



JAN 28 2019

# Directional Survey Report

## DISTRICT II-ARTESIA O.C.D.

Company Name: Solaris Midstream

State/Prov: New Mexico

Survey Company: Precision Directional Services Inc.

Proposed Azimuth: 0

Well Name: Corral Fly State SWD #001

County: Eddy

Job Number: WT-180024

Declination: 7.01

Field: Eddy

Location: Eddy

Latitude: 32.15411293

North Reference: Grid

Rig ID: PD 312

API/UWI: 30-015-44626

Longitude: -103.9287448

KB: 2895

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS
Tiein	0	0	0	0	0	0	0	0
1	209	1.30	0	208.98	2.37	0	2.37	0.62
2	302	1.20	0	301.96	4.40	0	4.40	0.11
3	335	2	0	334.95	5.32	0	5.32	2.42
4	476	2.70	0	475.83	11.10	0	11.10	0.50
5	511	2.90	0	510.79	12.81	0	12.81	0.57
6	695	2.95	127.86	694.67	14.56	3.74	14.56	2.86
7	789	2.24	107.56	788.58	12.52	7.40	12.52	1.22
8	884	1.85	104.74	883.52	11.57	10.66	11.57	0.42
9	979	2.02	106.33	978.46	10.71	13.74	10.71	0.19
10	1073	1.80	97.27	1,072.41	10.06	16.80	10.06	0.40
11	1168	1.80	90.07	1,167.37	9.87	19.77	9.87	0.24
12	1262	1.93	104.83	1,261.32	9.46	22.78	9.46	0.53
13	1357	2.37	103.78	1,356.25	8.58	26.23	8.58	0.46
14	1452	2.64	125.22	1,451.16	6.85	29.93	6.85	1.02
15	1545	1.54	124.70	1,544.10	4.91	32.70	4.91	1.18
16	1640	1.54	93.49	1,639.06	4.10	35.03	4.10	0.87
17	1735	2.42	91.74	1,734.01	3.97	38.31	3.97	0.93
18	1830	2.90	83.56	1,828.90	4.17	42.70	4.17	0.64
19	1925	2.64	72.58	1,923.79	5.10	47.18	5.10	0.62
20	2020	2.68	63.08	2,018.69	6.76	51.24	6.76	0.47
21	2115	2.02	49.46	2,113.61	8.85	54.50	8.85	0.91
22	2210	0.84	4.55	2,208.58	10.64	55.82	10.64	1.62
23	2305	1.01	344.33	2,303.57	12.14	55.65	12.14	0.38
24	2400	0.88	348.03	2,398.56	13.66	55.28	13.66	0.15
25	2495	0.75	346.71	2,493.55	14.97	54.98	14.97	0.14
26	2590	0.70	12.99	2,588.54	16.14	54.97	16.14	0.35
27	2685	0.62	41.55	2,683.54	17.09	55.44	17.09	0.35
28	2780	1.01	85.23	2,778.53	17.55	56.62	17.55	0.74
29	2876	1.10	98.42	2,874.51	17.48	58.37	17.48	0.27
30	2971	1.49	87.08	2,969.49	17.41	60.51	17.41	0.49
31	3066	2.15	96.04	3,064.44	17.29	63.51	17.29	0.75
32	3161	2.51	109.49	3,159.36	16.41	67.24	16.41	0.69
33	3256	2.64	120.13	3,254.26	14.62	71.10	14.62	0.52

