

Well Name: ROSA UNIT	Well Location: T31N / R6W / SEC 9 / NENW / 36.918548 / -107.470766	County or Parish/State: SAN JUAN / NM
Well Number: 556H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078765	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number:	Operator: LOGOS OPERATING LLC	

Notice of Intent

Sundry ID: 2841160

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 03/11/2025	Time Sundry Submitted: 08:58
Date proposed operation will begin: 04/01/2025	

Procedure Description: LOGOS Operating request a change in plans for the following (based on KB elevation): New surface-hole location 995' FNL & 1880' FWL New bottom-hole location 2106' FNL & 1127' FWL New TD @ 16,549' (MD) 7,057' (TVD). Geology tops have been updated per changes. New KOP @ 6,492' MD 6,418' TVD New Landing point @ 7,483' MD 7,039' TVD New 20" Conductor casing @ 320' MD New 13.375" Surface casing @ 3,523' MD New 9.625" Intermediate casing @ 6,425' MD New 5.5" Production casing @ 16,549' MD All cementing bbls and sacks have been update per casing depth changes. Attached: New C102, Operation and Directional Drill plans.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Rosa_Unit_556H_Well_Plat_Revised_03.07.2025_signed_20250313085240.pdf
- Logos___Rosa_Unit_556H_Plan_Data_Prelim_4_20250311085748.pdf
- Rosa_Unit_556H_Operations_Plan_4_string_Prelim4_03_07_2025_20250311085658.pdf

Well Name: ROSA UNIT	Well Location: T31N / R6W / SEC 9 / NENW / 36.918548 / -107.470766	County or Parish/State: SAN JUAN / NM
Well Number: 556H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078765	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number:	Operator: LOGOS OPERATING LLC	

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: ETTA TRUJILLO	Signed on: MAR 13, 2025 08:54 AM
Name: LOGOS OPERATING LLC	
Title: Regulatory Specialist	
Street Address: 2010 AFTON PLACE	
City: Farmington	State: NM
Phone: (505) 324-4154	
Email address: ETRUJILLO@LOGOSRESOURCESLLC.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 03/13/2025
Signature: Kenneth Rennick	

Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 5

Rosa Unit 556H

OH

Plan: Prelim 4

Standard Planning Report

07 March, 2025

SDT
Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Project	Rio Arriba, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Rosa Unit 5				
Site Position:		Northing:	2,153,894.20 usft	Latitude:	36.918586
From:	Lat/Long	Easting:	2,829,074.91 usft	Longitude:	-107.470774
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Rosa Unit 556H					
Well Position	+N/-S	0.00 usft	Northing:	2,153,894.20 usft	Latitude:	36.918586
	+E/-W	0.00 usft	Easting:	2,829,074.91 usft	Longitude:	-107.470774
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,433.50 usft
Grid Convergence:		0.22 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	1/31/2025	8.44	63.26	49,264.67194387

Design	Prelim 4				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.30	

Plan Survey Tool Program	Date	3/5/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,548.51 Prelim 4 (OH)	MWD+HRGM+MS		
			MWD + HRGM + Multi-Station		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
962.70	9.25	175.97	960.69	-37.19	2.62	2.00	2.00	0.00	175.97	
6,492.19	9.25	175.97	6,418.21	-924.21	65.06	0.00	0.00	0.00	0.00	
7,483.22	89.89	90.30	7,039.00	-1,028.19	699.85	9.00	8.14	-8.64	-85.75	RU 556H POE
16,549.00	89.89	90.30	7,057.00	-1,075.66	9,765.49	0.00	0.00	0.00	0.00	RU 556H PBHL

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
600.00	2.00	175.97	599.98	-1.74	0.12	0.13	2.00	2.00	0.00
700.00	4.00	175.97	699.84	-6.96	0.49	0.53	2.00	2.00	0.00
800.00	6.00	175.97	799.45	-15.65	1.10	1.18	2.00	2.00	0.00
900.00	8.00	175.97	898.70	-27.81	1.96	2.10	2.00	2.00	0.00
962.70	9.25	175.97	960.69	-37.19	2.62	2.81	2.00	2.00	0.00
Start 5529.48 hold at 962.70 MD									
1,000.00	9.25	175.97	997.51	-43.18	3.04	3.27	0.00	0.00	0.00
1,100.00	9.25	175.97	1,096.20	-59.22	4.17	4.48	0.00	0.00	0.00
1,200.00	9.25	175.97	1,194.90	-75.26	5.30	5.69	0.00	0.00	0.00
1,300.00	9.25	175.97	1,293.60	-91.30	6.43	6.90	0.00	0.00	0.00
1,400.00	9.25	175.97	1,392.30	-107.34	7.56	8.12	0.00	0.00	0.00
1,500.00	9.25	175.97	1,491.00	-123.38	8.69	9.33	0.00	0.00	0.00
1,600.00	9.25	175.97	1,589.70	-139.43	9.81	10.54	0.00	0.00	0.00
1,700.00	9.25	175.97	1,688.39	-155.47	10.94	11.76	0.00	0.00	0.00
1,800.00	9.25	175.97	1,787.09	-171.51	12.07	12.97	0.00	0.00	0.00
1,900.00	9.25	175.97	1,885.79	-187.55	13.20	14.18	0.00	0.00	0.00
2,000.00	9.25	175.97	1,984.49	-203.59	14.33	15.40	0.00	0.00	0.00
2,100.00	9.25	175.97	2,083.19	-219.63	15.46	16.61	0.00	0.00	0.00
2,200.00	9.25	175.97	2,181.89	-235.67	16.59	17.82	0.00	0.00	0.00
2,300.00	9.25	175.97	2,280.59	-251.72	17.72	19.04	0.00	0.00	0.00
2,400.00	9.25	175.97	2,379.28	-267.76	18.85	20.25	0.00	0.00	0.00
2,452.40	9.25	175.97	2,431.00	-276.16	19.44	20.89	0.00	0.00	0.00
Ojo Alamo									
2,500.00	9.25	175.97	2,477.98	-283.80	19.98	21.46	0.00	0.00	0.00
2,570.94	9.25	175.97	2,548.00	-295.18	20.78	22.32	0.00	0.00	0.00
Kirtland									
2,600.00	9.25	175.97	2,576.68	-299.84	21.11	22.68	0.00	0.00	0.00
2,700.00	9.25	175.97	2,675.38	-315.88	22.24	23.89	0.00	0.00	0.00
2,800.00	9.25	175.97	2,774.08	-331.92	23.37	25.10	0.00	0.00	0.00
2,900.00	9.25	175.97	2,872.78	-347.97	24.49	26.32	0.00	0.00	0.00
2,979.25	9.25	175.97	2,951.00	-360.68	25.39	27.28	0.00	0.00	0.00
Fruitland									
3,000.00	9.25	175.97	2,971.48	-364.01	25.62	27.53	0.00	0.00	0.00
3,093.74	9.25	175.97	3,064.00	-379.05	26.68	28.67	0.00	0.00	0.00
T/Coals									
3,100.00	9.25	175.97	3,070.17	-380.05	26.75	28.74	0.00	0.00	0.00
3,200.00	9.25	175.97	3,168.87	-396.09	27.88	29.96	0.00	0.00	0.00
3,293.34	9.25	175.97	3,261.00	-411.06	28.94	31.09	0.00	0.00	0.00
B/Coals									
3,300.00	9.25	175.97	3,267.57	-412.13	29.01	31.17	0.00	0.00	0.00
3,400.00	9.25	175.97	3,366.27	-428.17	30.14	32.38	0.00	0.00	0.00
3,472.68	9.25	175.97	3,438.00	-439.83	30.96	33.26	0.00	0.00	0.00
Pictured Cliffs									
3,500.00	9.25	175.97	3,464.97	-444.22	31.27	33.60	0.00	0.00	0.00
3,593.25	9.25	175.97	3,557.00	-459.17	32.32	34.73	0.00	0.00	0.00
Lewis									

