL, SECTION 22 5783' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 925565.36' / Y: 796848.96' LAT: 33.18417186N / LON: 103.07747298W NAD 27, SPCS NM EAST X: 884389.47' / Y: 796786.11' LAT: 33.18406466N / LON: 103.07697399W	LAST TAKE POINT 160' FSL 383' FEL, SECTION 22 10800' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 925632.26' / Y: 791834.08' LAT: 33.17038963N / LON: 103.07745095W NAD 27, SPCS NM EAST X: 884456.35' / Y: 791771.37' LAT: 33.17028241N / LON: 103.07695211W		
	BOTTOM HOLE LOCATION 51' FSL 381' FEL, SECTION 22 10908' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 925636.62' / Y: 791725.17' LAT: 33.17009022N / LON: 103.07744097W NAD 27, SPCS NM EAST X: 884460.71' / Y: 791662.46' LAT: 33.16998300N / LON: 103.07694213W			
	SHEET 1 OF 1 JOB No. R4076_001 REV 0 WM 12/21/2020			

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99990013 Convergence Angle: 00°41'16.54001"



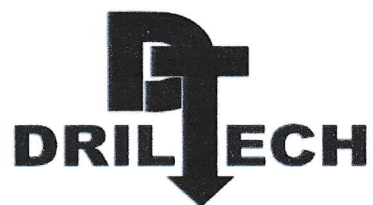
PLAN vs ACTUAL



BOTTOM HOLE ASSEMBLIES

SLIDE REPORTS

DAILY REPORTS



PLAN vs ACTUAL

SURVEYS

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC
Combo Fee 1H
Sidetrack
Plan #3B
Norton 6



SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation: GL 3803' + RKB 17' @ 3820.00ft (Norton 6)

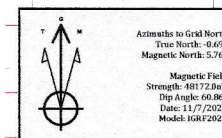
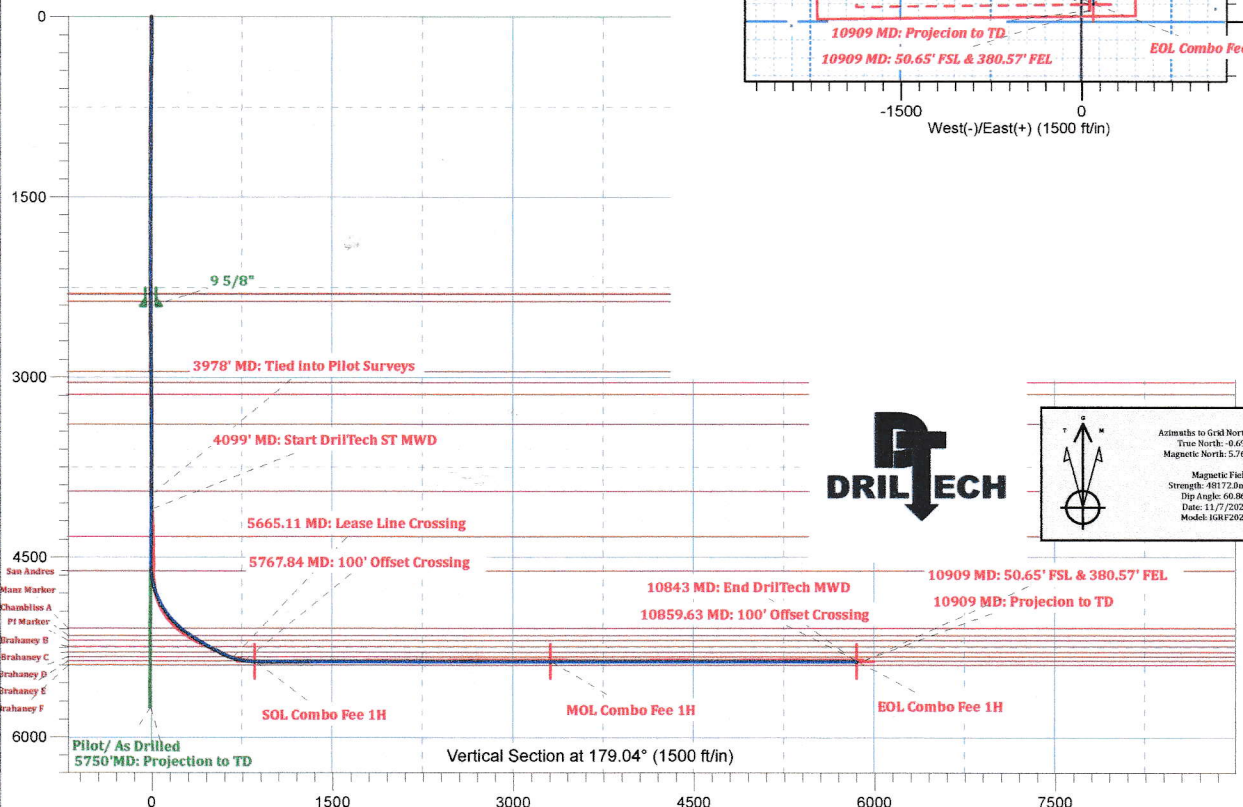
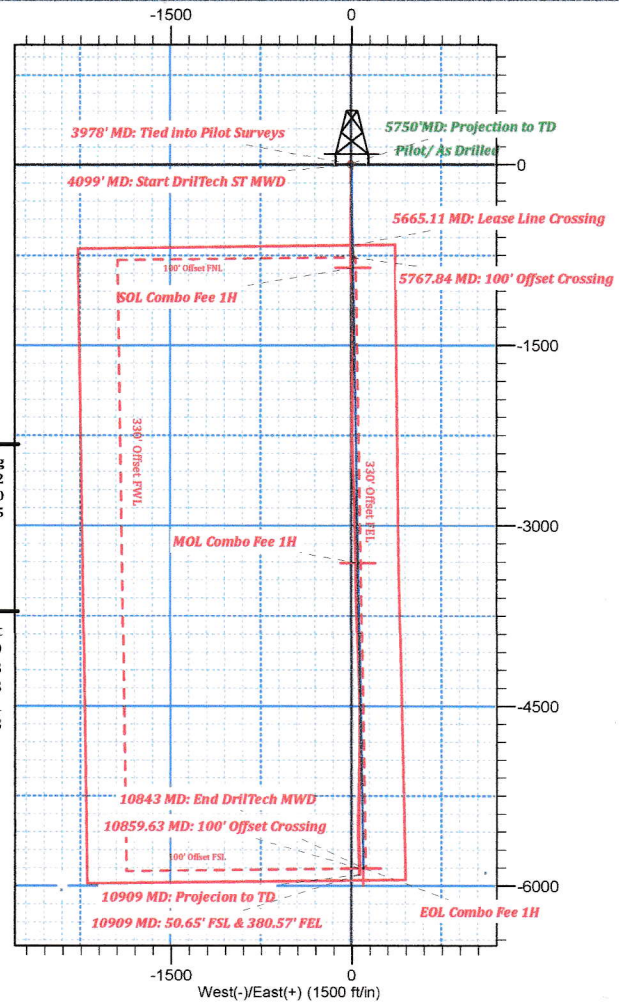
Northing	Easting	Latitude	Longitude
797631.12	925564.59	33.186	-103.077

