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

Date:

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

Page 1 of 32

Form C-101 August 1, 2011 Permit 360648

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

	me and Address EWARD ENERGY I										2. C	GRID Numl 371			
	Throckmorton	, 220									3. A	PI Number	002		
-	t Worth, TX 76102										0.71		25-52814		
4. Property Coo	de		5. Prope	rty Name							6. V	Vell No.			
317	7585			POLLOS H	HERMAI	NOS STATE CON	1					001	H		
						7. Surfa	ce Location								
UL - Lot	Section	Township		Range		Lot Idn	Feet From		N/S Line	Feet	From	E/W	Line	County	
А	15	14	4S	38	8E	А	49	4	N		372		E		Lea
						8. Proposed Bo	ottom Hole Lo	cation							
UL - Lot	Section	Township	R	ange			eet From		N/S Line	Feet F	rom	E/W I	ine	County	
1	3	14S		38E		1	2540		S		434		E		Lea
						9. Pool	Information								
BRONCO;SA	N ANDRES, SOUT	Ή											7500		
						Additional	Nell Informati	on							
11. Work Type		12. Well Typ			13. Cab	le/Rotary		14. Le	ease Type		15. Grou	nd Level Ele	evation		
	w Well	-	IL						Private			3769			
16. Multiple		17. Propose			18. Forr			19. C	ontractor		20. Spud		-		
N Depth to Groun	ad water	1	3572		Distance	San Andres	water well				Distance	1/16/202	5 Jrface water		
Depth to Groun	iu water				Distance	e nom nearest nesi	i water well				Distance	to nearest s	inace water		
🛛 We will be u	using a closed-loo	p system in li	eu of line	ed pits											
					21.	Proposed Casir	ng and Cemer	nt Proc	aram						
Туре	Hole Size	Casin	g Size			Weight/ft		ng Dep		Sac	ks of Cemer	nt		Estimated 1	-OC
Surf	12.25	9.6	625			36		2285			830			0	
Prod	8.5					29		5530			360			0	
Prod	8.5	5	.5			20	1	3572			2280			0	
					Casin	g/Cement Progr	am: Additiona	al Com	nments						
Tapered Proc	duction Casing														
					22.	Proposed Blow	out Preventio	n Proc	oram						
	Туре					Pressure			Test Pre	essure			Manu	facturer	
	Annular				30	00			150	00			SCH	AFER	
	Double Ram				30	00			150	0			SCH	AFER	
23. I hereby c	certify that the inform	mation given a	bove is t	rue and con	nplete to	the best of my				OIL CONS	BERVATIO	N DIVISIO	N		
knowledge a							_								
I further cert	ify I have complied	d with 19.15.1	4.9 (A) N	MAC 🛛 and	d/or 19.	15.14.9 (B) NMA	С								
A, ir applicat	bie.														
Signature:															
Printed Name:	Electronical	ly filed by Rya	n Delong	9			Approved B	y:	Paul F Ka	autz					
Title:							Title:		Geologis	t					
Email Address:	rdelong@ti	tusoil.com					Approved D	ate:	4/19/202	4		Expiration	Date: 4/19	/2026	

Conditions of Approval Attached

4/9/2024

Phone: 817-852-6370

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 ie: (575 8-1283 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

Received by OCD: 4/9/2024 12:07:00 PM State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

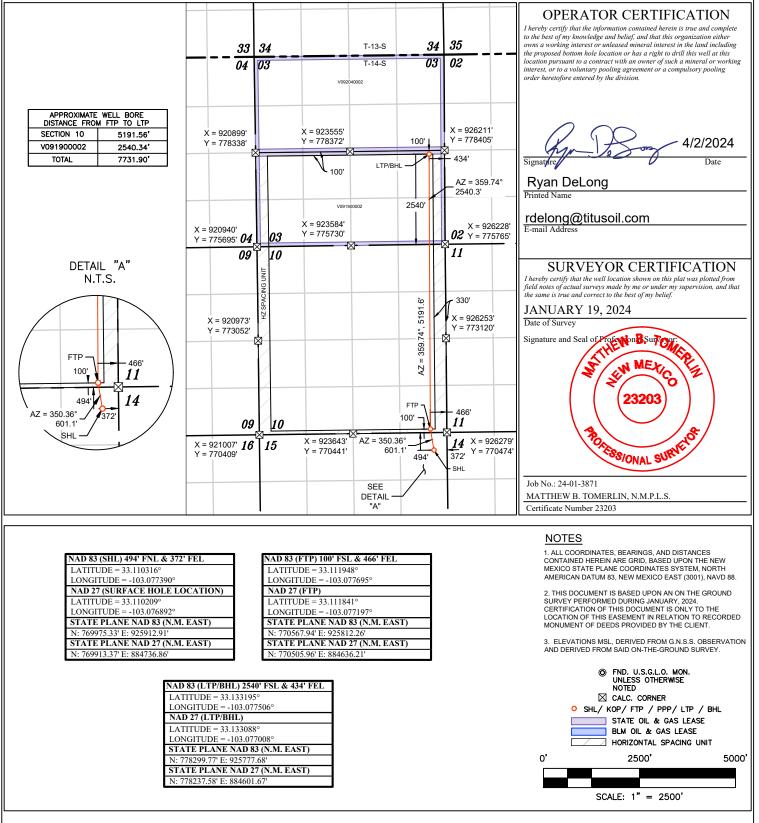
Page 2 of 32 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AP	I Number		I	Pool Code			Pool Name		
			750	00		Br	onco; San Andro	es, South	
Property C	ode		•		Property Name			Well Nu	mber
317585				POLLOS	HERMANOS ST	TATE COM		#1	4
OGRID N	0.				Operator Name			Eleva	tion
371682				STEV	VARD ENERGY	II, LLC		376	9'
L					Surface Location	on			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
А	15	14 S	38 E		494	NORTH	372	EAST	LEA
		1	Bott	om Hole	Location If Dif	fferent From Surfa	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	03	14 S	38 E		2540	SOUTH	434	EAST	LEA
Dedicated Acres 960.00	Joint or	Infill	Consolidation Cod	le Or	der No.		1	L	

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.



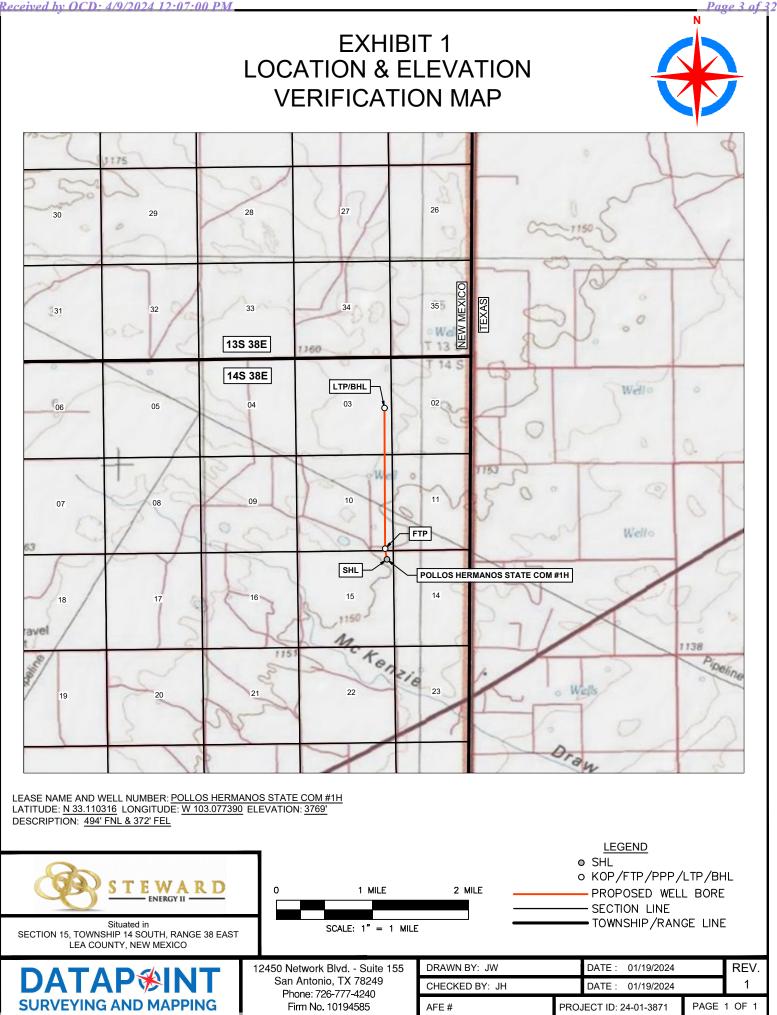
Received by OCD: 4/9/2024 12:07:00 PM

2./2024/SERWED ERECUC/4-0-2811 - DOTTOR HEAVINOR SIVIE CON 14/FULZ/ED DACKEL/DOTTOR HEAVINOR SIVIE CON BIH/-TOCULION TRE/2024018/-I-MR-SERWED-TOCULION ETENTION RVD-DOTTOR HEAVINOR SIVIE CON BIT.