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.00	9.25	175.97	3,563.67	-460.26	32.40	34.81	0.00	0.00	0.00
3,700.00	9.25	175.97	3,662.36	-476.30	33.53	36.02	0.00	0.00	0.00
3,800.00	9.25	175.97	3,761.06	-492.34	34.66	37.24	0.00	0.00	0.00
3,900.00	9.25	175.97	3,859.76	-508.38	35.79	38.45	0.00	0.00	0.00
4,000.00	9.25	175.97	3,958.46	-524.42	36.92	39.66	0.00	0.00	0.00
4,100.00	9.25	175.97	4,057.16	-540.46	38.05	40.87	0.00	0.00	0.00
4,200.00	9.25	175.97	4,155.86	-556.51	39.17	42.09	0.00	0.00	0.00
4,300.00	9.25	175.97	4,254.56	-572.55	40.30	43.30	0.00	0.00	0.00
4,400.00	9.25	175.97	4,353.25	-588.59	41.43	44.51	0.00	0.00	0.00
4,500.00	9.25	175.97	4,451.95	-604.63	42.56	45.73	0.00	0.00	0.00
4,600.00	9.25	175.97	4,550.65	-620.67	43.69	46.94	0.00	0.00	0.00
4,700.00	9.25	175.97	4,649.35	-636.71	44.82	48.15	0.00	0.00	0.00
4,740.17	9.25	175.97	4,689.00	-643.16	45.27	48.64	0.00	0.00	0.00
Chacra									
4,800.00	9.25	175.97	4,748.05	-652.76	45.95	49.37	0.00	0.00	0.00
4,900.00	9.25	175.97	4,846.75	-668.80	47.08	50.58	0.00	0.00	0.00
5,000.00	9.25	175.97	4,945.45	-684.84	48.21	51.79	0.00	0.00	0.00
5,100.00	9.25	175.97	5,044.14	-700.88	49.34	53.01	0.00	0.00	0.00
5,195.09	9.25	175.97	5,138.00	-716.13	50.41	54.16	0.00	0.00	0.00
U/Cliff House									
5,200.00	9.25	175.97	5,142.84	-716.92	50.47	54.22	0.00	0.00	0.00
5,300.00	9.25	175.97	5,241.54	-732.96	51.60	55.43	0.00	0.00	0.00
5,400.00	9.25	175.97	5,340.24	-749.00	52.73	56.65	0.00	0.00	0.00
5,500.00	9.25	175.97	5,438.94	-765.05	53.85	57.86	0.00	0.00	0.00
5,527.42	9.25	175.97	5,466.00	-769.44	54.16	58.19	0.00	0.00	0.00
Cliff House									
5,573.01	9.25	175.97	5,511.00	-776.76	54.68	58.75	0.00	0.00	0.00
Menefee									
5,600.00	9.25	175.97	5,537.64	-781.09	54.98	59.07	0.00	0.00	0.00
5,700.00	9.25	175.97	5,636.33	-797.13	56.11	60.29	0.00	0.00	0.00
5,795.91	9.25	175.97	5,731.00	-812.52	57.20	61.45	0.00	0.00	0.00
Point Lookout									
5,800.00	9.25	175.97	5,735.03	-813.17	57.24	61.50	0.00	0.00	0.00
5,900.00	9.25	175.97	5,833.73	-829.21	58.37	62.71	0.00	0.00	0.00
6,000.00	9.25	175.97	5,932.43	-845.25	59.50	63.93	0.00	0.00	0.00
6,100.00	9.25	175.97	6,031.13	-861.30	60.63	65.14	0.00	0.00	0.00
6,200.00	9.25	175.97	6,129.83	-877.34	61.76	66.35	0.00	0.00	0.00
6,300.00	9.25	175.97	6,228.53	-893.38	62.89	67.57	0.00	0.00	0.00
6,314.67	9.25	175.97	6,243.00	-895.73	63.05	67.74	0.00	0.00	0.00
Mancos									
6,400.00	9.25	175.97	6,327.22	-909.42	64.02	68.78	0.00	0.00	0.00
6,492.19	9.25	175.97	6,418.21	-924.21	65.06	69.90	0.00	0.00	0.00
Start DLS 9.00 TFO -85.75									
6,500.00	9.33	171.65	6,425.92	-925.46	65.19	70.04	9.00	1.00	-55.40
6,550.00	10.94	147.51	6,475.16	-933.48	68.33	73.22	9.00	3.21	-48.28
6,600.00	13.87	131.44	6,524.00	-941.45	75.38	80.31	9.00	5.86	-32.13
6,650.00	17.47	121.37	6,572.15	-949.32	86.28	91.25	9.00	7.20	-20.15
6,700.00	21.40	114.77	6,619.30	-957.06	100.98	105.99	9.00	7.87	-13.19
6,750.00	25.52	110.18	6,665.16	-964.60	119.38	124.43	9.00	8.23	-9.18
6,800.00	29.74	106.80	6,709.45	-971.90	141.37	146.46	9.00	8.44	-6.75
6,850.00	34.02	104.21	6,751.90	-978.92	166.82	171.94	9.00	8.57	-5.20
6,900.00	38.35	102.13	6,792.24	-985.62	195.56	200.72	9.00	8.66	-4.15
6,950.00	42.72	100.42	6,830.24	-991.95	227.42	232.61	9.00	8.72	-3.43

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,976.02	44.99	99.63	6,849.00	-995.09	245.18	250.38	9.00	8.76	-3.01
Black Top									
7,000.00	47.10	98.97	6,865.64	-997.87	262.21	267.43	9.00	8.77	-2.79
7,050.00	51.50	97.71	6,898.24	-1,003.35	299.70	304.95	9.00	8.80	-2.52
7,100.00	55.91	96.60	6,927.83	-1,008.36	339.68	344.95	9.00	8.82	-2.23
7,150.00	60.32	95.59	6,954.24	-1,012.86	381.88	387.18	9.00	8.84	-2.00
7,200.00	64.75	94.68	6,977.29	-1,016.82	426.06	431.38	9.00	8.85	-1.83
7,250.00	69.18	93.82	6,996.85	-1,020.22	471.93	477.27	9.00	8.86	-1.71
7,300.00	73.62	93.02	7,012.80	-1,023.05	519.23	524.58	9.00	8.87	-1.61
7,350.00	78.05	92.25	7,025.03	-1,025.27	567.64	573.00	9.00	8.88	-1.54
7,400.00	82.49	91.51	7,033.47	-1,026.88	616.88	622.25	9.00	8.88	-1.49
7,450.00	86.94	90.78	7,038.08	-1,027.88	666.65	672.02	9.00	8.88	-1.46
7,483.22	89.89	90.30	7,039.00	-1,028.19	699.85	705.22	9.00	8.88	-1.44
Start 9065.78 hold at 7483.22 MD									
7,500.00	89.89	90.30	7,039.03	-1,028.28	716.63	722.01	0.00	0.00	0.00
7,600.00	89.89	90.30	7,039.23	-1,028.80	816.63	822.01	0.00	0.00	0.00
7,700.00	89.89	90.30	7,039.43	-1,029.33	916.63	922.01	0.00	0.00	0.00
7,800.00	89.89	90.30	7,039.63	-1,029.85	1,016.63	1,022.00	0.00	0.00	0.00
7,900.00	89.89	90.30	7,039.83	-1,030.37	1,116.63	1,122.00	0.00	0.00	0.00
8,000.00	89.89	90.30	7,040.03	-1,030.90	1,216.62	1,222.00	0.00	0.00	0.00
8,100.00	89.89	90.30	7,040.22	-1,031.42	1,316.62	1,322.00	0.00	0.00	0.00
8,200.00	89.89	90.30	7,040.42	-1,031.94	1,416.62	1,422.00	0.00	0.00	0.00
8,300.00	89.89	90.30	7,040.62	-1,032.47	1,516.62	1,522.00	0.00	0.00	0.00
8,400.00	89.89	90.30	7,040.82	-1,032.99	1,616.62	1,622.00	0.00	0.00	0.00
8,500.00	89.89	90.30	7,041.02	-1,033.51	1,716.62	1,722.00	0.00	0.00	0.00
8,600.00	89.89	90.30	7,041.22	-1,034.04	1,816.61	1,822.00	0.00	0.00	0.00
8,700.00	89.89	90.30	7,041.42	-1,034.56	1,916.61	1,922.00	0.00	0.00	0.00
8,800.00	89.89	90.30	7,041.61	-1,035.08	2,016.61	2,022.00	0.00	0.00	0.00
8,900.00	89.89	90.30	7,041.81	-1,035.61	2,116.61	2,122.00	0.00	0.00	0.00
9,000.00	89.89	90.30	7,042.01	-1,036.13	2,216.61	2,222.00	0.00	0.00	0.00
9,100.00	89.89	90.30	7,042.21	-1,036.66	2,316.61	2,322.00	0.00	0.00	0.00
9,200.00	89.89	90.30	7,042.41	-1,037.18	2,416.60	2,422.00	0.00	0.00	0.00
9,300.00	89.89	90.30	7,042.61	-1,037.70	2,516.60	2,522.00	0.00	0.00	0.00
9,400.00	89.89	90.30	7,042.81	-1,038.23	2,616.60	2,622.00	0.00	0.00	0.00
9,500.00	89.89	90.30	7,043.00	-1,038.75	2,716.60	2,722.00	0.00	0.00	0.00
9,600.00	89.89	90.30	7,043.20	-1,039.27	2,816.60	2,822.00	0.00	0.00	0.00
9,700.00	89.89	90.30	7,043.40	-1,039.80	2,916.60	2,922.00	0.00	0.00	0.00
9,800.00	89.89	90.30	7,043.60	-1,040.32	3,016.60	3,022.00	0.00	0.00	0.00
9,900.00	89.89	90.30	7,043.80	-1,040.84	3,116.59	3,122.00	0.00	0.00	0.00
10,000.00	89.89	90.30	7,044.00	-1,041.37	3,216.59	3,222.00	0.00	0.00	0.00
10,100.00	89.89	90.30	7,044.20	-1,041.89	3,316.59	3,322.00	0.00	0.00	0.00
10,200.00	89.89	90.30	7,044.39	-1,042.41	3,416.59	3,422.00	0.00	0.00	0.00
10,300.00	89.89	90.30	7,044.59	-1,042.94	3,516.59	3,522.00	0.00	0.00	0.00
10,400.00	89.89	90.30	7,044.79	-1,043.46	3,616.59	3,622.00	0.00	0.00	0.00
10,500.00	89.89	90.30	7,044.99	-1,043.99	3,716.58	3,722.00	0.00	0.00	0.00
10,600.00	89.89	90.30	7,045.19	-1,044.51	3,816.58	3,822.00	0.00	0.00	0.00
10,700.00	89.89	90.30	7,045.39	-1,045.03	3,916.58	3,922.00	0.00	0.00	0.00
10,800.00	89.89	90.30	7,045.59	-1,045.56	4,016.58	4,022.00	0.00	0.00	0.00
10,900.00	89.89	90.30	7,045.78	-1,046.08	4,116.58	4,122.00	0.00	0.00	0.00
11,000.00	89.89	90.30	7,045.98	-1,046.60	4,216.58	4,222.00	0.00	0.00	0.00
11,100.00	89.89	90.30	7,046.18	-1,047.13	4,316.57	4,322.00	0.00	0.00	0.00
11,200.00	89.89	90.30	7,046.38	-1,047.65	4,416.57	4,422.00	0.00	0.00	0.00
11,300.00	89.89	90.30	7,046.58	-1,048.17	4,516.57	4,522.00	0.00	0.00	0.00
11,400.00	89.89	90.30	7,046.78	-1,048.70	4,616.57	4,622.00	0.00	0.00	0.00

