

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-02956
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator MORNINGSTAR OPERATING LLC		6. State Oil & Gas Lease No.
3. Address of Operator 400 W 7TH ST, FORT WORTH, TX 76102		7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
4. Well Location Unit Letter <u>O</u> : <u>660</u> feet from the <u>S</u> line and <u>1980</u> feet from the <u>E</u> line Section <u>31</u> Township <u>17S</u> Range <u>35E</u> NMPM County <u>LEA</u>		8. Well Number <u>086</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3968		9. OGRID Number 330132
		10. Pool name or Wildcat VACUUM; GRAYBURG-SAN ANDRES

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☒
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

This is the Subsequent Report for WO NOI, ID#166056:

MIRU 01/19/2023. Repair of the casing issue was attempted, but unable to be completed.

String mill was unable to work through beyond 2750'.

Downhole camera was run to 2756' and no noticeable casing parts or damage was found other than deviation.

A gyro survey at 5' intervals found significant casing bend/torque at 2745' - 2750'.

RDMO 1/27/2023.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Connie Blaylock TITLE Regulatory Analyst DATE 01/26/2024

Type or print name Connie Blaylock E-mail address: cblaylock@txoenergy.com PHONE: 817-334-7882

For State Use Only

APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 1/29/24

Conditions of Approval (if any):



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
 Long: -103.49487

Date: 01/27/23
 Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	500.00	0.62	61.13	500	499.99	1.31	1.31 N	2.37 E	2.71	61.13	0.12	0.12	12.23
	525.00	0.49	70.01	25	524.99	1.41	1.41 N	2.59 E	2.95	61.45	0.62	-0.52	35.52
	550.00	0.53	82.81	25	549.99	1.46	1.46 N	2.80 E	3.16	62.50	0.48	0.16	51.20
	575.00	0.62	84.04	25	574.99	1.49	1.49 N	3.05 E	3.40	64.02	0.36	0.36	4.92
	600.00	0.75	87.70	25	599.98	1.51	1.51 N	3.35 E	3.67	65.77	0.55	0.52	14.64
	625.00	0.80	84.69	25	624.98	1.53	1.53 N	3.69 E	3.99	67.45	0.26	0.20	-12.04
	650.00	0.78	84.46	25	649.98	1.56	1.56 N	4.03 E	4.32	68.80	0.08	-0.08	-0.92
	675.00	0.64	84.60	25	674.98	1.59	1.59 N	4.34 E	4.62	69.84	0.56	-0.56	0.56
	700.00	0.59	76.04	25	699.98	1.64	1.64 N	4.60 E	4.89	70.42	0.42	-0.20	-34.24
	725.00	0.54	80.97	25	724.98	1.69	1.69 N	4.84 E	5.13	70.80	0.28	-0.20	19.72
	750.00	0.47	84.77	25	749.97	1.71	1.71 N	5.06 E	5.35	71.29	0.31	-0.28	15.20
	775.00	0.32	89.76	25	774.97	1.72	1.72 N	5.23 E	5.51	71.77	0.62	-0.60	19.96
	800.00	0.22	117.39	25	799.97	1.70	1.70 N	5.35 E	5.61	72.34	0.65	-0.40	110.52
	825.00	0.22	95.08	25	824.97	1.68	1.68 N	5.44 E	5.69	72.87	0.34	0.00	-89.24
	850.00	0.22	129.59	25	849.97	1.64	1.64 N	5.52 E	5.76	73.45	0.52	0.00	138.04
	875.00	0.28	136.03	25	874.97	1.57	1.57 N	5.60 E	5.82	74.37	0.26	0.24	25.76
	900.00	0.35	125.77	25	899.97	1.48	1.48 N	5.71 E	5.89	75.48	0.36	0.28	-41.04
	925.00	0.51	125.68	25	924.97	1.37	1.37 N	5.86 E	6.02	76.85	0.64	0.64	-0.36
	950.00	0.45	117.85	25	949.97	1.26	1.26 N	6.04 E	6.17	78.23	0.36	-0.24	-31.32
	975.00	0.47	107.10	25	974.97	1.18	1.18 N	6.22 E	6.33	79.24	0.35	0.08	-43.00
	1000.00	0.51	93.00	25	999.97	1.15	1.15 N	6.43 E	6.53	79.90	0.51	0.16	-56.40
	1025.00	0.45	82.12	25	1024.97	1.15	1.15 N	6.64 E	6.74	80.14	0.44	-0.24	-43.52
	1050.00	0.45	83.07	25	1049.97	1.18	1.18 N	6.83 E	6.93	80.21	0.03	0.00	3.80
	1075.00	0.29	81.77	25	1074.97	1.20	1.20 N	6.99 E	7.09	80.26	0.64	-0.64	-5.20
	1100.00	0.28	83.60	25	1099.97	1.22	1.22 N	7.12 E	7.22	80.31	0.05	-0.04	7.32
	1125.00	0.23	96.19	25	1124.97	1.22	1.22 N	7.23 E	7.33	80.44	0.30	-0.20	50.36
	1150.00	0.19	94.51	25	1149.97	1.21	1.21 N	7.32 E	7.42	80.62	0.16	-0.16	-6.72
	1175.00	0.29	110.95	25	1174.97	1.18	1.18 N	7.42 E	7.51	80.94	0.48	0.40	65.76
	1200.00	0.29	106.91	25	1199.97	1.14	1.14 N	7.54 E	7.62	81.39	0.08	0.00	-16.16