FILENAME:

¥

PLOT DATE: 1/18/2024 9:12:31



Released to Imaging: 4/19/2024 10:17:46 AM

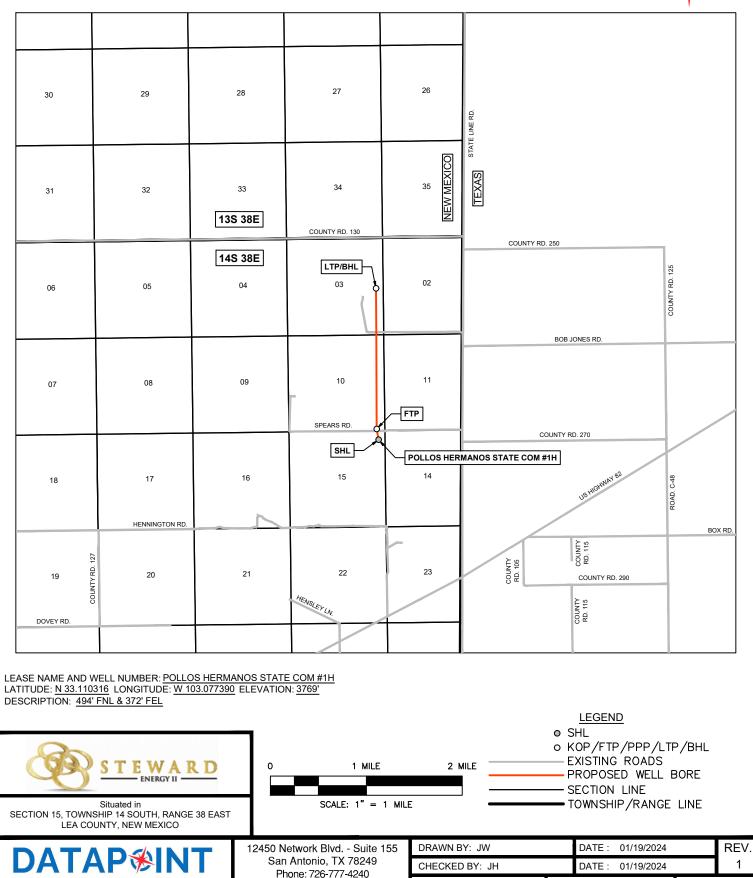
SURVEYING AND MAPPING

EXHIBIT 2 VICINITY MAP



PAGE 1 OF 1

PROJECT ID: 24-01-3871



Firm No. 10194585

AFE #

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

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

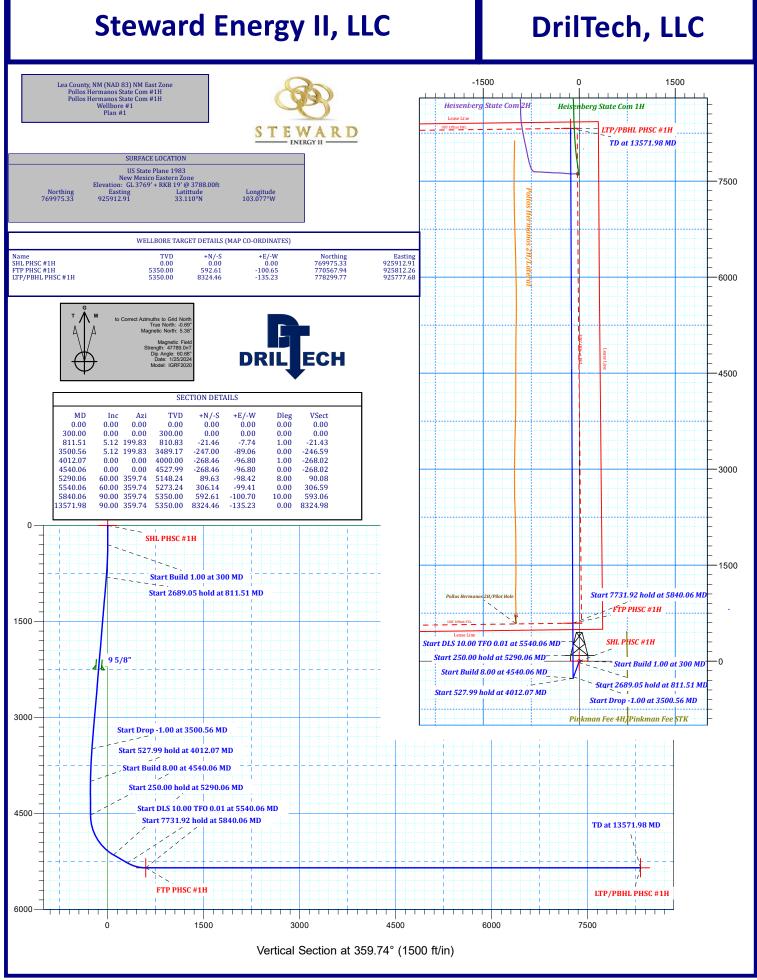
PERMIT CONDITIONS OF APPROVAL

Operator	Name and Address:	API Number:
	STEWARD ENERGY II, LLC [371682]	30-025-52814
	420 Throckmorton	Well:
	Fort Worth, TX 76102	POLLOS HERMANOS STATE COM #001H
OCD	Condition	
Reviewer		
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 water zone or zones and shall immediately set in cement the water protection string	e surface, the operator shall drill without interruption through the fresh
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation f drilling fluids and solids must be contained in a steel closed loop system	rom the oil or diesel. This includes synthetic oils. Oil based mud,
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	

Form APD Conditions

Permit 360648

Received by OCD: 4/9/2024 12:07:00 PM



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Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone Pollos Hermanos State Com #1H Pollos Hermanos State Com #1H

Wellbore #1

Plan: Plan #1

Standard Planning Report

25 January, 2024

Database: Company: Project: Site: Well: Wellbore: Design:	Pollos Herm			TVD Reference MD Reference North Referen	:	GL 3769' ·	+ RKB 19' @ + RKB 19' @		
Project	Lea County, I	NM (NAD 83) N	NM East Zone						
Map System: Geo Datum: Map Zone:	US State Plane North Americar New Mexico Ea	n Datum 1983		System Datum		Mean Sea L	evel		
Site	Pollos Herma	anos State Con	n #1H						
Site Position: From: Position Uncertainty:	Мар	0.00 ft	Northing: Easting: Slot Radius:	769,975. 925,912. 13.2					33.110°N 103.077°W
Well	Pollos Herma	nos State Com	n #1H						
Well Position	+N/-S +E/-W	0.00 ft 0.00 ft	Northing: Easting:		69,975.33 usft 25,912.91 usft	Latitude: Longitude:			33.110°N 103.077°W
Position Uncertainty Grid Convergence:		0.00 ft 0.69 °	Wellhead Ele	vation:	ft	Ground Leve	1:		3,769.00 ft
Wellbore	Wellbore #1								
Magnetics	Model Na	ame	Sample Date	Declination (°)		Dip Angle (°)		Field Strength (nT)	I
	IG	RF2020	1/25/2024		6.07	60	.68	47,788.9749	94846
Design	Plan #1								
Audit Notes:									
Version:			Phase:	PLAN	Tie On De	epth:	0.00		
Vertical Section:			From (TVD) (ft) 0.00	+N/-S (ft) 0.00	+E/-W (ft) 0.00		Direction (°) 359.74		
			0.00	0.00	0.00		555.74		
Plan Survey Tool Pro Depth From	Depth To		5/2024		_				
		Date 1/25 Survey (Well Plan #1 (Well	bore)	Tool Name MWD	Ren	narks			

.

Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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	
811.51	5.12	199.83	810.83	-21.46	-7.74	1.00	1.00	0.00	199.83	
3,500.56	5.12	199.83	3,489.17	-247.00	-89.06	0.00	0.00	0.00	0.00	
4,012.07	0.00	0.00	4,000.00	-268.46	-96.80	1.00	-1.00	0.00	180.00	
4,540.06	0.00	0.00	4,527.99	-268.46	-96.80	0.00	0.00	0.00	0.00	
5,290.06	60.00	359.74	5,148.24	89.63	-98.42	8.00	8.00	0.00	359.74	
5,540.06	60.00	359.74	5,273.24	306.14	-99.41	0.00	0.00	0.00	0.00	
5,840.06	90.00	359.74	5,350.00	592.61	-100.70	10.00	10.00	0.00	0.01	
13,571.98	90.00	359.74	5,350.00	8,324.46	-135.23	0.00	0.00	0.00	0.00 LT	P/PBHL PHSC #

Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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
	1.00 at 300 MD	100.00				0.00	4.00	4.00	
400.00	1.00	199.83	399.99	-0.82	-0.30	-0.82	1.00	1.00	0.00
500.00	2.00	199.83	499.96	-3.28	-1.18	-3.28	1.00	1.00	0.00
600.00	3.00	199.83	599.86	-7.39	-2.66	-7.37	1.00	1.00	0.00
700.00	4.00	199.83	699.68	-13.13	-4.73	-13.11	1.00	1.00	0.00
800.00	5.00	199.83	799.37	-20.51	-7.40	-20.48	1.00	1.00	0.00
811.51	5.12	199.83	810.83	-21.46	-7.74	-21.43	1.00	1.00	0.00
	5 hold at 811.51								
			000.07	00.00	10.10	00.04	0.00	0.00	0.00
900.00	5.12	199.83	898.97	-28.89	-10.42	-28.84	0.00	0.00	0.00
1,000.00	5.12	199.83	998.57	-37.27	-13.44	-37.21	0.00	0.00	0.00
1,100.00	5.12	199.83	1,098.17	-45.66	-16.46	-45.59	0.00	0.00	0.00
1,200.00	5.12	199.83	1,197.77	-54.05	-19.49	-53.96	0.00	0.00	0.00
1,300.00	5.12	199.83	1,297.38	-62.43	-22.51	-62.33	0.00	0.00	0.00
1,400.00	5.12	199.83	1,396.98	-70.82	-25.54	-70.71	0.00	0.00	0.00
1,500.00	5.12	199.83	1,496.58	-79.21	-28.56	-79.08	0.00	0.00	0.00
1,600.00	5.12	199.83	1,596.18	-87.60	-31.58	-87.45	0.00	0.00	0.00
1,700.00	5.12	199.83	1,695.78	-95.98	-34.61	-95.83	0.00	0.00	0.00
1,800.00	5.12	199.83	1,795.38	-104.37	-37.63	-104.20	0.00	0.00	0.00
1,900.00	5.12	199.83	1,894.99	-112.76	-40.66	-112.57	0.00	0.00	0.00
2,000.00	5.12	199.83	1,994.59	-121.14	-43.68	-120.94	0.00	0.00	0.00
2,100.00	5.12	199.83	2,094.19	-129.53	-46.71	-129.32	0.00	0.00	0.00
2,200.00	5.12	199.83	2,193.79	-137.92	-49.73	-137.69	0.00	0.00	0.00
2,256.43	5.12	199.83	2,250.00	-142.65	-51.44	-142.42	0.00	0.00	0.00
9 5/8"									
2,300.00	5.12	199.83	2,293.39	-146.31	-52.75	-146.06	0.00	0.00	0.00
2,400.00	5.12	199.83	2,392.99	-154.69	-55.78	-154.44	0.00	0.00	0.00
2,500.00	5.12	199.83	2,492.60	-163.08	-58.80	-162.81	0.00	0.00	0.00
2,600.00	5.12	199.83	2,592.20	-171.47	-61.83	-171.18	0.00	0.00	0.00
2,000.00	5.12	199.83	2,691.80	-179.85	-64.85	-179.56	0.00	0.00	0.00
2,700.00		199.00	2,091.00	-179.00	-04.05	-179.00			
2,800.00	5.12	199.83	2,791.40	-188.24	-67.87	-187.93	0.00	0.00	0.00
2,900.00	5.12	199.83	2,891.00	-196.63	-70.90	-196.30	0.00	0.00	0.00
3,000.00	5.12	199.83	2,990.61	-205.02	-73.92	-204.68	0.00	0.00	0.00
3,100.00	5.12	199.83	3,090.21	-213.40	-76.95	-213.05	0.00	0.00	0.00
3,200.00	5.12	199.83	3,189.81	-221.79	-79.97	-221.42	0.00	0.00	0.00
3,300.00	5.12	199.83	3,289.41	-230.18	-82.99	-229.80	0.00	0.00	0.00
3,400.00	5.12	199.83	3,389.01	-238.56	-86.02	-238.17	0.00	0.00	0.00
3,500.00	5.12	199.83	3,488.61	-246.95	-89.04	-246.54	0.00	0.00	0.00
3,500.56	5.12	199.83	3,489.17	-247.00	-89.06	-246.59	0.00	0.00	0.00
	1.00 at 3500.56 N		0,100.17	211.00	00.00	2 10.00	0.00	0.00	0.00
3,600.00	4.12	199.83	3,588.29	-254.53	-91.78	-254.11	1.00	-1.00	0.00
3,700.00	3.12	199.83	3,688.09	-260.47	-93.92	-260.04	1.00	-1.00	0.00
3,800.00	2.12	199.83	3,787.98	-264.77	-95.47	-264.33	1.00	-1.00	0.00
3,900.00	1.12	199.83	3,887.94	-267.43	-96.43	-266.99	1.00	-1.00	0.00
4,000.00	0.12	199.83	3,987.93	-268.45	-96.79	-268.01	1.00	-1.00	0.00
4,012.07	0.00	0.00	4,000.00	-268.46	-96.80	-268.02	1.00	-1.00	0.00
Start 527.99	hold at 4012.07	MD							
4,100.00	0.00	0.00	4,087.93	-268.46	-96.80	-268.02	0.00	0.00	0.00
4,200.00	0.00	0.00	4,187.93	-268.46	-96.80	-268.02	0.00	0.00	0.00
4,300.00	0.00	0.00	4,287.93	-268.46	-96.80	-268.02	0.00	0.00	0.00
4,400.00	0.00	0.00	4,387.93	-268.46	-96.80	-268.02	0.00	0.00	0.00

