

Survey Report



Company:	CENTENNIAL RESOURCE DEVELOPME	Local Co-ordinate Reference:	Well AIRSTREAM 24 STATE COM #501H
Project:	LEA COUNTY, NM (NAD 83 - UTM ZONE	TVD Reference:	KB 25' @ 3523.30usft (H&P 650)
Site:	SW SW SEC. 13 T22S T34E	MD Reference:	KB 25' @ 3523.30usft (H&P 650)
Well:	AIRSTREAM 24 STATE COM #501H	North Reference:	True
Wellbore:	JOB #2018-626-650	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM 5000.1 Single User Db

Project	LEA COUNTY, NM (NAD 83 - UTM ZONE 13 - TRUE)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)	Using geodetic scale factor	

Site		SW SW SEC. 13 T22S T34E			
Site Position:		Northing:	11,759,505.51 usft	Latitude:	32.385963
From:	Map	Easting:	2,125,485.31 usft	Longitude:	-103.428183
Position Uncertainty:	0.00 usft	Slot Radius:	1.10000 ft	Grid Convergence:	0.84 °

Well	AIRSTREAM 24 STATE COM #501H					
Well Position	+N/-S	0.00 usft	Northing:	11,759,505.51 usft	Latitude:	32.385963
	+E/-W	0.00 usft	Easting:	2,125,485.31 usft	Longitude:	-103.428183
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,498.30 usft	

Wellbore	JOB #2018-626-650				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/10/2018	6.76	60.22	47,913

Design	FINAL SURVEYS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	188.08	

Survey Program	Date 12/11/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
25.00	15,651.00	FINAL SURVEYS (JOB #2018-626-650)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea 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	3,523.30	0.00	0.00	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	3,498.30	0.00	0.00	0.00	0.00	0.00	0.00
142.00	0.50	295.78	142.00	3,381.30	0.22	-0.46	-0.16	0.43	0.43	0.00
230.00	0.40	277.78	230.00	3,293.30	0.43	-1.11	-0.27	0.20	-0.11	-20.45
316.10	0.50	2.78	316.09	3,207.21	0.85	-1.39	-0.64	0.71	0.12	98.72
410.50	0.20	245.78	410.49	3,112.81	1.19	-1.52	-0.97	0.65	-0.32	-123.94
505.20	1.00	270.78	505.19	3,018.11	1.13	-2.50	-0.77	0.87	0.84	26.40
599.80	1.20	294.78	599.77	2,923.53	1.56	-4.22	-0.95	0.53	0.21	25.37
694.20	1.20	277.78	694.15	2,829.15	2.11	-6.10	-1.23	0.38	0.00	-18.01
788.70	1.40	286.78	788.63	2,734.67	2.58	-8.18	-1.40	0.30	0.21	9.52
883.00	1.10	267.78	882.90	2,640.40	2.87	-10.19	-1.41	0.54	-0.32	-20.15
977.70	1.00	272.78	977.59	2,545.71	2.88	-11.93	-1.17	0.14	-0.11	5.28
1,072.20	1.00	275.78	1,072.07	2,451.23	3.00	-13.57	-1.06	0.06	0.00	3.17