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
 Long: -103.49487

Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	1225.00	0.38	114.38	25	1224.97	1.09	1.09 N	7.67 E	7.75	81.92	0.40	0.36	29.88
	1250.00	0.41	120.56	25	1249.97	1.01	1.01 N	7.83 E	7.89	82.65	0.21	0.12	24.72
	1275.00	0.36	119.14	25	1274.96	0.93	0.93 N	7.97 E	8.03	83.38	0.20	-0.20	-5.68
	1300.00	0.19	95.08	25	1299.96	0.88	0.88 N	8.08 E	8.13	83.76	0.81	-0.68	-96.24
	1325.00	0.12	101.29	25	1324.96	0.87	0.87 N	8.15 E	8.20	83.87	0.29	-0.28	24.84
	1350.00	0.06	210.28	25	1349.96	0.86	0.86 N	8.17 E	8.21	84.00	0.60	-0.24	435.96
	1375.00	0.20	238.44	25	1374.96	0.82	0.82 N	8.12 E	8.17	84.21	0.60	0.56	112.64
	1400.00	0.30	244.38	25	1399.96	0.77	0.77 N	8.03 E	8.07	84.50	0.41	0.40	23.76
	1425.00	0.09	192.62	25	1424.96	0.73	0.73 N	7.96 E	8.00	84.80	1.02	-0.84	-207.04
	1450.00	0.18	164.37	25	1449.96	0.67	0.67 N	7.97 E	8.00	85.21	0.44	0.36	-113.00
	1475.00	0.22	119.41	25	1474.96	0.61	0.61 N	8.02 E	8.05	85.67	0.63	0.16	-179.84
	1500.00	0.42	144.64	25	1499.96	0.51	0.51 N	8.12 E	8.13	86.41	0.96	0.80	100.92
	1525.00	0.36	155.80	25	1524.96	0.36	0.36 N	8.20 E	8.21	87.47	0.39	-0.24	44.64
	1550.00	0.43	175.32	25	1549.96	0.20	0.20 N	8.24 E	8.25	88.63	0.60	0.28	78.08
	1575.00	0.36	199.47	25	1574.96	0.03	0.03 N	8.22 E	8.22	89.79	0.72	-0.28	96.60
	1600.00	0.98	239.77	25	1599.96	-0.15	0.15 S	8.01 E	8.02	91.09	2.97	2.48	161.20
	1625.00	0.74	236.06	25	1624.96	-0.35	0.35 S	7.70 E	7.70	92.60	0.99	-0.96	-14.84
	1650.00	0.54	198.58	25	1649.96	-0.55	0.55 S	7.52 E	7.54	94.19	1.81	-0.80	-149.92
	1675.00	0.68	166.18	25	1674.95	-0.81	0.81 S	7.52 E	7.56	96.13	1.46	0.56	-129.60
	1700.00	0.86	145.85	25	1699.95	-1.11	1.11 S	7.66 E	7.74	98.22	1.30	0.72	-81.32
	1725.00	0.92	150.12	25	1724.95	-1.44	1.44 S	7.87 E	8.00	100.34	0.36	0.24	17.08
	1750.00	0.67	150.67	25	1749.95	-1.74	1.74 S	8.04 E	8.22	102.19	1.00	-1.00	2.20
	1775.00	0.35	165.34	25	1774.94	-1.94	1.94 S	8.13 E	8.36	103.41	1.37	-1.28	58.68
	1800.00	0.21	238.08	25	1799.94	-2.04	2.04 S	8.11 E	8.36	104.10	1.40	-0.56	290.96
	1825.00	0.30	254.47	25	1824.94	-2.08	2.08 S	8.01 E	8.27	104.55	0.46	0.36	65.56
	1850.00	0.48	165.78	25	1849.94	-2.20	2.20 S	7.97 E	8.27	105.41	2.24	0.72	-354.76
	1875.00	0.45	162.83	25	1874.94	-2.39	2.39 S	8.03 E	8.38	106.60	0.15	-0.12	-11.80
	1900.00	0.52	137.53	25	1899.94	-2.57	2.57 S	8.13 E	8.53	107.54	0.89	0.28	-101.20
	1925.00	0.45	143.26	25	1924.94	-2.73	2.73 S	8.27 E	8.71	108.29	0.34	-0.28	22.92
	1950.00	0.32	168.18	25	1949.94	-2.88	2.88 S	8.34 E	8.82	109.05	0.84	-0.52	99.68
	1975.00	0.49	180.34	25	1974.94	-3.05	3.05 S	8.35 E	8.89	110.09	0.76	0.68	48.64