1/25/2024 8:31:55AM

COMPASS 5000.17 Build 101

Database: Company:	edmdb Steward Energy II, LLC	Local Co-ordinate Reference: TVD Reference:	Well Pollos Hermanos State Com #1H GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site: Well:	Pollos Hermanos State Com #1H Pollos Hermanos State Com #1H	North Reference: Survey Calculation Method:	Grid 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)
4,500.00	0.00	0.00	4,487.93	-268.46	-96.80	-268.02	0.00	0.00	0.00
4,540.06	0.00	0.00	4,527.99	-268.46	-96.80	-268.02	0.00	0.00	0.00
Start Build 8	.00 at 4540.06 M	ID							
4,600.00	4.80	359.74	4,587.86	-265.95	-96.81	-265.51	8.00	8.00	0.00
4,700.00	12.80	359.74	4,686.61	-250.68	-96.88	-250.23	8.00	8.00	0.00
4,800.00	20.80	359.74	4,782.26	-221.81	-97.01	-221.36	8.00	8.00	0.00
4,900.00	28.80	359.74	4,872.97	-179.90	-97.20	-179.46	8.00	8.00	0.00
5,000.00	36.80	359.74	4,956.96	-125.78	-97.45	-125.34	8.00	8.00	0.00
5,100.00	44.80	359.74	5,032.61	-60.50	-97.74	-60.06	8.00	8.00	0.00
5,200.00	52.80	359.74	5,098.43	14.67	-98.08	15.12	8.00	8.00	0.00
5,290.06	60.00	359.74	5,148.24	89.63	-98.42	90.08	8.00	8.00	0.00
Start 250.00	hold at 5290.06	MD							
5,300.00	60.00	359.74	5,153.21	98.24	-98.46	98.69	0.00	0.00	0.00
5,400.00	60.00	359.74	5,203.21	184.85	-98.86	185.29	0.00	0.00	0.00
5,500.00	60.00	359.74	5,253.21	271.45	-99.25	271.89	0.00	0.00	0.00
5,540.06	60.00	359.74	5,273.24	306.14	-99.41	306.59	0.00	0.00	0.00
,	.00 TFO 0.01 at		.,						
5,600.00	65.99	359.74	5,300.44	359.52	-99.65	359.97	10.00	10.00	0.00
5,700.00	75.99	359.74	5,332.96	453.95	-100.07	454.40	10.00	10.00	0.00
5,800.00	85.99 90.00	359.74 359.74	5,348.60 5,350.00	552.59 592.61	-100.52	553.04 593.06	10.00 10.00	10.00 10.00	0.00 0.00
5,840.06			5,350.00	592.01	-100.70	593.00	10.00	10.00	0.00
	2 hold at 5840.00		F 250 00	050.50	100.00	052.04	0.00	0.00	0.00
5,900.00 6,000.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	652.56 752.55	-100.96 -101.41	653.01 753.01	0.00 0.00	0.00 0.00	0.00 0.00
6,100.00	90.00	359.74	5,350.00	852.55	-101.41	853.01	0.00	0.00	0.00
6,200.00	90.00	359.74	5,350.00	952.55	-102.30	953.01	0.00	0.00	0.00
6,300.00	90.00	359.74	5,350.00	1,052.55	-102.75	1,053.01	0.00	0.00	0.00
6,400.00	90.00	359.74	5,350.00	1,152.55	-103.20	1,153.01	0.00	0.00	0.00
6,500.00	90.00	359.74	5,350.00	1,252.55	-103.64	1,253.01	0.00	0.00	0.00
6,600.00	90.00	359.74	5,350.00	1,352.55	-104.09	1,353.01	0.00	0.00	0.00
6,700.00	90.00	359.74	5,350.00	1,452.55	-104.54	1,453.01	0.00	0.00	0.00
6,800.00	90.00	359.74	5,350.00	1,552.55	-104.98	1,553.01	0.00	0.00	0.00
6,900.00	90.00	359.74	5,350.00	1,652.55	-105.43	1,653.01	0.00	0.00	0.00
7,000.00	90.00	359.74	5,350.00	1,752.54	-105.88	1,753.01	0.00	0.00	0.00
7,100.00	90.00	359.74	5,350.00	1,852.54	-106.32	1,853.01	0.00	0.00	0.00
7,200.00	90.00	359.74	5,350.00	1,952.54	-106.77	1,953.01	0.00	0.00	0.00
7,300.00	90.00	359.74	5,350.00	2,052.54	-107.22	2,053.01	0.00	0.00	0.00
7,400.00	90.00	359.74	5,350.00	2,152.54	-107.66	2,153.01	0.00	0.00	0.00
7,500.00	90.00	359.74	5,350.00	2,252.54	-108.11	2,253.01	0.00	0.00	0.00
7,600.00	90.00	359.74	5,350.00	2,352.54	-108.56	2,353.01	0.00	0.00	0.00
7,700.00	90.00	359.74	5,350.00	2,452.54	-109.00	2,453.01	0.00	0.00	0.00
7,800.00	90.00	359.74	5,350.00	2,552.54	-109.45	2,553.01	0.00	0.00	0.00
7,900.00	90.00	359.74	5,350.00	2,652.54	-109.90	2,653.01	0.00	0.00	0.00
8,000.00	90.00	359.74	5,350.00	2,752.53	-110.34	2,753.01	0.00	0.00	0.00
8,100.00	90.00	359.74	5,350.00	2,852.53	-110.79	2,853.01	0.00	0.00	0.00
8,200.00	90.00	359.74	5,350.00	2,952.53	-111.24	2,953.01	0.00	0.00	0.00
8,300.00	90.00	359.74	5,350.00	3,052.53	-111.68	3,053.01	0.00	0.00	0.00
8,400.00	90.00	359.74	5,350.00	3,152.53	-112.13	3,153.01	0.00	0.00	0.00
8,500.00	90.00	359.74	5,350.00	3,252.53	-112.58	3,253.01	0.00	0.00	0.00
8,600.00	90.00	359.74	5,350.00	3,352.53	-113.02	3,353.01	0.00	0.00	0.00
8,700.00	90.00	359.74	5,350.00	3,452.53	-113.47	3,453.01	0.00	0.00	0.00
8,800.00	90.00	359.74	5,350.00	3,552.53	-113.92	3,553.01	0.00	0.00	0.00
8,900.00	90.00	359.74	5,350.00	3,652.53	-114.36	3,653.01	0.00	0.00	0.00

1/25/2024 8:31:55AM

COMPASS 5000.17 Build 101

Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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)
9,000.00	90.00	359.74	5,350.00	3,752.52	-114.81	3,753.01	0.00	0.00	0.00
9,100.00	90.00	359.74	5,350.00	3,852.52	-115.26	3,853.01	0.00	0.00	0.00
9,200.00	90.00	359.74	5,350.00	3,952.52	-115.70	3,953.01	0.00	0.00	0.00
9,300.00	90.00	359.74	5,350.00	4,052.52	-116.15	4,053.01	0.00	0.00	0.00
9,400.00	90.00	359.74	5,350.00	4,152.52	-116.60	4,153.01	0.00	0.00	0.00
9,500.00	90.00	359.74	5,350.00	4,252.52	-117.04	4,253.01	0.00	0.00	0.00
9,600.00	90.00	359.74	5,350.00	4,352.52	-117.49	4,353.01	0.00	0.00	0.00
9,700.00	90.00	359.74	5,350.00	4,452.52	-117.94	4,453.01	0.00	0.00	0.00
9,800.00	90.00	359.74	5,350.00	4,552.52	-118.38	4,553.01	0.00	0.00	0.00
9,900.00	90.00	359.74	5,350.00	4,652.52	-118.83	4,653.01	0.00	0.00	0.00
10,000.00	90.00	359.74	5,350.00	4,752.51	-119.28	4,753.01	0.00	0.00	0.00
10,100.00	90.00	359.74	5,350.00	4,852.51	-119.72	4,853.01	0.00	0.00	0.00
10,200.00	90.00	359.74	5,350.00	4,952.51	-120.17	4,953.01	0.00	0.00	0.00
10,300.00	90.00	359.74	5,350.00	5,052.51	-120.62	5,053.01	0.00	0.00	0.00
10,400.00	90.00	359.74	5,350.00	5,152.51	-121.06	5,153.01	0.00	0.00	0.00
10,500.00	90.00	359.74	5,350.00	5,252.51	-121.51	5,253.01	0.00	0.00	0.00
10,600.00	90.00	359.74	5,350.00	5,352.51	-121.96	5,353.01	0.00	0.00	0.00
10,700.00	90.00	359.74	5,350.00	5,452.51	-122.40	5,453.01	0.00	0.00	0.00
10,800.00	90.00	359.74	5,350.00	5,552.51	-122.85	5,553.01	0.00	0.00	0.00
10,900.00	90.00	359.74	5,350.00	5,652.51	-123.30	5,653.01	0.00	0.00	0.00
11,000.00	90.00	359.74	5,350.00	5,752.50	-123.74	5,753.01	0.00	0.00	0.00
11,100.00	90.00	359.74	5,350.00	5,852.50	-124.19	5,853.01	0.00	0.00	0.00
11,200.00	90.00	359.74	5,350.00	5,952.50	-124.64	5,953.01	0.00	0.00	0.00
11,300.00	90.00	359.74	5,350.00	6,052.50	-125.08	6,053.01	0.00	0.00	0.00
11,400.00	90.00	359.74	5,350.00	6,152.50	-125.53	6,153.01	0.00	0.00	0.00
11,500.00	90.00	359.74	5,350.00	6,252.50	-125.98	6,253.01	0.00	0.00	0.00
11,600.00	90.00	359.74	5,350.00	6,352.50	-126.42	6,353.01	0.00	0.00	0.00
11,700.00	90.00	359.74	5,350.00	6,452.50	-126.87	6,453.01	0.00	0.00	0.00
11,800.00	90.00	359.74	5,350.00	6,552.50	-127.32	6,553.01	0.00	0.00	0.00
11,900.00	90.00	359.74	5,350.00	6,652.50	-127.76	6,653.01	0.00	0.00	0.00
12,000.00	90.00	359.74	5,350.00	6,752.49	-128.21	6,753.01	0.00	0.00	0.00
12,100.00	90.00	359.74	5,350.00	6,852.49	-128.66	6,853.01	0.00	0.00	0.00
12,200.00	90.00	359.74	5,350.00	6,952.49	-129.10	6,953.01	0.00	0.00	0.00
12,300.00	90.00	359.74	5,350.00	7,052.49	-129.55	7,053.01	0.00	0.00	0.00
12,400.00	90.00	359.74	5,350.00	7,152.49	-130.00	7,153.01	0.00	0.00	0.00
12,500.00	90.00	359.74	5,350.00	7,252.49	-130.44	7,253.01	0.00	0.00	0.00
12,600.00	90.00	359.74	5,350.00	7,352.49	-130.89	7,353.01	0.00	0.00	0.00
12,700.00	90.00	359.74	5,350.00	7,452.49	-131.34	7,453.01	0.00	0.00	0.00
12,800.00	90.00	359.74	5,350.00	7,552.49	-131.78	7,553.01	0.00	0.00	0.00
12,900.00	90.00	359.74	5,350.00	7,652.49	-132.23	7,653.01	0.00	0.00	0.00
13,000.00	90.00	359.74	5,350.00	7,752.48	-132.68	7,753.01	0.00	0.00	0.00
13,100.00	90.00	359.74	5,350.00	7,852.48	-133.12	7,853.01	0.00	0.00	0.00
13,200.00	90.00	359.74	5,350.00	7,952.48	-133.57	7,953.01	0.00	0.00	0.00
13,300.00	90.00	359.74	5,350.00	8,052.48	-134.02	8,053.01	0.00	0.00	0.00
13,400.00	90.00	359.74	5,350.00	8,152.48	-134.46	8,153.01	0.00	0.00	0.00
13,500.00	90.00	359.74	5,350.00	8,252.48	-134.91	8,253.01	0.00	0.00	0.00
13,571.98	90.00	359.74	5,350.00	8,324.46	-135.23	8,324.98	0.00	0.00	0.00
TD at 13571	98 MD								