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Site:	SW SW SEC. 13 T22S T34E	MD Reference:	KB 25' @ 3523.30usft (H&P 650)
Well:	AIRSTREAM 24 STATE COM #501H	North Reference:	True
Wellbore:	JOB #2018-626-650	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
1,166.80	1.20	298.78	1,166.66	2,356.64	3.56	-15.26	-1.38	0.51	0.21	24.31
1,261.00	1.40	273.78	1,260.83	2,262.47	4.11	-17.27	-1.64	0.63	0.21	-26.54
1,355.00	1.50	272.78	1,354.80	2,168.50	4.25	-19.65	-1.44	0.11	0.11	-1.06
1,449.00	1.60	278.78	1,448.77	2,074.53	4.51	-22.17	-1.35	0.20	0.11	6.38
1,638.00	1.80	254.78	1,637.69	1,885.61	4.13	-27.64	-0.21	0.39	0.11	-12.70
1,733.10	1.80	270.78	1,732.74	1,790.56	3.76	-30.58	0.57	0.53	0.00	16.82
1,827.00	1.60	275.78	1,826.60	1,696.70	3.91	-33.36	0.81	0.26	-0.21	5.32
1,922.00	1.30	272.78	1,921.57	1,601.73	4.10	-35.75	0.97	0.33	-0.32	-3.16
1,951.00	0.90	273.78	1,950.56	1,572.74	4.13	-36.31	1.01	1.38	-1.38	3.45
SURFACE CASING										
1,965.00	0.92	271.11	1,964.56	1,558.74	4.14	-36.53	1.04	0.35	0.18	-19.09
2,012.00	1.02	263.17	2,011.55	1,511.75	4.09	-37.33	1.19	0.35	0.20	-16.89
2,096.00	2.35	271.28	2,095.52	1,427.78	4.04	-39.79	1.59	1.60	1.58	9.65
2,190.00	6.17	277.88	2,189.24	1,334.06	4.78	-46.72	1.83	4.09	4.06	7.02
2,284.00	9.65	277.24	2,282.33	1,240.97	6.47	-59.55	1.96	3.70	3.70	-0.68
2,378.00	11.01	277.34	2,374.81	1,148.49	8.61	-76.27	2.19	1.45	1.45	0.11
2,472.00	9.59	271.49	2,467.29	1,056.01	9.96	-93.00	3.21	1.87	-1.51	-6.22
2,566.00	8.91	267.93	2,560.07	963.23	9.90	-108.10	5.39	0.95	-0.72	-3.79
2,660.00	9.22	267.65	2,652.89	870.41	9.33	-122.90	8.03	0.33	0.33	-0.30
2,754.00	9.32	267.96	2,745.67	777.63	8.75	-138.03	10.73	0.12	0.11	0.33
2,848.00	8.56	266.42	2,838.52	684.78	8.04	-152.62	13.48	0.85	-0.81	-1.64
2,942.00	7.83	266.56	2,931.56	591.74	7.22	-165.99	16.18	0.78	-0.78	0.15
3,037.00	7.73	266.28	3,025.69	497.61	6.41	-178.83	18.77	0.11	-0.11	-0.29
3,131.00	7.38	267.30	3,118.87	404.43	5.72	-191.17	21.19	0.40	-0.37	1.09
3,225.00	6.81	267.03	3,212.15	311.15	5.15	-202.76	23.39	0.61	-0.61	-0.29
3,319.00	6.76	268.67	3,305.50	217.80	4.73	-213.86	25.36	0.21	-0.05	1.74
3,413.00	6.82	271.13	3,398.84	124.46	4.71	-224.97	26.94	0.32	0.06	2.62
3,507.00	6.60	271.84	3,492.19	31.11	4.99	-235.95	28.20	0.25	-0.23	0.76
3,601.00	6.08	272.56	3,585.62	-62.32	5.39	-246.32	29.27	0.56	-0.55	0.77
3,695.00	6.87	270.55	3,679.02	-155.72	5.67	-256.92	30.48	0.87	0.84	-2.14
3,789.00	7.93	269.82	3,772.23	-248.93	5.70	-269.02	32.15	1.13	1.13	-0.78
3,883.00	7.82	270.32	3,865.35	-342.05	5.72	-281.90	33.95	0.14	-0.12	0.53
3,977.00	7.65	270.59	3,958.49	-435.19	5.82	-294.55	35.62	0.18	-0.18	0.29
4,071.00	7.67	270.65	4,051.65	-528.35	5.95	-307.08	37.25	0.02	0.02	0.06
4,165.00	7.64	272.46	4,144.81	-621.51	6.29	-319.60	38.67	0.26	-0.03	1.93
4,259.00	7.98	271.75	4,237.94	-714.64	6.76	-332.36	40.00	0.38	0.36	-0.76
4,354.00	7.87	274.72	4,332.04	-808.74	7.49	-345.44	41.11	0.45	-0.12	3.13
4,448.00	8.02	277.31	4,425.13	-901.83	8.86	-358.35	41.58	0.41	0.16	2.76
4,541.00	8.43	276.86	4,517.18	-993.88	10.50	-371.56	41.81	0.45	0.44	-0.48
4,635.00	8.25	278.56	4,610.18	-1,086.88	12.32	-385.07	41.90	0.32	-0.19	1.81
4,729.00	8.14	279.62	4,703.22	-1,179.92	14.44	-398.30	41.66	0.20	-0.12	1.13
4,823.00	8.15	277.94	4,796.27	-1,272.97	16.47	-411.46	41.50	0.25	0.01	-1.79
4,917.00	7.93	278.80	4,889.35	-1,366.05	18.39	-424.46	41.43	0.27	-0.23	0.91
5,011.00	7.17	278.87	4,982.54	-1,459.24	20.28	-436.67	41.27	0.81	-0.81	0.07
5,105.00	6.42	277.67	5,075.87	-1,552.57	21.89	-447.67	41.22	0.81	-0.80	-1.28
5,199.00	6.42	277.84	5,169.28	-1,645.98	23.31	-458.09	41.28	0.02	0.00	0.18
5,293.00	6.34	277.60	5,262.70	-1,739.40	24.71	-468.44	41.35	0.09	-0.09	-0.26
5,387.00	6.44	276.81	5,356.12	-1,832.82	26.02	-478.82	41.51	0.14	0.11	-0.84
5,481.00	6.49	275.25	5,449.52	-1,926.22	27.13	-489.34	41.89	0.19	0.05	-1.66
5,570.00	6.44	275.70	5,537.95	-2,014.65	28.09	-499.32	42.34	0.08	-0.06	0.51
ICP										
5,631.00	6.55	275.58	5,598.56	-2,075.26	28.77	-506.18	42.63	0.18	0.18	-0.20
5,654.00	6.59	275.53	5,621.41	-2,098.11	29.02	-508.80	42.75	0.18	0.18	-0.20

