

LONG's METHOD OF SURVEY COMPUTATION

30 - 015 - 35186

OBLIQUE CIRCULAR ARC INTERPOLATION

0	MD OF INTERPOLATION DEPTH,(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

STATION A	STATION B
0.00	ft

TABLE OF SURVEY STATIONS

Calculator =

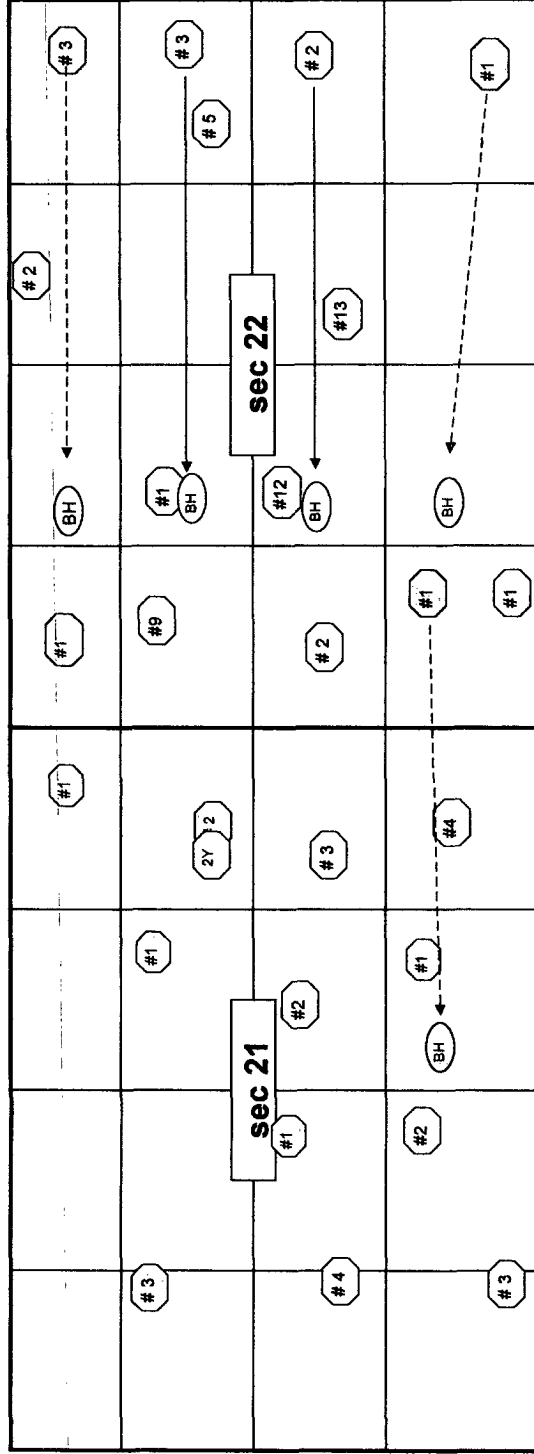
STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+/S- ft	E+/W- ft	DLS deg/100FT
1	TIE POINT ⇒	0	0	7225.00	7225.00	0.00	0.00	-
2	100	12	267.2242	7325.00	7324.27	-0.51	-10.42	12.00
3	100	24	267.2242	7425.00	7419.20	-2.00	-41.23	12.00
4	100	36	267.2242	7525.00	7505.65	-4.42	-91.08	12.00
5	100	48	267.2242	7625.00	7579.83	-7.65	-157.79	12.00
6	100	60	267.2242	7725.00	7638.50	-11.56	-238.45	12.00
7	100	72	267.2242	7825.00	7679.10	-15.98	-329.53	12.00
8	100	84	267.2242	7925.00	7699.85	-20.71	-427.05	12.00
9	50	91	267.2242	7975.00	7702.03	-23.12	-476.92	14.00
10	100	91	267.2242	8075.00	7700.28	-27.97	-576.78	0.00
11	100	91	267.2242	8175.00	7698.54	-32.81	-676.65	0.00
12	100	91	267.2242	8275.00	7696.79	-37.65	-776.52	0.00
13	100	91	267.2242	8375.00	7695.05	-42.49	-876.39	0.00
14	100	91	267.2242	8475.00	7693.30	-47.33	-976.25	0.00
15	100	91	267.2242	8575.00	7691.56	-52.18	-1076.12	0.00
16	100	91	267.2242	8675.00	7689.81	-57.02	-1175.99	0.00
17	100	91	267.2242	8775.00	7688.07	-61.86	-1275.86	0.00
18	100	91	267.2242	8875.00	7686.32	-66.70	-1375.72	0.00
19	100	91	267.2242	8975.00	7684.58	-71.54	-1475.59	0.00
20	100	91	267.2242	9075.00	7682.83	-76.39	-1575.46	0.00
21	100	91	267.2242	9175.00	7681.09	-81.23	-1675.33	0.00
22	100	91	267.2242	9275.00	7679.34	-86.07	-1775.19	0.00
23	100	91	267.2242	9375.00	7677.60	-90.91	-1875.06	0.00
24	100	91	267.2242	9475.00	7675.85	-95.75	-1974.93	0.00
25	100	91	267.2242	9575.00	7674.10	-100.60	-2074.80	0.00
26	100	91	267.2242	9675.00	7672.36	-105.44	-2174.66	0.00
27	100	91	267.2242	9775.00	7670.61	-110.28	-2274.53	0.00
28	100	91	267.2242	9875.00	7668.87	-115.12	-2374.40	0.00
29	100	91	267.2242	9975.00	7667.12	-119.96	-2474.27	0.00
30	100	91	267.2242	10075.00	7665.38	-124.81	-2574.13	0.00
31	100	91	267.2242	10175.00	7663.63	-129.65	-2674.00	0.00
32	100	91	267.2242	10275.00	7661.89	-134.49	-2773.87	0.00
33	100	91	267.2242	10375.00	7660.14	-139.33	-2873.74	0.00
34	100	91	267.2242	10475.00	7658.40	-144.17	-2973.60	0.00
35	100	91	267.2242	10575.00	7656.65	-149.02	-3073.47	0.00
36	100	91	267.2242	10675.00	7654.91	-153.86	-3173.34	0.00
37	100	91	267.2242	10775.00	7653.16	-158.70	-3273.21	0.00
38	26	91	267.2242	10801.00	7652.71	-159.96	-3299.17	0.00

