

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

Form C-101
August 1, 2011

Permit 295612

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034		2. OGRID Number 371682
		3. API Number 30-025-48982
4. Property Code 330992	5. Property Name GUSTAVO FEE	6. Well No. 005H

7. Surface Location

UL - Lot D	Section 23	Township 13S	Range 38E	Lot Idn D	Feet From 219	N/S Line N	Feet From 204	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot L	Section 11	Township 13S	Range 38E	Lot Idn L	Feet From 2534	N/S Line S	Feet From 1275	E/W Line W	County Lea
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9. Pool Information

BRONCO;SAN ANDRES, SOUTH	7500
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3801
16. Multiple N	17. Proposed Depth 16396	18. Formation San Andres Formation	19. Contractor	20. Spud Date 7/10/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	2410	855	0
Prod	8.75	5.5	20	16396	3700	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	Schafer
Double Ram	3000	1500	Schafer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by William McMann	Approved By: Paul F Kautz	
Title:	Title: Geologist	
Email Address: bill.mcmann@stewardenergy.net	Approved Date: 6/8/2021	Expiration Date: 6/8/2023
Date: 5/3/2021	Phone: 214-297-0516	Conditions of Approval Attached

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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 PLAT

¹ API Number 30-025-48982	² Pool Code 7500	³ Pool Name BRONCO; SAN ANDRES, SOUTH
⁴ Property Code 330992	⁵ Property Name GUSTAVO FEE	⁶ Well Number 5H
⁷ OGRID No. 371682	⁸ Operator Name STEWARD ENERGY II, LLC	⁹ Elevation 3801'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	13S	38E		219	NORTH	204	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	11	13S	38E		2534	SOUTH	1275	WEST	LEA

¹² Dedicated Acres 489.82	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 925842.27' / Y: 804856.15' B - X: 928485.77' / Y: 804890.52' C - X: 928512.97' / Y: 802258.45' D - X: 928579.01' / Y: 797007.20' E - X: 925931.71' / Y: 796968.63' F - X: 925863.78' / Y: 802219.85'	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: 4-29-21 Printed Name: Ben Barton E-mail Address: ben.barton@stewardenergy.com	
	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 884666.42' / Y: 804793.09' B - X: 887309.91' / Y: 804827.58' C - X: 887337.10' / Y: 802195.59' D - X: 887403.12' / Y: 796944.49' E - X: 884755.82' / Y: 796905.79' F - X: 884687.91' / Y: 802156.86'		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: APRIL 6, 2021 Signature and Seal of Professional Surveyor: <i>David W. Myers</i> Certificate Number: DAVID W. MYERS 11403
	LAST TAKE POINT/BOTTOM HOLE LOCATION 2534' FSL 1275' FWL, SECTION 11 NAD 83, SPCS NM EAST X: 927118.00' / Y: 804772.73' LAT: 33.20589360N / LON: 103.07208709W NAD 27, SPCS NM EAST X: 885942.14' / Y: 804709.73' LAT: 33.20578663N / LON: 103.07158801W		
	FIRST TAKE POINT 100' FSL 1310' FWL, SECTION 14 NAD 83, SPCS NM EAST X: 927240.28' / Y: 797087.71' LAT: 33.18477255N / LON: 103.07199021W NAD 27, SPCS NM EAST X: 886064.39' / Y: 797024.93' LAT: 33.18466555N / LON: 103.07149134W		
	KICK OFF POINT 746' FNL 1310' FWL, SECTION 23 NAD 83, SPCS NM EAST X: 827249.73' / Y: 798241.51' LAT: 33.18244705N / LON: 103.07199265W NAD 27, SPCS NM EAST X: 886073.84' / Y: 798178.76' LAT: 33.18234005N / LON: 103.07149381W		
	SURFACE HOLE LOCATION 219' FNL 204' FWL, SECTION 23 NAD 83, SPCS NM EAST X: 926137.73' / Y: 796753.06' LAT: 33.18388945N / LON: 103.07560634W NAD 27, SPCS NM EAST X: 884961.84' / Y: 796690.23' LAT: 33.18378232N / LON: 103.07510739W		

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

☐ Horizontal Spacing Unit

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GAS CAPTURE PLAN

Date: 6/8/2021

☒ Original

Operator & OGRID No.: [371682] STEWARD ENERGY II, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
GUSTAVO FEE #005H	30-025-48982	D-23-13S-38E	0219N 0204W	49	None	Only in emergency-will connect As soon as possible

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to STAKEHOLDER GAS UTILITY, LLC and will be connected to STAKEHOLDER GAS UTILITY, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 5000' of pipeline to connect the facility to Low Pressure gathering system. STEWART ENERGY II, LLC provides (periodically) to STAKEHOLDER GAS UTILITY, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, STEWART ENERGY II, LLC and STAKEHOLDER GAS UTILITY, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at STAKEHOLDER GAS UTILITY, LLC Processing Plant located in Sec. 24, Twn. 13S, Rng. 38E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on STAKEHOLDER GAS UTILITY, LLC system at that time. Based on current information, it is STEWART ENERGY II, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Conditions

Permit 295612

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: STEWART ENERGY II, LLC [371682] 2600 Dallas Parkway Frisco, TX 75034	API Number: 30-025-48982
	Well: GUSTAVO FEE #005H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	SURFACE & PRODUCTION CASING - Cement must circulate to surface
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Gustavo Fee 5H

Gustavo Fee 5H

Wellbore #1

Plan: Plan #1

Standard Planning Report

05 April, 2021

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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	Gustavo Fee 5H			
Site Position:		Northing:	796,735.06 usft	Latitude: 33.184
From: Map		Easting:	926,137.73 usft	Longitude: -103.076
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	

Well	Gustavo Fee 5H			
Well Position	+N/-S	0.00 ft	Northing:	796,735.06 usft
	+E/-W	0.00 ft	Easting:	926,137.73 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.69 °	Ground Level:	3,801.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/16/2021	6.41	60.85	48,161.58428392

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.20

Plan Survey Tool Program	Date	4/5/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,396.25 Plan #1 (Wellbore #1)	MWD	
			MWD - Standard	

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
1,871.98	26.72	114.70	1,815.60	-150.45	327.05	1.70	1.70	0.00	114.70	
2,999.19	26.72	114.70	2,822.41	-362.30	787.56	0.00	0.00	0.00	0.00	
4,571.17	0.00	0.00	4,338.01	-512.75	1,114.61	1.70	-1.70	0.00	180.00	
4,771.17	0.00	0.00	4,538.01	-512.75	1,114.61	0.00	0.00	0.00	0.00	
5,521.17	60.00	359.20	5,158.26	-154.68	1,109.61	8.00	8.00	0.00	359.20	
5,771.17	60.00	359.20	5,283.26	61.80	1,106.59	0.00	0.00	0.00	0.00	
6,075.61	90.44	359.20	5,360.00	352.69	1,102.53	10.00	10.00	0.00	0.00	
16,396.25	90.44	359.20	5,280.00	10,672.02	958.78	0.00	0.00	0.00	0.00	PBHL Gustavo Fee 5I