1/25/2024 8:31:55AM

Database: Company: Project: Site: Well: Wellbore: Design:	edmdb Steward Enei Lea County, I Pollos Herma Pollos Herma Wellbore #1 Plan #1	NM (NAD 83) nos State Co		9	TVD Reference: MD Reference: North Reference:			Well Pollos Hermanos State Com #1H GL 3769' + RKB 19' @ 3788.00ft GL 3769' + RKB 19' @ 3788.00ft Grid Minimum Curvature			
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	East (us	•	Latituc	le	Longitude
SHL PHSC #1H - plan hits target c - Point	0.00 enter	0.00	0.00	0.00	0.00	769,975.33	92	5,912.91	3	33.110°N	103.077°W
LTP/PBHL PHSC #1H - plan hits target c - Point		0.00	5,350.00	8,324.46	-135.23	778,299.77	92	5,777.68	3	33.133°N	103.078°W
FTP PHSC #1H - plan misses targ - Point	0.00 et center by 0.0		5,350.00 6ft MD (5350.0	592.61 0 TVD, 592.	-100.65 61 N, -100.70	770,567.94 E)	92	5,812.26	3	33.112°N	103.078°W
Casing Points											
м	easured Depth (ft)	Vertical Depth (ft)			Name			Casin Diamet (in)	•	Hole Diameter (in)	
	2,256.43	2,250.00	9 5/8"					9	.625	12.250	

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 1.00 at 300 MD
811.51	810.83	-21.46	-7.74	Start 2689.05 hold at 811.51 MD
3,500.56	3,489.17	-247.00	-89.06	Start Drop -1.00 at 3500.56 MD
4,012.07	4,000.00	-268.46	-96.80	Start 527.99 hold at 4012.07 MD
4,540.06	4,527.99	-268.46	-96.80	Start Build 8.00 at 4540.06 MD
5,290.06	5,148.24	89.63	-98.42	Start 250.00 hold at 5290.06 MD
5,540.06	5,273.24	306.14	-99.41	Start DLS 10.00 TFO 0.01 at 5540.06 MD
5,840.06	5,350.00	592.61	-100.70	Start 7731.92 hold at 5840.06 MD
13,571,98	5.350.00	8.324.46	-135.23	TD at 13571.98 MD

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone Pollos Hermanos State Com #1H Pollos Hermanos State Com #1H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

25 January, 2024

Database: Company: Project: Site: Well: Wellbore: Design:	edmdb Steward Ener Lea County, N Pollos Herma Pollos Herma Wellbore #1 Plan #1	NM (NAD 83) nos State Cor		Local Co-ordin. TVD Reference MD Reference: North Referenc Survey Calcula	e:	GL 3769' + RKE GL 3769' + RKE Grid	Well Pollos Hermanos State Com #1H GL 3769' + RKB 19' @ 3788.00ft GL 3769' + RKB 19' @ 3788.00ft Grid Minimum Curvature			
Project	Lea County, N	M (NAD 83) N	IM East Zone							
Geo Datum:	US State Plane North American New Mexico Eas	Datum 1983		System Datum:		Mean Sea Level				
Site	Pollos Herman	os State Corr	n #1H							
Site Position: From: Position Uncertainty:	Мар	0.00 ft	Northing: Easting: Slot Radius:	769,975.3 925,912.9 13.20	usft Longit			33.110°N 103.077°W		
Well	Pollos Herman	os State Com	#1H							
Well Position	+N/-S +E/-W	0.00 ft 0.00 ft	Northing: Easting:		9,975.33 usft 5,912.91 usft	Latitude: Longitude:		33.110°N 103.077°W		
Position Uncertainty Grid Convergence:		0.00 ft 0.69 °	Wellhead Elev	vation:	ft	Ground Level:		3,769.00 ft		
Wellbore	Wellbore #1									
Magnetics	Model Nar	ne	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)	I		
	IGR	RF2020	1/25/2024		6.07	60.68	47,788.9749	94846		
Design	Plan #1									
Audit Notes: Version:			Phase:	PLAN	Tie On De	pth:	0.00			
Vertical Section:			From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)		rection (°)			
			0.00	0.00	0.00	3	59.74			
Plan Survey Tool Pro Depth From (ft)	Depth To	Date 1/25	/2024 pore)	Tool Name	Rema	arks				
1 0.00	13,571.98	Plan #1 (Well	bore #1)	MWD MWD - Standard						

Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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	
811.51	5.12	199.83	810.83	-21.46	-7.74	1.00	1.00	0.00	199.83	
3,500.56	5.12	199.83	3,489.17	-247.00	-89.06	0.00	0.00	0.00	0.00	
4,012.07	0.00	0.00	4,000.00	-268.46	-96.80	1.00	-1.00	0.00	180.00	
4,540.06	0.00	0.00	4,527.99	-268.46	-96.80	0.00	0.00	0.00	0.00	
5,290.06	60.00	359.74	5,148.24	89.63	-98.42	8.00	8.00	0.00	359.74	
5,540.06	60.00	359.74	5,273.24	306.14	-99.41	0.00	0.00	0.00	0.00	
5,840.06	90.00	359.74	5,350.00	592.61	-100.70	10.00	10.00	0.00	0.01	
13,571.98	90.00	359.74	5,350.00	8,324.46	-135.23	0.00	0.00	0.00	0.00 LTF	P/PBHL PHSC #

Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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	769,975.33	925,912.91	33.110°N	103.077°W
100.00	0.00	0.00	100.00	0.00	0.00	769,975.33	925,912.91	33.110°N	103.077°W
200.00	0.00	0.00	200.00	0.00	0.00	769,975.33	925,912.91	33.110°N	103.077°W
300.00	0.00	0.00	300.00	0.00	0.00	769,975.33	925,912.91	33.110°N	103.077°W
400.00	Id 1.00 at 300 1.00	MD 199.83	399.99	-0.82	-0.30	769,974.51	925,912.61	33.110°N	103.077°W
500.00	2.00	199.83	499.96	-3.28	-1.18	769,972.04	925,911.73	33.110°N	103.077°W
600.00	3.00	199.83	599.86	-7.39	-2.66	769,967.94	925,910.25	33.110°N	103.077°W
700.00	4.00	199.83	699.68	-13.13	-2.00	769,962.20	925,908.18	33.110°N	103.077°W
800.00	5.00	199.83	799.37	-20.51	-4.73	769,954.82	925,905.52	33.110°N	103.077°W
							,		
811.51	5.12	199.83	810.83	-21.46	-7.74	769,953.86	925,905.17	33.110°N	103.077°W
900.00	9.05 hold at 8 5.12	199.83	898.97	-28.89	-10.42	769,946.44	925,902.50	33.110°N	103.077°W
1,000.00	5.12	199.83	998.57	-37.27	-13.44	769,938.05	925,899.47	33.110°N	103.077°W
1,100.00	5.12	199.83	1,098.17	-45.66	-16.46	769,929.67	925,896.45	33.110°N	103.077°W
1,200.00	5.12	199.83	1,197.77	-54.05	-19.49	769,921.28	925,893.42	33.110°N	103.077°W
			1,297.38						
1,300.00	5.12	199.83	,	-62.43	-22.51	769,912.89	925,890.40	33.110°N	103.077°W
1,400.00	5.12	199.83	1,396.98	-70.82	-25.54	769,904.51	925,887.37	33.110°N	103.077°W
1,500.00	5.12	199.83	1,496.58	-79.21	-28.56	769,896.12	925,884.35	33.110°N	103.077°W
1,600.00	5.12	199.83	1,596.18	-87.60	-31.58	769,887.73	925,881.33	33.110°N	103.077°W
1,700.00	5.12	199.83	1,695.78	-95.98	-34.61	769,879.34	925,878.30	33.110°N	103.078°W
1,800.00	5.12	199.83	1,795.38	-104.37	-37.63	769,870.96	925,875.28	33.110°N	103.078°W
1,900.00	5.12	199.83	1,894.99	-112.76	-40.66	769,862.57	925,872.25	33.110°N	103.078°W
2,000.00	5.12	199.83	1,994.59	-121.14	-43.68	769,854.18	925,869.23	33.110°N	103.078°W
2,100.00	5.12	199.83	2,094.19	-129.53	-46.71	769,845.80	925,866.21	33.110°N	103.078°W
2,200.00	5.12	199.83	2,193.79	-137.92	-49.73	769,837.41	925,863.18	33.110°N	103.078°W
2,256.43	5.12	199.83	2,250.00	-142.65	-51.44	769,832.68	925,861.48	33.110°N	103.078°W
9 5/8"									
2,300.00	5.12	199.83	2,293.39	-146.31	-52.75	769,829.02	925,860.16	33.110°N	103.078°W
2,400.00	5.12	199.83	2,392.99	-154.69	-55.78	769,820.63	925,857.13	33.110°N	103.078°W
2,500.00	5.12	199.83	2,492.60	-163.08	-58.80	769,812.25	925,854.11	33.110°N	103.078°W
2,600.00	5.12	199.83	2,592.20	-171.47	-61.83	769,803.86	925,851.09	33.110°N	103.078°W
2,700.00	5.12	199.83	2,691.80	-179.85	-64.85	769,795.47	925,848.06	33.110°N	103.078°W
2,800.00	5.12	199.83	2,791.40	-188.24	-67.87	769,787.09	925,845.04	33.110°N	103.078°W
2,900.00	5.12	199.83	2,891.00	-196.63	-70.90	769,778.70	925,842.01	33.110°N	103.078°W
3,000.00	5.12	199.83	2,990.61	-205.02	-73.92	769,770.31	925,838.99	33.110°N	103.078°W
3,100.00	5.12	199.83	3,090.21	-213.40	-76.95	769,761.93	925,835.96	33.110°N	103.078°W
3,200.00	5.12	199.83	3,189.81	-221.79	-79.97	769,753.54	925,832.94	33.110°N	103.078°W
3,300.00	5.12	199.83	3,289.41	-230.18	-82.99	769,745.15	925,829.92	33.110°N	103.078°W
3,400.00	5.12	199.83	3,389.01	-238.56	-86.02	769,736.76	925,826.89	33.110°N	103.078°W
3,500.00	5.12	199.83	3,488.61	-246.95	-89.04	769,728.38	925,823.87	33.110°N	103.078°W
3,500.56	5.12	199.83	3,489.17	-247.00	-89.06	769,728.33	925,823.85	33.110°N	103.078°W
	op -1.00 at 350		-,				,		
3,600.00	4.12	199.83	3,588.29	-254.53	-91.78	769,720.80	925,821.14	33.110°N	103.078°W
3,700.00	3.12	199.83	3,688.09	-260.47	-93.92	769,714.86	925,818.99	33.110°N	103.078°W
3,800.00	2.12	199.83	3,787.98	-264.77	-95.47	769,710.56	925,817.44	33.110°N	103.078°W
3,900.00	1.12	199.83	3,887.94	-267.43	-96.43	769,707.90	925,816.48	33.110°N	103.078°W
4,000.00	0.12	199.83	3,987.93	-268.45	-96.79	769,706.88	925,816.12	33.110°N	103.078°W
4,000.00	0.12	0.00	4,000.00	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
	.99 hold at 40		+,000.00	-200.40	-50.00	100,100.01	020,010.11	00.110 14	100.070 W
4,100.00	.99 Hold at 40	0.00	4,087.93	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
4,200.00	0.00	0.00	4,187.93	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
4,300.00	0.00	0.00	4,287.93	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
4,300.00	0.00	0.00	4,287.93	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
-,-00.00	0.00	0.00	7,007.00	-200.40	-50.00	100,100.01	520,010.11	00.110 14	100.070 W