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5,748.00	7.83	266.08	5,714.67	-2,191.37	29.10	-520.56	44.32	1.82	1.32	-10.05
5,842.00	7.94	264.44	5,807.78	-2,284.48	28.04	-533.41	47.18	0.27	0.12	-1.74
5,936.00	7.70	263.58	5,900.91	-2,377.61	26.70	-546.13	50.29	0.28	-0.26	-0.91
6,031.00	7.64	264.10	5,995.06	-2,471.76	25.34	-558.74	53.41	0.10	-0.06	0.55
6,125.00	8.80	265.41	6,088.09	-2,564.79	24.12	-572.12	56.49	1.25	1.23	1.39
6,219.00	8.99	266.54	6,180.96	-2,657.66	23.11	-586.62	59.54	0.27	0.20	1.20
6,313.00	9.17	264.94	6,273.78	-2,750.48	22.00	-601.41	62.71	0.33	0.19	-1.70
6,407.00	9.44	265.10	6,366.55	-2,843.25	20.68	-616.55	66.14	0.29	0.29	0.17
6,502.00	8.43	267.17	6,460.39	-2,937.09	19.67	-631.27	69.21	1.12	-1.06	2.18
6,595.00	8.25	266.74	6,552.41	-3,029.11	18.96	-644.74	71.81	0.20	-0.19	-0.46
6,690.00	8.09	268.09	6,646.44	-3,123.14	18.35	-658.22	74.31	0.26	-0.17	1.42
6,784.00	8.09	269.02	6,739.51	-3,216.21	18.01	-671.45	76.50	0.14	0.00	0.99
6,878.00	7.29	266.59	6,832.66	-3,309.36	17.55	-684.02	78.73	0.92	-0.85	-2.59
6,972.00	7.06	265.35	6,925.93	-3,402.63	16.72	-695.73	81.19	0.29	-0.24	-1.32
7,067.00	6.90	264.94	7,020.22	-3,496.92	15.75	-707.23	83.77	0.18	-0.17	-0.43
7,160.00	7.10	264.51	7,112.53	-3,589.23	14.70	-718.52	86.39	0.22	0.22	-0.46
7,255.00	7.34	264.22	7,206.78	-3,683.48	13.53	-730.40	89.22	0.26	0.25	-0.31
7,349.00	6.93	263.97	7,300.05	-3,776.75	12.33	-742.01	92.04	0.44	-0.44	-0.27
7,443.00	6.40	264.42	7,393.41	-3,870.11	11.23	-752.86	94.66	0.57	-0.56	0.48
7,537.00	6.16	264.44	7,486.85	-3,963.55	10.23	-763.10	97.08	0.26	-0.26	0.02
7,631.00	5.99	266.56	7,580.32	-4,057.02	9.44	-773.01	99.25	0.30	-0.18	2.26
7,725.00	5.99	266.34	7,673.81	-4,150.51	8.84	-782.80	101.23	0.02	0.00	-0.23
7,820.00	4.37	265.42	7,768.42	-4,245.12	8.23	-791.36	103.03	1.71	-1.71	-0.97
7,914.00	3.13	256.82	7,862.21	-4,338.91	7.36	-797.43	104.74	1.44	-1.32	-9.15
8,008.00	2.08	255.16	7,956.12	-4,432.82	6.34	-801.58	106.34	1.12	-1.12	-1.77
8,103.00	0.41	289.24	8,051.09	-4,527.79	6.01	-803.56	106.95	1.85	-1.76	35.87