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,500.00	89.89	90.30	7,046.98	-1,049.22	4,716.57	4,722.00	0.00	0.00	0.00	
11,600.00	89.89	90.30	7,047.17	-1,049.75	4,816.57	4,822.00	0.00	0.00	0.00	
11,700.00	89.89	90.30	7,047.37	-1,050.27	4,916.57	4,922.00	0.00	0.00	0.00	
11,800.00	89.89	90.30	7,047.57	-1,050.79	5,016.56	5,022.00	0.00	0.00	0.00	
11,900.00	89.89	90.30	7,047.77	-1,051.32	5,116.56	5,122.00	0.00	0.00	0.00	
12,000.00	89.89	90.30	7,047.97	-1,051.84	5,216.56	5,222.00	0.00	0.00	0.00	
12,100.00	89.89	90.30	7,048.17	-1,052.36	5,316.56	5,322.00	0.00	0.00	0.00	
12,200.00	89.89	90.30	7,048.37	-1,052.89	5,416.56	5,422.00	0.00	0.00	0.00	
12,300.00	89.89	90.30	7,048.56	-1,053.41	5,516.56	5,522.00	0.00	0.00	0.00	
12,400.00	89.89	90.30	7,048.76	-1,053.93	5,616.55	5,622.00	0.00	0.00	0.00	
12,500.00	89.89	90.30	7,048.96	-1,054.46	5,716.55	5,722.00	0.00	0.00	0.00	
12,600.00	89.89	90.30	7,049.16	-1,054.98	5,816.55	5,822.00	0.00	0.00	0.00	
12,700.00	89.89	90.30	7,049.36	-1,055.50	5,916.55	5,922.00	0.00	0.00	0.00	
12,800.00	89.89	90.30	7,049.56	-1,056.03	6,016.55	6,022.00	0.00	0.00	0.00	
12,900.00	89.89	90.30	7,049.76	-1,056.55	6,116.55	6,121.99	0.00	0.00	0.00	
13,000.00	89.89	90.30	7,049.95	-1,057.08	6,216.55	6,221.99	0.00	0.00	0.00	
13,100.00	89.89	90.30	7,050.15	-1,057.60	6,316.54	6,321.99	0.00	0.00	0.00	
13,200.00	89.89	90.30	7,050.35	-1,058.12	6,416.54	6,421.99	0.00	0.00	0.00	
13,300.00	89.89	90.30	7,050.55	-1,058.65	6,516.54	6,521.99	0.00	0.00	0.00	
13,400.00	89.89	90.30	7,050.75	-1,059.17	6,616.54	6,621.99	0.00	0.00	0.00	
13,500.00	89.89	90.30	7,050.95	-1,059.69	6,716.54	6,721.99	0.00	0.00	0.00	
13,600.00	89.89	90.30	7,051.14	-1,060.22	6,816.54	6,821.99	0.00	0.00	0.00	
13,700.00	89.89	90.30	7,051.34	-1,060.74	6,916.53	6,921.99	0.00	0.00	0.00	
13,800.00	89.89	90.30	7,051.54	-1,061.26	7,016.53	7,021.99	0.00	0.00	0.00	
13,900.00	89.89	90.30	7,051.74	-1,061.79	7,116.53	7,121.99	0.00	0.00	0.00	
14,000.00	89.89	90.30	7,051.94	-1,062.31	7,216.53	7,221.99	0.00	0.00	0.00	
14,100.00	89.89	90.30	7,052.14	-1,062.84	7,316.53	7,321.99	0.00	0.00	0.00	
14,200.00	89.89	90.30	7,052.34	-1,063.36	7,416.53	7,421.99	0.00	0.00	0.00	
14,300.00	89.89	90.30	7,052.53	-1,063.88	7,516.52	7,521.99	0.00	0.00	0.00	
14,400.00	89.89	90.30	7,052.73	-1,064.41	7,616.52	7,621.99	0.00	0.00	0.00	
14,500.00	89.89	90.30	7,052.93	-1,064.93	7,716.52	7,721.99	0.00	0.00	0.00	
14,600.00	89.89	90.30	7,053.13	-1,065.45	7,816.52	7,821.99	0.00	0.00	0.00	
14,700.00	89.89	90.30	7,053.33	-1,065.98	7,916.52	7,921.99	0.00	0.00	0.00	
14,800.00	89.89	90.30	7,053.53	-1,066.50	8,016.52	8,021.99	0.00	0.00	0.00	
14,900.00	89.89	90.30	7,053.73	-1,067.02	8,116.52	8,121.99	0.00	0.00	0.00	
15,000.00	89.89	90.30	7,053.92	-1,067.55	8,216.51	8,221.99	0.00	0.00	0.00	
15,100.00	89.89	90.30	7,054.12	-1,068.07	8,316.51	8,321.99	0.00	0.00	0.00	
15,200.00	89.89	90.30	7,054.32	-1,068.59	8,416.51	8,421.99	0.00	0.00	0.00	
15,300.00	89.89	90.30	7,054.52	-1,069.12	8,516.51	8,521.99	0.00	0.00	0.00	
15,400.00	89.89	90.30	7,054.72	-1,069.64	8,616.51	8,621.99	0.00	0.00	0.00	
15,500.00	89.89	90.30	7,054.92	-1,070.17	8,716.51	8,721.99	0.00	0.00	0.00	
15,600.00	89.89	90.30	7,055.12	-1,070.69	8,816.50	8,821.99	0.00	0.00	0.00	
15,700.00	89.89	90.30	7,055.31	-1,071.21	8,916.50	8,921.99	0.00	0.00	0.00	
15,800.00	89.89	90.30	7,055.51	-1,071.74	9,016.50	9,021.99	0.00	0.00	0.00	
15,900.00	89.89	90.30	7,055.71	-1,072.26	9,116.50	9,121.99	0.00	0.00	0.00	
16,000.00	89.89	90.30	7,055.91	-1,072.78	9,216.50	9,221.99	0.00	0.00	0.00	
16,100.00	89.89	90.30	7,056.11	-1,073.31	9,316.50	9,321.99	0.00	0.00	0.00	
16,200.00	89.89	90.30	7,056.31	-1,073.83	9,416.50	9,421.99	0.00	0.00	0.00	
16,300.00	89.89	90.30	7,056.51	-1,074.35	9,516.49	9,521.99	0.00	0.00	0.00	
16,400.00	89.89	90.30	7,056.70	-1,074.88	9,616.49	9,621.99	0.00	0.00	0.00	
16,500.00	89.89	90.30	7,056.90	-1,075.40	9,716.49	9,721.99	0.00	0.00	0.00	
16,549.00	89.89	90.30	7,057.00	-1,075.66	9,765.49	9,770.99	0.00	0.00	0.00	
TD at 16549.00										

SDT
Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well Rosa Unit 556H
Company:	Logos Operating LLC	TVD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Project:	Rio Arriba, NM (NAD83)	MD Reference:	6433.5+25 @ 6458.50usft (H&P 257)
Site:	Rosa Unit 5	North Reference:	True
Well:	Rosa Unit 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 4		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
RU 556H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,153,894.20	2,829,074.91	36.918586	-107.470774
RU 556H KOP - plan hits target center - Point	0.00	0.00	6,418.21	-924.21	65.06	2,152,970.24	2,829,143.48	36.916048	-107.470552
RU 556H POE - plan hits target center - Point	0.00	0.00	7,039.00	-1,028.19	699.85	2,152,868.68	2,829,778.66	36.915762	-107.468380
RU 556H PBHL - plan hits target center - Point	0.00	0.00	7,057.00	-1,075.66	9,765.49	2,152,855.67	2,838,844.41	36.915627	-107.437369

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,452.40	2,431.00	Ojo Alamo		0.00		
2,570.94	2,548.00	Kirtland		0.00		
2,979.25	2,951.00	Fruitland		0.00		
3,093.74	3,064.00	T/Coals		0.00		
3,293.34	3,261.00	B/Coals		0.00		
3,472.68	3,438.00	Pictured Cliffs		0.00		
3,593.25	3,557.00	Lewis		0.00		
4,740.17	4,689.00	Chacra		0.00		
5,195.09	5,138.00	U/Cliff House		0.00		
5,527.42	5,466.00	Cliff House		0.00		
5,573.01	5,511.00	Menefee		0.00		
5,795.91	5,731.00	Point Lookout		0.00		
6,314.67	6,243.00	Mancos		0.00		
6,976.02	6,849.00	Black Top		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
500.00	500.00	0.00	0.00	Start Build 2.00	
962.70	960.69	-37.19	2.62	Start 5529.48 hold at 962.70 MD	
6,492.19	6,418.21	-924.21	65.06	Start DLS 9.00 TFO -85.75	
7,483.22	7,039.00	-1,028.19	699.85	Start 9065.78 hold at 7483.22 MD	
16,549.00	7,057.00	-1,075.66	9,765.49	TD at 16549.00	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-045-38440	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 556H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC	Ground Level Elevation 6434'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	9	31N	6W		995' NORTH	1880' WEST	36.918586° N	107.470774° W	SAN JUAN

