

SAN ISIDRO 15-7

RECEIVED
NOV 12 1991
OIL CON. DIV
DIST. 3

SIDETRACK # 2

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9th DAY OF

Oct. 9, 19
Ed Harris
Harris

NOTARY PUBLIC

COUNTY, TEXAS

Geoservices-Directional

Deviation report

Well : SAN ISIDRO ST#2
 Field : RIO PUERCO
 Company : VETERAN EXPLORATION

Coordinates

Well head : Target : Impact :
 X = 0.0 X = 0.0 X = 0.0
 Y = 0.0 Y = 0.0 Y = 0.0
 Z = 0.0 Z = 0.0 Z = 0.0

Horizontal displacement 0.00 ft
 Total vertical depth 0.00 ft Kick off point 0.00 ft
 Magnetic declination 0.00 deg Convergence 0.00 deg
 Horizontal projection computed in azimuth North 283.00 deg. (NW 77.00)

Surv no	Measured depth feet	Drift angle degree	Azimuth magnt. degree	Azimuth geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method :			Radius of curvature								
1	3000.0	0.00	180.00	180.00	3000.0	0.0	0.0	90.00	0.0 E	0.0 N	0.0
2	3383.0	5.25	148.50	148.50	3382.5	-8.4	17.3	164.25	4.7 E	16.7 S	1.4
3	3473.0	5.25	150.00	150.00	3472.1	-14.1	25.4	159.43	8.9 E	23.7 S	0.1
4	3566.0	5.13	151.00	151.00	3564.7	-19.8	33.7	157.21	13.1 E	31.1 S	0.2
5	3600.0	5.38	151.00	151.00	3598.6	-21.9	36.8	156.68	14.6 E	33.8 S	0.7
6	3631.0	6.13	174.50	174.50	3629.4	-23.5	39.9	157.15	15.5 E	36.7 S	7.9
7	3662.0	9.88	198.00	198.00	3660.1	-24.0	43.7	159.89	15.0 E	41.0 S	15.8
8	3692.0	14.25	209.50	209.50	3689.4	-22.8	48.4	165.03	12.5 E	46.7 S	16.5
9	3721.0	18.50	215.00	215.00	3717.2	-20.1	54.2	171.38	8.1 E	53.6 S	15.6
10	3751.0	22.75	217.50	217.50	3745.3	-15.9	62.2	178.26	1.9 E	62.2 S	14.4
11	3787.0	27.38	224.50	224.50	3777.9	-8.8	74.1	186.28	8.1 W	73.7 S	15.2
12	3808.0	29.00	228.50	228.50	3796.4	-3.3	81.9	190.77	15.3 W	80.5 S	11.8
13	3834.0	27.13	228.00	228.00	3819.4	3.8	91.9	195.41	24.4 W	88.6 S	7.2
14	3864.0	26.38	227.00	227.00	3846.2	11.4	103.6	199.38	34.4 W	97.8 S	2.9
15	3895.0	25.50	227.50	227.50	3874.0	19.0	115.8	202.52	44.3 W	107.0 S	2.9
16	3926.0	24.25	224.50	224.50	3902.2	26.1	127.8	204.85	53.7 W	116.0 S	5.7
17	3956.0	23.38	224.00	224.00	3929.6	32.4	139.3	206.50	62.2 W	124.7 S	3.0
18	3987.0	22.38	224.00	224.00	3958.2	38.6	150.9	207.88	70.6 W	133.4 S	3.2
19	4002.0	22.00	225.00	225.00	3972.1	41.6	156.3	208.47	74.5 W	137.4 S	3.5
20	4013.0	21.38	222.00	222.00	3982.3	43.7	160.2	208.85	77.3 W	140.3 S	11.5
21	4042.0	20.25	220.50	220.50	4009.4	48.5	170.3	209.60	84.1 W	148.1 S	4.3
22	4073.0	21.25	221.00	221.00	4038.4	53.6	181.1	210.27	91.3 W	156.4 S	3.3
23	4104.0	23.25	222.50	222.50	4067.1	59.3	192.6	210.96	99.1 W	165.2 S	6.7
24	4136.0	25.25	224.50	224.50	4096.2	66.0	205.5	211.76	108.1 W	174.7 S	6.7
25	4165.0	27.63	225.50	225.50	4122.2	72.8	218.1	212.53	117.3 W	183.8 S	8.3
26	4195.0	29.88	225.50	225.50	4148.5	80.6	232.1	213.33	127.6 W	194.0 S	7.5
27	4242.0	33.75	225.00	225.00	4188.4	93.8	256.4	214.48	145.2 W	211.4 S	8.2
28	4273.0	37.88	227.00	227.00	4213.6	103.7	274.2	215.23	158.2 W	224.0 S	13.8
29	4302.0	42.88	227.00	227.00	4235.6	114.2	292.6	215.98	171.9 W	236.8 S	17.2
30	4333.0	48.63	226.00	226.00	4257.3	126.4	314.5	216.72	188.0 W	252.1 S	18.7
31	4362.0	54.00	226.00	226.00	4275.4	138.7	336.8	217.34	204.3 W	267.8 S	18.5
32	4393.0	58.50	229.50	229.50	4292.6	153.4	362.2	218.08	223.4 W	285.1 S	17.3
33	4423.0	62.75	234.00	234.00	4307.3	169.8	387.7	218.99	243.9 W	301.3 S	19.3
34	4454.0	67.63	237.50	237.50	4320.3	188.9	414.7	220.11	267.2 W	317.1 S	18.8
35	4474.0	70.38	239.00	239.00	4327.5	202.1	432.4	220.88	283.0 W	327.0 S	15.4