8,197.00	0.16	150.00	8,145.09	-4,621.79	6.01	-803.82	106.98	0.58	-0.27	-148.13
8,291.00	0.12	70.94	8,239.09	-4,715.79	5.92	-803.66	107.04	0.19	-0.04	-84.11
8,385.00	0.25	0.86	8,333.09	-4,809.79	6.16	-803.56	106.79	0.25	0.14	-74.55
8,479.00	0.45	354.09	8,427.09	-4,903.79	6.73	-803.60	106.23	0.22	0.21	-7.20
8,573.00	0.74	2.92	8,521.08	-4,997.78	7.71	-803.60	105.27	0.32	0.31	9.39
8,668.00	0.86	4.47	8,616.07	-5,092.77	9.03	-803.52	103.95	0.13	0.13	1.63
8,762.00	1.42	4.40	8,710.05	-5,186.75	10.89	-803.37	102.08	0.60	0.60	-0.07
8,856.00	1.30	46.43	8,804.03	-5,280.73	12.79	-802.51	100.08	1.04	-0.13	44.71
8,951.00	0.77	83.19	8,899.01	-5,375.71	13.61	-801.10	99.07	0.87	-0.56	38.69
9,045.00	0.70	104.43	8,993.01	-5,469.71	13.54	-799.91	98.97	0.30	-0.07	22.60
9,139.00	0.80	79.57	9,087.00	-5,563.70	13.52	-798.71	98.83	0.36	0.11	-26.45
9,233.00	0.73	48.71	9,180.99	-5,657.69	14.03	-797.62	98.17	0.44	-0.07	-32.83
9,327.00	0.78	45.50	9,274.98	-5,751.68	14.87	-796.71	97.20	0.07	0.05	-3.41
9,421.00	1.04	18.32	9,368.97	-5,845.67	16.13	-795.98	95.86	0.53	0.28	-28.91
KOP										
9,507.00	0.94	118.95	9,454.96	-5,931.66	16.53	-795.12	95.34	1.77	-0.12	117.01
9,516.00	1.06	124.74	9,463.96	-5,940.66	16.45	-794.99	95.40	1.77	1.37	64.36
9,547.00	4.49	151.46	9,494.92	-5,971.62	15.22	-794.18	96.51	11.53	11.06	86.19
9,578.00	8.59	154.30	9,525.71	-6,002.41	12.07	-792.59	99.40	13.26	13.23	9.16
9,609.00	13.22	157.97	9,556.15	-6,032.85	6.69	-790.26	104.40	15.10	14.94	11.84
9,641.00	15.33	163.33	9,587.16	-6,063.86	-0.75	-787.67	111.41	7.77	6.59	16.75
9,672.00	16.37	166.93	9,616.98	-6,093.68	-8.93	-785.51	119.20	4.62	3.35	11.61
9,703.00	18.33	167.33	9,646.57	-6,123.27	-17.95	-783.45	127.84	6.33	6.32	1.29
9,735.00	20.82	163.13	9,676.72	-6,153.42	-28.30	-780.69	137.70	8.93	7.78	-13.12
9,766.00	23.96	159.57	9,705.38	-6,182.08	-39.47	-776.90	148.23	11.03	10.13	-11.48
9,797.00	27.17	157.99	9,733.34	-6,210.04	-51.94	-772.05	159.89	10.58	10.35	-5.10
9,829.00	30.16	159.91	9,761.41	-6,238.11	-66.26	-766.55	173.30	9.78	9.34	6.00