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
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Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2000.00	0.64	176.68	25	1999.94	-3.30	3.30 S	8.36 E	8.99	111.55	0.62	0.60	-14.64
	2025.00	0.68	166.54	25	2024.94	-3.58	3.58 S	8.40 E	9.14	113.10	0.49	0.16	-40.56
	2050.00	0.58	157.04	25	2049.94	-3.85	3.85 S	8.49 E	9.32	114.37	0.58	-0.40	-38.00
	2075.00	0.47	155.82	25	2074.93	-4.06	4.06 S	8.58 E	9.49	115.30	0.44	-0.44	-4.88
	2100.00	0.71	165.97	25	2099.93	-4.30	4.30 S	8.66 E	9.67	116.41	1.04	0.96	40.60
	2125.00	0.38	165.50	25	2124.93	-4.53	4.53 S	8.72 E	9.82	117.46	1.32	-1.32	-1.88
	2150.00	0.42	174.17	25	2149.93	-4.70	4.70 S	8.75 E	9.93	118.26	0.29	0.16	34.68
	2175.00	0.47	176.32	25	2174.93	-4.89	4.89 S	8.76 E	10.04	119.19	0.21	0.20	8.60
	2200.00	0.51	172.27	25	2199.93	-5.11	5.11 S	8.78 E	10.16	120.18	0.21	0.16	-16.20
	2225.00	0.69	158.89	25	2224.93	-5.36	5.36 S	8.85 E	10.35	121.18	0.91	0.72	-53.52
	2250.00	0.58	152.95	25	2249.93	-5.61	5.61 S	8.97 E	10.58	122.04	0.51	-0.44	-23.76
	2275.00	0.45	147.29	25	2274.93	-5.81	5.81 S	9.08 E	10.77	122.61	0.56	-0.52	-22.64
	2300.00	0.37	152.56	25	2299.93	-5.96	5.96 S	9.17 E	10.93	123.04	0.35	-0.32	21.08
	2325.00	0.33	173.85	25	2324.92	-6.10	6.10 S	9.21 E	11.05	123.53	0.54	-0.16	85.16
	2350.00	0.46	169.01	25	2349.92	-6.27	6.27 S	9.24 E	11.17	124.18	0.54	0.52	-19.36
	2375.00	0.49	153.61	25	2374.92	-6.47	6.47 S	9.30 E	11.33	124.81	0.52	0.12	-61.60
	2400.00	0.53	135.46	25	2399.92	-6.65	6.65 S	9.43 E	11.54	125.17	0.66	0.16	-72.60
	2425.00	0.47	137.00	25	2424.92	-6.80	6.80 S	9.58 E	11.75	125.37	0.25	-0.24	6.16
	2450.00	0.40	132.83	25	2449.92	-6.94	6.94 S	9.72 E	11.94	125.53	0.31	-0.28	-16.68
	2475.00	0.38	144.91	25	2474.92	-7.07	7.07 S	9.83 E	12.11	125.71	0.34	-0.08	48.32
	2500.00	0.44	168.83	25	2499.92	-7.23	7.23 S	9.90 E	12.25	126.14	0.72	0.24	95.68
	2525.00	0.43	159.49	25	2524.92	-7.41	7.41 S	9.95 E	12.40	126.68	0.29	-0.04	-37.36
	2550.00	0.00	283.19	25	2549.92	-7.50	7.50 S	9.98 E	12.48	126.91	1.72	-1.72	494.80
	2575.00	0.53	358.69	25	2574.92	-7.38	7.38 S	9.98 E	12.41	126.50	2.12	2.12	302.00
	2600.00	0.86	15.78	25	2599.92	-7.09	7.09 S	10.03 E	12.28	125.25	1.54	1.32	-1371.64
	2625.00	1.27	29.96	25	2624.91	-6.67	6.67 S	10.22 E	12.20	123.12	1.94	1.64	56.72
	2650.00	1.66	37.38	25	2649.90	-6.14	6.14 S	10.57 E	12.23	120.13	1.73	1.56	29.68
	2675.00	1.20	39.23	25	2674.90	-5.65	5.65 S	10.96 E	12.33	117.26	1.85	-1.84	7.40
	2700.00	0.76	34.97	25	2699.89	-5.31	5.31 S	11.22 E	12.41	115.32	1.78	-1.76	-17.04
	2725.00	0.53	47.11	25	2724.89	-5.09	5.09 S	11.40 E	12.49	114.08	1.07	-0.92	48.56
	2750.00	3.15	62.92	25	2749.88	-4.70	4.70 S	12.10 E	12.98	111.24	10.58	10.48	63.24