GAINES 22 Fed # 1 Horizontal

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Sec 21, T-24-S, R-29-E, Eddy County, New Mexico

Sec 22, T-24-S, R-29-E, Eddy County, New Mexico



Well Name	Legal Location In 16	Depth and Strata	Current Prod Zone	Well Name	Legal Location In 16	Depth and Strata	Current Prod Zone
Gaines 22 # 1	820' FSL & 1300 FWL	Proposed 1st Bone Sand	Del production	Riverbend Fed # 3	1980 FNL & 330 FEL	TD = 10850 HORIZ 1ST BS	PROPOSED
Cedar Canyon 21 # 1	1660 FNL & 330 FEL	PTVD = 7730' 1ST Bone Sand	Bone production	Riverbend Fed # 2	1980 FSL & 330 FEL	TD = 10850 HORIZ 1ST BS	PROPOSED
Cedar Canyon 21 # 2	2310 FNL & 330 FEL	TD = 5392 Delaware	Del production	Riverbend Fed # 1	1650 FNL & 1650 FWL	TD = 5500 G-3	Delaware Production
Cedar Canyon 21 # 3	1650 FNL & 1300 FWL	TD = 2300' P&A	Well Never Produced	Riverbend Fed # 5	2310 FNL & 860 FEL	TD = 5420 G-6, G-3, LCC	Delaware Production
Cedar Canyon 21 # 4	1650 FNL & 1650 FEL	TD = 6890 Delaware, Dry hole	Well Never Produced	Riverbend Fed # 8	1650 FNL & 330 FWL	TD = 7900 1st Bone Sd	Delaware Production
Mitchel 21 # 1	2110 FSL & 1980 FEL	TD = 8900 2nd Bone Sand	Del production	Harroun 22 # 1	860 FNL & 330 FEL	TD = 10864 Hrz 1st Bone Sd	1st Bone Production
Mitchel 21 # 2	1737 FSL & 929 FEL	TD = 5450 Delaware	Del production	Harroun 22 # 2	330 FNL & 1980 FEL	TD = 5360' LCC sand	Delaware Production
Gaines 21 # 1	990 FSL & 1650 FEL	TD = 7850 Upper Bone Sand	Del production	Harroun 22 # 3	660 FNL & 330 FEL	TD = 5500 LCC sand	Delaware Production
Gaines 21 # 2	660 FSL & 660 FEL	TD = 5390 Delaware	Del production	Jackal 22 Fed # 1	990 FSL & 230 FWL	TD = 10864 Hrz 1st Bone Sd	1st Bone Production
Coyote 21 # 1	2310 FSL & 2310 FWL	TD = 5372' Delaware	Del production	Jackal 22 Fed # 2	1710 FSL & 630 FWL	NOT DRILLED	NOT DRILLED
Coyote 21 # 2	990 FSL & 2310 FWL	TD = 6800' Delaware	Del production	Riverbend 22 Fed # 12	2310 FSL & 1750 FWL	NOT DRILLED	NOT DRILLED
Coyote 21 # 3	330 FSL & 1300 FWL	TD = 5400' Delaware	Del production	Riverbend 22 Fed # 13	1650 FSL & 2310 FEL	NOT DRILLED	NOT DRILLED
Coyote 21 # 4	1650 FSL & 1300 FWL	TD = 5400' Delaware	Del production	VORTEC 22 # 1	330 FSL & 330 FEL	TD = 8200' HORIZONTAL	1st Bone Production