R/RADV 01

Date: 03-05-94.

Client :
Well Name : SAUDONE 1 DIR
Location : SAUDONE
: FOGGIA
:

Date
Filename : SAUDO1R

No Interpolation

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30	TOOL
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
255.0	0.0	0.0	255.0	0.0	0.0	0.0	0.0	0.0	0.0	0
485.0	0.0	0.0	485.0	0.0	0.0	0.0	0.0	0.0	0.0	0
579.0	0.0	0.0	579.0	0.0	0.0	0.0	0.0	0.0	0.0	0
732.0	0.4	76.8	732.0	0.1	0.5	0.2	0.1	0.1	15.1	0
834.0	0.4	111.9	834.0	0.1	1.2	0.3	0.1	0.0	10.3	0
949.0	0.7	96.8	949.0	-0.2	2.3	0.2	0.1	0.1	-3.9	0
977.0	0.5	107.2	977.0	-0.2	2.6	0.2	0.2	-0.2	11.2	0
1005.0	1.2	62.4	1005.0	-0.1	2.9	0.3	1.0	0.7	-48.0	0
1034.0	3.4	33.0	1034.0	0.7	3.7	1.3	2.5	2.3	-30.5	0
1063.0	4.8	25.7	1062.9	2.6	4.7	3.2	1.5	1.4	-7.5	0
1091.0	6.7	21.7	1090.7	5.1	5.8	5.9	2.1	2.0	-4.3	0
120.0	9.1	15.8	1119.5	8.9	7.0	9.9	2.6	2.5	-6.1	0
1149.0	11.7	11.9	1148.0	14.0	8.3	15.1	2.8	2.7	-4.0	0
1177.0	14.5	11.8	1175.3	20.2	9.6	21.4	3.0	3.0	-0.1	0
1205.0	16.7	9.9	1202.2	27.6	11.0	28.9	2.4	2.4	-2.0	0
1234.0	18.8	8.6	1229.8	36.3	12.4	37.8	2.2	2.2	-1.3	0
1262.0	20.3	8.8	1256.2	45.6	13.8	47.2	1.6	1.6	0.2	0
1291.0	21.2	10.3	1283.3	55.7	15.5	57.4	1.1	0.9	1.6	0
1311.0	21.7	13.1	1302.0	62.9	17.0	64.7	1.7	0.8	4.2	0
1339.0	22.2	10.6	1327.9	73.1	19.1	75.2	1.1	0.5	-2.7	0
1367.0	22.3	9.4	1353.8	83.6	21.0	85.8	0.5	0.1	-1.3	0
1396.0	22.5	9.8	1380.7	94.5	22.8	96.8	0.3	0.2	0.4	0
1424.0	22.5	9.7	1406.5	105.0	24.6	107.5	0.0	0.0	-0.1	0
1453.0	22.6	9.1	1433.3	116.0	26.4	118.7	0.3	0.1	-0.6	0
1481.0	22.5	8.6	1459.2	126.6	28.1	129.4	0.2	-0.1	-0.5	0
1509.0	22.2	9.7	1485.1	137.1	29.8	140.0	0.5	-0.2	1.1	0
1537.0	21.9	8.8	1511.0	147.5	31.5	150.6	0.5	-0.3	-0.9	0
1566.0	22.2	9.2	1537.9	158.2	33.2	161.4	0.3	0.3	0.5	0
1594.0	22.4	8.5	1563.8	168.7	34.8	172.1	0.4	0.2	-0.8	0
1623.0	22.3	8.9	1590.6	179.6	36.5	183.1	0.2	-0.1	0.4	0
1651.0	22.5	8.5	1616.5	190.2	38.1	193.8	0.2	0.2	-0.4	0
1680.0	22.2	8.4	1643.3	201.1	39.7	204.8	0.2	-0.2	-0.1	0
1708.0	22.1	8.1	1669.3	211.5	41.2	215.4	0.2	-0.1	-0.4	0
1736.0	22.5	8.5	1695.2	222.1	42.8	226.0	0.4	0.4	0.5	0
1764.0	22.3	9.8	1721.1	232.6	44.5	236.6	0.6	-0.2	1.4	0
1793.0	21.9	9.8	1747.9	243.3	46.3	247.5	0.4	-0.4	-0.1	0
1821.0	21.9	9.7	1773.9	253.6	48.1	258.0	0.1	0.0	-0.1	0
1849.0	21.5	9.5	1799.9	263.8	49.8	268.4	0.5	-0.5	-0.2	0
1900.0	20.4	10.3	1847.6	281.8	52.9	286.6	0.7	-0.6	0.5	0