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
EOL Combo Fee 1H	5369.00	-5856.25	101.53	791774.88	925666.12
MOL Combo Fee 1H	5369.00	-3311.58	58.71	794319.55	925623.30
SOL Combo Fee 1H	5369.00	-854.34	17.36	796776.78	925581.95

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
4545.44	0.79	279.39	4545.22	6.73	8.55	0.00	-6.59
5297.25	60.00	179.04	5167.24	-351.43	8.92	8.00	351.53
5547.25	60.00	179.04	5292.24	-567.90	12.55	0.00	568.03
5847.25	90.00	179.04	5369.00	-854.34	17.36	10.00	854.51
10849.87	90.00	179.04	5369.00	-5856.25	101.53	0.00	5857.13



Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Combo Fee 1H

Combo Fee 1H

Sidetrack

Design: Sidetrack

Standard Survey Report

17 November, 2020

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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	Combo Fee 1H			
Site Position:		Northing:	797,631.12 usft	Latitude: 33.186
From:	Map	Easting:	925,564.59 usft	Longitude: -103.077
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	

Well	Combo Fee 1H			
Well Position	+N/-S	0.00 ft	Northing:	797,631.12 usft
	+E/-W	0.00 ft	Easting:	925,564.59 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.69 °	Ground Level:	3,803.00 ft

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/7/2020	6.45	60.86	48,171.98806160

Design	Sidetrack			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 3,978.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.04

Survey Program	Date	11/17/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
126.00	3,978.00	DrilTech MWD (Pilot)	MWD	MWD - Standard
4,099.00	10,909.00	DrilTech MWD (Sidetrack)	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
126.00	0.62	73.20	126.00	0.20	0.65	-0.19	0.49	0.49	0.00
219.00	0.70	85.24	218.99	0.39	1.70	-0.36	0.17	0.09	12.95
309.00	0.79	61.34	308.98	0.73	2.79	-0.69	0.36	0.10	-26.56
399.00	1.06	65.12	398.97	1.38	4.09	-1.31	0.31	0.30	4.20
491.00	0.44	30.22	490.96	2.04	5.04	-1.96	0.81	-0.67	-37.93
585.00	0.70	353.40	584.96	2.93	5.16	-2.84	0.46	0.28	-39.17
680.00	0.18	345.14	679.96	3.65	5.05	-3.56	0.55	-0.55	-8.69
774.00	0.35	318.68	773.96	4.01	4.83	-3.92	0.22	0.18	-28.15

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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)
867.00	0.53	20.12	866.95	4.62	4.79	-4.54	0.51	0.19	66.06
962.00	0.18	272.45	961.95	5.04	4.79	-4.96	0.64	-0.37	-113.34
1,058.00	0.09	242.83	1,057.95	5.01	4.57	-4.94	0.12	-0.09	-30.85
1,151.00	0.44	36.29	1,150.95	5.27	4.72	-5.19	0.56	0.38	165.01
1,245.00	0.62	331.25	1,244.95	6.00	4.69	-5.93	0.63	0.19	-69.19
1,341.00	0.62	290.73	1,340.94	6.64	3.95	-6.58	0.45	0.00	-42.21
1,434.00	0.62	339.16	1,433.94	7.29	3.30	-7.24	0.55	0.00	52.08
1,529.00	0.62	295.74	1,528.93	8.00	2.65	-7.95	0.48	0.00	-45.71
1,624.00	0.44	291.35	1,623.93	8.35	1.85	-8.32	0.19	-0.19	-4.62
1,718.00	0.26	191.59	1,717.93	8.27	1.47	-8.25	0.58	-0.19	-106.13
1,813.00	0.35	284.93	1,812.93	8.14	1.15	-8.12	0.47	0.09	98.25
1,905.00	0.44	187.28	1,904.93	7.86	0.83	-7.84	0.65	0.10	-106.14
2,000.00	0.62	140.44	1,999.92	7.10	1.11	-7.08	0.48	0.19	-49.31
2,094.00	0.18	45.43	2,093.92	6.81	1.54	-6.79	0.70	-0.47	-101.07
2,189.00	0.53	161.97	2,188.92	6.50	1.79	-6.47	0.66	0.37	122.67
2,284.00	0.70	131.39	2,283.91	5.70	2.36	-5.66	0.38	0.18	-32.19
2,345.00	0.70	94.38	2,344.91	5.42	3.01	-5.37	0.73	0.00	-60.67
2,471.00	0.62	119.08	2,470.90	5.03	4.37	-4.96	0.23	-0.06	19.60
2,564.00	0.62	114.60	2,563.90	4.58	5.27	-4.49	0.05	0.00	-4.82
2,657.00	1.23	104.14	2,656.88	4.13	6.69	-4.01	0.68	0.66	-11.25
2,751.00	0.35	156.96	2,750.87	3.62	7.78	-3.48	1.12	-0.94	56.19
2,846.00	0.35	150.28	2,845.87	3.10	8.04	-2.96	0.04	0.00	-7.03
2,940.00	0.70	173.66	2,939.87	2.28	8.25	-2.14	0.43	0.37	24.87
3,033.00	0.62	165.93	3,032.86	1.22	8.43	-1.08	0.13	-0.09	-8.31
3,127.00	0.35	140.26	3,126.86	0.51	8.74	-0.36	0.36	-0.29	-27.31
3,223.00	0.35	148.96	3,222.86	0.03	9.08	0.12	0.06	0.00	9.06
3,317.00	0.35	133.23	3,316.85	-0.41	9.44	0.57	0.10	0.00	-16.73
3,412.00	0.44	146.59	3,411.85	-0.91	9.85	1.08	0.13	0.09	14.06
3,507.00	0.18	50.26	3,506.85	-1.12	10.16	1.29	0.52	-0.27	-101.40
3,600.00	0.18	345.22	3,599.85	-0.89	10.24	1.06	0.21	0.00	-69.94
3,694.00	0.26	304.97	3,693.85	-0.62	10.03	0.79	0.18	0.09	-42.82
3,789.00	0.09	281.33	3,788.85	-0.48	9.78	0.65	0.19	-0.18	-24.88
3,884.00	0.53	11.77	3,883.85	-0.04	9.79	0.20	0.57	0.46	95.20
3,978.00	0.70	17.66	3,977.84	0.93	10.06	-0.77	0.19	0.18	6.27
3978' MD: Tied into Pilot Surveys									
4,099.00	2.02	172.31	4,098.82	-0.48	10.57	0.65	2.21	1.09	127.81
4099' MD: Start DrillTech ST MWD									
4,194.00	3.52	187.52	4,193.71	-5.03	10.41	5.20	1.74	1.58	16.01
4,289.00	1.93	178.99	4,288.60	-9.52	10.05	9.68	1.72	-1.67	-8.98
4,383.00	1.32	204.83	4,382.56	-12.08	9.63	12.24	1.00	-0.65	27.49
4,478.00	0.09	341.24	4,477.56	-13.01	9.14	13.16	1.46	-1.29	143.59
4,571.00	0.62	14.90	4,570.55	-12.45	9.25	12.60	0.59	0.57	36.19
4,635.00	1.58	194.11	4,634.55	-12.97	9.12	13.12	3.44	1.50	280.02