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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
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
Start Build 1.70 at 300 MD									
400.00	1.70	114.70	399.99	-0.62	1.35	-0.64	1.70	1.70	0.00
500.00	3.40	114.70	499.88	-2.48	5.39	-2.55	1.70	1.70	0.00
600.00	5.10	114.70	599.60	-5.58	12.12	-5.75	1.70	1.70	0.00
700.00	6.80	114.70	699.06	-9.91	21.54	-10.21	1.70	1.70	0.00
800.00	8.50	114.70	798.17	-15.47	33.63	-15.94	1.70	1.70	0.00
900.00	10.20	114.70	896.84	-22.26	48.39	-22.93	1.70	1.70	0.00
1,000.00	11.90	114.70	994.98	-30.27	65.80	-31.19	1.70	1.70	0.00
1,100.00	13.60	114.70	1,092.51	-39.49	85.85	-40.69	1.70	1.70	0.00
1,200.00	15.30	114.70	1,189.34	-49.92	108.52	-51.43	1.70	1.70	0.00
1,300.00	17.00	114.70	1,285.39	-61.55	133.79	-63.41	1.70	1.70	0.00
1,400.00	18.70	114.70	1,380.57	-74.36	161.64	-76.61	1.70	1.70	0.00
1,500.00	20.40	114.70	1,474.81	-88.34	192.04	-91.01	1.70	1.70	0.00
1,600.00	22.10	114.70	1,568.00	-103.49	224.96	-106.62	1.70	1.70	0.00
1,700.00	23.80	114.70	1,660.08	-119.78	260.38	-123.41	1.70	1.70	0.00
1,800.00	25.50	114.70	1,750.97	-137.21	298.27	-141.36	1.70	1.70	0.00
1,871.98	26.72	114.70	1,815.60	-150.45	327.05	-155.00	1.70	1.70	0.00
Start 1127.22 hold at 1871.98 MD									
1,900.00	26.72	114.70	1,840.63	-155.72	338.50	-160.43	0.00	0.00	0.00
2,000.00	26.72	114.70	1,929.95	-174.51	379.35	-179.79	0.00	0.00	0.00
2,100.00	26.72	114.70	2,019.27	-193.31	420.21	-199.15	0.00	0.00	0.00
2,200.00	26.72	114.70	2,108.58	-212.10	461.06	-218.52	0.00	0.00	0.00
2,300.00	26.72	114.70	2,197.90	-230.89	501.91	-237.88	0.00	0.00	0.00
2,400.00	26.72	114.70	2,287.22	-249.69	542.77	-257.24	0.00	0.00	0.00
2,500.00	26.72	114.70	2,376.54	-268.48	583.62	-276.60	0.00	0.00	0.00
2,600.00	26.72	114.70	2,465.86	-287.27	624.47	-295.96	0.00	0.00	0.00
2,700.00	26.72	114.70	2,555.18	-306.07	665.33	-315.33	0.00	0.00	0.00
2,800.00	26.72	114.70	2,644.50	-324.86	706.18	-334.69	0.00	0.00	0.00
2,900.00	26.72	114.70	2,733.81	-343.65	747.03	-354.05	0.00	0.00	0.00
2,999.19	26.72	114.70	2,822.41	-362.30	787.56	-373.26	0.00	0.00	0.00
Start Drop -1.70 at 2999.19 MD									
3,000.00	26.71	114.70	2,823.13	-362.45	787.89	-373.41	1.70	-1.70	0.00
3,100.00	25.01	114.70	2,913.12	-380.67	827.51	-392.19	1.70	-1.70	0.00
3,200.00	23.31	114.70	3,004.35	-397.78	864.69	-409.81	1.70	-1.70	0.00
3,300.00	21.61	114.70	3,096.76	-413.74	899.40	-426.26	1.70	-1.70	0.00
3,400.00	19.91	114.70	3,190.27	-428.56	931.60	-441.52	1.70	-1.70	0.00
3,500.00	18.21	114.70	3,284.78	-442.20	961.26	-455.58	1.70	-1.70	0.00
3,600.00	16.51	114.70	3,380.22	-454.67	988.37	-468.43	1.70	-1.70	0.00
3,700.00	14.81	114.70	3,476.51	-465.95	1,012.89	-480.05	1.70	-1.70	0.00
3,800.00	13.11	114.70	3,573.55	-476.04	1,034.81	-490.44	1.70	-1.70	0.00
3,900.00	11.41	114.70	3,671.27	-484.91	1,054.10	-499.58	1.70	-1.70	0.00
4,000.00	9.71	114.70	3,769.57	-492.57	1,070.75	-507.47	1.70	-1.70	0.00
4,100.00	8.01	114.70	3,868.37	-499.01	1,084.74	-514.10	1.70	-1.70	0.00
4,200.00	6.31	114.70	3,967.59	-504.21	1,096.06	-519.47	1.70	-1.70	0.00
4,300.00	4.61	114.70	4,067.13	-508.19	1,104.70	-523.57	1.70	-1.70	0.00
4,400.00	2.91	114.70	4,166.91	-510.93	1,110.66	-526.39	1.70	-1.70	0.00
4,500.00	1.21	114.70	4,266.85	-512.43	1,113.93	-527.94	1.70	-1.70	0.00
4,571.17	0.00	0.00	4,338.01	-512.75	1,114.61	-528.26	1.70	-1.70	0.00
Start 200.00 hold at 4571.17 MD									
4,600.00	0.00	0.00	4,366.84	-512.75	1,114.61	-528.26	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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)
4,700.00	0.00	0.00	4,466.84	-512.75	1,114.61	-528.26	0.00	0.00	0.00
4,771.17	0.00	0.00	4,538.01	-512.75	1,114.61	-528.26	0.00	0.00	0.00
Start Build 8.00 at 4771.17 MD									
4,800.00	2.31	359.20	4,566.83	-512.17	1,114.60	-527.68	8.00	8.00	0.00
4,900.00	10.31	359.20	4,666.15	-501.19	1,114.45	-516.70	8.00	8.00	0.00
5,000.00	18.31	359.20	4,762.97	-476.50	1,114.10	-492.01	8.00	8.00	0.00
5,100.00	26.31	359.20	4,855.41	-438.58	1,113.57	-454.09	8.00	8.00	0.00
5,200.00	34.31	359.20	4,941.67	-388.17	1,112.87	-403.67	8.00	8.00	0.00
5,300.00	42.31	359.20	5,020.08	-326.24	1,112.00	-341.73	8.00	8.00	0.00
5,400.00	50.31	359.20	5,089.10	-254.00	1,111.00	-269.48	8.00	8.00	0.00
5,500.00	58.31	359.20	5,147.40	-172.86	1,109.86	-188.34	8.00	8.00	0.00
5,521.17	60.00	359.20	5,158.26	-154.68	1,109.61	-170.16	8.00	8.00	0.00
Start 250.00 hold at 5521.17 MD									