1/25/2024 8:32:31AM

Page 4

COMPASS 5000.17 Build 101

Data	abase:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Com	npany:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Proj	ect:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well	:	Pollos Hermanos State Com #1H	Survey Calculation Method:	Minimum Curvature
Well	bore:	Wellbore #1		
Desi	ign:	Plan #1		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting (usft)		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	. ,	Latitude	Longitude
4,500.00		0.00	4,487.93	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
4,540.06	0.00	0.00	4,527.99	-268.46	-96.80	769,706.87	925,816.11	33.110°N	103.078°W
	ild 8.00 at 454								
4,600.00		359.74	4,587.86	-265.95	-96.81	769,709.37	925,816.10	33.110°N	103.078°W
4,700.00		359.74	4,686.61	-250.68	-96.88	769,724.65	925,816.03	33.110°N	103.078°W
4,800.00		359.74	4,782.26	-221.81	-97.01	769,753.52	925,815.90	33.110°N	103.078°W
4,900.00		359.74	4,872.97	-179.90	-97.20	769,795.43	925,815.71	33.110°N	103.078°W
5,000.00		359.74	4,956.96	-125.78	-97.45	769,849.55	925,815.46	33.110°N	103.078°W
5,100.00		359.74	5,032.61	-60.50	-97.74	769,914.83	925,815.17	33.110°N	103.078°W
5,200.00 5,290.06		359.74	5,098.43	14.67	-98.08	769,990.00 770,064.96	925,814.83	33.110°N	103.078°W
		359.74	5,148.24	89.63	-98.42	770,004.90	925,814.49	33.111°N	103.078°W
	0.00 hold at 52	359.74	5 152 21	09.24	09.46	770 072 57	025 914 45	22 111°N	102 079%//
5,300.00 5,400.00		359.74 359.74	5,153.21 5,203.21	98.24 184.85	-98.46 -98.86	770,073.57 770,160.17	925,814.45 925,814.05	33.111°N 33.111°N	103.078°W 103.078°W
5,500.00		359.74	5,203.21	271.45	-98.80	770,246.77	925,813.66	33.111°N	103.078°W
5,540.06		359.74	5,253.21	306.14	-99.25	770,281.46	925,813.50	33.111°N	103.078°W
	.S 10.00 TFO 0			500.14	-55.41	770,201.40	920,010.00	55.111 N	103.078 W
5,600.00		359.74	5,300.44	359.52	-99.65	770,334.85	925,813.26	33.111°N	103.078°W
5,700.00		359.74	5,332.96	453.95	-100.07	770,429.27	925,812.84	33.112°N	103.078°W
5,800.00		359.74	5,348.60	433.93 552.59	-100.52	770,527.92	925,812.39	33.112 N	103.078°W
5,840.06		359.74	5,350.00	592.61	-100.32	770,567.94	925,812.22	33.112°N	103.078°W
	31.92 hold at 5		0,000.00	002.01	-100.10	110,001.04	020,012.22	00.112 1	100.010 11
5,900.00		359.74	5,350.00	652.56	-100.96	770,627.88	925,811.95	33.112°N	103.078°W
6,000.00		359.74	5,350.00	752.55	-101.41	770,727.88	925,811.50	33.112°N	103.078°W
6,100.00		359.74	5,350.00	852.55	-101.86	770,827.88	925,811.05	33.113°N	103.078°W
6,200.00		359.74	5,350.00	952.55	-102.30	770,927.88	925,810.61	33.113°N	103.078°W
6,300.00		359.74	5,350.00	1,052.55	-102.75	771,027.88	925,810.16	33.113°N	103.078°W
6,400.00		359.74	5,350.00	1,152.55	-103.20	771,127.88	925,809.71	33.113°N	103.078°W
6,500.00		359.74	5,350.00	1,252.55	-103.64	771,227.87	925,809.27	33.114°N	103.078°W
6,600.00		359.74	5,350.00	1,352.55	-104.09	771,327.87	925,808.82	33.114°N	103.078°W
6,700.00		359.74	5,350.00	1,452.55	-104.54	771,427.87	925,808.37	33.114°N	103.078°W
6,800.00	90.00	359.74	5,350.00	1,552.55	-104.98	771,527.87	925,807.93	33.115°N	103.078°W
6,900.00	90.00	359.74	5,350.00	1,652.55	-105.43	771,627.87	925,807.48	33.115°N	103.078°W
7,000.00	90.00	359.74	5,350.00	1,752.54	-105.88	771,727.87	925,807.03	33.115°N	103.078°W
7,100.00	90.00	359.74	5,350.00	1,852.54	-106.32	771,827.87	925,806.59	33.115°N	103.078°W
7,200.00	90.00	359.74	5,350.00	1,952.54	-106.77	771,927.87	925,806.14	33.116°N	103.078°W
7,300.00	90.00	359.74	5,350.00	2,052.54	-107.22	772,027.86	925,805.69	33.116°N	103.078°W
7,400.00	90.00	359.74	5,350.00	2,152.54	-107.66	772,127.86	925,805.25	33.116°N	103.078°W
7,500.00	90.00	359.74	5,350.00	2,252.54	-108.11	772,227.86	925,804.80	33.117°N	103.078°W
7,600.00		359.74	5,350.00	2,352.54	-108.56	772,327.86	925,804.35	33.117°N	103.078°W
7,700.00		359.74	5,350.00	2,452.54	-109.00	772,427.86	925,803.91	33.117°N	103.078°W
7,800.00		359.74	5,350.00	2,552.54	-109.45	772,527.86	925,803.46	33.117°N	103.078°W
7,900.00		359.74	5,350.00	2,652.54	-109.90	772,627.86	925,803.01	33.118°N	103.078°W
8,000.00		359.74	5,350.00	2,752.53	-110.34	772,727.86	925,802.57	33.118°N	103.078°W
8,100.00		359.74	5,350.00	2,852.53	-110.79	772,827.86	925,802.12	33.118°N	103.078°W
8,200.00		359.74	5,350.00	2,952.53	-111.24	772,927.85	925,801.67	33.118°N	103.078°W
8,300.00		359.74	5,350.00	3,052.53	-111.68	773,027.85	925,801.23	33.119°N	103.078°W
8,400.00		359.74	5,350.00	3,152.53	-112.13	773,127.85	925,800.78	33.119°N	103.078°W
8,500.00		359.74	5,350.00	3,252.53	-112.58	773,227.85 773,327.85	925,800.33	33.119°N	103.078°W 103.078°W
8,600.00 8,700.00		359.74 359.74	5,350.00 5,350.00	3,352.53 3,452.53	-113.02 -113.47	773,427.85	925,799.89 925,799.44	33.120°N 33.120°N	103.078°W
8,700.00 8,800.00		359.74 359.74	5,350.00 5,350.00	3,452.53 3,552.53	-113.47 -113.92	773,527.85	925,799.44 925,798.99	33.120 N 33.120°N	103.078 W
8,900.00		359.74	5,350.00	3,652.53	-113.92	773,627.85	925,798.55	33.120 N	103.078°W
9,000.00		359.74	5,350.00	3,752.52	-114.30	773,727.84	925,798.10	33.121°N	103.078°W
5,000.00	00.00	000.1 1	0,000.00	5,. 52.02			020,700.10	30.12114	

