

SAN ISIDRO 15-7

RECEIVED

NOV 1 2 1991

OIL CON. DIV.
DIST. 3

SIDETRACK # 3

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9th DAY OF

Oct 19 91
[Signature]
Harris

NOTARY PUBLIC

COUNTY, TEXAS

Geoservices-Directional

Deviation report

Well : SAN ISIDRO ST#3
 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 238.00 deg. (SW 58.00)

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	4.9	17.3	164.25	4.7 E	16.7 S	1.4
3	3473.0	5.25	150.00	150.00	3472.1	5.1	25.4	159.43	8.9 E	23.7 S	0.1
4	3566.0	5.13	151.00	151.00	3564.7	5.5	33.7	157.21	13.1 E	31.1 S	0.2
5	3600.0	6.13	174.50	174.50	3598.5	6.3	37.0	157.70	14.0 E	34.2 S	7.3
6	3631.0	6.13	174.50	174.50	3629.4	7.8	40.2	159.07	14.4 E	37.5 S	0.0
7	3662.0	9.88	198.00	198.00	3660.1	10.5	44.0	161.62	13.9 E	41.8 S	15.8
8	3692.0	14.25	209.50	209.50	3689.4	15.6	48.9	166.55	11.4 E	47.5 S	16.5
9	3721.0	18.50	215.00	215.00	3717.2	23.0	54.9	172.66	7.0 E	54.4 S	15.6
10	3751.0	22.75	217.50	217.50	3745.3	32.8	62.9	179.31	0.8 E	62.9 S	14.4
11	3787.0	27.38	224.50	224.50	3777.9	47.4	75.0	187.07	9.2 W	74.4 S	15.2
12	3808.0	29.00	228.50	228.50	3796.4	57.1	82.9	191.43	16.4 W	81.3 S	11.8
13	3834.0	27.13	228.00	228.00	3819.3	69.2	93.0	195.95	25.6 W	89.4 S	7.2
14	3864.0	26.38	227.00	227.00	3846.1	82.4	104.7	199.82	35.5 W	98.5 S	2.9
15	3895.0	25.50	227.50	227.50	3874.0	95.8	116.9	202.88	45.5 W	107.7 S	2.9
16	3926.0	24.25	224.50	224.50	3902.1	108.5	129.0	205.15	54.8 W	116.8 S	5.7
17	3956.0	23.38	224.00	224.00	3929.6	120.3	140.5	206.77	63.3 W	125.5 S	3.0
18	3987.0	22.38	224.00	224.00	3958.1	132.0	152.1	208.12	71.7 W	134.1 S	3.2
19	4002.0	22.00	225.00	225.00	3972.0	137.5	157.5	208.70	75.6 W	138.2 S	3.5
20	4013.0	21.38	222.00	222.00	3982.2	141.4	161.5	209.06	78.4 W	141.1 S	11.5
21	4042.0	20.25	220.50	220.50	4009.3	151.3	171.6	209.79	85.2 W	148.9 S	4.3
22	4073.0	21.25	221.00	221.00	4038.3	161.8	182.4	210.45	92.4 W	157.2 S	3.3
23	4104.0	23.25	222.50	222.50	4067.0	173.1	193.9	211.13	100.2 W	166.0 S	6.7
24	4136.0	25.25	224.50	224.50	4096.2	185.8	206.7	211.91	109.3 W	175.5 S	6.7
25	4165.0	27.63	225.50	225.50	4122.2	198.4	219.3	212.67	118.4 W	184.6 S	8.3
26	4195.0	29.88	225.50	225.50	4148.5	212.4	233.4	213.46	128.7 W	194.7 S	7.5
27	4242.0	33.75	225.00	225.00	4188.4	236.6	257.7	214.58	146.3 W	212.2 S	8.2
28	4273.0	37.88	227.00	227.00	4213.5	254.3	275.5	215.33	159.3 W	224.8 S	13.8
29	4302.0	42.88	227.00	227.00	4235.6	272.8	293.9	216.07	173.1 W	237.6 S	17.2
30	4333.0	48.63	226.00	226.00	4257.2	294.5	315.8	216.80	189.2 W	252.9 S	18.7
31	4362.0	54.00	226.00	226.00	4275.3	316.7	338.2	217.41	205.4 W	268.6 S	18.5
32	4393.0	58.50	229.50	229.50	4292.6	342.0	363.5	218.14	224.5 W	285.9 S	17.3
33	4423.0	62.75	234.00	234.00	4307.3	368.0	389.0	219.05	245.0 W	302.1 S	19.3
34	4454.0	67.63	237.50	237.50	4320.3	396.1	416.0	220.16	268.3 W	317.9 S	18.8
35	4474.0	70.38	239.00	239.00	4327.4	414.8	433.8	220.93	284.2 W	327.7 S	15.4