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 Well: Central Vacuum Unit No. 086
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Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	2250.00	0.45	156.54	2250	2249.98	-8.11	8.11 S	3.52 E	8.84	156.54	0.02	0.02	6.96
	2255.00	0.47	154.41	5	2254.98	-8.14	8.14 S	3.53 E	8.88	156.54	0.53	0.40	-42.60
	2260.00	0.49	151.96	5	2259.98	-8.18	8.18 S	3.55 E	8.92	156.52	0.57	0.40	-49.00
	2265.00	0.51	150.72	5	2264.98	-8.22	8.22 S	3.57 E	8.96	156.49	0.45	0.40	-24.80
	2270.00	0.53	149.86	5	2269.98	-8.26	8.26 S	3.60 E	9.01	156.46	0.43	0.40	-17.20
	2275.00	0.55	151.75	5	2274.98	-8.30	8.30 S	3.62 E	9.05	156.43	0.54	0.40	37.80
	2280.00	0.56	153.96	5	2279.98	-8.34	8.34 S	3.64 E	9.10	156.41	0.47	0.20	44.20
	2285.00	0.58	159.08	5	2284.98	-8.39	8.39 S	3.66 E	9.15	156.42	1.09	0.40	102.40
	2290.00	0.62	164.28	5	2289.98	-8.44	8.44 S	3.68 E	9.20	156.45	1.35	0.80	104.00
	2295.00	0.61	164.52	5	2294.97	-8.49	8.49 S	3.69 E	9.26	156.49	0.21	-0.20	4.80
	2300.00	0.60	164.33	5	2299.97	-8.54	8.54 S	3.71 E	9.31	156.54	0.20	-0.20	-3.80
	2305.00	0.56	163.81	5	2304.97	-8.59	8.59 S	3.72 E	9.36	156.58	0.81	-0.80	-10.40
	2310.00	0.53	163.90	5	2309.97	-8.63	8.63 S	3.73 E	9.41	156.61	0.60	-0.60	1.80
	2315.00	0.50	168.91	5	2314.97	-8.68	8.68 S	3.74 E	9.45	156.66	1.08	-0.60	100.20
	2320.00	0.48	173.76	5	2319.97	-8.72	8.72 S	3.75 E	9.49	156.72	0.92	-0.40	97.00
	2325.00	0.45	177.62	5	2324.97	-8.76	8.76 S	3.75 E	9.53	156.80	0.87	-0.60	77.20
	2330.00	0.42	180.90	5	2329.97	-8.80	8.80 S	3.75 E	9.57	156.89	0.78	-0.60	65.60
	2335.00	0.40	181.40	5	2334.97	-8.83	8.83 S	3.75 E	9.60	156.98	0.41	-0.40	10.00
	2340.00	0.37	182.09	5	2339.97	-8.87	8.87 S	3.75 E	9.63	157.06	0.61	-0.60	13.80
	2345.00	0.35	180.09	5	2344.97	-8.90	8.90 S	3.75 E	9.66	157.14	0.47	-0.40	-40.00
	2350.00	0.34	176.67	5	2349.97	-8.93	8.93 S	3.75 E	9.68	157.20	0.46	-0.20	-68.40
	2355.00	0.31	169.27	5	2354.97	-8.96	8.96 S	3.76 E	9.71	157.25	1.03	-0.60	-148.00
	2360.00	0.29	161.10	5	2359.97	-8.98	8.98 S	3.76 E	9.74	157.27	0.94	-0.40	-163.40
	2365.00	0.30	151.93	5	2364.97	-9.01	9.01 S	3.77 E	9.76	157.27	0.96	0.20	-183.40
	2370.00	0.31	142.96	5	2369.97	-9.03	9.03 S	3.79 E	9.79	157.24	0.97	0.20	-179.40
	2375.00	0.28	141.13	5	2374.97	-9.05	9.05 S	3.80 E	9.81	157.20	0.63	-0.60	-36.60
	2380.00	0.27	137.42	5	2379.97	-9.07	9.07 S	3.82 E	9.84	157.16	0.41	-0.20	-74.20
	2385.00	0.27	129.46	5	2384.97	-9.08	9.08 S	3.84 E	9.86	157.10	0.75	0.00	-159.20
	2390.00	0.27	121.13	5	2389.97	-9.10	9.10 S	3.85 E	9.88	157.03	0.78	0.00	-166.60