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS
34	3336	2.33	117.58	3,334.19	12.94	74.13	12.94	0.41
35	3430	2.29	125.14	3,428.11	10.97	77.36	10.97	0.33
36	3525	2.46	119.07	3,523.03	8.89	80.70	8.89	0.32
37	3620	2.46	122.23	3,617.94	6.81	84.20	6.81	0.14
38	3715	1.14	135.77	3,712.90	5.05	86.59	5.05	1.45
39	3810	0.92	178.40	3,807.88	3.61	87.27	3.61	0.82
40	3904	0.88	171.89	3,901.87	2.14	87.39	2.14	0.12
41	3998	0.84	156.34	3,995.86	0.79	87.77	0.79	0.25
42	4092	0.75	170.31	4,089.85	-0.45	88.15	-0.45	0.23
43	4187	0.70	172.95	4,184.84	-1.63	88.32	-1.63	0.06
44	4282	0.75	179.45	4,279.84	-2.83	88.40	-2.83	0.10
45	4376	0.57	170.40	4,373.83	-3.91	88.49	-3.91	0.22
46	4471	0.62	177.87	4,468.82	-4.89	88.58	-4.89	0.10
47	4564	0.62	200.02	4,561.82	-5.86	88.43	-5.86	0.26
48	4659	0.75	183.05	4,656.81	-6.97	88.22	-6.97	0.25
49	4755	0.62	182.79	4,752.81	-8.11	88.16	-8.11	0.14
50	4850	0.57	172.51	4,847.80	-9.09	88.20	-9.09	0.12
51	4945	0.62	170.93	4,942.80	-10.07	88.34	-10.07	0.06
52	5040	0.62	172.77	5,037.79	-11.09	88.49	-11.09	0.02
53	5134	0.57	178.40	5,131.78	-12.06	88.56	-12.06	0.08
54	5228	0.53	181.38	5,225.78	-12.96	88.57	-12.96	0.05
55	5322	0.53	168.41	5,319.78	-13.82	88.65	-13.82	0.13
56	5416	0.48	178.75	5,413.77	-14.64	88.74	-14.64	0.11
57	5511	0.66	184.81	5,508.77	-15.58	88.71	-15.58	0.20
58	5606	0.70	183.58	5,603.76	-16.71	88.62	-16.71	0.04
59	5701	0.75	187.01	5,698.75	-17.91	88.51	-17.91	0.07
60	5796	0.79	200.98	5,793.74	-19.13	88.20	-19.13	0.20
61	5892	0.79	200.63	5,889.74	-20.37	87.73	-20.37	0.01
62	5987	0.84	204.06	5,984.73	-21.62	87.22	-21.62	0.07
63	6082	0.92	200.81	6,079.72	-22.97	86.66	-22.97	0.10
64	6177	0.79	203.40	6,174.70	-24.28	86.13	-24.28	0.14
65	6271	0.79	206.87	6,268.70	-25.46	85.58	-25.46	0.05
66	6367	0.75	219.62	6,364.69	-26.53	84.88	-26.53	0.18
67	6462	0.84	212.94	6,459.68	-27.59	84.11	-27.59	0.14
68	6556	0.92	211.88	6,553.67	-28.81	83.33	-28.81	0.09
69	6649	0.97	207.05	6,646.65	-30.15	82.58	-30.15	0.10
70	6741	0.97	214.52	6,738.64	-31.48	81.78	-31.48	0.14
71	6835	0.88	220.06	6,832.63	-32.69	80.87	-32.69	0.13
72	6929	0.75	214.20	6,926.62	-33.75	80.06	-33.75	0.16
73	7024	0.79	225.51	7,021.61	-34.72	79.24	-34.72	0.17
74	7119	0.84	216.98	7,116.60	-35.74	78.36	-35.74	0.14
75	7213	0.74	237.60	7,210.59	-36.79	77.15	-36.79	0.49
76	7304	1.49	254.33	7,301.56	-37.60	75.25	-37.60	0.57
77	7399	1.54	264.53	7,396.53	-38.05	72.79	-38.05	0.29
78	7494	1.49	271.03	7,491.50	-38.15	70.28	-38.15	0.19