Geoservices-Directional

Deviation report

Well :
Field :
Company :

SAN ISIDRO ST#3
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	440.3	458.2	221.86	305.8 W	341.3 S	7.9
37	4536.0	70.50	239.00	239.00	4347.7	473.4	490.1	222.94	333.8 W	358.8 S	5.9
38	4577.0	71.38	239.00	239.00	4361.1	512.1	527.4	224.10	367.1 W	378.7 S	2.1
39	4607.0	75.63	238.00	238.00	4369.6	540.9	555.3	224.84	391.6 W	393.8 S	14.5
40	4637.0	80.88	237.50	237.50	4375.7	570.2	584.0	225.48	416.4 W	409.4 S	17.6
41	4668.0	86.75	236.00	236.00	4379.1	601.0	614.2	226.05	442.2 W	426.3 S	19.5
42	4689.0	87.50	236.00	236.00	4380.1	622.0	634.9	226.37	459.6 W	438.1 S	3.5
43	4720.0	86.88	237.50	237.50	4381.6	653.0	665.4	226.85	485.5 W	455.0 S	5.2
44	4750.0	87.00	238.00	238.00	4383.2	682.9	694.8	227.32	510.8 W	471.0 S	1.7
45	4782.0	88.13	238.50	238.50	4384.6	714.9	726.2	227.80	538.0 W	487.8 S	3.8
46	4813.0	89.63	238.50	238.50	4385.2	745.9	756.7	228.23	564.4 W	504.0 S	4.8
47	4843.0	91.63	238.00	238.00	4384.9	775.9	786.3	228.61	589.9 W	519.8 S	6.9
48	4874.0	93.88	238.00	238.00	4383.4	806.8	816.8	228.97	616.2 W	536.2 S	7.2
49	4904.0	95.50	238.00	238.00	4380.9	836.7	846.4	229.29	641.5 W	552.1 S	5.4
50	4933.0	97.00	238.00	238.00	4377.8	865.6	874.9	229.57	666.0 W	567.3 S	5.1
51	4967.0	97.75	238.00	238.00	4373.4	899.3	908.2	229.88	694.6 W	585.2 S	2.2
52	4998.0	98.50	238.00	238.00	4369.0	930.0	938.6	230.15	720.6 W	601.5 S	2.4
53	5029.0	97.38	238.00	238.00	4364.7	960.7	969.1	230.40	746.6 W	617.7 S	3.6
54	5061.0	96.63	238.00	238.00	4360.8	992.4	1000.6	230.64	773.6 W	634.6 S	2.3
55	5090.0	96.63	238.00	238.00	4357.5	1021.2	1029.1	230.84	798.0 W	649.8 S	0.0
56	5122.0	96.25	238.50	238.50	4353.9	1053.0	1060.7	231.06	825.0 W	666.6 S	1.9
57	5152.0	94.50	238.00	238.00	4351.1	1082.9	1090.3	231.26	850.4 W	682.3 S	6.0
58	5184.0	92.13	238.00	238.00	4349.2	1114.8	1122.0	231.45	877.5 W	699.2 S	7.4
59	5215.0	90.25	238.00	238.00	4348.6	1145.8	1152.8	231.63	903.8 W	715.6 S	6.1
60	5247.0	89.63	238.00	238.00	4348.6	1177.8	1184.6	231.80	930.9 W	732.6 S	1.9
61	5278.0	89.38	238.00	238.00	4348.9	1208.8	1215.5	231.96	957.2 W	749.0 S	0.8
62	5310.0	88.00	239.00	239.00	4349.6	1240.8	1247.2	232.12	984.5 W	765.7 S	5.3
63	5341.0	87.00	238.50	238.50	4351.0	1271.8	1278.0	232.28	1011.0 W	781.8 S	3.6
64	5372.0	87.13	239.00	239.00	4352.6	1302.8	1308.8	232.44	1037.5 W	797.9 S	1.6
65	5403.0	87.13	239.00	239.00	4354.1	1333.7	1339.5	232.59	1064.0 W	813.8 S	0.0
66	5434.0	87.63	239.50	239.50	4355.5	1364.7	1370.3	232.74	1090.6 W	829.7 S	2.3
67	5465.0	87.38	239.50	239.50	4356.9	1395.6	1401.1	232.89	1117.3 W	845.4 S	0.8
68	5496.0	86.88	239.00	239.00	4358.4	1426.6	1431.8	233.03	1143.9 W	861.2 S	2.3
69	5526.0	86.75	240.00	240.00	4360.1	1456.5	1461.6	233.16	1169.7 W	876.4 S	3.3
70	5558.0	86.75	240.00	240.00	4361.9	1488.5	1493.3	233.30	1197.4 W	892.4 S	0.0
71	5589.0	86.50	240.00	240.00	4363.8	1519.4	1524.1	233.44	1224.2 W	907.8 S	0.8
72	5619.0	87.88	240.00	240.00	4365.2	1549.3	1553.8	233.57	1250.1 W	922.8 S	4.6
73	5650.0	89.13	239.50	239.50	4366.0	1580.3	1584.7	233.69	1276.9 W	938.4 S	4.3
74	5682.0	89.50	240.50	240.50	4366.4	1612.3	1616.5	233.81	1304.6 W	954.4 S	3.3
75	5713.0	89.25	240.50	240.50	4366.8	1643.2	1647.3	233.94	1331.6 W	969.7 S	0.8
76	5744.0	89.13	241.00	241.00	4367.2	1674.2	1678.0	234.06	1358.6 W	984.9 S	1.6
77	5776.0	89.38	241.00	241.00	4367.6	1706.2	1709.8	234.19	1386.6 W	1000.4 S	0.7
78	5807.0	90.13	242.00	242.00	4367.7	1737.1	1740.6	234.32	1413.9 W	1015.2 S	4.0