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
 Long: -103.49487

Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2395.00	0.35	120.30	5	2394.97	-9.11	9.11 S	3.88 E	9.90	156.94	1.60	1.60	-16.60
	2400.00	0.43	119.14	5	2399.97	-9.13	9.13 S	3.91 E	9.93	156.82	1.61	1.60	-23.20
	2405.00	0.46	124.31	5	2404.97	-9.15	9.15 S	3.94 E	9.96	156.69	1.00	0.60	103.40
	2410.00	0.48	128.87	5	2409.97	-9.17	9.17 S	3.97 E	10.00	156.57	0.85	0.40	91.20
	2415.00	0.48	131.58	5	2414.97	-9.20	9.20 S	4.01 E	10.03	156.47	0.45	0.00	54.20
	2420.00	0.48	134.71	5	2419.97	-9.23	9.23 S	4.04 E	10.07	156.37	0.52	0.00	62.60
	2425.00	0.53	139.59	5	2424.97	-9.26	9.26 S	4.07 E	10.11	156.29	1.32	1.00	97.60
	2430.00	0.57	144.22	5	2429.97	-9.30	9.30 S	4.10 E	10.16	156.23	1.20	0.80	92.60
	2435.00	0.58	145.88	5	2434.97	-9.34	9.34 S	4.12 E	10.21	156.17	0.39	0.20	33.20
	2440.00	0.58	147.94	5	2439.97	-9.38	9.38 S	4.15 E	10.26	156.13	0.42	0.00	41.20
	2445.00	0.59	149.21	5	2444.97	-9.42	9.42 S	4.18 E	10.31	156.09	0.33	0.20	25.40
	2450.00	0.59	150.70	5	2449.97	-9.47	9.47 S	4.20 E	10.36	156.06	0.31	0.00	29.80
	2455.00	0.61	153.34	5	2454.97	-9.52	9.52 S	4.23 E	10.41	156.04	0.68	0.40	52.80
	2460.00	0.62	156.17	5	2459.97	-9.56	9.56 S	4.25 E	10.47	156.03	0.64	0.20	56.60
	2465.00	0.60	156.99	5	2464.97	-9.61	9.61 S	4.27 E	10.52	156.03	0.44	-0.40	16.40
	2470.00	0.59	158.17	5	2469.97	-9.66	9.66 S	4.29 E	10.57	156.04	0.32	-0.20	23.60
	2475.00	0.57	160.70	5	2474.97	-9.71	9.71 S	4.31 E	10.62	156.06	0.65	-0.40	50.60
	2480.00	0.55	163.03	5	2479.97	-9.75	9.75 S	4.33 E	10.67	156.08	0.61	-0.40	46.60
	2485.00	0.59	164.38	5	2484.97	-9.80	9.80 S	4.34 E	10.72	156.12	0.84	0.80	27.00
	2490.00	0.62	165.83	5	2489.97	-9.85	9.85 S	4.35 E	10.77	156.16	0.67	0.60	29.00
	2495.00	0.56	166.45	5	2494.97	-9.90	9.90 S	4.37 E	10.82	156.21	1.21	-1.20	12.40
	2500.00	0.52	167.66	5	2499.97	-9.95	9.95 S	4.38 E	10.87	156.26	0.83	-0.80	24.20
	2505.00	0.45	168.45	5	2504.97	-9.99	9.99 S	4.38 E	10.91	156.30	1.41	-1.40	15.80
	2510.00	0.40	168.89	5	2509.97	-10.03	10.03 S	4.39 E	10.95	156.34	1.00	-1.00	8.80
	2515.00	0.37	162.64	5	2514.97	-10.06	10.06 S	4.40 E	10.98	156.37	1.03	-0.60	-125.00
	2520.00	0.34	156.77	5	2519.97	-10.09	10.09 S	4.41 E	11.01	156.38	0.94	-0.60	-117.40
	2525.00	0.30	153.21	5	2524.97	-10.11	10.11 S	4.42 E	11.04	156.38	0.89	-0.80	-71.20
	2530.00	0.25	130.29	5	2529.97	-10.13	10.13 S	4.44 E	11.06	156.35	2.40	-1.00	-458.40
	2535.00	0.14	117.23	5	2534.97	-10.14	10.14 S	4.45 E	11.08	156.31	2.36	-2.20	-261.20
	2540.00	0.04	87.23	5	2539.97	-10.14	10.14 S	4.46 E	11.08	156.28	2.14	-2.00	-600.00
	2545.00	0.09	39.95	5	2544.97	-10.14	10.14 S	4.46 E	11.08	156.25	1.39	1.00	-945.60