Client :
Well Name : SAUDONE 1 DIR
Location : SAUDONE
: FOGGIA
:

Date
Filename : SAUDO1R

No Interpolation

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30	TOOL
1928.0	19.1	11.0	1873.9	291.1	54.7	296.0	1.4	-1.4	0.8	0
1976.0	17.5	11.7	1919.5	305.9	57.7	311.1	1.0	-1.0	0.4	0
2042.0	14.9	12.9	1982.8	323.9	61.6	329.5	1.2	-1.2	0.5	0
2071.0	12.0	15.4	2011.0	330.4	63.2	336.2	3.1	-3.0	2.5	0
2087.0	11.9	18.5	2026.7	333.6	64.2	339.5	1.2	-0.2	5.8	0
2102.0	11.9	18.5	2041.4	336.5	65.2	342.5	0.0	0.0	0.0	0

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 343 m 11.0°

* TOTAL WELL DEPTH 2102m MD -

* Extrapolated the BTM with the last survey at 2087m.

Client :
Well Name : SAUDONE 1 DIR
Location : SAUDONE
: FOGGIA
:

Date
Filename : SAUDO1R

No Interpolation

MD	INC	DIR	TVD	LAT	DEP	VS	D'LEG	BUILD	TURN	TOOL	CASE
m	deg	deg	m	m	m	m	°/30	°/30	°/30		
0	0.0	0.0	0	0	0	0	0.0	0.0	0.0	0	0
255	0.0	0.0	255	0	0	0	0.0	0.0	0.0	0	0
485	0.0	0.0	485	0	0	0	0.0	0.0	0.0	0	0
579	0.0	0.0	579	0	0	0	0.0	0.0	0.0	0	0
732	0.4	76.8	732	0	1	0	0.1	0.1	15.1	0	0
834	0.4	111.9	834	0	1	0	0.1	0.0	10.3	0	0
949	0.7	96.8	949	-0	2	0	0.1	0.1	-3.9	0	0
977	0.5	107.2	977	-0	3	0	0.2	-0.2	11.2	0	0
1005	1.2	62.4	1005	-0	3	0	1.0	0.7	-48.0	0	0
1034	3.4	33.0	1034	1	4	1	2.5	2.3	-30.5	0	0
1063	4.8	25.7	1063	3	5	3	1.5	1.4	-7.5	0	0
1091	6.7	21.7	1091	5	6	6	2.1	2.0	-4.3	0	0
1120	9.1	15.8	1119	9	7	10	2.6	2.5	-6.1	0	0
1149	11.7	11.9	1148	14	8	15	2.8	2.7	-4.0	0	0
1177	14.5	11.8	1175	20	10	21	3.0	3.0	-0.1	0	0
1205	16.7	9.9	1202	28	11	29	2.4	2.4	-2.0	0	0
1234	18.8	8.6	1230	36	12	38	2.2	2.2	-1.3	0	0
1262	20.2	8.8	1256	46	14	47	1.5	1.5	0.2	0	0
1291	21.2	10.3	1283	56	16	57	1.2	1.0	1.6	0	0
1311	21.7	13.1	1302	63	17	65	1.7	0.8	4.2	0	0
1339	22.2	10.6	1328	73	19	75	1.1	0.5	-2.7	0	0
1367	22.3	9.4	1354	84	21	86	0.5	0.1	-1.3	0	0
1396	22.5	9.8	1381	94	23	97	0.3	0.2	0.4	0	0
1424	22.5	9.7	1407	105	25	107	0.0	0.0	-0.1	0	0
1453	22.6	9.1	1433	116	26	119	0.3	0.1	-0.6	0	0
1481	22.5	8.6	1459	127	28	129	0.2	-0.1	-0.5	0	0
1509	22.3	9.7	1485	137	30	140	0.5	-0.1	1.1	0	0
1537	21.9	8.8	1511	147	31	151	0.6	-0.4	-0.9	0	0
1566	22.2	9.2	1538	158	33	161	0.3	0.3	0.5	0	0
1594	22.4	8.5	1564	169	35	172	0.4	0.2	-0.8	0	0
1623	22.3	8.9	1591	180	36	183	0.2	-0.1	0.4	0	0
1651	22.5	8.5	1617	190	38	194	0.2	0.2	-0.4	0	0
1680	22.2	8.4	1643	201	40	205	0.2	-0.2	-0.1	0	0
1708	22.1	8.1	1669	212	41	215	0.2	-0.1	-0.4	0	0
1736	22.4	8.5	1695	222	43	226	0.3	0.3	0.5	0	0
1764	22.3	9.3	1721	233	44	237	0.4	-0.2	0.8	0	0
1793	21.9	9.8	1748	243	46	248	0.4	-0.4	0.5	0	0
1821	21.9	9.7	1774	254	48	258	0.1	0.0	-0.1	0	0
1849	21.5	9.5	1800	264	50	268	0.5	-0.5	-0.2	0	0
1900	20.0	10.3	1848	282	53	286	0.9	-0.9	0.5	0	0