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Site:	SW SW SEC. 13 T22S T34E	MD Reference:	KB 25' @ 3523.30usft (H&P 650)
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Wellbore:	JOB #2018-626-650	Survey Calculation Method:	Minimum Curvature
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9,860.00	33.03	165.27	9,787.82	-6,264.52	-81.76	-761.72	187.96	12.95	9.26	17.29
9,892.00	35.28	171.35	9,814.31	-6,291.01	-99.33	-758.11	204.86	12.77	7.03	19.00
9,923.00	37.30	176.25	9,839.30	-6,316.00	-117.56	-756.15	222.63	11.40	6.52	15.81
9,955.00	39.89	181.25	9,864.31	-6,341.01	-137.50	-755.74	242.32	12.66	8.09	15.62
9,986.00	42.04	184.12	9,887.72	-6,364.42	-157.80	-756.70	262.55	9.21	6.94	9.26
10,017.00	44.90	184.53	9,910.22	-6,386.92	-179.06	-758.31	283.82	9.27	9.23	1.32
10,049.00	47.28	184.05	9,932.41	-6,409.11	-202.05	-760.04	306.83	7.52	7.44	-1.50
10,080.00	49.16	183.50	9,953.06	-6,429.76	-225.12	-761.56	329.88	6.21	6.06	-1.77
10,112.00	50.94	183.13	9,973.61	-6,450.31	-249.61	-762.97	354.32	5.63	5.56	-1.16
10,143.00	52.88	182.46	9,992.73	-6,469.43	-273.97	-764.16	378.62	6.49	6.26	-2.16
10,174.00	56.75	182.74	10,010.59	-6,487.29	-299.28	-765.31	403.83	12.51	12.48	0.90
10,206.00	59.73	182.57	10,027.44	-6,504.14	-326.46	-766.57	430.91	9.32	9.31	-0.53
10,237.00	62.14	182.09	10,042.49	-6,519.19	-353.53	-767.67	457.87	7.89	7.77	-1.55
10,269.00	64.77	182.34	10,056.79	-6,533.49	-382.13	-768.78	486.35	8.25	8.22	0.78
10,300.00	67.82	182.07	10,069.26	-6,545.96	-410.49	-769.87	514.58	9.87	9.84	-0.87
10,331.00	71.56	182.31	10,080.01	-6,556.71	-439.54	-770.98	543.49	12.09	12.06	0.77
10,363.00	73.42	182.13	10,089.64	-6,566.34	-470.03	-772.16	573.85	5.84	5.81	-0.56
10,394.00	73.56	181.71	10,098.45	-6,575.15	-499.73	-773.16	603.40	1.38	0.45	-1.35
10,426.00	75.44	181.81	10,107.00	-6,583.70	-530.55	-774.11	634.05	5.88	5.87	0.31
10,457.00	77.31	182.15	10,114.30	-6,591.00	-560.66	-775.15	664.00	6.13	6.03	1.10
10,488.00	79.45	182.34	10,120.55	-6,597.25	-591.00	-776.34	694.21	6.93	6.90	0.61
10,520.00	81.17	182.36	10,125.93	-6,602.63	-622.52	-777.63	725.59	5.38	5.37	0.06
10,551.00	82.15	182.73	10,130.43	-6,607.13	-653.16	-778.99	756.12	3.37	3.16	1.19
10,582.00	83.42	182.66	10,134.32	-6,611.02	-683.88	-780.44	786.74	4.10	4.10	-0.23
10,614.00	86.39	182.73	10,137.17	-6,613.87	-715.71	-781.94	818.47	9.28	9.28	0.22