Geoservices-Directional

Deviation report

Well :
Field :
Company :

SAN ISIDRO ST#2
RIO PUERCO
VETERAN EXPLORATION

Surv no	Measured depth feet	Drift angle degree	Azimut magnt. degree	Azimut geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	.Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method :			Radius of curvature								
36	4501.0	71.38	237.00	237.00	4336.3	220.2	456.9	221.82	304.7 W	340.5 S	7.9
37	4536.0	70.50	239.00	239.00	4347.8	243.6	488.7	222.90	332.7 W	358.0 S	5.9
38	4577.0	71.38	239.00	239.00	4361.1	271.4	526.1	224.07	365.9 W	378.0 S	2.1
39	4607.0	75.63	238.00	238.00	4369.7	292.0	554.0	224.82	390.5 W	393.0 S	14.5
40	4637.0	80.88	237.50	237.50	4375.8	312.6	582.6	225.46	415.3 W	408.7 S	17.6
41	4668.0	86.75	236.00	236.00	4379.1	333.9	612.9	226.03	441.1 W	425.5 S	19.5
42	4689.0	87.50	236.00	236.00	4380.2	348.2	633.5	226.35	458.4 W	437.3 S	3.5
43	4720.0	86.88	237.50	237.50	4381.7	369.6	664.0	226.84	484.3 W	454.2 S	5.2
44	4750.0	87.00	238.00	238.00	4383.3	390.7	693.5	227.30	509.7 W	470.2 S	1.7
45	4782.0	88.13	238.50	238.50	4384.6	413.4	724.9	227.78	536.9 W	487.1 S	3.8
46	4813.0	89.63	238.50	238.50	4385.2	435.5	755.3	228.22	563.3 W	503.2 S	4.8
47	4843.0	91.63	238.00	238.00	4384.9	456.8	784.9	228.60	588.8 W	519.0 S	6.9
48	4874.0	93.88	238.00	238.00	4383.4	478.7	815.5	228.96	615.0 W	535.4 S	7.2
49	4904.0	95.50	238.00	238.00	4381.0	499.9	845.0	229.28	640.4 W	551.3 S	5.4
50	4935.0	97.00	238.00	238.00	4377.6	521.7	875.5	229.58	666.5 W	567.6 S	4.8
51	4967.0	97.75	238.00	238.00	4373.5	544.1	906.9	229.88	693.5 W	584.4 S	2.3
52	4998.0	98.50	238.00	238.00	4369.1	565.8	937.3	230.14	719.5 W	600.7 S	2.4
53	5029.0	97.38	238.00	238.00	4364.8	587.5	967.7	230.39	745.5 W	617.0 S	3.6
54	5061.0	96.63	238.00	238.00	4360.9	610.0	999.2	230.63	772.4 W	633.8 S	2.3
55	5090.0	96.63	238.00	238.00	4357.6	630.3	1027.8	230.84	796.9 W	649.1 S	0.0
56	5122.0	96.25	238.50	238.50	4354.0	652.9	1059.3	231.06	823.9 W	665.8 S	1.9
57	5152.0	94.50	238.00	238.00	4351.2	674.1	1088.9	231.26	849.3 W	681.5 S	6.0
58	5184.0	92.13	238.00	238.00	4349.3	696.7	1120.7	231.45	876.4 W	698.4 S	7.4
59	5215.0	90.25	238.00	238.00	4348.7	718.6	1151.5	231.62	902.7 W	714.9 S	6.1
60	5247.0	89.63	238.00	238.00	4348.7	741.3	1183.3	231.80	929.8 W	731.8 S	1.9
61	5278.0	89.38	238.00	238.00	4349.0	763.2	1214.1	231.95	956.1 W	748.2 S	0.8
62	5310.0	88.00	239.00	239.00	4349.7	786.0	1245.9	232.12	983.4 W	765.0 S	5.3
63	5341.0	87.00	238.50	238.50	4351.1	808.2	1276.6	232.28	1009.9 W	781.0 S	3.6
64	5372.0	87.13	239.00	239.00	4352.7	830.4	1307.4	232.43	1036.3 W	797.1 S	1.6
65	5403.0	87.13	239.00	239.00	4354.2	852.6	1338.2	232.59	1062.9 W	813.0 S	0.0
66	5434.0	87.63	239.50	239.50	4355.6	875.0	1368.9	232.74	1089.5 W	828.9 S	2.3
67	5465.0	87.38	239.50	239.50	4357.0	897.5	1399.7	232.89	1116.2 W	844.6 S	0.8
68	5496.0	86.88	239.00	239.00	4358.5	919.8	1430.5	233.02	1142.8 W	860.4 S	2.3
69	5526.0	86.75	240.00	240.00	4360.2	941.6	1460.2	233.16	1168.6 W	875.6 S	3.3
70	5558.0	86.75	240.00	240.00	4362.0	964.9	1492.0	233.30	1196.3 W	891.6 S	0.0
71	5589.0	86.50	240.00	240.00	4363.8	987.6	1522.7	233.44	1223.1 W	907.1 S	0.8
72	5619.0	87.88	240.00	240.00	4365.3	1009.5	1552.5	233.56	1249.0 W	922.0 S	4.6
73	5650.0	89.13	239.50	239.50	4366.1	1032.1	1583.3	233.69	1275.8 W	937.7 S	4.3
74	5682.0	89.50	240.50	240.50	4366.5	1055.5	1615.1	233.81	1303.5 W	953.7 S	3.3
75	5713.0	89.25	240.50	240.50	4366.8	1078.3	1645.9	233.94	1330.5 W	968.9 S	0.8
76	5744.0	89.13	241.00	241.00	4367.3	1101.3	1676.7	234.06	1357.5 W	984.1 S	1.6
77	5776.0	89.38	241.00	241.00	4367.7	1125.0	1708.4	234.19	1385.5 W	999.6 S	0.7
78	5807.0	90.13	242.00	242.00	4367.8	1148.3	1739.2	234.32	1412.7 W	1014.4 S	4.0