Svy	Depth	Inc	Azm	TVD	NS	NEW	VS	DLS
79	7589	1.49	269.28	7,586.47	-38.14	67.61	-38.14	0.05
80	7684	1.71	264.62	7,681.43	-38.29	65.17	-38.29	0.27
81	7778	1.93	248.80	7,775.38	-39.00	62.29	-39.00	0.58
82	7873	1.93	253.89	7,870.33	-40.02	59.27	-40.02	0.18
83	7969	2.02	243.90	7,966.27	-41.21	56.19	-41.21	0.37
84	8064	1.76	235.30	8,061.22	-42.78	53.49	-42.78	0.40
85	8157	1.85	229.37	8,154.17	-44.57	51.18	-44.57	0.22
86	8252	2.07	231	8,249.12	-46.65	48.68	-46.65	0.24
87	8343	1.89	232.45	8,340.06	-48.60	46.21	-48.60	0.21
88	8438	2.02	232.80	8,435.01	-50.56	43.64	-50.56	0.14
89	8532	1.27	249.24	8,528.97	-51.93	41.34	-51.93	0.93
90	8625	1.27	254.60	8,621.95	-52.57	39.39	-52.57	0.13
91	8720	1.19	247.04	8,716.92	-53.24	37.46	-53.24	0.19
92	8812	1.14	263.47	8,808.91	-53.71	35.67	-53.71	0.37
93	8905	1.23	242.03	8,901.89	-54.29	33.87	-54.29	0.48
94	8999	1.45	228.85	8,995.86	-55.54	32.09	-55.54	0.40
95	9094	0.79	217.33	9,090.84	-56.86	30.79	-56.86	0.73
96	9189	0.92	203.80	9,185.83	-58.07	30.08	-58.07	0.25
97	9284	0.79	178.13	9,280.82	-59.43	29.79	-59.43	0.42
98	9400	1	85	9,396.81	-60.14	30.83	-60.14	1.13
99	9588	1	84	9,584.78	-59.82	34.09	-59.82	0.01
100	9681	1.10	88	9,677.77	-59.71	35.79	-59.71	0.13
101	9774	1.50	114	9,770.74	-60.17	37.80	-60.17	0.76
102	9867	1.40	100	9,863.71	-60.86	40.03	-60.86	0.39
103	9961	0.70	125	9,957.70	-61.39	41.63	-61.39	0.87
104	10056	1.20	134	10,052.69	-62.42	42.82	-62.42	0.55
105	10151	1.30	109	10,147.66	-63.46	44.56	-63.46	0.58
106	10245	0.80	136	10,241.65	-64.28	46.02	-64.28	0.73
107	10340	1.60	142	10,336.63	-65.80	47.30	-65.80	0.85
108	10434	1.20	171	10,430.60	-67.81	48.26	-67.81	0.85
109	10499	1.20	154	10,495.59	-69.09	48.66	-69.09	0.55
110	10594	1.30	152	10,590.56	-70.94	49.61	-70.94	0.11
111	10686	1.30	167	10,682.54	-72.87	50.33	-72.87	0.37
112	10780	1.30	163	10,776.52	-74.93	50.88	-74.93	0.10
113	10874	1.30	148	10,870.49	-76.86	51.76	-76.86	0.36
114	10969	1.50	153	10,965.46	-78.88	52.89	-78.88	0.25
115	11062	1.10	193	11,058.44	-80.83	53.25	-80.83	1.04
116	11156	0.70	190	11,152.43	-82.28	52.94	-82.28	0.43
117	11250	0.90	192	11,246.42	-83.56	52.69	-83.56	0.21
118	11325	0.90	190	11,321.41	-84.72	52.47	-84.72	0.04
119	11452	0.88	197.90	11,448.39	-86.63	51.99	-86.63	0.10
120	11545	0.84	208.18	11,541.38	-87.91	51.45	-87.91	0.17
121	11638	0.79	210.91	11,634.38	-89.06	50.80	-89.06	0.07
122	11729	1.05	221.19	11,725.36	-90.23	49.93	-90.23	0.34
123	11825	1.27	220.84	11,821.34	-91.70	48.65	-91.70	0.23

