



REPORT

of

SUB-SURFACE DIRECTIONAL SURVEY

NOW
EASTMAN INTECO
a Baker Hughes company

RECEIVED
NOV 13 1992
OIL CON. DIV.
DIST. 3

Amoco Production Company

COMPANY

Sullivan GCE #1

WELL NAME

San Juan County, New Mexico

LOCATION

JOB NUMBER

410-2636

TYPE OF SURVEY

Single Shot

DATE

10-16-92

SURVEY BY
Mike Robbins

OFFICE
410-RMT

AMOCO PRODUCTION COMPANY
SULLIVAN G.C.E. NO.1

SULLIVAN G.C. 'E' NO.1
slot #1
BLANCO FRUITLAND
SAN JUAN COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

Your ref : S.S SURVEY KOP-TD
Our ref : svy2607
Other ref :

Date printed : 5-Nov-92
Date created : 16-Oct-92
Last revised : 5-Nov-92

Field is centred on n36 57 0.000,w107 50 0
Structure is centred on n36 57 0.000,w107 50 0

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
312.00	0.00	0.00	312.00	0.00 N	0.00 E	0.00	0.00
532.00	0.75	52.00	531.99	0.89 N	1.13 E	0.34	1.23
777.00	0.25	162.00	776.99	1.36 N	2.56 E	0.35	2.18
840.00	2.50	27.00	839.97	2.46 N	3.23 E	4.26	3.44
903.00	8.25	36.00	902.66	7.34 N	6.51 E	9.20	9.18
938.00	10.75	37.00	937.18	11.98 N	9.95 E	7.16	14.73
969.00	11.00	36.00	967.62	16.68 N	13.43 E	1.01	20.36
1001.00	11.00	37.00	999.04	21.59 N	17.06 E	0.60	26.24
1032.00	11.25	34.00	1029.46	26.46 N	20.54 E	2.03	32.02
1063.00	11.00	33.00	1059.87	31.45 N	23.84 E	1.02	37.86
1187.00	11.25	33.00	1181.54	51.52 N	36.87 E	0.20	61.24
1310.00	10.75	33.00	1302.28	71.20 N	49.65 E	0.41	84.18
1371.00	10.25	36.00	1362.26	80.36 N	55.94 E	1.21	94.98
1494.00	11.50	34.00	1483.05	99.38 N	69.23 E	1.06	117.47
1618.00	13.50	33.00	1604.10	121.77 N	84.02 E	1.62	143.65
1742.00	14.50	35.00	1724.42	146.62 N	100.81 E	0.90	172.85
1867.00	16.00	34.00	1845.02	173.73 N	119.42 E	1.22	204.79
1988.00	18.75	31.00	1960.49	204.23 N	138.77 E	2.39	240.17
2139.00	20.50	29.00	2102.71	248.16 N	164.09 E	1.24	290.22
2232.00	21.25	27.00	2189.61	277.42 N	179.63 E	1.11	323.09
2283.00	21.66	27.00	2237.07	294.04 N	188.10 E	0.80	341.64
2410.00	21.66	27.00	2355.10	335.81 N	209.38 E	0.00	388.24 PROJECTED-TOP OF FRUITLAND
2887.00	21.66	27.00	2798.42	492.68 N	289.31 E	0.00	563.26 PROJECTED-PICTURE CLIFFS

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 20.77 degrees.
Calculation uses the minimum curvature method.

AMOCO PRODUCTION COMPANY
SULLIVAN G.C.E. NO.1, SULLIVAN G.C. 'E' NO.1
BLANCO FRUITLAND, SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : S.S SURVEY KOP-TD
Last revised : 5-Nov-92

Comments in wellpath
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MD	TVD	Rectangular Coords.		Comment
2410.00	2355.10	335.81 N	209.38 E	PROJECTED-TOP OF FRUITLAND
2887.00	2798.42	492.68 N	289.31 E	PROJECTED-PICTURE CLIFFS

Targets associated with this wellpath
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Target name	Position	T.V.D. Local rectangular coords. Date revised			
Target	not specified	2209.00	390.00N	110.00E	8-Oct-91

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Slot coordinates are 0.00 N 0.00 E.
Bottom hole distance is 571.34 on azimuth 30.42 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 20.77 degrees.
Calculation uses the minimum curvature method.

SURVEY CERTIFICATION SHEET

Company Amoco Production Co. Job # 410-2636 Date 10-16-92
Lease Sullivan GCE Well # 1 State New Mexico
Surveyed from a depth of 312 feet to a depth of 2,283 feet.
Type of Survey Single Shot
Directional Supervisor/Surveyor Mike Robbins

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Eastman Teleco Company. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site.

Checked by:

Alex M. Kean
District Drilling Engineer

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 10th day of November, 1992.

Jayce A. Oakes My commission expires August 4, 1996
Notary