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	11	31N	6W		2106' NORTH	1127' WEST	36.915627° N	107.437369° W	RIO ARRIBA

Dedicated Acres SEC 9: SE/NW, SW/NE & SE/NE (120 AC.); SEC 10: S/2 N/2 (160 AC.); SEC 11: SW/NW (40 AC.) = 320 ACRES	Infill or Defining Well Infill	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code Unitization
Order Numbers: R-13457	Well Setbacks are under Common Ownership: ☐ Yes ☒ No			

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
F	9	31N	6W		1919' NORTH	1946' WEST	36.916047° N	107.470551° W	SAN JUAN

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
F	9	31N	6W		2023' NORTH	2581' WEST	36.915762° N	107.468380° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
E	11	31N	6W		2106' NORTH	1127' WEST	36.915627° N	107.437369° W	RIO ARRIBA

Unitized Area or Area of Uniform Interest ROSA	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
--	--	------------------------

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Etta Trujillo

Signature

3/13/2025

Date

Etta Trujillo

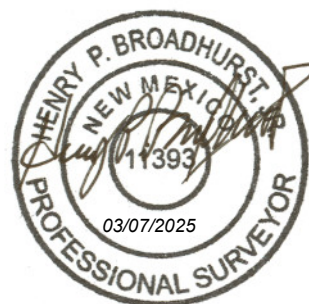
Printed Name

etrujillo@logosresourcesllc.com

E-mail Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor:

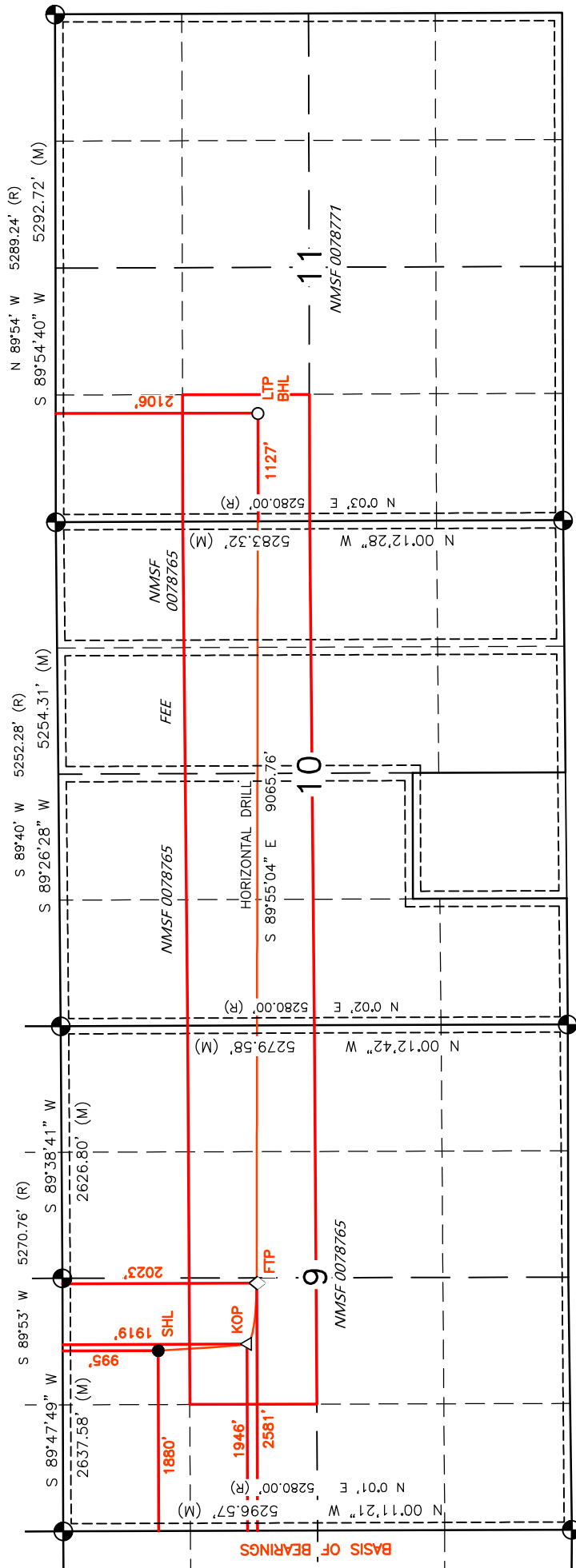
Certificate Number

11393

Date of Survey

FEBRUARY 26, 2025

Note: 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.



SURFACE LOCATION (SHL)	KICK OFF POINT (KOP)	FIRST TAKE POINT (FTP)	LAST TAKE POINT (LTP)	BOTTOM HOLE LOCATION (BHL)
995' FNL 1880' FWL SEC. 9, T31N, R6W LAT. 36.918586° N (NAD83) LONG. 107.470774° W (NAD83)	1919' FNL 1946' FWL SEC. 9, T31N, R6W LAT. 36.916047° N (NAD83) LONG. 107.470551° W (NAD83)	2023' FNL 2581' FWL SEC. 9, T31N, R6W LAT. 36.915762° N (NAD83) LONG. 107.468380° W (NAD83)	2106' FNL 1127' FWL SEC. 11, T31N, R6W LAT. 36.915627° N (NAD83) LONG. 107.437369° W (NAD83)	2106' FNL 1127' FWL SEC. 11, T31N, R6W LAT. 36.915627° N (NAD83) LONG. 107.437369° W (NAD83)

ROSA UNIT #556H

SURFACE HOLE LOCATION NMSF 0078765
995' FNL, 1880' FWL
LOCATED IN THE NE/NW OF SECTION 9,
T31N, R6W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.918586°N LONGITUDE: 107.470774°W (NAD83)

PPP-1 (FIRST TAKE POINT) NMSF 0078765
2023' FNL, 2581' FWL
LOCATED IN THE SE/NW OF SECTION 9,
T31N, R6W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.915762°N LONGITUDE: 107.468380°W (NAD83)

PPP-2 NMSF 0078765
2044' FNL, 1' FWL
LOCATED IN THE SW/NW OF SECTION 10,
T31N, R6W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.915723°N LONGITUDE: 107.459196°W (NAD83)

PPP-3 FEE
2073' FNL, 2627' FEL
LOCATED IN THE SW/NE OF SECTION 10,
T31N, R6W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.915684°N LONGITUDE: 107.450210°W (NAD83)

PPP-4 NMSF 0078765
2088' FNL, 1314' FEL
LOCATED IN THE SE/NE OF SECTION 10,
T31N, R6W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.915664°N LONGITUDE: 107.445717°W (NAD83)

PPP-5 NMSF 0078771
2102' FNL, 1' FWL
LOCATED IN THE SW/NW OF SECTION 11,
T31N, R6W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO
LATITUDE: 36.915644°N LONGITUDE: 107.441224°W (NAD83)

PPP-6 (LAST TAKE POINT) NMSF 0078771
2106' FNL, 1127' FWL
LOCATED IN THE SW/NW OF SECTION 11,
T31N, R6W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO
LATITUDE: 36.915627°N LONGITUDE: 107.437369°W (NAD83)

WELL FLAG

LATITUDE: 36.918586° N
LONGITUDE: 107.470774° W
DATUM: NAD83

LOGOS OPERATING, LLC

ROSA UNIT #556H

995' FNL & 1880' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 9,
T31N, R6W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6433', NAVD 88
FINISHED PAD ELEVATION: 6433.5', NAVD 88