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS
124	11917	0.97	217.68	11,913.33	-93.08	47.51	-93.08	0.33
125	12012	0.70	230.86	12,008.32	-94.09	46.57	-94.09	0.35
126	12107	0.48	247.38	12,103.31	-94.60	45.75	-94.60	0.29
127	12201	0.57	229.45	12,197.31	-95.06	45.03	-95.06	0.20
128	12296	0.75	238.51	12,292.30	-95.69	44.14	-95.69	0.22
129	12391	0.79	234.20	12,387.29	-96.40	43.08	-96.40	0.07
130	12486	0.92	241.14	12,482.28	-97.15	41.88	-97.15	0.17
131	12580	0.92	239.21	12,576.27	-97.90	40.57	-97.90	0.03
132	12673	1.20	0	12,669.26	-97.31	39.93	-97.31	1.99
133	12730	1.10	0	12,726.25	-96.17	39.93	-96.17	0.18
134	12823	1.10	0	12,819.23	-94.38	39.93	-94.38	1e-06
135	12917	1	0	12,913.22	-92.66	39.93	-92.66	0.11
136	13105	1.10	0	13,101.19	-89.21	39.93	-89.21	0.05
137	13200	1.20	0	13,196.17	-87.31	39.93	-87.31	0.11
138	13398	1.30	0	13,394.12	-82.99	39.93	-82.99	0.05
139	13680	1.10	0	13,676.06	-77.08	39.93	-77.08	0.07
140	13867	2.40	0	13,862.97	-71.37	39.93	-71.37	0.70
141	13893	3.20	303.50	13,888.94	-70.43	39.33	-70.43	10.55
142	13923	2.90	305	13,918.90	-69.53	38.01	-69.53	1.03
143	13988	3	309	13,983.81	-67.51	35.34	-67.51	0.35
144	14014	3.20	313.10	14,009.77	-66.59	34.28	-66.59	1.15
145	14076	3.60	304.60	14,071.66	-64.30	31.41	-64.30	1.04
146	14108	3.90	312	14,103.60	-63.00	29.78	-63.00	1.78
147	14138	4	305.40	14,133.52	-61.72	28.17	-61.72	1.55
148	14170	4	310.40	14,165.45	-60.35	26.41	-60.35	1.09
149	14201	4.40	308	14,196.36	-58.91	24.65	-58.91	1.41
150	14233	4.40	302.40	14,228.27	-57.50	22.64	-57.50	1.34
151	14265	4.80	302.50	14,260.17	-56.12	20.48	-56.12	1.25
152	14301	4.80	305.20	14,296.04	-54.44	17.98	-54.44	0.63
153	14333	4.40	310.80	14,327.94	-52.87	15.95	-52.87	1.88
154	14364	4.03	311.76	14,358.85	-51.37	14.24	-51.37	1.22
155	14396	3.30	308.50	14,390.79	-50.05	12.68	-50.05	2.37
156	14428	3.23	316.38	14,422.74	-48.82	11.34	-48.82	1.42
157	14459	2.92	314.08	14,453.69	-47.64	10.17	-47.64	1.08
158	14490	2.73	311.94	14,484.65	-46.60	9.05	-46.60	0.70
159	14521	2.52	318.21	14,515.62	-45.59	8.05	-45.59	1.15
160	14553	2.56	317.90	14,547.59	-44.54	7.10	-44.54	0.13
161	14585	2.32	312.03	14,579.56	-43.58	6.14	-43.58	1.08
162	14617	2.05	310.99	14,611.54	-42.77	5.23	-42.77	0.85
163	14648	1.67	322.24	14,642.52	-42.05	4.53	-42.05	1.69
164	14678	1.47	317.27	14,672.51	-41.42	4.00	-41.42	0.81
165	14709	1.82	298.46	14,703.50	-40.89	3.30	-40.89	2.06
166	14740	1.73	300.06	14,734.48	-40.42	2.46	-40.42	0.33
167	14772	1.66	296.14	14,766.47	-39.95	1.58	-39.95	0.56
168	14804	1.78	296.43	14,798.45	-39.50	0.67	-39.50	0.25

Svy	Depth	Inc	Azm	TVD	NSI	EW	VS	DLS
169	14835	1.80	290.62	14,829.43	-39.12	0.22	-39.12	0.59
170	14867	1.64	278.97	14,861.42	-38.87	1.14	-38.87	1.20
171	14927	1.51	279.57	14,921.40	-38.60	2.77	-38.60	0.22
172	15022	1.75	236.63	15,016.36	-39.19	5.22	-39.19	1.28
173	15115	2.06	247.12	15,109.31	-40.62	7.94	-40.62	0.50
174	15219	2.41	259.20	15,213.23	-41.76	11.81	-41.76	0.56
175	15312	2.35	256.29	15,306.15	-42.58	15.58	-42.58	0.15
176	15406	2.77	254.75	15,400.06	-43.63	19.65	-43.63	0.45
177	15492	3.32	250.88	15,485.94	-44.99	24.01	-44.99	0.68
178	15608	1.85	247.92	15,601.82	-46.80	28.91	-46.80	1.27
179	15700	3.96	257.59	15,693.69	-48.04	33.39	-48.04	2.35
180	15731	4.57	255.92	15,724.61	-48.57	35.64	-48.57	2.01
181	15761	5.67	249.94	15,754.49	-49.37	38.19	-49.37	4.07
182	15792	5.49	249.76	15,785.34	-50.41	41.02	-50.41	0.58
183	15823	5.27	252.49	15,816.20	-51.35	43.77	-51.35	1.09
184	15854	5.05	262.24	15,847.08	-51.96	46.48	-51.96	2.91
185	15884	4.57	269.72	15,876.97	-52.15	48.98	-52.15	2.63
186	15915	4.75	267.43	15,907.87	-52.21	51.50	-52.21	0.83
187	15947	4.70	269.54	15,939.76	-52.28	54.13	-52.28	0.57
188	15979	3.34	251.79	15,971.68	-52.58	56.33	-52.58	5.71
189	16010	3.03	212.50	16,002.64	-53.55	57.63	-53.55	6.97
190	16042	1.98	175.41	16,034.61	-54.82	58.04	-54.82	5.87
191	16073	1.80	151.15	16,065.59	-55.78	57.76	-55.78	2.62
192	16102	2.33	153.88	16,094.57	-56.71	57.28	-56.71	1.86