Geoservices-Directional

Deviation report

Well : SAN ISIDRO ST#3
 Field : RIO PUERCO
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Computation method :			Radius of curvature								
79	5838.0	89.88	242.00	242.00	4367.7	1768.0	1771.3	234.46	1441.2 W	1029.7 S	0.8
80	5870.0	90.25	241.50	241.50	4367.7	1800.0	1803.0	234.58	1469.4 W	1044.9 S	1.9
81	5891.0	90.88	242.00	242.00	4367.5	1820.9	1823.9	234.67	1487.9 W	1054.8 S	3.8
82	5901.0	90.88	242.50	242.50	4367.3	1830.9	1833.8	234.71	1496.8 W	1059.5 S	5.0
83	5935.0	89.75	240.00	240.00	4367.2	1864.8	1867.6	234.83	1526.6 W	1075.8 S	8.1
84	5966.0	86.25	238.00	238.00	4368.2	1895.8	1898.4	234.89	1553.1 W	1091.8 S	13.0
85	5998.0	83.75	234.50	234.50	4371.0	1927.7	1930.3	234.92	1579.6 W	1109.5 S	13.4
86	6028.0	84.13	232.00	232.00	4374.2	1957.4	1960.1	234.89	1603.5 W	1127.3 S	8.4
87	6059.0	86.50	232.00	232.00	4376.7	1988.1	1991.0	234.85	1627.9 W	1146.3 S	7.6
88	6090.0	88.88	232.00	232.00	4378.0	2018.9	2021.9	234.80	1652.3 W	1165.4 S	7.6
89	6121.0	90.75	229.50	229.50	4378.1	2049.7	2052.8	234.74	1676.3 W	1185.0 S	10.1
90	6152.0	93.25	226.50	226.50	4377.0	2080.2	2083.6	234.64	1699.3 W	1205.7 S	12.6
91	6184.0	94.38	228.50	228.50	4374.9	2111.6	2115.3	234.53	1722.8 W	1227.3 S	7.2
92	6215.0	93.00	229.00	229.00	4372.9	2142.1	2146.1	234.45	1746.1 W	1247.7 S	4.7
93	6246.0	91.50	231.50	231.50	4371.6	2172.8	2177.0	234.39	1769.9 W	1267.5 S	9.4
94	6278.0	90.38	236.00	236.00	4371.1	2204.7	2208.9	234.38	1795.7 W	1286.4 S	14.5
95	6309.0	90.50	238.50	238.50	4370.9	2235.7	2239.9	234.42	1821.8 W	1303.2 S	8.1
96	6340.0	90.50	237.00	237.00	4370.6	2266.7	2270.8	234.47	1848.0 W	1319.7 S	4.8
97	6370.0	90.75	236.00	236.00	4370.3	2296.7	2300.8	234.49	1873.0 W	1336.3 S	3.4
98	6401.0	90.75	236.00	236.00	4369.9	2327.7	2331.8	234.51	1898.7 W	1353.6 S	0.0
99	6433.0	90.25	235.50	235.50	4369.6	2359.6	2363.8	234.53	1925.1 W	1371.6 S	2.2
100	6464.0	89.88	235.50	235.50	4369.6	2390.6	2394.8	234.54	1950.7 W	1389.2 S	1.2
101	6495.0	90.00	235.50	235.50	4369.6	2421.6	2425.8	234.56	1976.2 W	1406.7 S	0.4
102	6527.0	90.00	235.00	235.00	4369.6	2453.5	2457.8	234.56	2002.5 W	1425.0 S	1.6