5,600.00	60.00	359.20	5,197.67	-86.42	1,108.66	-101.89	0.00	0.00	0.00
5,700.00	60.00	359.20	5,247.67	0.17	1,107.45	-15.29	0.00	0.00	0.00
5,771.17	60.00	359.20	5,283.26	61.80	1,106.59	46.35	0.00	0.00	0.00
Start DLS 10.00 TFO 0.00 at 5771.17 MD									
5,800.00	62.88	359.20	5,297.04	87.12	1,106.23	71.67	10.00	10.00	0.00
5,900.00	72.88	359.20	5,334.64	179.63	1,104.94	164.19	10.00	10.00	0.00
6,000.00	82.88	359.20	5,355.60	277.27	1,103.58	261.84	10.00	10.00	0.00
6,075.61	90.44	359.20	5,360.00	352.69	1,102.53	337.27	10.00	10.00	0.00
Start 10320.64 hold at 6075.61 MD									
6,100.00	90.44	359.20	5,359.81	377.08	1,102.19	361.65	0.00	0.00	0.00
6,200.00	90.44	359.20	5,359.04	477.07	1,100.80	461.65	0.00	0.00	0.00
6,300.00	90.44	359.20	5,358.26	577.05	1,099.40	561.65	0.00	0.00	0.00
6,400.00	90.44	359.20	5,357.49	677.04	1,098.01	661.64	0.00	0.00	0.00
6,500.00	90.44	359.20	5,356.71	777.03	1,096.62	761.64	0.00	0.00	0.00
6,600.00	90.44	359.20	5,355.93	877.02	1,095.23	861.64	0.00	0.00	0.00
6,700.00	90.44	359.20	5,355.16	977.00	1,093.83	961.64	0.00	0.00	0.00
6,800.00	90.44	359.20	5,354.38	1,076.99	1,092.44	1,061.63	0.00	0.00	0.00
6,900.00	90.44	359.20	5,353.61	1,176.98	1,091.05	1,161.63	0.00	0.00	0.00
7,000.00	90.44	359.20	5,352.83	1,276.97	1,089.65	1,261.63	0.00	0.00	0.00
7,100.00	90.44	359.20	5,352.06	1,376.95	1,088.26	1,361.62	0.00	0.00	0.00
7,200.00	90.44	359.20	5,351.28	1,476.94	1,086.87	1,461.62	0.00	0.00	0.00
7,300.00	90.44	359.20	5,350.51	1,576.93	1,085.48	1,561.62	0.00	0.00	0.00
7,400.00	90.44	359.20	5,349.73	1,676.91	1,084.08	1,661.61	0.00	0.00	0.00
7,500.00	90.44	359.20	5,348.96	1,776.90	1,082.69	1,761.61	0.00	0.00	0.00
7,600.00	90.44	359.20	5,348.18	1,876.89	1,081.30	1,861.61	0.00	0.00	0.00
7,700.00	90.44	359.20	5,347.41	1,976.88	1,079.90	1,961.61	0.00	0.00	0.00
7,800.00	90.44	359.20	5,346.63	2,076.86	1,078.51	2,061.60	0.00	0.00	0.00
7,900.00	90.44	359.20	5,345.86	2,176.85	1,077.12	2,161.60	0.00	0.00	0.00
8,000.00	90.44	359.20	5,345.08	2,276.84	1,075.73	2,261.60	0.00	0.00	0.00
8,100.00	90.44	359.20	5,344.31	2,376.83	1,074.33	2,361.59	0.00	0.00	0.00
8,200.00	90.44	359.20	5,343.53	2,476.81	1,072.94	2,461.59	0.00	0.00	0.00
8,300.00	90.44	359.20	5,342.76	2,576.80	1,071.55	2,561.59	0.00	0.00	0.00
8,400.00	90.44	359.20	5,341.98	2,676.79	1,070.16	2,661.58	0.00	0.00	0.00
8,500.00	90.44	359.20	5,341.21	2,776.77	1,068.76	2,761.58	0.00	0.00	0.00
8,600.00	90.44	359.20	5,340.43	2,876.76	1,067.37	2,861.58	0.00	0.00	0.00
8,700.00	90.44	359.20	5,339.66	2,976.75	1,065.98	2,961.58	0.00	0.00	0.00
8,800.00	90.44	359.20	5,338.88	3,076.74	1,064.58	3,061.57	0.00	0.00	0.00
8,900.00	90.44	359.20	5,338.11	3,176.72	1,063.19	3,161.57	0.00	0.00	0.00
9,000.00	90.44	359.20	5,337.33	3,276.71	1,061.80	3,261.57	0.00	0.00	0.00
9,100.00	90.44	359.20	5,336.56	3,376.70	1,060.41	3,361.56	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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)
9,200.00	90.44	359.20	5,335.78	3,476.69	1,059.01	3,461.56	0.00	0.00	0.00
9,300.00	90.44	359.20	5,335.01	3,576.67	1,057.62	3,561.56	0.00	0.00	0.00
9,400.00	90.44	359.20	5,334.23	3,676.66	1,056.23	3,661.55	0.00	0.00	0.00
9,500.00	90.44	359.20	5,333.46	3,776.65	1,054.83	3,761.55	0.00	0.00	0.00
9,600.00	90.44	359.20	5,332.68	3,876.64	1,053.44	3,861.55	0.00	0.00	0.00
9,700.00	90.44	359.20	5,331.91	3,976.62	1,052.05	3,961.55	0.00	0.00	0.00
9,800.00	90.44	359.20	5,331.13	4,076.61	1,050.66	4,061.54	0.00	0.00	0.00
9,900.00	90.44	359.20	5,330.36	4,176.60	1,049.26	4,161.54	0.00	0.00	0.00
10,000.00	90.44	359.20	5,329.58	4,276.58	1,047.87	4,261.54	0.00	0.00	0.00
10,100.00	90.44	359.20	5,328.80	4,376.57	1,046.48	4,361.53	0.00	0.00	0.00
10,200.00	90.44	359.20	5,328.03	4,476.56	1,045.08	4,461.53	0.00	0.00	0.00
10,300.00	90.44	359.20	5,327.25	4,576.55	1,043.69	4,561.53	0.00	0.00	0.00
10,400.00	90.44	359.20	5,326.48	4,676.53	1,042.30	4,661.52	0.00	0.00	0.00
10,500.00	90.44	359.20	5,325.70	4,776.52	1,040.91	4,761.52	0.00	0.00	0.00
10,600.00	90.44	359.20	5,324.93	4,876.51	1,039.51	4,861.52	0.00	0.00	0.00
10,700.00	90.44	359.20	5,324.15	4,976.50	1,038.12	4,961.52	0.00	0.00	0.00
10,800.00	90.44	359.20	5,323.38	5,076.48	1,036.73	5,061.51	0.00	0.00	0.00
10,900.00	90.44	359.20	5,322.60	5,176.47	1,035.33	5,161.51	0.00	0.00	0.00
11,000.00	90.44	359.20	5,321.83	5,276.46	1,033.94	5,261.51	0.00	0.00	0.00
11,100.00	90.44	359.20	5,321.05	5,376.44	1,032.55	5,361.50	0.00	0.00	0.00
11,200.00	90.44	359.20	5,320.28	5,476.43	1,031.16	5,461.50	0.00	0.00	0.00