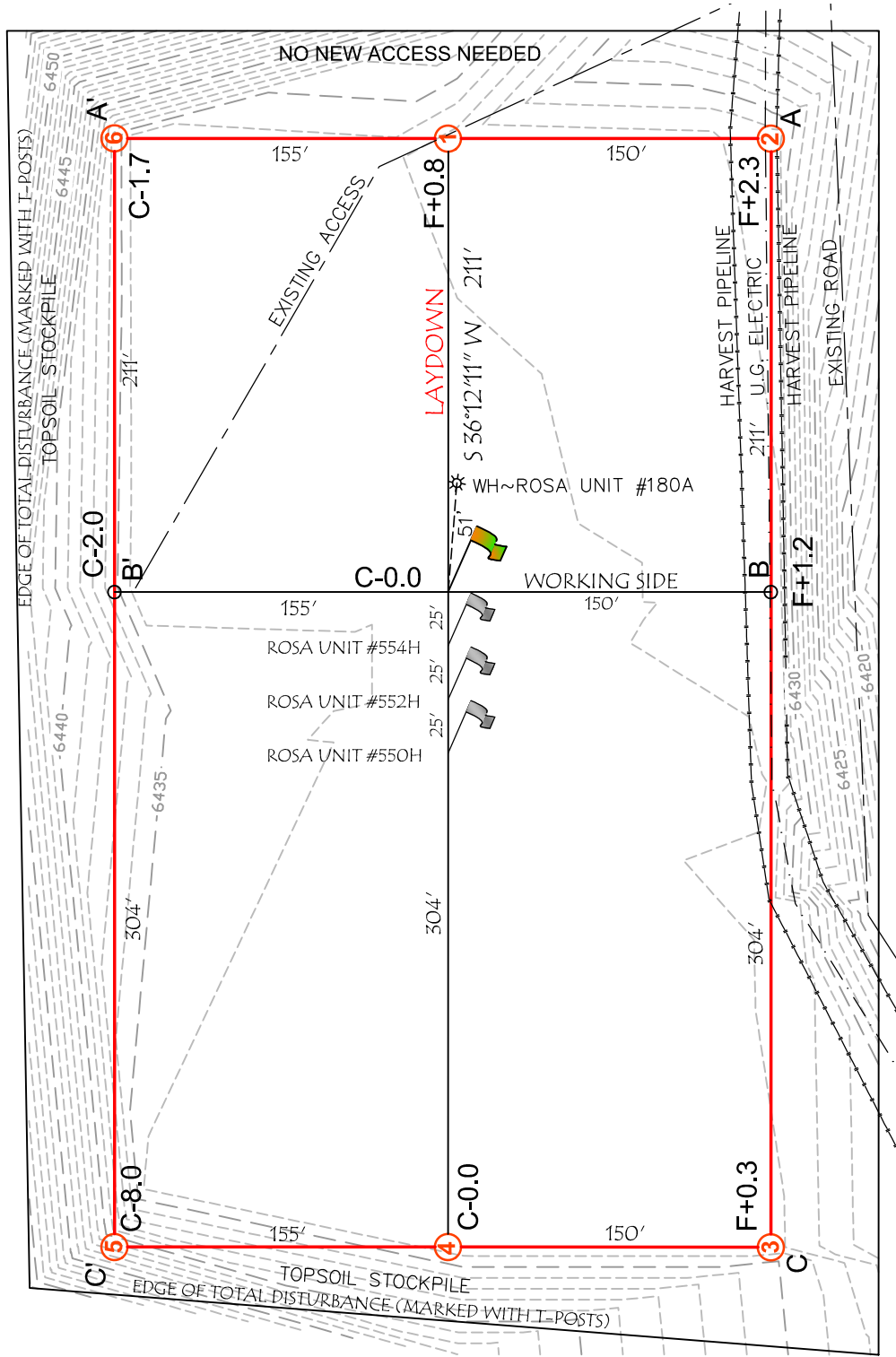
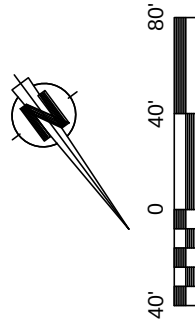
NOTES:

- 1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE NORTHWEST CORNER OF SECTION 9, TOWNSHIP 31 NORTH, RANGE 6 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO. LINE BEARS: N 00°11'21" W A DISTANCE OF 156.6 FEET MEASURED BY GPS. AND BASED ON THE N.M.S.P. COORDINATE SYSTEM (WEST ZONE).
- 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORRS L1 PHASE CENTER. DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83. NAVD88 ELEVATIONS AS PREDICTED BY GEOID03.
- 3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 4.) T-POSTS HAVE BEEN SET TO DEFINE THE EDGE OF DISTURBANCE WHICH ARE 50' OFFSETS FROM THE EDGE OF THE STAKED WELL PAD.

SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

~ SURFACE OWNERSHIP ~	~
BUREAU OF LAND MANAGEMENT	

TOTAL PERMITTED AREA
615' x 400' = 5.647 ACRES
SCALE: 1" = 80'
DATE: 02/27/25
DRAWN BY: GRR



NOTE:
CHENAULT CONSULTING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CCI

CHENAULT CONSULTING INC.
4800 COLLEGE BLVD.
SUITE 201
FARMINGTON, NM 87402
(505)-325-7707

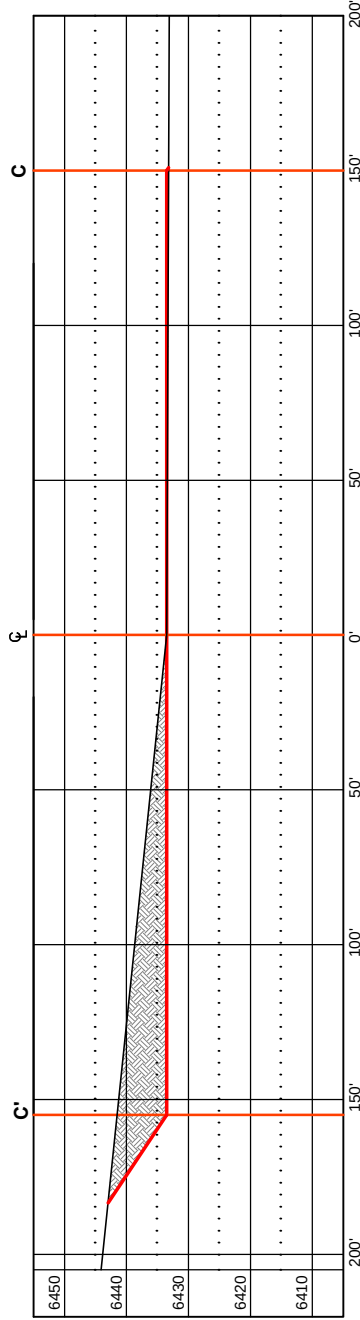
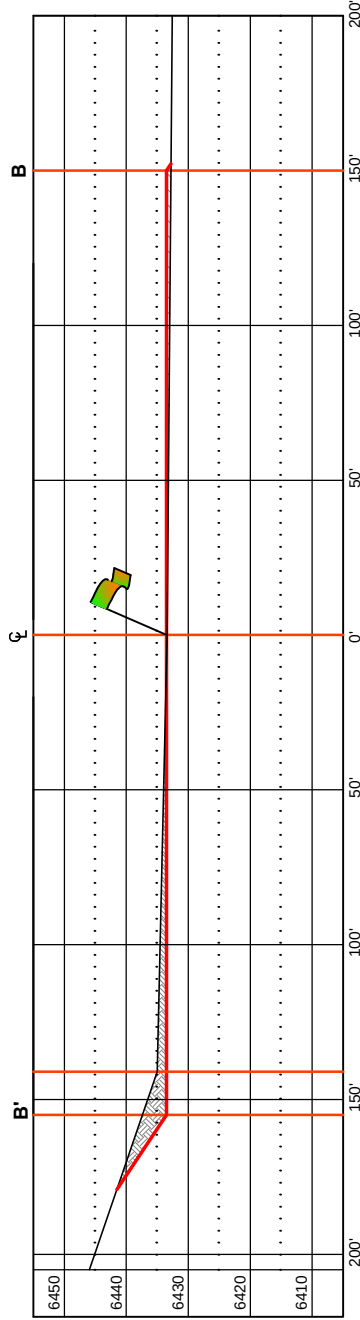
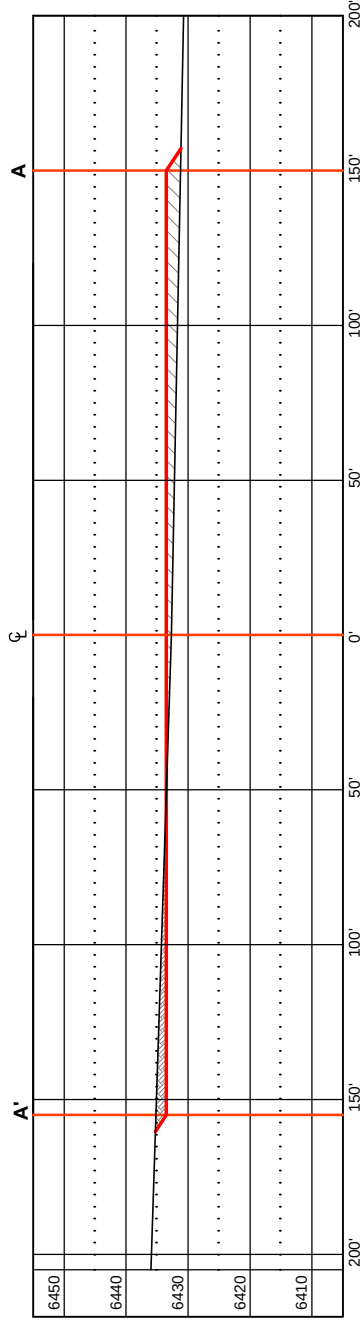
WELL FLAG

LATITUDE: 36.918586° N
LONGITUDE: 107.470774° W
DATUM: NAD83

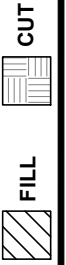
LOGOS OPERATING, LLC
ROSA UNIT #556H

995' FNL & 1880' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 9,
T31N, R6W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6433', NAVD 88
FINISHED PAD ELEVATION: 6433.5', NAVD 88