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
 Long: -103.49487

Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2550.00	0.14	355.93	5	2549.97	-10.13	10.13 S	4.46 E	11.07	156.22	1.96	1.00	6319.60
	2555.00	0.20	347.28	5	2554.97	-10.12	10.12 S	4.46 E	11.06	156.20	1.30	1.20	-173.00
	2560.00	0.26	338.51	5	2559.97	-10.10	10.10 S	4.46 E	11.04	156.19	1.39	1.20	-175.40
	2565.00	0.34	339.17	5	2564.97	-10.07	10.07 S	4.45 E	11.01	156.19	1.60	1.60	13.20
	2570.00	0.42	341.20	5	2569.97	-10.04	10.04 S	4.44 E	10.98	156.17	1.62	1.60	40.60
	2575.00	0.52	345.07	5	2574.97	-10.00	10.00 S	4.42 E	10.94	156.15	2.10	2.00	77.40
	2580.00	0.63	349.81	5	2579.97	-9.96	9.96 S	4.41 E	10.89	156.09	2.40	2.20	94.80
	2585.00	0.71	348.59	5	2584.97	-9.90	9.90 S	4.40 E	10.83	156.02	1.63	1.60	-24.40
	2590.00	0.78	347.85	5	2589.97	-9.83	9.83 S	4.39 E	10.77	155.95	1.41	1.40	-14.80
	2595.00	0.89	351.06	5	2594.96	-9.76	9.76 S	4.38 E	10.70	155.86	2.39	2.20	64.20
	2600.00	0.99	353.00	5	2599.96	-9.68	9.68 S	4.36 E	10.62	155.74	2.10	2.00	38.80
	2605.00	0.97	359.19	5	2604.96	-9.60	9.60 S	4.36 E	10.54	155.57	2.15	-0.40	123.80
	2610.00	0.97	4.75	5	2609.96	-9.51	9.51 S	4.36 E	10.46	155.37	1.88	0.00	-7088.80
	2615.00	1.03	11.51	5	2614.96	-9.43	9.43 S	4.37 E	10.39	155.11	2.65	1.20	135.20
	2620.00	1.08	17.81	5	2619.96	-9.34	9.34 S	4.40 E	10.32	154.78	2.52	1.00	126.00
	2625.00	1.11	24.01	5	2624.96	-9.25	9.25 S	4.43 E	10.25	154.40	2.44	0.60	124.00
	2630.00	1.13	29.66	5	2629.96	-9.16	9.16 S	4.48 E	10.19	153.96	2.24	0.40	113.00
	2635.00	1.24	33.16	5	2634.96	-9.07	9.07 S	4.53 E	10.14	153.47	2.63	2.20	70.00
	2640.00	1.34	36.23	5	2639.96	-8.98	8.98 S	4.59 E	10.09	152.91	2.43	2.00	61.40
	2645.00	1.38	38.53	5	2644.96	-8.89	8.89 S	4.67 E	10.04	152.30	1.35	0.80	46.00
	2650.00	1.42	40.03	5	2649.95	-8.79	8.79 S	4.74 E	9.99	151.65	1.08	0.80	30.00
	2655.00	1.37	39.65	5	2654.95	-8.70	8.70 S	4.82 E	9.94	151.00	1.02	-1.00	-7.60
	2660.00	1.32	38.31	5	2659.95	-8.61	8.61 S	4.89 E	9.90	150.37	1.18	-1.00	-26.80