11,300.00	90.44	359.20	5,319.50	5,576.42	1,029.76	5,561.50	0.00	0.00	0.00
11,400.00	90.44	359.20	5,318.73	5,676.41	1,028.37	5,661.49	0.00	0.00	0.00
11,500.00	90.44	359.20	5,317.95	5,776.39	1,026.98	5,761.49	0.00	0.00	0.00
11,600.00	90.44	359.20	5,317.18	5,876.38	1,025.58	5,861.49	0.00	0.00	0.00
11,700.00	90.44	359.20	5,316.40	5,976.37	1,024.19	5,961.49	0.00	0.00	0.00
11,800.00	90.44	359.20	5,315.63	6,076.36	1,022.80	6,061.48	0.00	0.00	0.00
11,900.00	90.44	359.20	5,314.85	6,176.34	1,021.41	6,161.48	0.00	0.00	0.00
12,000.00	90.44	359.20	5,314.08	6,276.33	1,020.01	6,261.48	0.00	0.00	0.00
12,100.00	90.44	359.20	5,313.30	6,376.32	1,018.62	6,361.47	0.00	0.00	0.00
12,200.00	90.44	359.20	5,312.53	6,476.30	1,017.23	6,461.47	0.00	0.00	0.00
12,300.00	90.44	359.20	5,311.75	6,576.29	1,015.84	6,561.47	0.00	0.00	0.00
12,400.00	90.44	359.20	5,310.98	6,676.28	1,014.44	6,661.46	0.00	0.00	0.00
12,500.00	90.44	359.20	5,310.20	6,776.27	1,013.05	6,761.46	0.00	0.00	0.00
12,600.00	90.44	359.20	5,309.43	6,876.25	1,011.66	6,861.46	0.00	0.00	0.00
12,700.00	90.44	359.20	5,308.65	6,976.24	1,010.26	6,961.46	0.00	0.00	0.00
12,800.00	90.44	359.20	5,307.88	7,076.23	1,008.87	7,061.45	0.00	0.00	0.00
12,900.00	90.44	359.20	5,307.10	7,176.22	1,007.48	7,161.45	0.00	0.00	0.00
13,000.00	90.44	359.20	5,306.33	7,276.20	1,006.09	7,261.45	0.00	0.00	0.00
13,100.00	90.44	359.20	5,305.55	7,376.19	1,004.69	7,361.44	0.00	0.00	0.00
13,200.00	90.44	359.20	5,304.78	7,476.18	1,003.30	7,461.44	0.00	0.00	0.00
13,300.00	90.44	359.20	5,304.00	7,576.17	1,001.91	7,561.44	0.00	0.00	0.00
13,400.00	90.44	359.20	5,303.23	7,676.15	1,000.51	7,661.43	0.00	0.00	0.00
13,500.00	90.44	359.20	5,302.45	7,776.14	999.12	7,761.43	0.00	0.00	0.00
13,600.00	90.44	359.20	5,301.68	7,876.13	997.73	7,861.43	0.00	0.00	0.00
13,700.00	90.44	359.20	5,300.90	7,976.11	996.34	7,961.43	0.00	0.00	0.00
13,800.00	90.44	359.20	5,300.12	8,076.10	994.94	8,061.42	0.00	0.00	0.00
13,900.00	90.44	359.20	5,299.35	8,176.09	993.55	8,161.42	0.00	0.00	0.00
14,000.00	90.44	359.20	5,298.57	8,276.08	992.16	8,261.42	0.00	0.00	0.00
14,100.00	90.44	359.20	5,297.80	8,376.06	990.76	8,361.41	0.00	0.00	0.00
14,200.00	90.44	359.20	5,297.02	8,476.05	989.37	8,461.41	0.00	0.00	0.00
14,300.00	90.44	359.20	5,296.25	8,576.04	987.98	8,561.41	0.00	0.00	0.00
14,400.00	90.44	359.20	5,295.47	8,676.03	986.59	8,661.40	0.00	0.00	0.00
14,500.00	90.44	359.20	5,294.70	8,776.01	985.19	8,761.40	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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)
14,600.00	90.44	359.20	5,293.92	8,876.00	983.80	8,861.40	0.00	0.00	0.00
14,700.00	90.44	359.20	5,293.15	8,975.99	982.41	8,961.40	0.00	0.00	0.00
14,800.00	90.44	359.20	5,292.37	9,075.97	981.01	9,061.39	0.00	0.00	0.00
14,900.00	90.44	359.20	5,291.60	9,175.96	979.62	9,161.39	0.00	0.00	0.00
15,000.00	90.44	359.20	5,290.82	9,275.95	978.23	9,261.39	0.00	0.00	0.00
15,100.00	90.44	359.20	5,290.05	9,375.94	976.84	9,361.38	0.00	0.00	0.00
15,200.00	90.44	359.20	5,289.27	9,475.92	975.44	9,461.38	0.00	0.00	0.00
15,300.00	90.44	359.20	5,288.50	9,575.91	974.05	9,561.38	0.00	0.00	0.00
15,400.00	90.44	359.20	5,287.72	9,675.90	972.66	9,661.37	0.00	0.00	0.00
15,500.00	90.44	359.20	5,286.95	9,775.89	971.27	9,761.37	0.00	0.00	0.00
15,600.00	90.44	359.20	5,286.17	9,875.87	969.87	9,861.37	0.00	0.00	0.00
15,700.00	90.44	359.20	5,285.40	9,975.86	968.48	9,961.37	0.00	0.00	0.00
15,800.00	90.44	359.20	5,284.62	10,075.85	967.09	10,061.36	0.00	0.00	0.00
15,900.00	90.44	359.20	5,283.85	10,175.83	965.69	10,161.36	0.00	0.00	0.00
16,000.00	90.44	359.20	5,283.07	10,275.82	964.30	10,261.36	0.00	0.00	0.00
16,100.00	90.44	359.20	5,282.30	10,375.81	962.91	10,361.35	0.00	0.00	0.00
16,200.00	90.44	359.20	5,281.52	10,475.80	961.52	10,461.35	0.00	0.00	0.00
16,300.00	90.44	359.20	5,280.75	10,575.78	960.12	10,561.35	0.00	0.00	0.00
16,396.25	90.44	359.20	5,280.00	10,672.02	958.78	10,657.59	0.00	0.00	0.00
TD at 16396.25 MD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	796,735.06	926,137.73	33.184	-103.076
KOP Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	4,538.01	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072
PBHL Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	5,280.00	10,672.02	958.78	807,407.06	927,096.51	33.213	-103.072
FTP Gustavo Fee 5H - plan misses target center by 0.02ft at 6075.57ft MD (5360.00 TVD, 352.65 N, 1102.53 E) - Point	0.00	0.00	5,360.00	352.65	1,102.55	797,087.71	927,240.28	33.185	-103.072