Client :
Well Name : SAUDONE 1 DIR
Location : SAUDONE
: FOGGIA
:

Date
Filename : SAUDO1R

No Interpolation

MD	INC	DIR	TVD	LAT	DEP	VS	D'LEG	BUILD	TURN	TOOL	CASE
m	deg	deg	m	m	m	m	°/30	°/30	°/30		
1928	19.1	11.1	1874	291	55	296	1.0	-1.0	0.8	0	0
1976	17.5	11.8	1920	306	58	311	1.0	-1.0	0.4	0	0
2042	14.9	12.9	1983	324	61	329	1.2	-1.2	0.5	0	0
2071	12.0	15.4	2011	330	63	336	3.1	-3.0	2.5	0	0
2087	11.9	18.5	2027	333	64	339	1.2	-0.2	5.8	0	0
2102	11.9	18.5	2041	336	65	342	0.0	0.0	0.0	0	0

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 343 m 10.9°

R/ VVCR 01

BOREHOLE SEISMIC ANALYSIS

FOR

AGIP

PREPARED BY

WESTERN ATLAS
INTERNATIONAL
A LITTON/DRESSER COMPANY

DOWNHOLE
SEISMIC
SERVICES

WELL : SAUDONE-1 DIR

LOCATION: FOGGIA, ITALY

ENGINEER: G.CECCONE

DATE : 02-MAY-94

RECORDING SYSTEM

DOWNHOLE GEOPHONES

DOWNHOLE DIGITIZER

SPECIAL FEATURES

PROCESSING INSTRUCTION

AIRGUN SURVEY

AIR GUNS

OFFSET NO. 1	OFFSET NO. 2	OFFSET NO. 3
[illegible]	[illegible]	[illegible]
[illegible]	DISTANCE FROM WELL	DISTANCE FROM WELL
AZIMUTH FROM WELL [illegible]	AZIMUTH FROM WELL	AZIMUTH FROM WELL
ELEVATION [illegible]	ELEVATION	ELEVATION
[illegible]	WATER DEPTH	WATER DEPTH
[illegible]	GUN DEPTH	GUN DEPTH
[illegible] 1	NUMBER OF GUNS	NUMBER OF GUNS
[illegible]	GUN-TO-GUN DISTANCE	GUN-TO-GUN DISTANCE
GUN VOLUMES 200 CU IN	GUN VOLUMES	GUN VOLUMES
[illegible] 2351	GUN UNIT NO.	GUN UNIT NO.
[illegible]	PIT DIMENSIONS L,W,D	PIT DIMENSIONS L,W,D