	2665.00	1.26	37.80	5	2664.95	-8.52	8.52 S	4.96 E	9.86	149.77	1.22	-1.20	-10.20
	2670.00	1.18	36.14	5	2669.95	-8.43	8.43 S	5.03 E	9.82	149.19	1.75	-1.60	-33.20
	2675.00	1.08	30.13	5	2674.95	-8.35	8.35 S	5.08 E	9.78	148.67	3.10	-2.00	-120.20
	2680.00	0.99	22.68	5	2679.95	-8.27	8.27 S	5.12 E	9.73	148.23	3.23	-1.80	-149.00
	2685.00	0.93	19.71	5	2684.95	-8.19	8.19 S	5.15 E	9.68	147.83	1.56	-1.20	-59.40
	2690.00	0.85	15.90	5	2689.95	-8.12	8.12 S	5.18 E	9.63	147.48	1.99	-1.60	-76.20
	2695.00	0.77	11.17	5	2694.95	-8.05	8.05 S	5.19 E	9.58	147.17	2.08	-1.60	-94.60
	2700.00	0.69	5.06	5	2699.94	-7.99	7.99 S	5.20 E	9.53	146.92	2.23	-1.60	-122.20



Company: Morning Star Operating
 Well: Central Vacuum Unit No. 086
 Location: Lea Co., New Mexico
 Rig: Pulling Unit

Job Number: 71472
 Grid Corr.: -0.45
 Lat: 32.786053
 Long: -103.49487

Calculation Method: Minimum Curvature
 Vertical Section AZI: _____
 RKB - MSL in feet: _____ Surface _____
 Tie Into: _____ Ground _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2705.00	0.63	355.71	5	2704.94	-7.93	7.93 S	5.20 E	9.48	146.73	2.46	-1.20	7013.00
	2710.00	0.55	345.80	5	2709.94	-7.88	7.88 S	5.19 E	9.44	146.60	2.59	-1.60	-198.20
	2715.00	0.46	335.56	5	2714.94	-7.84	7.84 S	5.18 E	9.39	146.53	2.54	-1.80	-204.80
	2720.00	0.35	323.34	5	2719.94	-7.81	7.81 S	5.16 E	9.36	146.52	2.79	-2.20	-244.40
	2725.00	0.29	314.54	5	2724.94	-7.78	7.78 S	5.15 E	9.33	146.54	1.55	-1.20	-176.00
	2730.00	0.21	297.61	5	2729.94	-7.77	7.77 S	5.13 E	9.31	146.58	2.16	-1.60	-338.60
	2735.00	0.20	286.50	5	2734.94	-7.76	7.76 S	5.11 E	9.30	146.64	0.82	-0.20	-222.20
	2740.00	0.21	268.88	5	2739.94	-7.76	7.76 S	5.09 E	9.28	146.73	1.27	0.20	-352.40
	2745.00	1.57	348.22	5	2744.94	-7.70	7.70 S	5.07 E	9.22	146.62	30.90	27.20	1586.80
	2750.00	2.92	65.98	5	2749.94	-7.58	7.58 S	5.17 E	9.17	145.68	60.15	27.00	-5644.80

District I
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 308446

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 308446
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
kfortner	None	1/29/2024