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 1.70 at 300 MD	
1,871.98	1,815.60	-150.45	327.05	Start 1127.22 hold at 1871.98 MD	
2,999.19	2,822.41	-362.30	787.56	Start Drop -1.70 at 2999.19 MD	
4,571.17	4,338.01	-512.75	1,114.61	Start 200.00 hold at 4571.17 MD	
4,771.17	4,538.01	-512.75	1,114.61	Start Build 8.00 at 4771.17 MD	
5,521.17	5,158.26	-154.68	1,109.61	Start 250.00 hold at 5521.17 MD	
5,771.17	5,283.26	61.80	1,106.59	Start DLS 10.00 TFO 0.00 at 5771.17 MD	
6,075.61	5,360.00	352.69	1,102.53	Start 10320.64 hold at 6075.61 MD	
16,396.25	5,280.00	10,672.02	958.78	TD at 16396.25 MD	

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Gustavo Fee 5H

Gustavo Fee 5H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

05 April, 2021

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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	Gustavo Fee 5H				
Site Position:		Northing:	796,735.06 usft	Latitude:	33.184
From:	Map	Easting:	926,137.73 usft	Longitude:	-103.076
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in		

Well	Gustavo Fee 5H						
Well Position	+N/-S	0.00 ft	Northing:	796,735.06	usft	Latitude:	33.184
	+E/-W	0.00 ft	Easting:	926,137.73	usft	Longitude:	-103.076
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	3,801.00 ft
Grid Convergence:		0.69 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/16/2021	6.41	60.85	48,161.58428392

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.20

Plan Survey Tool Program	Date	4/5/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,396.25 Plan #1 (Wellbore #1)	MWD	
			MWD - Standard	

Planning Report - Geographic

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Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
1,871.98	26.72	114.70	1,815.60	-150.45	327.05	1.70	1.70	0.00	114.70	
2,999.19	26.72	114.70	2,822.41	-362.30	787.56	0.00	0.00	0.00	0.00	
4,571.17	0.00	0.00	4,338.01	-512.75	1,114.61	1.70	-1.70	0.00	180.00	
4,771.17	0.00	0.00	4,538.01	-512.75	1,114.61	0.00	0.00	0.00	0.00	
5,521.17	60.00	359.20	5,158.26	-154.68	1,109.61	8.00	8.00	0.00	359.20	
5,771.17	60.00	359.20	5,283.26	61.80	1,106.59	0.00	0.00	0.00	0.00	
6,075.61	90.44	359.20	5,360.00	352.69	1,102.53	10.00	10.00	0.00	0.00	
16,396.25	90.44	359.20	5,280.00	10,672.02	958.78	0.00	0.00	0.00	0.00	PBHL Gustavo Fee 5H

Planning Report - Geographic

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Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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	796,735.06	926,137.73	33.184	-103.076
100.00	0.00	0.00	100.00	0.00	0.00	796,735.06	926,137.73	33.184	-103.076
200.00	0.00	0.00	200.00	0.00	0.00	796,735.06	926,137.73	33.184	-103.076
300.00	0.00	0.00	300.00	0.00	0.00	796,735.06	926,137.73	33.184	-103.076
Start Build 1.70 at 300 MD									
400.00	1.70	114.70	399.99	-0.62	1.35	796,734.44	926,139.08	33.184	-103.076
500.00	3.40	114.70	499.88	-2.48	5.39	796,732.58	926,143.12	33.184	-103.076
600.00	5.10	114.70	599.60	-5.58	12.12	796,729.48	926,149.85	33.184	-103.076
700.00	6.80	114.70	699.06	-9.91	21.54	796,725.15	926,159.27	33.184	-103.076
800.00	8.50	114.70	798.17	-15.47	33.63	796,719.59	926,171.36	33.184	-103.075
900.00	10.20	114.70	896.84	-22.26	48.39	796,712.80	926,186.12	33.184	-103.075
1,000.00	11.90	114.70	994.98	-30.27	65.80	796,704.79	926,203.53	33.184	-103.075
1,100.00	13.60	114.70	1,092.51	-39.49	85.85	796,695.56	926,223.58	33.184	-103.075
1,200.00	15.30	114.70	1,189.34	-49.92	108.52	796,685.14	926,246.25	33.184	-103.075
1,300.00	17.00	114.70	1,285.39	-61.55	133.79	796,673.51	926,271.52	33.184	-103.075
1,400.00	18.70	114.70	1,380.57	-74.36	161.64	796,660.70	926,299.37	33.184	-103.075
1,500.00	20.40	114.70	1,474.81	-88.34	192.04	796,646.72	926,329.77	33.184	-103.075
1,600.00	22.10	114.70	1,568.00	-103.49	224.96	796,631.57	926,362.69	33.184	-103.075
1,700.00	23.80	114.70	1,660.08	-119.78	260.38	796,615.28	926,398.11	33.184	-103.075
1,800.00	25.50	114.70	1,750.97	-137.21	298.27	796,597.85	926,436.00	33.183	-103.075
1,871.98	26.72	114.70	1,815.60	-150.45	327.05	796,584.61	926,464.78	33.183	-103.075
Start 1127.22 hold at 1871.98 MD									
1,900.00	26.72	114.70	1,840.63	-155.72	338.50	796,579.34	926,476.23	33.183	-103.075
2,000.00	26.72	114.70	1,929.95	-174.51	379.35	796,560.55	926,517.08	33.183	-103.074
2,100.00	26.72	114.70	2,019.27	-193.31	420.21	796,541.75	926,557.94	33.183	-103.074
2,200.00	26.72	114.70	2,108.58	-212.10	461.06	796,522.96	926,598.79	33.183	-103.074
2,300.00	26.72	114.70	2,197.90	-230.89	501.91	796,504.17	926,639.64	33.183	-103.074
2,400.00	26.72	114.70	2,287.22	-249.69	542.77	796,485.37	926,680.50	33.183	-103.074
2,500.00	26.72	114.70	2,376.54	-268.48	583.62	796,466.58	926,721.35	33.183	-103.074
2,600.00	26.72	114.70	2,465.86	-287.27	624.47	796,447.79	926,762.20	33.183	-103.074
2,700.00	26.72	114.70	2,555.18	-306.07	665.33	796,428.99	926,803.06	33.183	-103.073
2,800.00	26.72	114.70	2,644.50	-324.86	706.18	796,410.20	926,843.91	33.183	-103.073
2,900.00	26.72	114.70	2,733.81	-343.65	747.03	796,391.41	926,884.76	33.183	-103.073
2,999.19	26.72	114.70	2,822.41	-362.30	787.56	796,372.76	926,925.29	33.183	-103.073
Start Drop -1.70 at 2999.19 MD									
3,000.00	26.71	114.70	2,823.13	-362.45	787.89	796,372.61	926,925.62	33.183	-103.073
3,100.00	25.01	114.70	2,913.12	-380.67	827.51	796,354.38	926,965.24	33.183	-103.073
3,200.00	23.31	114.70	3,004.35	-397.78	864.69	796,337.28	927,002.42	33.183	-103.073
3,300.00	21.61	114.70	3,096.76	-413.74	899.40	796,321.31	927,037.13	33.183	-103.073
3,400.00	19.91	114.70	3,190.27	-428.56	931.60	796,306.50	927,069.33	33.183	-103.073
3,500.00	18.21	114.70	3,284.78	-442.20	961.26	796,292.85	927,098.99	33.183	-103.072
3,600.00	16.51	114.70	3,380.22	-454.67	988.37	796,280.38	927,126.10	33.183	-103.072
3,700.00	14.81	114.70	3,476.51	-465.95	1,012.89	796,269.10	927,150.62	33.183	-103.072
3,800.00	13.11	114.70	3,573.55	-476.04	1,034.81	796,259.02	927,172.54	33.182	-103.072
3,900.00	11.41	114.70	3,671.27	-484.91	1,054.10	796,250.15	927,191.83	33.182	-103.072
4,000.00	9.71	114.70	3,769.57	-492.57	1,070.75	796,242.49	927,208.47	33.182	-103.072
4,100.00	8.01	114.70	3,868.37	-499.01	1,084.74	796,236.05	927,222.47	33.182	-103.072
4,200.00	6.31	114.70	3,967.59	-504.21	1,096.06	796,230.84	927,233.79	33.182	-103.072
4,300.00	4.61	114.70	4,067.13	-508.19	1,104.70	796,226.87	927,242.43	33.182	-103.072
4,400.00	2.91	114.70	4,166.91	-510.93	1,110.66	796,224.13	927,248.39	33.182	-103.072
4,500.00	1.21	114.70	4,266.85	-512.43	1,113.93	796,222.63	927,251.65	33.182	-103.072
4,571.17	0.00	0.00	4,338.01	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072
Start 200.00 hold at 4571.17 MD									
4,600.00	0.00	0.00	4,366.84	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072