103	6558.0	89.50	235.00	235.00	4369.7	2484.5	2488.8	234.57	2027.9 W	1442.8 S	1.6
104	6587.0	89.50	235.00	235.00	4370.0	2513.5	2517.8	234.58	2051.7 W	1459.4 S	0.0
105	6618.0	89.75	234.50	234.50	4370.2	2544.4	2548.8	234.58	2077.0 W	1477.3 S	1.8
106	6650.0	89.88	234.50	234.50	4370.3	2576.4	2580.8	234.58	2103.0 W	1495.9 S	0.4
107	6681.0	90.25	234.50	234.50	4370.3	2607.3	2611.8	234.58	2128.3 W	1513.9 S	1.2
108	6712.0	90.63	234.50	234.50	4370.0	2638.2	2642.8	234.57	2153.5 W	1531.9 S	1.2
109	6743.0	90.25	234.50	234.50	4369.8	2669.2	2673.8	234.57	2178.8 W	1549.9 S	1.2
110	6772.0	90.38	234.50	234.50	4369.6	2698.1	2702.8	234.57	2202.4 W	1566.7 S	0.4
111	6815.0	90.50	234.00	234.00	4369.3	2741.0	2745.8	234.57	2237.3 W	1591.8 S	1.2
112	6846.0	90.63	234.00	234.00	4369.0	2772.0	2776.8	234.56	2262.3 W	1610.1 S	0.4
113	6945.0	90.38	233.50	233.50	4368.1	2870.7	2875.8	234.53	2342.2 W	1668.6 S	0.6
114	7007.0	90.50	233.00	233.00	4367.6	2932.5	2937.7	234.51	2391.9 W	1705.7 S	0.8
115	7067.0	91.50	233.50	233.50	4366.6	2992.2	2997.7	234.48	2439.9 W	1741.6 S	1.8
116	7100.0	91.63	233.00	233.00	4365.7	3025.1	3030.7	234.47	2466.4 W	1761.3 S	1.5
117	7130.0	91.63	232.50	232.50	4364.8	3055.0	3060.7	234.45	2490.2 W	1779.5 S	1.7
118	7161.0	91.50	232.50	232.50	4364.0	3085.8	3091.6	234.43	2514.8 W	1798.3 S	0.4
119	7192.0	91.50	232.00	232.00	4363.2	3116.7	3122.6	234.41	2539.3 W	1817.3 S	1.6
120	7222.0	91.13	231.50	231.50	4362.5	3146.5	3152.6	234.38	2562.9 W	1835.9 S	2.1
121	7254.0	90.75	231.50	231.50	4362.0	3178.3	3184.5	234.36	2587.9 W	1855.8 S	1.2

DETECTION EXPLOITATION 110 JUL80

1411
 110 11000 1140

1100 1100

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1100 1100 1100

1100 1100 1100

1100 1100 1100

1100 1100 1100

1100 1100 1100

5000

NEUTRON EXPLORATION
WELL

WELL
LOG (1000-174)

LOG 0.0

2500

Depth 100
H. Depth 1004.00
L. Depth 100.75
G. Depth 100.50

H. Depth 1004.07
H. Depth 1004.54
L. Depth 100.00
H. Depth 1005.00
G. Depth 100.36

1500

H. Depth 1007.76
H. Depth 1008.00

INTERNAL EXPLORATION
AND PULSED

1. 1000 10100
2. 1000 10100 ST
3. 1000 10100 ST
4. 1000 10100 ST

UTERAN EXPLORATIO
AND TULHO

17 JAN 1910
17 JAN 1910 ST
17 JAN 1910 ST
17 JAN 1910 ST