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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)
4,666.00	3.96	188.40	4,665.51	-14.44	8.86	14.59	7.72	7.68	-18.42
4,699.00	6.24	190.86	4,698.38	-17.33	8.36	17.47	6.94	6.91	7.45
4,730.00	8.35	191.30	4,729.12	-21.20	7.60	21.32	6.81	6.81	1.42
4,762.00	10.99	189.63	4,760.67	-26.48	6.63	26.59	8.30	8.25	-5.22
4,794.00	14.07	186.64	4,791.90	-33.36	5.67	33.45	9.83	9.63	-9.34
4,827.00	17.32	184.62	4,823.67	-42.24	4.81	42.31	9.99	9.85	-6.12
4,857.00	20.31	184.27	4,852.06	-51.88	4.07	51.94	9.97	9.97	-1.17
4,889.00	23.48	182.60	4,881.75	-63.79	3.36	63.84	10.09	9.91	-5.22
4,920.00	26.47	180.93	4,909.85	-76.87	2.97	76.91	9.91	9.65	-5.39
4,951.00	29.46	179.52	4,937.22	-91.41	2.92	91.44	9.88	9.65	-4.55
4,983.00	32.62	179.61	4,964.64	-107.91	3.05	107.94	9.88	9.88	0.28
5,013.00	35.53	179.78	4,989.48	-124.71	3.14	124.75	9.71	9.70	0.57
5,046.00	38.78	179.26	5,015.78	-144.64	3.31	144.67	9.89	9.85	-1.58
5,074.00	41.50	179.43	5,037.19	-162.69	3.51	162.72	9.72	9.71	0.61
5,107.00	44.76	178.99	5,061.27	-185.24	3.83	185.28	9.92	9.88	-1.33
5,141.00	48.19	179.43	5,084.68	-209.89	4.16	209.93	10.13	10.09	1.29
5,169.00	50.21	180.57	5,102.97	-231.08	4.16	231.12	7.84	7.21	4.07
5,200.00	52.41	181.72	5,122.35	-255.27	3.67	255.30	7.66	7.10	3.71
5,231.00	55.05	182.68	5,140.69	-280.24	2.71	280.25	8.87	8.52	3.10
5,262.00	57.86	182.07	5,157.82	-306.06	1.64	306.04	9.21	9.06	-1.97
5,295.00	60.94	180.66	5,174.61	-334.45	0.97	334.42	10.03	9.33	-4.27
5,324.00	62.34	180.66	5,188.39	-359.97	0.68	359.93	4.83	4.83	0.00
5,356.00	62.52	179.61	5,203.20	-388.33	0.61	388.29	2.96	0.56	-3.28
5,387.00	62.52	179.43	5,217.50	-415.83	0.84	415.79	0.52	0.00	-0.58
5,419.00	62.52	179.96	5,232.27	-444.22	0.99	444.18	1.47	0.00	1.66
5,450.00	62.70	180.22	5,246.53	-471.75	0.95	471.70	0.94	0.58	0.84
5,482.00	62.96	179.43	5,261.14	-500.21	1.04	500.16	2.34	0.81	-2.47
5,513.00	63.05	180.13	5,275.22	-527.84	1.14	527.78	2.03	0.29	2.26
5,545.00	63.22	180.22	5,289.68	-556.38	1.05	556.32	0.59	0.53	0.28
5,576.00	64.46	180.22	5,303.34	-584.21	0.95	584.14	4.00	4.00	0.00
5,608.00	67.45	179.87	5,316.38	-613.43	0.93	613.36	9.40	9.34	-1.09
5,640.00	70.52	180.40	5,327.85	-643.29	0.85	643.22	9.72	9.59	1.66
5,665.11	72.73	180.12	5,335.77	-667.12	0.75	667.04	8.87	8.81	-1.10
5665.11 MD: Lease Line Crossing									
5,672.00	73.34	180.05	5,337.78	-673.71	0.74	673.63	8.87	8.81	-1.08
5,702.00	75.71	181.10	5,345.78	-702.62	0.44	702.53	8.59	7.90	3.50
5,734.00	78.52	179.26	5,352.92	-733.81	0.35	733.71	10.42	8.78	-5.75
5,765.00	81.16	179.70	5,358.39	-764.32	0.62	764.22	8.63	8.52	1.42
5,767.84	81.38	179.67	5,358.82	-767.13	0.64	767.03	7.76	7.68	-1.17
5767.84 MD: 100' Offset Crossing									
5,796.00	83.54	179.34	5,362.51	-795.04	0.88	794.94	7.76	7.68	-1.16
5,828.00	85.38	178.73	5,365.60	-826.89	1.42	826.79	6.05	5.75	-1.91
5,860.00	87.49	178.64	5,367.59	-858.81	2.15	858.73	6.60	6.59	-0.28
5,892.00	88.90	177.67	5,368.60	-890.78	3.18	890.71	5.35	4.41	-3.03