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Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,700.00	0.00	0.00	4,466.84	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072
4,771.17	0.00	0.00	4,538.01	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072
Start Build 8.00 at 4771.17 MD									
4,800.00	2.31	359.20	4,566.83	-512.17	1,114.60	796,222.89	927,252.33	33.182	-103.072
4,900.00	10.31	359.20	4,666.15	-501.19	1,114.45	796,233.87	927,252.18	33.182	-103.072
5,000.00	18.31	359.20	4,762.97	-476.50	1,114.10	796,258.55	927,251.83	33.182	-103.072
5,100.00	26.31	359.20	4,855.41	-438.58	1,113.57	796,296.48	927,251.30	33.183	-103.072
5,200.00	34.31	359.20	4,941.67	-388.17	1,112.87	796,346.89	927,250.60	33.183	-103.072
5,300.00	42.31	359.20	5,020.08	-326.24	1,112.00	796,408.82	927,249.73	33.183	-103.072
5,400.00	50.31	359.20	5,089.10	-254.00	1,111.00	796,481.06	927,248.72	33.183	-103.072
5,500.00	58.31	359.20	5,147.40	-172.86	1,109.86	796,562.20	927,247.59	33.183	-103.072
5,521.17	60.00	359.20	5,158.26	-154.68	1,109.61	796,580.37	927,247.34	33.183	-103.072
Start 250.00 hold at 5521.17 MD									
5,600.00	60.00	359.20	5,197.67	-86.42	1,108.66	796,648.64	927,246.38	33.184	-103.072
5,700.00	60.00	359.20	5,247.67	0.17	1,107.45	796,735.23	927,245.18	33.184	-103.072
5,771.17	60.00	359.20	5,283.26	61.80	1,106.59	796,796.86	927,244.31	33.184	-103.072
Start DLS 10.00 TFO 0.00 at 5771.17 MD									
5,800.00	62.88	359.20	5,297.04	87.12	1,106.23	796,822.18	927,243.96	33.184	-103.072
5,900.00	72.88	359.20	5,334.64	179.63	1,104.94	796,914.69	927,242.67	33.184	-103.072
6,000.00	82.88	359.20	5,355.60	277.27	1,103.58	797,012.33	927,241.31	33.185	-103.072
6,075.61	90.44	359.20	5,360.00	352.69	1,102.53	797,087.75	927,240.26	33.185	-103.072
Start 10320.64 hold at 6075.61 MD									
6,100.00	90.44	359.20	5,359.81	377.08	1,102.19	797,112.14	927,239.92	33.185	-103.072
6,200.00	90.44	359.20	5,359.04	477.07	1,100.80	797,212.12	927,238.53	33.185	-103.072
6,300.00	90.44	359.20	5,358.26	577.05	1,099.40	797,312.11	927,237.13	33.185	-103.072
6,400.00	90.44	359.20	5,357.49	677.04	1,098.01	797,412.10	927,235.74	33.186	-103.072
6,500.00	90.44	359.20	5,356.71	777.03	1,096.62	797,512.09	927,234.35	33.186	-103.072
6,600.00	90.44	359.20	5,355.93	877.02	1,095.23	797,612.07	927,232.95	33.186	-103.072
6,700.00	90.44	359.20	5,355.16	977.00	1,093.83	797,712.06	927,231.56	33.186	-103.072
6,800.00	90.44	359.20	5,354.38	1,076.99	1,092.44	797,812.05	927,230.17	33.187	-103.072
6,900.00	90.44	359.20	5,353.61	1,176.98	1,091.05	797,912.03	927,228.78	33.187	-103.072
7,000.00	90.44	359.20	5,352.83	1,276.97	1,089.65	798,012.02	927,227.38	33.187	-103.072
7,100.00	90.44	359.20	5,352.06	1,376.95	1,088.26	798,112.01	927,225.99	33.188	-103.072
7,200.00	90.44	359.20	5,351.28	1,476.94	1,086.87	798,212.00	927,224.60	33.188	-103.072
7,300.00	90.44	359.20	5,350.51	1,576.93	1,085.48	798,311.98	927,223.20	33.188	-103.072
7,400.00	90.44	359.20	5,349.73	1,676.91	1,084.08	798,411.97	927,221.81	33.188	-103.072
7,500.00	90.44	359.20	5,348.96	1,776.90	1,082.69	798,511.96	927,220.42	33.189	-103.072
7,600.00	90.44	359.20	5,348.18	1,876.89	1,081.30	798,611.94	927,219.03	33.189	-103.072
7,700.00	90.44	359.20	5,347.41	1,976.88	1,079.90	798,711.93	927,217.63	33.189	-103.072
7,800.00	90.44	359.20	5,346.63	2,076.86	1,078.51	798,811.92	927,216.24	33.190	-103.072
7,900.00	90.44	359.20	5,345.86	2,176.85	1,077.12	798,911.90	927,214.85	33.190	-103.072
8,000.00	90.44	359.20	5,345.08	2,276.84	1,075.73	799,011.89	927,213.45	33.190	-103.072
8,100.00	90.44	359.20	5,344.31	2,376.83	1,074.33	799,111.88	927,212.06	33.190	-103.072
8,200.00	90.44	359.20	5,343.53	2,476.81	1,072.94	799,211.87	927,210.67	33.191	-103.072
8,300.00	90.44	359.20	5,342.76	2,576.80	1,071.55	799,311.85	927,209.28	33.191	-103.072
8,400.00	90.44	359.20	5,341.98	2,676.79	1,070.16	799,411.84	927,207.88	33.191	-103.072
8,500.00	90.44	359.20	5,341.21	2,776.77	1,068.76	799,511.83	927,206.49	33.191	-103.072
8,600.00	90.44	359.20	5,340.43	2,876.76	1,067.37	799,611.81	927,205.10	33.192	-103.072
8,700.00	90.44	359.20	5,339.66	2,976.75	1,065.98	799,711.80	927,203.71	33.192	-103.072
8,800.00	90.44	359.20	5,338.88	3,076.74	1,064.58	799,811.79	927,202.31	33.192	-103.072
8,900.00	90.44	359.20	5,338.11	3,176.72	1,063.19	799,911.78	927,200.92	33.193	-103.072
9,000.00	90.44	359.20	5,337.33	3,276.71	1,061.80	800,011.76	927,199.53	33.193	-103.072
9,100.00	90.44	359.20	5,336.56	3,376.70	1,060.41	800,111.75	927,198.13	33.193	-103.072
9,200.00	90.44	359.20	5,335.78	3,476.69	1,059.01	800,211.74	927,196.74	33.193	-103.072