THIS DIAGRAM IS AN ESTIMATE
OF DIRT BALANCE AND IS NOT
INTENDED TO BE AN EXACT
MEASURE OF VOLUME



VERT. SCALE: 1" = 30'
HORZ. SCALE: 1" = 60'
DATE: 02/27/25
DRAWN BY: GRR



WELL FLAG

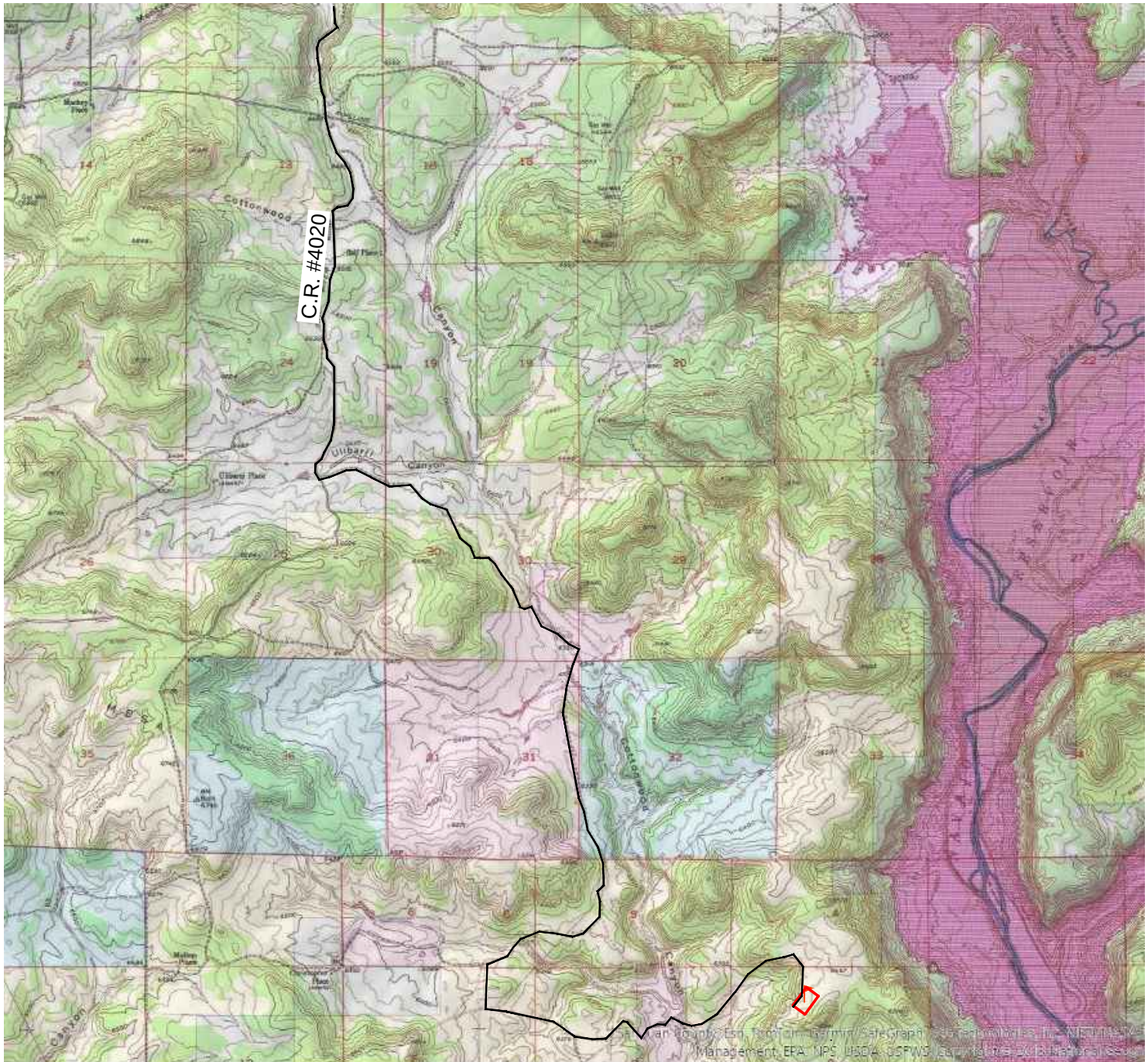
LATITUDE: 36.918586° N
 LONGITUDE: 107.470774° W
 DATUM: NAD83

LOGOS OPERATING, LLC**ROSA UNIT #556H**

995' FNL & 1880' FWL
 LOCATED IN THE NE/4 NW/4 OF SECTION 9,
 T31N, R6W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO
 NO NEW ACCESS NEEDED

OWNERSHIP LEGEND

- BLM
- BOR
- FOREST
- ALLOTTED/TRIBAL
- PRIVATE
- STATE



U.S.G.S. QUAD: BANCOS MESA, NW
 SCALE: 1" = 4000'
 DATE: 02/27/25
 DRAWN BY: GRR

Released to Imaging: 3/28/2025 2:11:39 PM

CCI**CHENAULT CONSULTING INC.**

4800 COLLEGE BLVD.
 SUITE 201
 FARMINGTON, NM 87402
 (505)-325-7707

LOGOS OPERATING, LLC
ROSA UNIT #556H
LOCATED IN THE NE/4 NW/4 OF SECTION 9,
T31N, R6W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HIGHWAY 172 & HIGHWAY 151 IN IGNACIO, CO, GO EAST ON HIGHWAY 151 FOR 12.0 MILES TO COUNTY ROAD #330.
- 2) TURN RIGHT ON COUNTY ROAD #330 FOR 1.9 MILES TO COUNTY ROAD #4020.
- 3) TURN RIGHT ONTO COUNTY ROAD #4020 AND GO 3.9 MILES TO A DIRT ROAD ON THE LEFT.
- 4) TURN LEFT OFF OF COUNTY ROAD #4020 AND GO 1.7 MILES TO A DIRT ROAD ON THE RIGHT.
- 5) TURN RIGHT AND GO 2.0 MILES TO A DIRT ROAD ON THE LEFT.
- 6) TURN LEFT AND GO 0.2 MILES TO A DIRT ROAD ON THE LEFT.
- 7) TURN LEFT AND GO 2.0 MILES TO A DIRT ROAD ON THE LEFT.
- 9) TURN LEFT AND GO TO THE EXISTING ROSA UNIT #180A WELL PAD

WELL FLAG LOCATED AT LAT. 36.918586° N, LONG. 107.470774° W (NAD 83).

DATE: 02/27/25

DRAWN BY: GRR

Released to Imaging: 3/28/2025 2:11:39 PM

CCI


CHENAULT CONSULTING INC.

4800 COLLEGE BLVD.
SUITE 201
FARMINGTON, NM 87402
(505)-325-7707

WELL FLAG

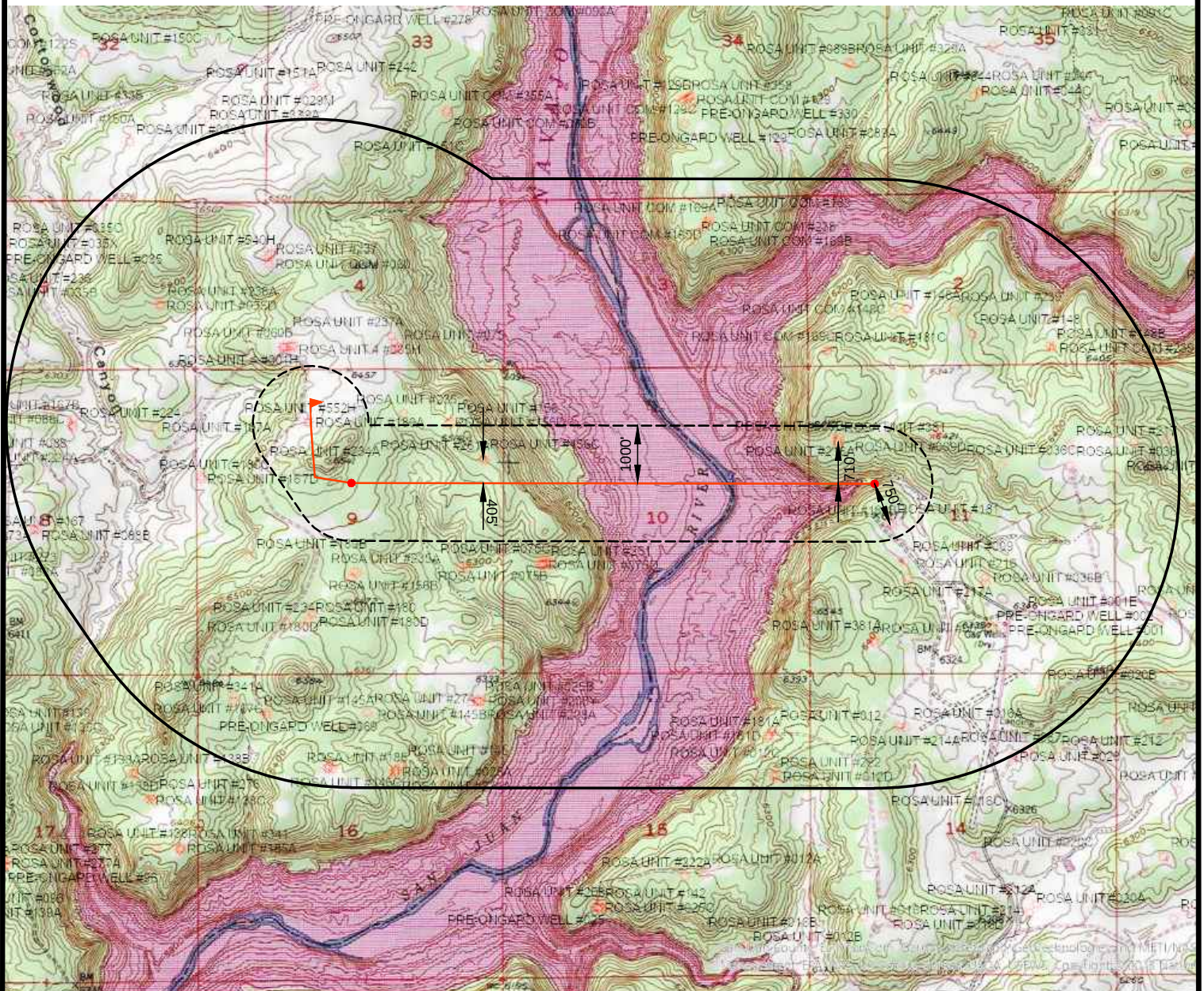
LATITUDE: 36.918586° N
 LONGITUDE: 107.470774° W
 DATUM: NAD83