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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)	
5,923.00	89.60	177.76	5,369.01	-921.75	4.42	921.70	2.28	2.26	0.29	
5,987.00	90.31	178.20	5,369.06	-985.71	6.67	985.69	1.31	1.11	0.69	
6,082.00	89.69	179.52	5,369.06	-1,080.69	8.56	1,080.68	1.54	-0.65	1.39	
6,176.00	90.66	180.57	5,368.77	-1,174.69	8.49	1,174.67	1.52	1.03	1.12	
6,270.00	89.87	179.78	5,368.33	-1,268.68	8.20	1,268.64	1.19	-0.84	-0.84	
6,365.00	89.34	178.99	5,368.99	-1,363.68	9.22	1,363.64	1.00	-0.56	-0.83	
6,456.00	89.87	179.96	5,369.62	-1,454.67	10.06	1,454.63	1.21	0.58	1.07	
6,549.00	91.28	180.57	5,368.68	-1,547.66	9.63	1,547.60	1.65	1.52	0.66	
6,640.00	89.69	180.75	5,367.91	-1,638.65	8.58	1,638.56	1.76	-1.75	0.20	
6,733.00	90.40	180.40	5,367.84	-1,731.64	7.64	1,731.53	0.85	0.76	-0.38	
6,824.00	90.92	179.96	5,366.79	-1,822.64	7.36	1,822.50	0.75	0.57	-0.48	
6,916.00	90.84	179.43	5,365.38	-1,914.62	7.85	1,914.49	0.58	-0.09	-0.58	
7,008.00	91.28	180.57	5,363.68	-2,006.61	7.85	2,006.46	1.33	0.48	1.24	
7,099.00	89.43	180.22	5,363.11	-2,097.60	7.22	2,097.42	2.07	-2.03	-0.38	
7,191.00	89.69	180.05	5,363.82	-2,189.59	7.00	2,189.40	0.34	0.28	-0.18	
7,285.00	88.72	179.34	5,365.12	-2,283.58	7.50	2,283.39	1.28	-1.03	-0.76	
7,379.00	89.69	178.55	5,366.43	-2,377.56	9.24	2,377.38	1.33	1.03	-0.84	
7,474.00	90.48	178.11	5,366.29	-2,472.51	12.00	2,472.37	0.95	0.83	-0.46	
7,569.00	91.01	177.85	5,365.05	-2,567.45	15.35	2,567.34	0.62	0.56	-0.27	
7,664.00	90.40	176.71	5,363.88	-2,662.33	19.86	2,662.29	1.36	-0.64	-1.20	
7,756.00	90.13	175.83	5,363.46	-2,754.13	25.84	2,754.18	1.00	-0.29	-0.96	
7,850.00	90.57	176.97	5,362.88	-2,847.94	31.75	2,848.08	1.30	0.47	1.21	
7,944.00	90.04	179.96	5,362.38	-2,941.90	34.26	2,942.06	3.23	-0.56	3.18	
8,040.00	89.52	178.47	5,362.75	-3,037.89	35.58	3,038.06	1.64	-0.54	-1.55	
8,135.00	90.13	179.43	5,363.04	-3,132.87	37.32	3,133.05	1.20	0.64	1.01	
8,228.00	89.78	178.03	5,363.11	-3,225.84	39.38	3,226.05	1.55	-0.38	-1.51	
8,320.00	89.52	179.43	5,363.68	-3,317.82	41.42	3,318.04	1.55	-0.28	1.52	
8,415.00	90.13	179.78	5,363.97	-3,412.81	42.08	3,413.04	0.74	0.64	0.37	
8,510.00	89.60	178.82	5,364.19	-3,507.80	43.24	3,508.04	1.15	-0.56	-1.01	
8,605.00	89.60	178.90	5,364.85	-3,602.78	45.13	3,603.03	0.08	0.00	0.08	
8,700.00	90.48	178.03	5,364.79	-3,697.75	47.67	3,698.03	1.30	0.93	-0.92	
8,794.00	90.22	178.82	5,364.21	-3,791.71	50.25	3,792.02	0.88	-0.28	0.84	
8,889.00	89.52	178.03	5,364.43	-3,886.67	52.87	3,887.01	1.11	-0.74	-0.83	
8,983.00	89.96	177.76	5,364.86	-3,980.61	56.32	3,980.99	0.55	0.47	-0.29	
9,078.00	90.40	178.38	5,364.56	-4,075.55	59.52	4,075.98	0.80	0.46	0.65	
9,174.00	90.84	177.50	5,363.52	-4,171.48	62.97	4,171.95	1.02	0.46	-0.92	
9,269.00	89.52	178.11	5,363.22	-4,266.41	66.61	4,266.93	1.53	-1.39	0.64	
9,364.00	90.66	178.55	5,363.07	-4,361.37	69.38	4,361.92	1.29	1.20	0.46	
9,460.00	88.55	179.26	5,363.73	-4,457.34	71.21	4,457.91	2.32	-2.20	0.74	
9,555.00	89.60	179.43	5,365.27	-4,552.32	72.30	4,552.89	1.12	1.11	0.18	
9,649.00	89.96	179.61	5,365.63	-4,646.32	73.08	4,646.89	0.43	0.38	0.19	
9,743.00	90.31	180.57	5,365.41	-4,740.32	72.94	4,740.87	1.09	0.37	1.02	
9,838.00	90.66	179.70	5,364.60	-4,835.31	72.71	4,835.85	0.99	0.37	-0.92	