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Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,300.00	90.44	359.20	5,335.01	3,576.67	1,057.62	800,311.72	927,195.35	33.194	-103.072	
9,400.00	90.44	359.20	5,334.23	3,676.66	1,056.23	800,411.71	927,193.96	33.194	-103.072	
9,500.00	90.44	359.20	5,333.46	3,776.65	1,054.83	800,511.70	927,192.56	33.194	-103.072	
9,600.00	90.44	359.20	5,332.68	3,876.64	1,053.44	800,611.69	927,191.17	33.194	-103.072	
9,700.00	90.44	359.20	5,331.91	3,976.62	1,052.05	800,711.67	927,189.78	33.195	-103.072	
9,800.00	90.44	359.20	5,331.13	4,076.61	1,050.66	800,811.66	927,188.38	33.195	-103.072	
9,900.00	90.44	359.20	5,330.36	4,176.60	1,049.26	800,911.65	927,186.99	33.195	-103.072	
10,000.00	90.44	359.20	5,329.58	4,276.58	1,047.87	801,011.63	927,185.60	33.196	-103.072	
10,100.00	90.44	359.20	5,328.80	4,376.57	1,046.48	801,111.62	927,184.21	33.196	-103.072	
10,200.00	90.44	359.20	5,328.03	4,476.56	1,045.08	801,211.61	927,182.81	33.196	-103.072	
10,300.00	90.44	359.20	5,327.25	4,576.55	1,043.69	801,311.60	927,181.42	33.196	-103.072	
10,400.00	90.44	359.20	5,326.48	4,676.53	1,042.30	801,411.58	927,180.03	33.197	-103.072	
10,500.00	90.44	359.20	5,325.70	4,776.52	1,040.91	801,511.57	927,178.63	33.197	-103.072	
10,600.00	90.44	359.20	5,324.93	4,876.51	1,039.51	801,611.56	927,177.24	33.197	-103.072	
10,700.00	90.44	359.20	5,324.15	4,976.50	1,038.12	801,711.54	927,175.85	33.197	-103.072	
10,800.00	90.44	359.20	5,323.38	5,076.48	1,036.73	801,811.53	927,174.46	33.198	-103.072	
10,900.00	90.44	359.20	5,322.60	5,176.47	1,035.33	801,911.52	927,173.06	33.198	-103.072	
11,000.00	90.44	359.20	5,321.83	5,276.46	1,033.94	802,011.50	927,171.67	33.198	-103.072	
11,100.00	90.44	359.20	5,321.05	5,376.44	1,032.55	802,111.49	927,170.28	33.199	-103.072	
11,200.00	90.44	359.20	5,320.28	5,476.43	1,031.16	802,211.48	927,168.88	33.199	-103.072	
11,300.00	90.44	359.20	5,319.50	5,576.42	1,029.76	802,311.47	927,167.49	33.199	-103.072	
11,400.00	90.44	359.20	5,318.73	5,676.41	1,028.37	802,411.45	927,166.10	33.199	-103.072	
11,500.00	90.44	359.20	5,317.95	5,776.39	1,026.98	802,511.44	927,164.71	33.200	-103.072	
11,600.00	90.44	359.20	5,317.18	5,876.38	1,025.58	802,611.43	927,163.31	33.200	-103.072	
11,700.00	90.44	359.20	5,316.40	5,976.37	1,024.19	802,711.41	927,161.92	33.200	-103.072	
11,800.00	90.44	359.20	5,315.63	6,076.36	1,022.80	802,811.40	927,160.53	33.201	-103.072	
11,900.00	90.44	359.20	5,314.85	6,176.34	1,021.41	802,911.39	927,159.14	33.201	-103.072	
12,000.00	90.44	359.20	5,314.08	6,276.33	1,020.01	803,011.38	927,157.74	33.201	-103.072	
12,100.00	90.44	359.20	5,313.30	6,376.32	1,018.62	803,111.36	927,156.35	33.201	-103.072	
12,200.00	90.44	359.20	5,312.53	6,476.30	1,017.23	803,211.35	927,154.96	33.202	-103.072	
12,300.00	90.44	359.20	5,311.75	6,576.29	1,015.84	803,311.34	927,153.56	33.202	-103.072	
12,400.00	90.44	359.20	5,310.98	6,676.28	1,014.44	803,411.32	927,152.17	33.202	-103.072	
12,500.00	90.44	359.20	5,310.20	6,776.27	1,013.05	803,511.31	927,150.78	33.202	-103.072	
12,600.00	90.44	359.20	5,309.43	6,876.25	1,011.66	803,611.30	927,149.39	33.203	-103.072	
12,700.00	90.44	359.20	5,308.65	6,976.24	1,010.26	803,711.29	927,147.99	33.203	-103.072	
12,800.00	90.44	359.20	5,307.88	7,076.23	1,008.87	803,811.27	927,146.60	33.203	-103.072	
12,900.00	90.44	359.20	5,307.10	7,176.22	1,007.48	803,911.26	927,145.21	33.204	-103.072	
13,000.00	90.44	359.20	5,306.33	7,276.20	1,006.09	804,011.25	927,143.81	33.204	-103.072	
13,100.00	90.44	359.20	5,305.55	7,376.19	1,004.69	804,111.23	927,142.42	33.204	-103.072	
13,200.00	90.44	359.20	5,304.78	7,476.18	1,003.30	804,211.22	927,141.03	33.204	-103.072	
13,300.00	90.44	359.20	5,304.00	7,576.17	1,001.91	804,311.21	927,139.64	33.205	-103.072	
13,400.00	90.44	359.20	5,303.23	7,676.15	1,000.51	804,411.20	927,138.24	33.205	-103.072	
13,500.00	90.44	359.20	5,302.45	7,776.14	999.12	804,511.18	927,136.85	33.205	-103.072	
13,600.00	90.44	359.20	5,301.68	7,876.13	997.73	804,611.17	927,135.46	33.205	-103.072	
13,700.00	90.44	359.20	5,300.90	7,976.11	996.34	804,711.16	927,134.06	33.206	-103.072	
13,800.00	90.44	359.20	5,300.12	8,076.10	994.94	804,811.14	927,132.67	33.206	-103.072	
13,900.00	90.44	359.20	5,299.35	8,176.09	993.55	804,911.13	927,131.28	33.206	-103.072	
14,000.00	90.44	359.20	5,298.57	8,276.08	992.16	805,011.12	927,129.89	33.207	-103.072	
14,100.00	90.44	359.20	5,297.80	8,376.06	990.76	805,111.10	927,128.49	33.207	-103.072	
14,200.00	90.44	359.20	5,297.02	8,476.05	989.37	805,211.09	927,127.10	33.207	-103.072	
14,300.00	90.44	359.20	5,296.25	8,576.04	987.98	805,311.08	927,125.71	33.207	-103.072	
14,400.00	90.44	359.20	5,295.47	8,676.03	986.59	805,411.07	927,124.31	33.208	-103.072	
14,500.00	90.44	359.20	5,294.70	8,776.01	985.19	805,511.05	927,122.92	33.208	-103.072	
14,600.00	90.44	359.20	5,293.92	8,876.00	983.80	805,611.04	927,121.53	33.208	-103.072	
14,700.00	90.44	359.20	5,293.15	8,975.99	982.41	805,711.03	927,120.14	33.208	-103.072	