10,645.00	88.70	182.51	10,138.49	-6,615.19	-746.65	-783.35	849.30	7.49	7.45	-0.71
HZ LANDING										
10,666.00	88.61	182.44	10,138.99	-6,615.69	-767.63	-784.26	870.19	0.54	-0.43	-0.32
10,726.00	88.35	182.25	10,140.58	-6,617.28	-827.55	-786.71	929.87	0.54	-0.43	-0.32
10,739.00	88.17	182.24	10,140.97	-6,617.67	-840.54	-787.22	942.80	1.39	-1.38	-0.08
10,770.00	88.25	182.16	10,141.94	-6,618.64	-871.50	-788.41	973.62	0.36	0.26	-0.26
10,802.00	86.18	181.83	10,143.50	-6,620.20	-903.44	-789.53	1,005.40	6.55	-6.47	-1.03
10,833.00	86.06	181.81	10,145.59	-6,622.29	-934.35	-790.51	1,036.15	0.39	-0.39	-0.06
10,864.00	86.01	181.98	10,147.74	-6,624.44	-965.26	-791.53	1,066.89	0.57	-0.16	0.55
10,896.00	85.95	182.15	10,149.98	-6,626.68	-997.16	-792.68	1,098.64	0.56	-0.19	0.53
10,927.00	86.17	182.29	10,152.11	-6,628.81	-1,028.07	-793.88	1,129.40	0.84	0.71	0.45
11,021.00	86.12	182.42	10,158.43	-6,635.13	-1,121.78	-797.73	1,222.72	0.15	-0.05	0.14
11,115.00	87.00	181.43	10,164.07	-6,640.77	-1,215.55	-800.88	1,316.01	1.41	0.94	-1.05
11,209.00	87.77	180.17	10,168.36	-6,645.06	-1,309.44	-802.19	1,409.16	1.57	0.82	-1.34
11,303.00	88.43	179.36	10,171.48	-6,648.18	-1,403.39	-801.81	1,502.12	1.11	0.70	-0.86
11,397.00	86.51	179.70	10,175.63	-6,652.33	-1,497.29	-801.04	1,594.98	2.07	-2.04	0.36
11,491.00	86.37	180.11	10,181.46	-6,658.16	-1,591.11	-800.88	1,687.84	0.46	-0.15	0.44
11,585.00	86.57	180.53	10,187.25	-6,663.95	-1,684.93	-801.41	1,780.81	0.49	0.21	0.45
11,679.00	87.13	180.44	10,192.41	-6,669.11	-1,778.78	-802.20	1,873.84	0.60	0.60	-0.10
11,773.00	87.39	179.45	10,196.91	-6,673.61	-1,872.67	-802.11	1,966.79	1.09	0.28	-1.05
11,868.00	89.01	179.26	10,199.89	-6,676.59	-1,967.62	-801.04	2,060.64	1.72	1.71	-0.20
11,961.00	89.59	178.72	10,201.03	-6,677.73	-2,060.59	-799.40	2,152.47	0.85	0.62	-0.58
12,056.00	89.65	178.19	10,201.66	-6,678.36	-2,155.56	-796.84	2,246.13	0.56	0.06	-0.56
12,150.00	88.64	177.57	10,203.06	-6,679.76	-2,249.48	-793.37	2,338.63	1.26	-1.07	-0.66
12,243.00	89.99	179.58	10,204.17	-6,680.87	-2,342.44	-791.05	2,430.34	2.60	1.45	2.16
12,337.00	89.90	178.80	10,204.26	-6,680.96	-2,436.43	-789.72	2,523.21	0.84	-0.10	-0.83
12,431.00	89.08	180.46	10,205.10	-6,681.80	-2,530.42	-789.12	2,616.19	1.97	-0.87	1.77
12,525.00	89.58	180.39	10,206.20	-6,682.90	-2,624.41	-789.81	2,709.34	0.54	0.53	-0.07