Survey Report

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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)
9,934.00	90.66	181.10	5,363.50	-4,931.30	72.04	4,931.81	1.46	0.00	1.46
10,029.00	90.84	180.57	5,362.25	-5,026.28	70.66	5,026.76	0.59	0.19	-0.56
10,124.00	90.48	182.68	5,361.16	-5,121.23	67.96	5,121.65	2.25	-0.38	2.22
10,219.00	89.69	180.49	5,361.02	-5,216.19	65.34	5,216.55	2.45	-0.83	-2.31
10,315.00	90.40	181.80	5,360.94	-5,312.17	63.42	5,312.48	1.55	0.74	1.36
10,410.00	89.43	180.22	5,361.08	-5,407.15	61.74	5,407.42	1.95	-1.02	-1.66
10,505.00	90.31	180.75	5,361.30	-5,502.14	60.94	5,502.39	1.08	0.93	0.56
10,599.00	89.60	178.03	5,361.37	-5,596.13	61.94	5,596.38	2.99	-0.76	-2.89
10,695.00	89.43	178.47	5,362.18	-5,692.08	64.87	5,692.37	0.49	-0.18	0.46
10,791.00	89.60	178.55	5,363.00	-5,788.04	67.37	5,788.36	0.20	0.18	0.08
10,843.00	89.87	177.50	5,363.24	-5,840.01	69.16	5,840.35	2.08	0.52	-2.02
10843 MD: End DrillTech MWD									
10,859.63	89.87	177.50	5,363.27	-5,856.63	69.88	5,856.97	0.00	0.00	0.00
10859.63 MD: 100' Offset Crossing									
10,909.00	89.87	177.50	5,363.39	-5,905.95	72.04	5,906.33	0.00	0.00	0.00
10909 MD: Projection to TD - 10909 MD: 50.65' FSL & 380.57' FEL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,405.00	9 5/8"		9.625	12.250

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
3,978.00	3,977.84	0.93	10.06	3978' MD: Tied into Pilot Surveys
4,099.00	4,098.82	-0.48	10.57	4099' MD: Start DrillTech ST MWD
5,665.11	5,335.77	-667.12	0.75	5665.11 MD: Lease Line Crossing
5,767.84	5,358.82	-767.13	0.64	5767.84 MD: 100' Offset Crossing
10,843.00	5,363.24	-5,840.01	69.16	10843 MD: End DrillTech MWD
10,859.63	5,363.27	-5,856.63	69.88	10859.63 MD: 100' Offset Crossing
10,909.00	5,363.39	-5,905.95	72.04	10909 MD: Projection to TD
10,909.00	5,363.39	-5,905.95	72.04	10909 MD: 50.65' FSL & 380.57' FEL

Checked By: _____ Approved By: _____ Date: _____

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Combo Fee 1H

Combo Fee 1H

Sidetrack

Design: Sidetrack

Survey Report - Geographic

17 November, 2020

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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	Combo Fee 1H			
Site Position:		Northing:	797,631.12 usft	Latitude: 33.186
From:	Map	Easting:	925,564.59 usft	Longitude: -103.077
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.69 °

Well	Combo Fee 1H			
Well Position	+N/-S	0.00 ft	Northing:	797,631.12 usft
	+E/-W	0.00 ft	Easting:	925,564.59 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	3,803.00 ft

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/7/2020	6.45	60.86	48,171.98806160

Design	Sidetrack				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,978.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	179.04	

Survey Program	Date	11/17/2020			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
126.00	3,978.00	DrilTech MWD (Pilot)	MWD	MWD - Standard	
4,099.00	10,909.00	DrilTech MWD (Sidetrack)	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	797,631.12	925,564.59	33.186	-103.077	
126.00	0.62	73.20	126.00	0.20	0.65	797,631.31	925,565.24	33.186	-103.077	
219.00	0.70	85.24	218.99	0.39	1.70	797,631.51	925,566.29	33.186	-103.077	
309.00	0.79	61.34	308.98	0.73	2.79	797,631.85	925,567.38	33.186	-103.077	
399.00	1.06	65.12	398.97	1.38	4.09	797,632.50	925,568.68	33.186	-103.077	
491.00	0.44	30.22	490.96	2.04	5.04	797,633.16	925,569.63	33.186	-103.077	
585.00	0.70	353.40	584.96	2.93	5.16	797,634.04	925,569.75	33.186	-103.077	
680.00	0.18	345.14	679.96	3.65	5.05	797,634.76	925,569.64	33.186	-103.077	
774.00	0.35	318.68	773.96	4.01	4.83	797,635.12	925,569.42	33.186	-103.077	
867.00	0.53	20.12	866.95	4.62	4.79	797,635.74	925,569.38	33.186	-103.077	
962.00	0.18	272.45	961.95	5.04	4.79	797,636.16	925,569.38	33.186	-103.077	