LOGOS OPERATING, LLC**ROSA UNIT #556H**

995' FNL & 1880' FWL
 LOCATED IN THE NE/4 NW/4 OF SECTION 9,
 T31N, R6W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO

WELL LOCATION MAP**WELL LEGEND**

- GAS
- ABANDONED GAS
- INJECTION
- ABANDONED
- OIL
- ABANDONED OIL
- SALT WATER INJECTION
- ABANDONED SALT WATER INJ



0 .25 .5
 SCALE = 1" = 1/2 MILE

CCI**CHENAULT CONSULTING INC.**

4800 COLLEGE BLVD.
 SUITE 201
 FARMINGTON, NM 87402
 (505)-325-7707

DATE: 02/27/25

DRAWN BY: GRR

Released to: Imaging: 3/28/2025 2:11:39 PM



LOGOS Operating, LLC Operations Plan

Note: This procedure will be adjusted onsite based upon actual conditions

Date:	March 6th, 2025	Pool:	Basin Mancos
Well Name:	Rosa Unit 556H	GL Elevation:	6,434'
Surface Location:	Sec 9, T31N, R6W 995' FNL, 1880' FWL (36.918586° N, -107.470774° W – NAD83)	KB:	25'
Bottom Hole Location:	Sec 11, T31N, R6W 2106' FNL, 1127' FWL (36.915627° N, -107.437369° W – NAD83)	Measured Depth:	16,549 (KB)
Lease Serial CA Serial	# NMSF078765 # NMNM78407E	County:	San Juan / Rio Arriba

I. GEOLOGY

A. Formation Tops (Based on KB Elevation): Estimated top of important geological markers:
SURFACE FORMATION – NACIMIENTO

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	2452'	2431'	*POINT LOOKOUT	5796'	5731'
KIRTLAND	2571'	2548'	*MANCOS	6315'	6243'
*FRUITLAND	2979'	2951'	KICKOFF POINT	6492'	6418'
*PICTURED CLIFFS	3473'	3438'	LANDING POINT	7483'	7039'
LEWIS	3593'	3557'	TD	16,549'	7057'
CHACRA	4740'	4689'			
*CLIFF HOUSE	5527'	5466'			
MENEFEE	5573'	5511'			

* indicates depth at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered.

B. MUD LOGGING PROGRAM: Mudlogger on location from KOP to TD.

C. LOGGING PROGRAM: LWD GR from surface casing to TD.

D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: LSND mud (WBM) will be used to drill the 26"/24" conductor hole. LSND (WBM) will be used to drill the 17-1/2" surface hole and 12-1/4" intermediate hole. A LSND (WBM) or (OBM) will be used to drill the 8-1/2" curve and lateral portion of the wellbore. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

Above ground steel pits will be used for fluid and cuttings while drilling. In the unlikely event that a tank develops a leak, upon immediate visual discovery, the fluid would be transferred to another tank and contaminated soil would be removed and disposed. Any leaks, spills or other undesirable events will be reported in accordance with BLM NTL 3A. Rig crews will monitor the tanks at all times.



- B. BOP TESTING:** The BOPE will be tested to **250 psi (Low) for 5 minutes** and **3000 psi (High) for 10 minutes**. Pressure test surface casing to **1500 psi for 30 minutes** and intermediate casing to **1500 psi for 30 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. BOP equipment will be tested every 30 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe and blind rams shall be activated each trip or but not more than once a day. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE. **All tests and inspections will be recorded and logged with time and results.** A full BOP test will be conducted when initially installed for the first well on the pad or if seals subject to test pressure are broken, following related repairs and at a minimum of 30 day intervals. A BOPE Shell Test only will be conducted for subsequent wells on the pad when seals subject to pressure have not been broken or repaired and fall within the 30 day interval of first full test.
- C. GeoHazards:** There are no Geohazards
- D. Maximum Anticipated Pressure:** 7,057' TVD x 0.43 = 3,035 psi
- E. H2S Concerns:** There is no record of any naturally occurring H2S in any formation in the Rosa Unit. No H2S is anticipated in this formation or this well.

III. MATERIALS

A. CASING EQUIPMENT:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
CONDUCTOR	26" or 24"	320' or greater (GL)	20"	94 LBS	J-55 or equiv	LTC/BTC
SURFACE	17.5"	3,523'	13.375"	54.5 LBS	J-55 or equiv	LTC/BTC
INTERMEDIATE	12.25"	6,425'	9.625"	43.5 LBS	N-80 or equiv	LTC/BTC
PRODUCTION	8.5"	16,549	5.5"	20 LBS	P-110 or equiv	LTC/BTC

NOTE: All casing depths are approximate, based on KB elevation and will be based on drilling conditions +/- 50'. Weights, grades and connections will be based on availability and may vary but will be equivalent or greater.

B. FLOAT EQUIPMENT:

- 1. CONDUCTOR CASING:** 20" cement nose guide shoe. Place float collar 1 joint above shoe. Run (1) standard centralizer on each of the bottom (3) joints of casing.
- 2. SURFACE CASING:** 13-3/8" cement nose guide shoe with float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,000ft., 1,500 ft., 1,000 ft., and 500ft.
 - Casing will be kept fluid filled during drilling
- 3. INTERMEDIATE CASING:** 9-5/8" cement float shoe. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. Optional use of DV Tools (2) will be strategically placed above loss circulation zones anticipated in the Mesaverde and Fruitland Coal. Optional use of cancelation plugs for DV tools may be used if losses while cementing are not encountered. Optional use of an ICP may be used in conjunction with DV Tools.
- 4. PRODUCTION CASING:** Run 5-1/2" casing with cement nose guide Float Shoe, 5-1/2" full or pup joints as necessary, Landing Collar, 5-1/2" full or pup joints as necessary, at least (1) one Toe Sleeve (Sliding Sleeve) positioned inside the applicable production area. Centralizer program will be determined by wellbore conditions. Production casing to be pressure tested



during completion operations with frac stack installed.

C. CEMENTING:

(Note: Cement type and volumes may be adjusted onsite due to actual conditions and availability)

1. CONDUCTOR: Casing shall be set at ~ 320'(GL) and cemented to surface. TOC at Surface.

Conductor - 20"	Top	Footage	Cement (ft3/ft) Annular Capacity	Excess (30%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Type G	-	320	0.9599	1.3	449	80	1.10	408	15.8
Type III		320	0.9599	1.3	449	80	1.39	323	14.6

24" hole

Set Depth (GL) 320

2. SURFACE: Casing shall be kept fluid-filled while running into the hole to meet BLM minimum collapse requirements. The surface casing will be cemented in 1 stage. If cement does not circulate to the surface, a CBL will be run to determine TOC.

Surface - 13-3/8"	Top	Footage	Cement (ft3/ft) Annular Capacity	Excess (30%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Stage 1 Tail	2,923	600	0.6947	1	450	80	1.160	388	15.8
Stage 1 Lead - OH	320	2,603	0.6947	1.25	2,260	403	2.665	848	11.8
Stage 2 Lead - Cased	-	320	1.019	1.25	408	73	2.665	153	11.8
					3,118	555		1389	

Set Depth 3523

3. INTERMEDIATE : Casing shall be kept fluid filled while running in to the hole to meet BLM minimum collapse requirements. The intermediate casing will be cemented in 2 or 3 stages using DV/STAGE tools in order to reduce cement losses and maximize cement coverage. Operator proposes optional DV tools and optional ICP's above anticipated loss circulation zones in the Mesaverde and in the Fruitland coal. If losses are not observed during the second stage a cancelation plug will be pumped and the remaining cement will be pumped during stage 2. If cement does not circulate to the DV tool(s) or to surface, a CBL will be run to determine

Intermediate - 9-5/8"	Top	Footage	Cement (ft3/ft) Annular Capacity	Excess (30%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Stage 1 Tail	5,925	500	0.3132	1.3	220	39	1.160	190	15.8
Stage 1 Lead	4,815	1,110	0.3132	1.3	452	80	2.665	170	11.8
					672	120		359	
Stage 2 Tail	4,215	600	0.3132	1.3	244	44	1.760	139	13.5
Stage 2 Lead	3,423	792	0.3132	1.3	323	57	2.665	121	11.8
Stage 2 Lead - Cased	3,323	100	0.3627	1	36	6	2.665	14	11.8
Stage 2 Totals					603	107		273	
Int 2 Totals					1,275	227		633	
Contingency									
Stage 3 Tail	3,523	75	0.3132	1.3	31	5	1.76	17	13.5
Stage 3 Tail - Cased	3,023	500	0.3490	1	175	31	1.76	99	13.5
Stage 3 Lead - Cased	-	3,023	0.3490	1	1,055	188	2.660	397	12.5
Contingency Stage 3 Totals					1,260	224		513	

Set Depth 6425



TOC. Calculations based on 30% excess for open hole and cement to surface. Actual excess pumped will be determined by well conditions.