Survey Report



Company:	CENTENNIAL RESOURCE DEVELOPME	Local Co-ordinate Reference:	Well AIRSTREAM 24 STATE COM #501H
Project:	LEA COUNTY, NM (NAD 83 - UTM ZONE	TVD Reference:	KB 25' @ 3523.30usft (H&P 650)
Site:	SW SW SEC. 13 T22S T34E	MD Reference:	KB 25' @ 3523.30usft (H&P 650)
Well:	AIRSTREAM 24 STATE COM #501H	North Reference:	True
Wellbore:	JOB #2018-626-650	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,620.00	89.20	181.44	10,207.21	-6,683.91	-2,719.39	-791.33	2,803.59	1.18	-0.40	1.11
12,714.00	89.30	181.79	10,208.44	-6,685.14	-2,813.34	-793.98	2,896.99	0.39	0.11	0.37
12,808.00	89.83	181.65	10,209.16	-6,685.86	-2,907.30	-796.80	2,990.41	0.58	0.56	-0.15
12,902.00	88.96	181.75	10,210.15	-6,686.85	-3,001.25	-799.59	3,083.82	0.93	-0.93	0.11
12,996.00	88.73	181.45	10,212.04	-6,688.74	-3,095.20	-802.21	3,177.20	0.40	-0.24	-0.32
13,090.00	89.72	181.41	10,213.31	-6,690.01	-3,189.16	-804.56	3,270.56	1.05	1.05	-0.04
13,184.00	90.49	180.88	10,213.14	-6,689.84	-3,283.14	-806.44	3,363.87	0.99	0.82	-0.56
13,278.00	87.77	179.14	10,214.57	-6,691.27	-3,377.11	-806.46	3,456.92	3.43	-2.89	-1.85
13,372.00	89.83	178.57	10,216.54	-6,693.24	-3,471.07	-804.58	3,549.68	2.27	2.19	-0.61
13,403.00	89.29	178.06	10,216.78	-6,693.48	-3,502.05	-803.67	3,580.23	2.40	-1.74	-1.65
13,435.00	89.52	177.90	10,217.11	-6,693.81	-3,534.03	-802.54	3,611.73	0.88	0.72	-0.50
13,466.00	90.34	177.83	10,217.15	-6,693.85	-3,565.01	-801.38	3,642.24	2.65	2.65	-0.23
13,497.00	90.04	177.60	10,217.04	-6,693.74	-3,595.99	-800.15	3,672.73	1.22	-0.97	-0.74
13,529.00	90.24	177.97	10,216.96	-6,693.66	-3,627.96	-798.91	3,704.22	1.31	0.62	1.16
13,560.00	90.81	178.17	10,216.68	-6,693.38	-3,658.94	-797.87	3,734.75	1.95	1.84	0.65
13,654.00	91.05	179.55	10,215.15	-6,691.85	-3,752.91	-796.00	3,827.52	1.49	0.26	1.47
13,748.00	91.41	181.24	10,213.14	-6,689.84	-3,846.88	-796.64	3,920.65	1.84	0.38	1.80
13,842.00	92.20	181.57	10,210.18	-6,686.88	-3,940.81	-798.95	4,013.97	0.91	0.84	0.35
13,937.00	90.28	181.87	10,208.12	-6,684.82	-4,035.74	-801.80	4,108.36	2.05	-2.02	0.32
14,030.00	89.31	181.61	10,208.45	-6,685.15	-4,128.69	-804.62	4,200.79	1.08	-1.04	-0.28
14,124.00	88.75	181.18	10,210.04	-6,686.74	-4,222.65	-806.91	4,294.13	0.75	-0.60	-0.46
14,171.00	88.71	181.23	10,211.09	-6,687.79	-4,269.63	-807.90	4,340.78	0.14	-0.09	0.11
14,218.00	87.45	181.11	10,212.66	-6,689.36	-4,316.59	-808.86	4,387.42	2.69	-2.68	-0.26
14,266.00	87.24	181.10	10,214.88	-6,691.58	-4,364.53	-809.78	4,435.01	0.44	-0.44	-0.02
14,312.00	87.17	180.86	10,217.13	-6,693.83	-4,410.47	-810.57	4,480.60	0.54	-0.15	-0.52
14,359.00	87.22	181.13	10,219.43	-6,696.13	-4,457.41	-811.38	4,527.19	0.58	0.11	0.57
14,406.00	87.31	181.09	10,221.67	-6,698.37	-4,504.34	-812.29	4,573.79	0.21	0.19	-0.09
14,451.00	86.88	180.67	10,223.95	-6,700.65	-4,549.28	-812.98	4,618.38	1.33	-0.96	-0.93
14,500.00	84.60	180.27	10,227.59	-6,704.29	-4,598.14	-813.38	4,666.81	4.72	-4.65	-0.82
14,594.00	86.48	180.60	10,234.90	-6,711.60	-4,691.85	-814.10	4,759.69	2.03	2.00	0.35
14,688.00	87.49	180.01	10,239.84	-6,716.54	-4,785.71	-814.60	4,852.69	1.24	1.07	-0.63
14,782.00	88.02	179.53	10,243.53	-6,720.23	-4,879.64	-814.22	4,945.64	0.76	0.56	-0.51
14,876.00	87.42	178.52	10,247.27	-6,723.97	-4,973.55	-812.62	5,038.39	1.25	-0.64	-1.07
14,970.00	87.83	177.90	10,251.16	-6,727.86	-5,067.42	-809.69	5,130.92	0.79	0.44	-0.66
15,064.00	88.00	177.39	10,254.58	-6,731.28	-5,161.28	-805.83	5,223.30	0.57	0.18	-0.54
15,158.00	88.26	176.98	10,257.65	-6,734.35	-5,255.12	-801.21	5,315.56	0.52	0.28	-0.44
15,252.00	88.73	176.71	10,260.12	-6,736.82	-5,348.94	-796.04	5,407.73	0.58	0.50	-0.29
15,346.00	88.89	175.89	10,262.07	-6,738.77	-5,442.73	-789.98	5,499.73	0.89	0.17	-0.87
15,441.00	89.19	176.12	10,263.66	-6,740.36	-5,537.48	-783.36	5,592.62	0.40	0.32	0.24
15,535.00	89.61	175.95	10,264.65	-6,741.35	-5,631.25	-776.86	5,684.54	0.48	0.45	-0.18
LAST SURVEY - NOV 10, 2018										
15,598.00	89.86	175.78	10,264.94	-6,741.64	-5,694.09	-772.32	5,746.12	0.48	0.40	-0.27
PROJECTION TO TD										
15,651.00	90.00	175.70	10,265.00	-6,741.70	-5,746.94	-768.38	5,797.89	0.30	0.26	-0.15