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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
1,058.00	0.09	242.83	1,057.95	5.01	4.57	797,636.13	925,569.16	33.186	-103.077
1,151.00	0.44	36.29	1,150.95	5.27	4.72	797,636.39	925,569.31	33.186	-103.077
1,245.00	0.62	331.25	1,244.95	6.00	4.69	797,637.12	925,569.28	33.186	-103.077
1,341.00	0.62	290.73	1,340.94	6.64	3.95	797,637.76	925,568.54	33.186	-103.077
1,434.00	0.62	339.16	1,433.94	7.29	3.30	797,638.41	925,567.89	33.186	-103.077
1,529.00	0.62	295.74	1,528.93	8.00	2.65	797,639.11	925,567.25	33.186	-103.077
1,624.00	0.44	291.35	1,623.93	8.35	1.85	797,639.47	925,566.44	33.186	-103.077
1,718.00	0.26	191.59	1,717.93	8.27	1.47	797,639.39	925,566.06	33.186	-103.077
1,813.00	0.35	284.93	1,812.93	8.14	1.15	797,639.26	925,565.74	33.186	-103.077
1,905.00	0.44	187.28	1,904.93	7.86	0.83	797,638.98	925,565.42	33.186	-103.077
2,000.00	0.62	140.44	1,999.92	7.10	1.11	797,638.22	925,565.70	33.186	-103.077
2,094.00	0.18	45.43	2,093.92	6.81	1.54	797,637.93	925,566.13	33.186	-103.077
2,189.00	0.53	161.97	2,188.92	6.50	1.79	797,637.62	925,566.38	33.186	-103.077
2,284.00	0.70	131.39	2,283.91	5.70	2.36	797,636.82	925,566.95	33.186	-103.077
2,345.00	0.70	94.38	2,344.91	5.42	3.01	797,636.54	925,567.60	33.186	-103.077
2,471.00	0.62	119.08	2,470.90	5.03	4.37	797,636.15	925,568.96	33.186	-103.077
2,564.00	0.62	114.60	2,563.90	4.58	5.27	797,635.70	925,569.86	33.186	-103.077
2,657.00	1.23	104.14	2,656.88	4.13	6.69	797,635.24	925,571.28	33.186	-103.077
2,751.00	0.35	156.96	2,750.87	3.62	7.78	797,634.73	925,572.38	33.186	-103.077
2,846.00	0.35	150.28	2,845.87	3.10	8.04	797,634.21	925,572.63	33.186	-103.077
2,940.00	0.70	173.66	2,939.87	2.28	8.25	797,633.39	925,572.84	33.186	-103.077
3,033.00	0.62	165.93	3,032.86	1.22	8.43	797,632.34	925,573.02	33.186	-103.077
3,127.00	0.35	140.26	3,126.86	0.51	8.74	797,631.63	925,573.33	33.186	-103.077
3,223.00	0.35	148.96	3,222.86	0.03	9.08	797,631.15	925,573.67	33.186	-103.077
3,317.00	0.35	133.23	3,316.85	-0.41	9.44	797,630.71	925,574.03	33.186	-103.077
3,412.00	0.44	146.59	3,411.85	-0.91	9.85	797,630.21	925,574.44	33.186	-103.077
3,507.00	0.18	50.26	3,506.85	-1.12	10.16	797,630.00	925,574.75	33.186	-103.077
3,600.00	0.18	345.22	3,599.85	-0.89	10.24	797,630.23	925,574.83	33.186	-103.077
3,694.00	0.26	304.97	3,693.85	-0.62	10.03	797,630.50	925,574.62	33.186	-103.077
3,789.00	0.09	281.33	3,788.85	-0.48	9.78	797,630.63	925,574.37	33.186	-103.077
3,884.00	0.53	11.77	3,883.85	-0.04	9.79	797,631.08	925,574.38	33.186	-103.077
3,978.00	0.70	17.66	3,977.84	0.93	10.06	797,632.05	925,574.65	33.186	-103.077
3978' MD: Tied into Pilot Surveys									
4,099.00	2.02	172.31	4,098.82	-0.48	10.57	797,630.64	925,575.16	33.186	-103.077
4099' MD: Start DrilTech ST MWD									
4,194.00	3.52	187.52	4,193.71	-5.03	10.41	797,626.09	925,575.00	33.186	-103.077
4,289.00	1.93	178.99	4,288.60	-9.52	10.05	797,621.60	925,574.64	33.186	-103.077
4,383.00	1.32	204.83	4,382.56	-12.08	9.63	797,619.04	925,574.22	33.186	-103.077
4,478.00	0.09	341.24	4,477.56	-13.01	9.14	797,618.11	925,573.73	33.186	-103.077
4,571.00	0.62	14.90	4,570.55	-12.45	9.25	797,618.67	925,573.84	33.186	-103.077
4,635.00	1.58	194.11	4,634.55	-12.97	9.12	797,618.15	925,573.71	33.186	-103.077
4,666.00	3.96	188.40	4,665.51	-14.44	8.86	797,616.67	925,573.45	33.186	-103.077
4,699.00	6.24	190.86	4,698.38	-17.33	8.36	797,613.78	925,572.95	33.186	-103.077
4,730.00	8.35	191.30	4,729.12	-21.20	7.60	797,609.92	925,572.19	33.186	-103.077
4,762.00	10.99	189.63	4,760.67	-26.48	6.63	797,604.64	925,571.23	33.186	-103.077
4,794.00	14.07	186.64	4,791.90	-33.36	5.67	797,597.76	925,570.26	33.186	-103.077
4,827.00	17.32	184.62	4,823.67	-42.24	4.81	797,588.88	925,569.41	33.186	-103.077
4,857.00	20.31	184.27	4,852.06	-51.88	4.07	797,579.23	925,568.66	33.186	-103.077
4,889.00	23.48	182.60	4,881.75	-63.79	3.36	797,567.32	925,567.95	33.186	-103.077
4,920.00	26.47	180.93	4,909.85	-76.87	2.97	797,554.24	925,567.56	33.186	-103.077
4,951.00	29.46	179.52	4,937.22	-91.41	2.92	797,539.71	925,567.51	33.186	-103.077
4,983.00	32.62	179.61	4,964.64	-107.91	3.05	797,523.21	925,567.64	33.186	-103.077
5,013.00	35.53	179.78	4,989.48	-124.71	3.14	797,506.41	925,567.73	33.186	-103.077
5,046.00	38.78	179.26	5,015.78	-144.64	3.31	797,486.48	925,567.90	33.186	-103.077
5,074.00	41.50	179.43	5,037.19	-162.69	3.51	797,468.43	925,568.10	33.186	-103.077