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Database:	edmdb	Local Co-ordinate Reference:	Well Pollos Hermanos State Com #1H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3769' + RKB 19' @ 3788.00ft
Site:	Pollos Hermanos State Com #1H	North Reference:	Grid
Well:	Pollos Hermanos State Com #1H	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
0.100.00	90.00	359.74	5,350.00	3,852.52		772 007 04	925,797.65		-
9,100.00 9,200.00	90.00	359.74 359.74	5,350.00 5,350.00	3,852.52 3,952.52	-115.26 -115.70	773,827.84 773,927.84	925,797.85 925,797.21	33.121°N 33.121°N	103.078°W 103.078°W
	90.00	359.74 359.74	5,350.00 5,350.00	3,952.52 4,052.52	-115.70			33.121 N 33.121°N	
9,300.00	90.00	359.74 359.74	5,350.00 5,350.00	4,052.52 4,152.52	-116.15	774,027.84 774,127.84	925,796.76 925,796.31	33.122°N	103.078°W 103.078°W
9,400.00 9,500.00	90.00	359.74 359.74	5,350.00 5,350.00	4,152.52 4,252.52	-116.60	774,127.84	925,795.87	33.122 N 33.122°N	103.078 W
	90.00	359.74 359.74	5,350.00 5,350.00	4,252.52 4,352.52	-117.04	774,327.84	925,795.42 925,795.42	33.122 N 33.122°N	103.078 W
9,600.00									
9,700.00	90.00	359.74	5,350.00	4,452.52	-117.94	774,427.84	925,794.97	33.123°N	103.078°W
9,800.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	4,552.52 4,652.52	-118.38	774,527.83 774,627.83	925,794.53 925,794.08	33.123°N 33.123°N	103.078°W
9,900.00		359.74 359.74	5,350.00 5,350.00	4,652.52 4,752.51	-118.83 -119.28	774,727.83	925,794.08 925,793.63	33.123 N 33.123°N	103.078°W 103.078°W
10,000.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	4,752.51 4,852.51	-119.20	774,827.83	925,793.19 925,793.19	33.124°N	103.078 W
10,100.00		359.74 359.74	5,350.00 5,350.00	4,852.51 4,952.51	-119.72	774,927.83	925,793.19 925,792.74	33.124 N 33.124°N	
10,200.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	4,952.51 5,052.51	-120.17	775,027.83	925,792.29	33.124 N 33.124°N	103.078°W 103.078°W
10,300.00		359.74 359.74	5,350.00 5,350.00			775,127.83	925,792.29 925,791.85		
10,400.00	90.00	359.74 359.74		5,152.51	-121.06			33.124°N	103.078°W
10,500.00	90.00	359.74 359.74	5,350.00	5,252.51	-121.51	775,227.83 775,327.83	925,791.40 925,790.96	33.125°N	103.078°W
10,600.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	5,352.51 5,452.51	-121.96 -122.40		925,790.98 925,790.51	33.125°N 33.125°N	103.078°W 103.078°W
10,700.00						775,427.82			
10,800.00	90.00	359.74	5,350.00	5,552.51	-122.85	775,527.82	925,790.06	33.126°N	103.078°W
10,900.00	90.00	359.74 359.74	5,350.00	5,652.51	-123.30	775,627.82	925,789.62	33.126°N	103.078°W
11,000.00	90.00	359.74 359.74	5,350.00	5,752.50	-123.74	775,727.82	925,789.17	33.126°N	103.078°W
11,100.00	90.00		5,350.00	5,852.50	-124.19	775,827.82	925,788.72	33.126°N	103.078°W
11,200.00	90.00	359.74	5,350.00	5,952.50	-124.64	775,927.82	925,788.28	33.127°N	103.078°W
11,300.00	90.00	359.74	5,350.00	6,052.50	-125.08	776,027.82	925,787.83	33.127°N	103.078°W
11,400.00	90.00	359.74	5,350.00	6,152.50	-125.53	776,127.82	925,787.38	33.127°N	103.078°W
11,500.00	90.00	359.74	5,350.00	6,252.50	-125.98	776,227.81	925,786.94	33.127°N	103.078°W
11,600.00	90.00	359.74 359.74	5,350.00	6,352.50	-126.42	776,327.81	925,786.49	33.128°N	103.078°W
11,700.00	90.00 90.00	359.74 359.74	5,350.00	6,452.50	-126.87 -127.32	776,427.81	925,786.04 925,785.60	33.128°N 33.128°N	103.078°W
11,800.00		359.74 359.74	5,350.00	6,552.50	-127.32	776,527.81	,		103.078°W
11,900.00	90.00	359.74 359.74	5,350.00 5,350.00	6,652.50	-127.76	776,627.81 776,727.81	925,785.15 925,784.70	33.129°N 33.129°N	103.078°W
12,000.00	90.00	359.74 359.74	5,350.00 5,350.00	6,752.49 6,852.49	-128.66	776,827.81		33.129 N 33.129°N	103.078°W
12,100.00	90.00 90.00	359.74 359.74	5,350.00 5,350.00	6,852.49 6,952.49	-128.00	776,927.81	925,784.26 925,783.81		103.078°W
12,200.00	90.00	359.74 359.74	5,350.00	6,952.49 7,052.49	-129.10	777,027.80	925,783.36	33.129°N 33.130°N	103.078°W 103.078°W
12,300.00 12,400.00	90.00	359.74 359.74	5,350.00 5,350.00	7,052.49	-129.55	777,127.80	925,783.36 925,782.92	33.130°N	103.078 W
12,400.00	90.00	359.74	5,350.00	7,152.49	-130.00	777,227.80	925,782.47	33.130°N	103.078°W
12,600.00	90.00	359.74	5,350.00	7,252.49	-130.44	777,327.80	925,782.02	33.131°N	103.078°W
12,000.00	90.00	359.74	5,350.00	7,352.49	-130.89	777,427.80	925,782.02	33.131°N	103.078°W
12,700.00	90.00	359.74	5,350.00	7,452.49	-131.34	777,527.80	925,781.13	33.131°N	103.078°W
12,800.00	90.00	359.74	5,350.00	7,652.49	-131.78	777,627.80	925,780.68	33.131°N	103.078°W
13,000.00	90.00	359.74 359.74	5,350.00	7,052.49	-132.23	777,727.80	925,780.24	33.132°N	103.078°W
13,100.00	90.00	359.74 359.74	5,350.00 5,350.00	7,752.46	-132.00	777,827.80	925,780.24 925,779.79	33.132°N	103.078 W
13,200.00	90.00	359.74 359.74	5,350.00 5,350.00	7,052.40 7,952.48	-133.12	777,927.79	925,779.79 925,779.34	33.132°N	103.078°W
13,300.00	90.00	359.74 359.74	5,350.00 5,350.00	7,952.46 8,052.48	-133.57	778,027.79	925,779.34 925,778.90	33.132°N	103.078 W
13,400.00	90.00	359.74 359.74	5,350.00 5,350.00	8,052.46 8,152.48	-134.02	778,127.79	925,778.45	33.133°N	103.078°W
13,500.00	90.00	359.74 359.74	5,350.00 5,350.00	8,252.48	-134.40	778,227.79	925,778.00 925,778.00	33.133°N	103.078 W
13,500.00	90.00	359.74 359.74	5,350.00 5,350.00	8,324.46	-134.91	778,299.77	925,778.00 925,777.68	33.133°N	103.078 W
	571.98 MD	555.74	0,000.00	0,024.40	-100.20	110,233.11	920,111.00	55.155 N	105.078 W
10 at 13	57 1.30 WID								