Survey Report



Company:	CENTENNIAL RESOURCE DEVELOPME	Local Co-ordinate Reference:	Well AIRSTREAM 24 STATE COM #501H
Project:	LEA COUNTY, NM (NAD 83 - UTM ZONE	TVD Reference:	KB 25' @ 3523.30usft (H&P 650)
Site:	SW SW SEC. 13 T22S T34E	MD Reference:	KB 25' @ 3523.30usft (H&P 650)
Well:	AIRSTREAM 24 STATE COM #501H	North Reference:	True
Wellbore:	JOB #2018-626-650	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM 5000.1 Single User Db

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
KOP - AIRSTREAM 24	- survey misses target center by 38.75usft at 9717.68usft MD (9660.46 TVD, -22.56 N, -782.32 E)	0.00	0.00	9,673.11	9.63	-799.78	11,759,503.38	2,124,685.58	32.385989 -103.430773
- Point									
LTP/BHL - AIRSTREAM	- survey misses target center by 197.92usft at 15633.31usft MD (10264.99 TVD, -5729.30 N, -769.70 E)	0.00	0.00	10,458.00	-5,732.32	-813.41	11,753,762.60	2,124,756.33	32.370207 -103.430817
- Point									
PP/FTP - AIRSTREAM	- survey misses target center by 216.30usft at 10575.79usft MD (10133.60 TVD, -677.72 N, -780.15 E)	0.00	0.00	10,347.02	-649.67	-801.39	11,758,844.22	2,124,693.66	32.384177 -103.430779
- Point									
LTP/BHL - AIRSTREAM	- survey misses target center by 197.92usft at 15633.31usft MD (10264.99 TVD, -5729.30 N, -769.70 E)	0.00	0.00	10,458.00	-5,732.32	-813.41	11,753,762.60	2,124,756.33	32.370207 -103.430817
- Point									
KOP - AIRSTREAM 24	- survey misses target center by 35.35usft at 9719.83usft MD (9662.48 TVD, -23.26 N, -782.14 E)	0.00	0.00	9,673.11	9.64	-774.78	11,759,503.76	2,124,710.57	32.385989 -103.430692
- Point									
LTP/BHL - AIRSTREAM	- survey misses target center by 193.93usft at 15635.23usft MD (10265.00 TVD, -5731.21 N, -769.56 E)	0.00	0.00	10,458.00	-5,732.38	-788.41	11,753,762.91	2,124,781.33	32.370207 -103.430736
- Point									
KOP - AIRSTREAM 24	- survey misses target center by 38.76usft at 9717.68usft MD (9660.46 TVD, -22.56 N, -782.32 E)	0.00	0.00	9,673.11	9.64	-799.78	11,759,503.39	2,124,685.58	32.385989 -103.430773
- Point									
PP/FTP - AIRSTREAM	- survey misses target center by 215.27usft at 10574.68usft MD (10133.47 TVD, -676.62 N, -780.10 E)	0.00	0.00	10,347.02	-649.73	-776.39	11,758,844.53	2,124,718.65	32.384177 -103.430698
- Point									
PP/FTP - AIRSTREAM	- survey misses target center by 29.90usft at 10545.61usft MD (10129.69 TVD, -647.82 N, -778.74 E)	0.00	0.00	10,110.25	-649.67	-801.39	11,758,844.22	2,124,693.66	32.384177 -103.430779
- Point									
LTP/BHL - AIRSTREAM	- survey misses target center by 61.39usft at 15633.03usft MD (10264.99 TVD, -5729.02 N, -769.72 E)	0.00	0.00	10,222.00	-5,732.32	-813.41	11,753,762.60	2,124,756.33	32.370207 -103.430817
- Point									
PP/FTP - AIRSTREAM	- survey misses target center by 216.30usft at 10575.79usft MD (10133.60 TVD, -677.72 N, -780.15 E)	0.00	0.00	10,347.02	-649.67	-801.39	11,758,844.22	2,124,693.66	32.384177 -103.430779
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N-S (usft)	+E-W (usft)	
1,965.00	1,964.56	4.14	-36.53	SURFACE CASING
5,631.00	5,598.56	28.77	-506.18	ICP
9,507.00	9,454.96	16.53	-795.12	KOP
10,666.00	10,138.99	-767.63	-784.26	HZ LANDING
15,598.00	10,264.94	-5,694.09	-772.32	LAST SURVEY - NOV 10, 2018
15,651.00	10,265.00	-5,746.94	-768.38	PROJECTION TO TD

Checked By: _____	Approved By: _____	Date: _____
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