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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
5,107.00	44.76	178.99	5,061.27	-185.24	3.83	797,445.88	925,568.42	33.186	-103.077
5,141.00	48.19	179.43	5,084.68	-209.89	4.16	797,421.23	925,568.75	33.186	-103.077
5,169.00	50.21	180.57	5,102.97	-231.08	4.16	797,400.04	925,568.75	33.186	-103.077
5,200.00	52.41	181.72	5,122.35	-255.27	3.67	797,375.85	925,568.26	33.186	-103.077
5,231.00	55.05	182.68	5,140.69	-280.24	2.71	797,350.87	925,567.30	33.186	-103.077
5,262.00	57.86	182.07	5,157.82	-306.06	1.64	797,325.06	925,566.23	33.185	-103.077
5,295.00	60.94	180.66	5,174.61	-334.45	0.97	797,296.67	925,565.56	33.185	-103.077
5,324.00	62.34	180.66	5,188.39	-359.97	0.68	797,271.15	925,565.27	33.185	-103.077
5,356.00	62.52	179.61	5,203.20	-388.33	0.61	797,242.79	925,565.20	33.185	-103.077
5,387.00	62.52	179.43	5,217.50	-415.83	0.84	797,215.29	925,565.43	33.185	-103.077
5,419.00	62.52	179.96	5,232.27	-444.22	0.99	797,186.90	925,565.58	33.185	-103.077
5,450.00	62.70	180.22	5,246.53	-471.75	0.95	797,159.37	925,565.54	33.185	-103.077
5,482.00	62.96	179.43	5,261.14	-500.21	1.04	797,130.90	925,565.63	33.185	-103.077
5,513.00	63.05	180.13	5,275.22	-527.84	1.14	797,103.28	925,565.73	33.185	-103.077
5,545.00	63.22	180.22	5,289.68	-556.38	1.05	797,074.74	925,565.65	33.185	-103.077
5,576.00	64.46	180.22	5,303.34	-584.21	0.95	797,046.91	925,565.54	33.185	-103.077
5,608.00	67.45	179.87	5,316.38	-613.43	0.93	797,017.69	925,565.52	33.185	-103.077
5,640.00	70.52	180.40	5,327.85	-643.29	0.85	796,987.82	925,565.44	33.185	-103.077
5,665.11	72.73	180.12	5,335.77	-667.12	0.75	796,964.00	925,565.34	33.184	-103.077
5665.11 MD: Lease Line Crossing									
5,672.00	73.34	180.05	5,337.78	-673.71	0.74	796,957.41	925,565.33	33.184	-103.077
5,702.00	75.71	181.10	5,345.78	-702.62	0.44	796,928.50	925,565.03	33.184	-103.077
5,734.00	78.52	179.26	5,352.92	-733.81	0.35	796,897.31	925,564.94	33.184	-103.077
5,765.00	81.16	179.70	5,358.39	-764.32	0.62	796,866.80	925,565.22	33.184	-103.077
5,767.84	81.38	179.67	5,358.82	-767.13	0.64	796,863.99	925,565.23	33.184	-103.077
5767.84 MD: 100' Offset Crossing									
5,796.00	83.54	179.34	5,362.51	-795.04	0.88	796,836.08	925,565.47	33.184	-103.077
5,828.00	85.38	178.73	5,365.60	-826.89	1.42	796,804.23	925,566.01	33.184	-103.077
5,860.00	87.49	178.64	5,367.59	-858.81	2.15	796,772.31	925,566.74	33.184	-103.077
5,892.00	88.90	177.67	5,368.60	-890.78	3.18	796,740.34	925,567.77	33.184	-103.077
5,923.00	89.60	177.76	5,369.01	-921.75	4.42	796,709.37	925,569.01	33.184	-103.077
5,987.00	90.31	178.20	5,369.06	-985.71	6.67	796,645.41	925,571.26	33.184	-103.077
6,082.00	89.69	179.52	5,369.06	-1,080.69	8.56	796,550.43	925,573.15	33.183	-103.077
6,176.00	90.66	180.57	5,368.77	-1,174.69	8.49	796,456.43	925,573.08	33.183	-103.077
6,270.00	89.87	179.78	5,368.33	-1,268.68	8.20	796,362.44	925,572.79	33.183	-103.077
6,365.00	89.34	178.99	5,368.99	-1,363.68	9.22	796,267.44	925,573.81	33.183	-103.077
6,456.00	89.87	179.96	5,369.62	-1,454.67	10.06	796,176.45	925,574.65	33.182	-103.077
6,549.00	91.28	180.57	5,368.68	-1,547.66	9.63	796,083.46	925,574.22	33.182	-103.077
6,640.00	89.69	180.75	5,367.91	-1,638.65	8.58	795,992.47	925,573.17	33.182	-103.077
6,733.00	90.40	180.40	5,367.84	-1,731.64	7.64	795,899.48	925,572.24	33.182	-103.077
6,824.00	90.92	179.96	5,366.79	-1,822.64	7.36	795,808.49	925,571.95	33.181	-103.077
6,916.00	90.84	179.43	5,365.38	-1,914.62	7.85	795,716.50	925,572.44	33.181	-103.077
7,008.00	91.28	180.57	5,363.68	-2,006.61	7.85	795,624.52	925,572.44	33.181	-103.077
7,099.00	89.43	180.22	5,363.11	-2,097.60	7.22	795,533.52	925,571.81	33.181	-103.077
7,191.00	89.69	180.05	5,363.82	-2,189.59	7.00	795,441.53	925,571.60	33.180	-103.078
7,285.00	88.72	179.34	5,365.12	-2,283.58	7.50	795,347.54	925,572.10	33.180	-103.078
7,379.00	89.69	178.55	5,366.43	-2,377.56	9.24	795,253.57	925,573.83	33.180	-103.078
7,474.00	90.48	178.11	5,366.29	-2,472.51	12.00	795,158.61	925,576.59	33.180	-103.077
7,569.00	91.01	177.85	5,365.05	-2,567.45	15.35	795,063.68	925,579.94	33.179	-103.077
7,664.00	90.40	176.71	5,363.88	-2,662.33	19.86	794,968.79	925,584.45	33.179	-103.077
7,756.00	90.13	175.83	5,363.46	-2,754.13	25.84	794,876.99	925,590.44	33.179	-103.077
7,850.00	90.57	176.97	5,362.88	-2,847.94	31.75	794,783.18	925,596.34	33.178	-103.077
7,944.00	90.04	179.96	5,362.38	-2,941.90	34.26	794,689.23	925,598.86	33.178	-103.077
8,040.00	89.52	178.47	5,362.75	-3,037.89	35.58	794,593.24	925,600.17	33.178	-103.077
8,135.00	90.13	179.43	5,363.04	-3,132.87	37.32	794,498.26	925,601.91	33.178	-103.077