Database: Company: Project: Site: Well: Wellbore: Design:	edmdb Steward Energ Lea County, N Pollos Hermar Pollos Hermar Wellbore #1 Plan #1	IM (NAD 83) nos State Co	om #1H	ne	TVD Referen MD Referen North Refer	ce:	Well Pollos Hermanos State Com #1H GL 3769' + RKB 19' @ 3788.00ft GL 3769' + RKB 19' @ 3788.00ft Grid Minimum Curvature			
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 PHSC #1H - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	769,975.33	925,912.91	33.110°N	103.077°W	
LTP/PBHL PHSC #1H - plan hits target ce - Point	0.00 enter	0.00	5,350.00	8,324.46	-135.23	778,299.77	925,777.68	33.133°N	103.078°W	
FTP PHSC #1H - plan misses targe - Point	0.00 t center by 0.05	0.00 ift at 5840.06	5,350.00 6ft MD (5350	592.61 .00 TVD, 592.	-100.65 61 N, -100.70	770,567.94 E)	925,812.26	33.112°N	103.078°W	
	easured Depth	Vertical Depth						sing Hole neter Diameter		

	Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter	
	(ft)	(ft)		Name	(in)	(in)	
	2,256.43	2,250.00	9 5/8"		9.625	12.250	
Plan Annotations							

Measure	d Vertical	Local Co	ordinates		
Depth	Depth	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)	Comment	
300	00 300.00	0.00	0.00	Start Build 1.00 at 300 MD	
811	51 810.83	-21.46	-7.74	Start 2689.05 hold at 811.51 MD	
3,500	56 3,489.17	-247.00	-89.06	Start Drop -1.00 at 3500.56 MD	
4,012	07 4,000.00	-268.46	-96.80	Start 527.99 hold at 4012.07 MD	
4,540	06 4,527.99	-268.46	-96.80	Start Build 8.00 at 4540.06 MD	
5,290	06 5,148.24	89.63	-98.42	Start 250.00 hold at 5290.06 MD	
5,540	06 5,273.24	306.14	-99.41	Start DLS 10.00 TFO 0.01 at 5540.06 MD	
5,840	06 5,350.00	592.61	-100.70	Start 7731.92 hold at 5840.06 MD	
13,571	98 5,350.00	8,324.46	-135.23	TD at 13571.98 MD	

1. Geologic Formations

TVD of target	5,350' EOL	Pilot hole depth	NA
MD at TD:	13,572'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	2235	anhydrite	
Salado	2358	siltstone/sandstone/limestone	
Castile	2971	red shale/anhydrite/sandstone	
Tansill	3049	anhydrite	
Yates	3145	dolomite/sandstone	
Seven Rivers	3411	sandstone/dolomite/shale	
Queen	3958	dolomite/sandstone/anhydrite	
Grayburg	4349	dolomite/sandstone/anhydrite	
San Andres	4611	dolomite/anhydrite	
Manz Marker	5151	dolomite/anhydrite	
Chambliss	5222	dolomite/anhydrite	
Pi Marker	5269	dolomite/anhydrite	
Brahaney B	5315	dolomite/anhydrite	
Х	Х	dolomite/anhydrite	

2. Casing Program

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs.)	Graue	Conn.	Collapse	Burst	Tension
12.25"	0	2,285	9.625"	36	J55	BTC	1.89	1.53	6.86
8.5"	0	5,530	7"	29	HCL80	BTC	3.24	3.54	4.42
8.5"	5,530	13,572	5.5"	20	L80	BTC	3.11	3.99	4.36
				BLM M	inimum 🕄	Safety	1.125	1	1.6 Dry
					Factor		1.125	Ι	1.8 Wet

All casing strings will be kept at least 1/3 full while running to mitigate collapse. Production casing burst based on 0.7 psi/ft frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Steward Energy II - Pollos Hermanos State Com 1H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	
justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	Ν
If yes, are there three strings cemented to surface?	
n yee, are anele anele onnige contented to canado.	

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Steward Energy II - Pollos Hermanos State Com 1H

3. Cementing Program

Casing	# Sks	Density (lb./gal.)	Yield (ft.3/sk.)	H ₂ 0 (gal/sk.)	500# Comp. Strength (hrs.)	Slurry Description
Surf.	570	12.8	1.94	10.4	12	Lead: Class C + 6% Gel + 5% CaCl2
Sun.	250	14.8	1.32	6.3	8	Tail: Class C + 2% CaCl2
Prod.	360	11.5	2.7	16.4	72	Lead: 50:50:10 Class C Blend
FIOU.	2280	14	1.3	6.5	19	Tail: 50:50:2 Class C Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Production	0'	50% OH in Lateral (KOP to EOL) – 100% OH in Vertical

4. Pressure Control Equipment

NI NI	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Minimum Required Working Pressure	Туре	x	Tested to:
			Annular	x	50% Testing Pressure
8.5"	11"	3M	Blind Rar	n x	
			Pipe Rar	n x	3M
			Double Ra	am	5101
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.
х	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Steward Energy II - Pollos Hermanos State Com 1H

5. Mud Program

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

	Depth	Туро	Weight	Viscosity	Water Loss	
From	То	Туре	(ppg)	viscosity	Water LUSS	
0	Surface Shoe	FW Gel	8.6 - 9	28-34	N/C	
Surface Shoe	Lateral TD	Saturated Brine	10 - 10.2	28-34	N/C	

6. Logging and Testing Procedures

Logging, Coring and Testing.							
Will run GR/CNL from TD to surface (horizontal well – ver portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.							
Y	No Logs are planned based on well control or offset log information.						
N Drill stem test? If yes, explain.							
Ν	Coring? If yes, explain.						

Additional logs planned		Interval		
N	Resistivity	Pilot Hole TD to ICP		
Ν	Density	Pilot Hole TD to ICP		
Y	CBL	Production casing (If cement not circulated to surface)		
Y	Mud log	Intermediate shoe to TD		
N	PEX			

5

Steward Energy II - Pollos Hermanos State Com 1H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	2840 psi at 5350' TVD
Abnormal Temperature	No. 115 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

Ν	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

N	Is it a walking operation?
Ν	Is casing pre-set?

Х	H2S Plan
Х	BOP & Choke Schematics
X	Directional Plan

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eived by OCD: 4/9/2024	12:07:00 PA	М						Page 27
	Η	Stat Energy, Minerals a	e of New Mez nd Natural Res		ent		Subr Via I	nit Electronically E-permitting
		1220 S	nservation Di South St. Fran ta Fe, NM 87	cis Dr.				
	Ν	NATURAL GA	AS MANA	GEMENT P	LAN			
This Natural Gas Manag	gement Plan n	nust be submitted wi	th each Applicat	tion for Permit to	Drill (A	PD) for a n	ew oi	recompleted well.
			<u>1 – Plan D</u> fective May 25,					
I. Operator: Steward	I. Operator: <u>Steward Energy II, LLC</u> OGRID: <u>371682</u> Date: <u>04</u> / <u>04</u> / <u>2024</u>							
II. Type: 🖾 Original 🗆	Amendmen	t due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) N	MAC 🗆 O	ther.	
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s					wells pi	roposed to b	oe dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	Р	Anticipated roduced Water BBL/D
Pollos Hermanos State Com 1H		A-Sec 15-T14S-R38E	494 FNL 372 FEL	450	230		3	3000
IV. Central Delivery P								7.9(D)(1) NMAC]
V. Anticipated Schedul proposed to be recomple					ven or s	et of wells j	propo	osed to be drilled or
Well Name	API	Spud Date	TD Reached	Completion	1 1 D (Initial Fl		First Production

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Pollos Hermanos State Com 1H		1/16/2025	1/28/2025	3/15/2025	4/4/2025	4/9/2025

VI. Separation Equipment: 🛛 Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 🗵 Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: X Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

I Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: My Ja Song
Printed Name: Ryan DeLong
Title: Vice President - Planning & Regulatory
E-mail Address: rdelong@titusoil.com
Date:
Phone: 817-852-6370
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Steward Energy II, LLC (SEII) will take the following actions to comply with the regulations listed in 19.15.27.8:
 - A. SEII will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. SEII will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion, SEII does not allow the well to flow during CO so there will be nothing to flare. Immediately following the finish of completion operations. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, SEII will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. SEII will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. SEII will comply with the performance standards requirements and provisions listed in

19.15.27.8 E.(I)through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the

well and storage tanks unless otherwise approved by the division. SEII will conduct AVO (LDAR) inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

- F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. SEII will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, SEII will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.
- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.