Geoservices-Directional

Deviation report

Well : SAN ISIDRO ST#2
 Field : RIO PUERCO
 Company : VETERAN EXPLORATION

Surv no	Measured depth feet	Drift angle degree	Azimut magnt. degree	Azimut geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	.Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method :			Radius of curvature								
79	5838.0	89.88	242.00	242.00	4367.8	1171.6	1769.9	234.46	1440.1 W	1028.9 S	0.8
80	5870.0	90.25	241.50	241.50	4367.8	1195.7	1801.7	234.58	1468.3 W	1044.1 S	1.9
81	5891.0	90.88	242.00	242.00	4367.6	1211.5	1822.5	234.67	1486.8 W	1054.0 S	3.8
82	5901.0	90.88	242.50	242.50	4367.4	1219.1	1832.4	234.71	1495.6 W	1058.7 S	5.0
83	5933.0	91.00	242.00	242.00	4366.9	1243.3	1864.1	234.84	1524.0 W	1073.6 S	1.6
84	5964.0	91.00	241.50	241.50	4366.4	1266.6	1894.9	234.95	1551.3 W	1088.2 S	1.6
85	5996.0	90.00	242.00	242.00	4366.1	1290.7	1926.7	235.06	1579.4 W	1103.4 S	3.5
86	6027.0	88.38	241.50	241.50	4366.5	1314.0	1957.5	235.17	1606.8 W	1118.0 S	5.5
87	6056.0	86.63	241.50	241.50	4367.8	1335.7	1986.3	235.26	1632.2 W	1131.9 S	6.0
88	6088.0	85.50	241.50	241.50	4370.0	1359.6	2018.0	235.36	1660.3 W	1147.1 S	3.5
89	6119.0	85.25	241.00	241.00	4372.5	1382.6	2048.7	235.45	1687.4 W	1162.0 S	1.8
90	6153.0	85.50	240.50	240.50	4375.2	1407.7	2082.5	235.53	1716.9 W	1178.5 S	1.6
91	6185.0	85.13	240.00	240.00	4377.8	1431.1	2114.3	235.60	1744.6 W	1194.4 S	1.9
92	6216.0	84.63	241.00	241.00	4380.6	1453.9	2145.0	235.68	1771.5 W	1209.6 S	3.6

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