COMPRESSORS

TYPE & SIZE [illegible]	TYPE & SIZE	TYPE & SIZE
OPERATING PRESSURE 2000 PSI	OPERATING PRESSURE	OPERATING PRESSURE

SURVEY CONFIGURATION SHOW GUN DISTANCES INCLUDE SOURCES AND RECEIVERS (NOT TO SCALE)

LABEL	DISTANCE	AZIMUTH	ELEVATION
OFFSET 1	[illegible]	[illegible]	[illegible]

TIME BREAK PHONES

REFERENCE PHONE

		OFFSET NO. 1	OFFSET NO.
TYPE	TYPE	HP60	TYPE
DIST	DIST	50 N	DIST
AZIMUTH	AZIMUTH	0°	AZIMUTH
DEPTH	DEPTH	2 M	DEPTH
SPEED	SPEED	14 KT	SPEED

TOOL STATIONS

FLIGHT [illegible]	WELL NAME SHAHDUNE-1 DTA	SERVICE VSP
[illegible]	[illegible]	[illegible]

TOOL STATIONS

TOOL STATIONS

TOOL STATIONS

R/ 8666 01

AGIP DORT ORTONA
SAUDONE 1D

CASTELLUCCIO DEI SAURI
FOGGIA

TYPE OF SURVEY	MEASURED DEPTH (M)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (M)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (M)		VERTICAL SECTION (M)	DOGLEG SEVERITY (DEG/30 M)
MWD	1262.00	20.20	8.80	28.00	1256.24	45.56 N	13.80 E	47.13	1.50
MWD	1281.00	21.20	10.30	19.00	1274.01	52.18 N	14.92 E	53.85	1.79
	INIZIO FASE 8 1/2 RUN CON BATTERIA N3								
MWD	1311.00	21.70	13.10	30.00	1301.93	62.92 N	17.15 E	64.80	1.14
MWD	1339.00	22.20	10.60	28.00	1327.90	73.16 N	19.29 E	75.25	1.14
MWD	1367.00	22.30	9.40	28.00	1353.82	83.60 N	21.14 E	85.85	.50
MWD	1396.00	22.50	9.76	29.00	1380.63	94.50 N	22.97 E	96.90	.25
MWD	1424.00	22.50	9.67	28.00	1406.50	105.06 N	24.78 E	107.61	.04
MWD	1453.00	22.59	9.06	29.00	1433.28	116.03 N	26.59 E	118.73	.26
MWD	1481.00	22.46	8.62	28.00	1459.15	126.63 N	28.24 E	129.46	.23
MWD	1509.00	22.33	9.67	28.00	1485.04	137.16 N	29.94 E	140.12	.45
MWD	1537.00	21.93	8.79	28.00	1510.97	147.57 N	31.63 E	150.67	.56
MWD	1566.00	22.20	9.23	29.00	1537.85	158.33 N	33.33 E	161.56	.33
MWD	1594.00	22.40	8.50	28.00	1563.75	168.83 N	34.97 E	172.19	.37
MWD	1623.00	22.28	8.88	29.00	1590.58	179.73 N	36.64 E	183.21	.19
MWD	1651.00	22.46	8.53	28.00	1616.47	190.26 N	38.25 E	193.87	.24
MWD	1680.00	22.24	8.44	29.00	1643.29	201.17 N	39.88 E	204.90	.23
MWD	1708.00	22.15	8.09	28.00	1669.22	211.64 N	41.40 E	215.47	.17
MWD	1736.00	22.42	8.53	28.00	1695.13	222.14 N	42.93 E	226.09	.34
MWD	1764.00	22.28	9.32	28.00	1721.02	232.66 N	44.58 E	236.74	.36
MWD	1793.00	21.89	9.76	29.00	1747.89	243.41 N	46.39 E	247.64	.44
MWD	1821.00	21.93	9.67	28.00	1773.87	253.71 N	48.15 E	258.09	.06
MWD	1849.00	21.49	9.50	28.00	1799.89	263.92 N	49.88 E	268.44	.48
	PERFORATO CON BATTERIA N4								
MWD	1900.00	20.04	10.29	51.00	1847.57	281.74 N	52.98 E	286.52	.87
MWD	1928.00	19.12	11.08	28.00	1873.95	290.96 N	54.72 E	295.90	1.03
MWD	1976.00	17.49	11.78	48.00	1919.52	305.73 N	57.70 E	310.96	1.03
MWD	2042.00	14.94	12.92	66.00	1982.89	323.74 N	61.63 E	329.35	1.17
MWD	2071.00	12.00	15.38	29.00	2011.09	330.29 N	63.27 E	336.07	3.10
MWD	2087.00	11.91	18.46	16.00	2026.74	333.46 N	64.23 E	339.35	1.21
	FONDO POZZO MT 2102								