4. **PRODUCTION:** Casing will be cemented in 1 stage with 100' of cement overlap above intermediate shoe. A CBL, or alternatively, a Temperature Survey will be used to determine TOC.

Production - 5-1/2"	Top	ft	Cement (ft3/ft) Annular Capacity	Excess (15%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Cased Lead	6,325	100	0.2531	1	25	5	1.98	13	13.2
Open Hole Lead	6,425	10,124	0.2291	1.15	2,673	476	1.98	1,350	13.2
					2,698	481		1,363	

Set depth 16549

Calculations based on 15% excess for open hole and 100' overlap into intermediate casing. Actual volumes will vary.

Cement calculations are used for volume estimation. Well conditions will dictate final cement job design. Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected. All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

IV. **COMPLETION**

A. **CBL**

CBLs and/or Temperature Surveys will be performed as needed or required to determine cement top if cement is not circulated.

B. **PRESSURE TEST**

- C. Pressure test 5-1/2" casing to 0.22 psi/ft * 7,057' TVD = 1553 psi for 30 minutes. Increase pressure to Open RSI sleeves.

D. **STIMULATION**

Stimulate with sand and water. Isolate stages with flow through or dissolvable frac plugs. Drill out frac plugs and flowback lateral.

E. **PRODUCTION TUBING**

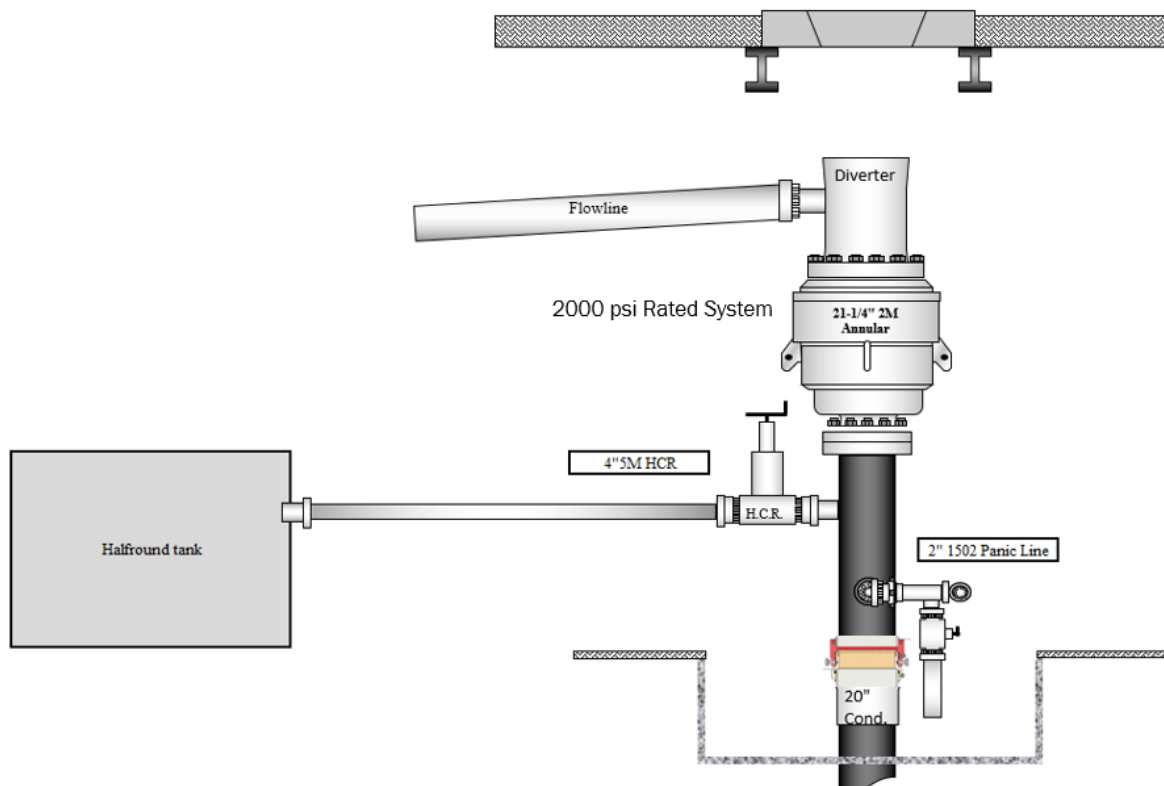
2-7/8", 6.5#, J-55 or L-80, EUE tubing will be run once volumes and pressures dictate. Due to the extremely high initial flow rates and pressures seen in offset wells, tubing will be installed once it is safe to do so, typically 12-36 months after completion.

*NOTE: Although this horizontal well may be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 8(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 8(2) NMAC, 19.15.16.15 8(2)NMAC, and 19.15.16.15. 8(4) NMAC.



BOP Equipment

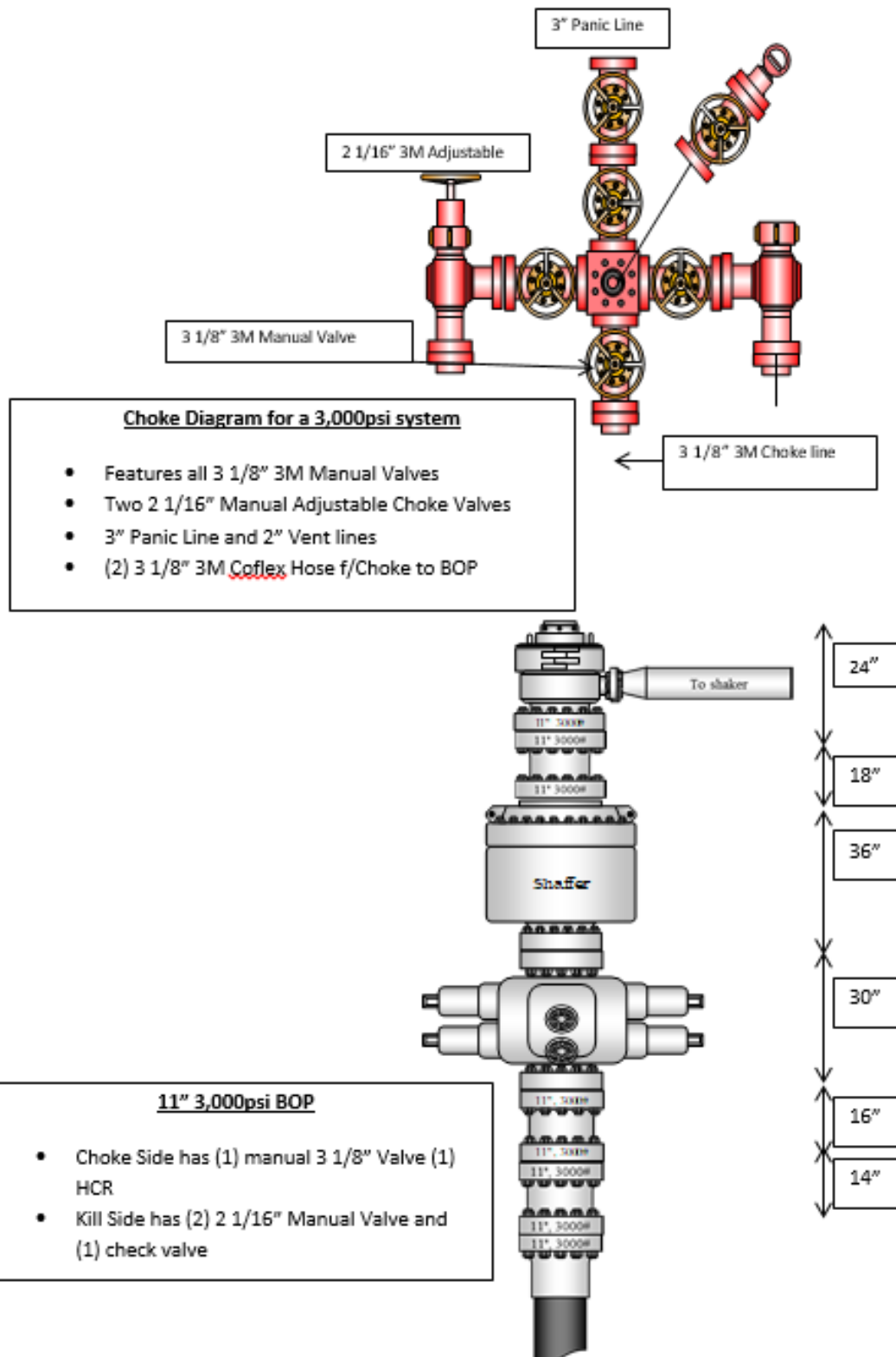
Surface Hole Diverter:





BOP:

3M 11" B.O.P.E Diagram



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 442303

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 442303
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/28/2025