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Gustavo Fee 5H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + RKB 17' @ 3818.00ft
Site:	Gustavo Fee 5H	North Reference:	Grid
Well:	Gustavo Fee 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
14,800.00	90.44	359.20	5,292.37	9,075.97	981.01	805,811.01	927,118.74	33.209	-103.072	
14,900.00	90.44	359.20	5,291.60	9,175.96	979.62	805,911.00	927,117.35	33.209	-103.072	
15,000.00	90.44	359.20	5,290.82	9,275.95	978.23	806,010.99	927,115.96	33.209	-103.072	
15,100.00	90.44	359.20	5,290.05	9,375.94	976.84	806,110.98	927,114.57	33.210	-103.072	
15,200.00	90.44	359.20	5,289.27	9,475.92	975.44	806,210.96	927,113.17	33.210	-103.072	
15,300.00	90.44	359.20	5,288.50	9,575.91	974.05	806,310.95	927,111.78	33.210	-103.072	
15,400.00	90.44	359.20	5,287.72	9,675.90	972.66	806,410.94	927,110.39	33.210	-103.072	
15,500.00	90.44	359.20	5,286.95	9,775.89	971.27	806,510.92	927,108.99	33.211	-103.072	
15,600.00	90.44	359.20	5,286.17	9,875.87	969.87	806,610.91	927,107.60	33.211	-103.072	
15,700.00	90.44	359.20	5,285.40	9,975.86	968.48	806,710.90	927,106.21	33.211	-103.072	
15,800.00	90.44	359.20	5,284.62	10,075.85	967.09	806,810.89	927,104.82	33.211	-103.072	
15,900.00	90.44	359.20	5,283.85	10,175.83	965.69	806,910.87	927,103.42	33.212	-103.072	
16,000.00	90.44	359.20	5,283.07	10,275.82	964.30	807,010.86	927,102.03	33.212	-103.072	
16,100.00	90.44	359.20	5,282.30	10,375.81	962.91	807,110.85	927,100.64	33.212	-103.072	
16,200.00	90.44	359.20	5,281.52	10,475.80	961.52	807,210.83	927,099.24	33.213	-103.072	
16,300.00	90.44	359.20	5,280.75	10,575.78	960.12	807,310.82	927,097.85	33.213	-103.072	
16,396.25	90.44	359.20	5,280.00	10,672.02	958.78	807,407.06	927,096.51	33.213	-103.072	
TD at 16396.25 MD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	796,735.06	926,137.73	33.184	-103.076	
KOP Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	4,538.01	-512.75	1,114.61	796,222.31	927,252.34	33.182	-103.072	
PBHL Gustavo Fee 5H - plan hits target center - Point	0.00	0.00	5,280.00	10,672.02	958.78	807,407.06	927,096.51	33.213	-103.072	
FTP Gustavo Fee 5H - plan misses target center by 0.02ft at 6075.57ft MD (5360.00 TVD, 352.65 N, 1102.53 E) - Point	0.00	0.00	5,360.00	352.65	1,102.55	797,087.71	927,240.28	33.185	-103.072	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 1.70 at 300 MD	
1,871.98	1,815.60	-150.45	327.05	Start 1127.22 hold at 1871.98 MD	
2,999.19	2,822.41	-362.30	787.56	Start Drop -1.70 at 2999.19 MD	
4,571.17	4,338.01	-512.75	1,114.61	Start 200.00 hold at 4571.17 MD	
4,771.17	4,538.01	-512.75	1,114.61	Start Build 8.00 at 4771.17 MD	
5,521.17	5,158.26	-154.68	1,109.61	Start 250.00 hold at 5521.17 MD	
5,771.17	5,283.26	61.80	1,106.59	Start DLS 10.00 TFO 0.00 at 5771.17 MD	
6,075.61	5,360.00	352.69	1,102.53	Start 10320.64 hold at 6075.61 MD	
16,396.25	5,280.00	10,672.02	958.78	TD at 16396.25 MD	