BOTTOM HOLE CLOSURE: 339.59 Meters at 10.90 Degrees

AGIP DORT ORTONA
SAUDONE 1D
CASTELLUCCIO DEI SAURI
FOGGIA
INIZIO LAVORO:17 04 1994

FINE LAVORO:02 05 1994

RIG NAME : IDECO E 2100
PERGEMINE

ASSISTENTE AGIP: NARRONE

D.DRILLER : DI CREDICO LUCIO

File Name: SAUDONES

RECORD OF SURVEY
Calculated by Smith International's CADDS System

Minimum Curvature Method
All Angles are Decimal
Vertical Section Plane: 8.77 Degs

TYPE OF SURVEY	MEASURED DEPTH (M)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (M)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (M)		VERTICAL SECTION (M)	DOGLEG SEVERITY (DEG/30 M)
MSS	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
MSS	255.00	0.00	0.00	255.00	255.00	0.00 N	0.00 E	0.00	0.00
MSS	485.00	0.00	0.00	230.00	485.00	0.00 N	0.00 E	0.00	0.00
	INIZIO FASE 12 1/4 RUN CON BATTERIA N1								
MWD	579.00	0.00	0.00	94.00	579.00	0.00 N	0.00 E	0.00	0.00
MWD	732.00	.40	76.80	153.00	732.00	.12 N	.52 E	.20	.08
MWD	834.00	.40	111.89	102.00	834.00	.07 N	1.20 E	.25	.07
MWD	949.00	.70	96.77	115.00	948.99	.16 S	2.27 E	.19	.09
MWD	977.00	.53	107.23	28.00	976.99	.22 S	2.56 E	.17	.22
MWD	1005.00	1.19	62.41	28.00	1004.99	.12 S	2.94 E	.33	.96
MWD	1034.00	3.40	32.96	29.00	1033.96	.74 N	3.68 E	1.29	2.52
MWD	1063.00	4.80	25.70	29.00	1062.89	2.55 N	4.67 E	3.23	1.54
MWD	1091.00	6.70	21.70	28.00	1090.75	5.13 N	5.78 E	5.95	2.08
MWD	1120.00	9.10	15.80	29.00	1119.47	8.90 N	7.03 E	9.87	2.62
MWD	1149.00	11.70	11.90	29.00	1147.99	13.99 N	8.26 E	15.09	2.79
MWD	1177.00	14.50	11.80	28.00	1175.26	20.20 N	9.57 E	21.42	3.00
MWD	1205.00	16.70	9.90	28.00	1202.23	27.60 N	10.98 E	28.95	2.42
MWD	1234.00	18.80	8.60	29.00	1229.84	36.32 N	12.39 E	37.79	2.21