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	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
8,228.00	89.78	178.03	5,363.11	-3,225.84	39.38	794,405.28	925,603.97	33.177	-103.077
8,320.00	89.52	179.43	5,363.68	-3,317.82	41.42	794,313.31	925,606.01	33.177	-103.077
8,415.00	90.13	179.78	5,363.97	-3,412.81	42.08	794,218.31	925,606.67	33.177	-103.077
8,510.00	89.60	178.82	5,364.19	-3,507.80	43.24	794,123.32	925,607.83	33.177	-103.077
8,605.00	89.60	178.90	5,364.85	-3,602.78	45.13	794,028.34	925,609.72	33.176	-103.077
8,700.00	90.48	178.03	5,364.79	-3,697.75	47.67	793,933.38	925,612.26	33.176	-103.077
8,794.00	90.22	178.82	5,364.21	-3,791.71	50.25	793,839.42	925,614.85	33.176	-103.077
8,889.00	89.52	178.03	5,364.43	-3,886.67	52.87	793,744.45	925,617.46	33.176	-103.077
8,983.00	89.96	177.76	5,364.86	-3,980.61	56.32	793,650.52	925,620.91	33.175	-103.077
9,078.00	90.40	178.38	5,364.56	-4,075.55	59.52	793,555.57	925,624.11	33.175	-103.077
9,174.00	90.84	177.50	5,363.52	-4,171.48	62.97	793,459.64	925,627.56	33.175	-103.077
9,269.00	89.52	178.11	5,363.22	-4,266.41	66.61	793,364.72	925,631.20	33.175	-103.077
9,364.00	90.66	178.55	5,363.07	-4,361.37	69.38	793,269.76	925,633.97	33.174	-103.077
9,460.00	88.55	179.26	5,363.73	-4,457.34	71.21	793,173.79	925,635.80	33.174	-103.077
9,555.00	89.60	179.43	5,365.27	-4,552.32	72.30	793,078.81	925,636.89	33.174	-103.077
9,649.00	89.96	179.61	5,365.63	-4,646.32	73.08	792,984.81	925,637.67	33.174	-103.077
9,743.00	90.31	180.57	5,365.41	-4,740.32	72.94	792,890.81	925,637.53	33.173	-103.077
9,838.00	90.66	179.70	5,364.60	-4,835.31	72.71	792,795.82	925,637.30	33.173	-103.077
9,934.00	90.66	181.10	5,363.50	-4,931.30	72.04	792,699.83	925,636.63	33.173	-103.077
10,029.00	90.84	180.57	5,362.25	-5,026.28	70.66	792,604.85	925,635.25	33.173	-103.077
10,124.00	90.48	182.68	5,361.16	-5,121.23	67.96	792,509.90	925,632.55	33.172	-103.077
10,219.00	89.69	180.49	5,361.02	-5,216.19	65.34	792,414.94	925,629.93	33.172	-103.077
10,315.00	90.40	181.80	5,360.94	-5,312.17	63.42	792,318.96	925,628.01	33.172	-103.077
10,410.00	89.43	180.22	5,361.08	-5,407.15	61.74	792,223.98	925,626.33	33.171	-103.077
10,505.00	90.31	180.75	5,361.30	-5,502.14	60.94	792,128.99	925,625.53	33.171	-103.077
10,599.00	89.60	178.03	5,361.37	-5,596.13	61.94	792,035.00	925,626.53	33.171	-103.077
10,695.00	89.43	178.47	5,362.18	-5,692.08	64.87	791,939.05	925,629.46	33.171	-103.077
10,791.00	89.60	178.55	5,363.00	-5,788.04	67.37	791,843.09	925,631.96	33.170	-103.077
10,843.00	89.87	177.50	5,363.24	-5,840.01	69.16	791,791.12	925,633.75	33.170	-103.077
10843 MD: End DrillTech MWD									
10,859.63	89.87	177.50	5,363.27	-5,856.63	69.88	791,774.50	925,634.48	33.170	-103.077
10859.63 MD: 100' Offset Crossing									
10,909.00	89.87	177.50	5,363.39	-5,905.95	72.04	791,725.18	925,636.63	33.170	-103.077
10909 MD: Projection to TD - 10909 MD: 50.65' FSL & 380.57' FEL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,405.00	9 5/8"		9.625	12.250

Survey Report - Geographic

Company:	Steward Energy II, LLC	Local Co-ordinate Reference:	Well Combo Fee 1H
Project:	Lea County, NM (NAD 83) NM East Zone	TVD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Site:	Combo Fee 1H	MD Reference:	GL 3803' + RKB 17' @ 3820.00ft (Norton 6)
Well:	Combo Fee 1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	EDM

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,978.00	3,977.84	0.93	10.06	3978' MD: Tied into Pilot Surveys
4,099.00	4,098.82	-0.48	10.57	4099' MD: Start DrillTech ST MWD
5,665.11	5,335.77	-667.12	0.75	5665.11 MD: Lease Line Crossing
5,767.84	5,358.82	-767.13	0.64	5767.84 MD: 100' Offset Crossing
10,843.00	5,363.24	-5,840.01	69.16	10843 MD: End DrillTech MWD
10,859.63	5,363.27	-5,856.63	69.88	10859.63 MD: 100' Offset Crossing
10,909.00	5,363.39	-5,905.95	72.04	10909 MD: Projection to TD
10,909.00	5,363.39	-5,905.95	72.04	10909 MD: 50.65' FSL & 380.57' FEL

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 12868

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
STEWARD ENERGY II, LLC Suite 400 Frisco, TX75034	371682	12868	C-104
2600 Dallas Parkway			
OCD Reviewer	Condition		
pkautz	None		