

BAKER HUGHES



Baker Atlas

FILE NO: 15368		COMPANY GRADIENT RESOURCES, INC.	
APN NO: 27-001-80440		WELL 13-36	
Ver. 3.87		FIELD FALLON 1	
LOCATION: 354742 E 4390820 N MDM UTM NAD 83 ZONE 11N		COUNTY CHURCHILL	
		STATE NEVADA	
PERMANENT DATUM LOG MEASURED FROM DRILL MEAS. FROM		G.L. _____ ELEVATION 3920 FT K.B. _____ 5 FT ABOVE P.D. K.B. _____	
		OTHER SERVICES XMAC HOL/201/CN TEMP BHP GYRO	
DATE 13-NOV-2010		ELEVATIONS: KB 3920 FT DF 3923 FT OL 3920 FT	
RUN	TRIP		
1	2		
SERVICE ORDER	589640		
DEPTH DRILLER	3927 FT		
DEPTH LOGGER	3923 FT		
BOTTOM LOGGED INTERVAL	3923 FT		
TOP LOGGED INTERVAL	740 FT		
CASING DRILLER	7 IN	734 FT	
CASING LOGGER	730 FT		
BT SIZE	8.125 IN		
TYPE OF FLUID IN HOLE	GEL BASED		
DENSITY	8.5 LB/G	SB S	
PH	11	N/A	
SOURCE OF SAMPLE	MUD TANK		
RM AT MEAS. TEMP.	1.62 CHM	53.6 DEGF	
RMF AT MEAS. TEMP.	1.30 CHM	53.8 DEGF	
RAG AT MEAS. TEMP.	2.28 CHM	53.4 DEGF	
SOURCE OF RMF	MEASURED	MEASURED	
RM AT BHT	0.52 CHM	180 DEGF	
TIME SINCE CIRCULATION	14 HOURS		
MAX. RECORDED TEMP.	180 DEGF		
EQUIP. NO.	ML 4232	FALLON	
RECORDED BY	M. GASTIN		
WITNESSED BY	N. PETERSON		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 1 TRIP 2 : GYRODATA GYRO WAS HOISTED ON RUN 1 TRIP 1

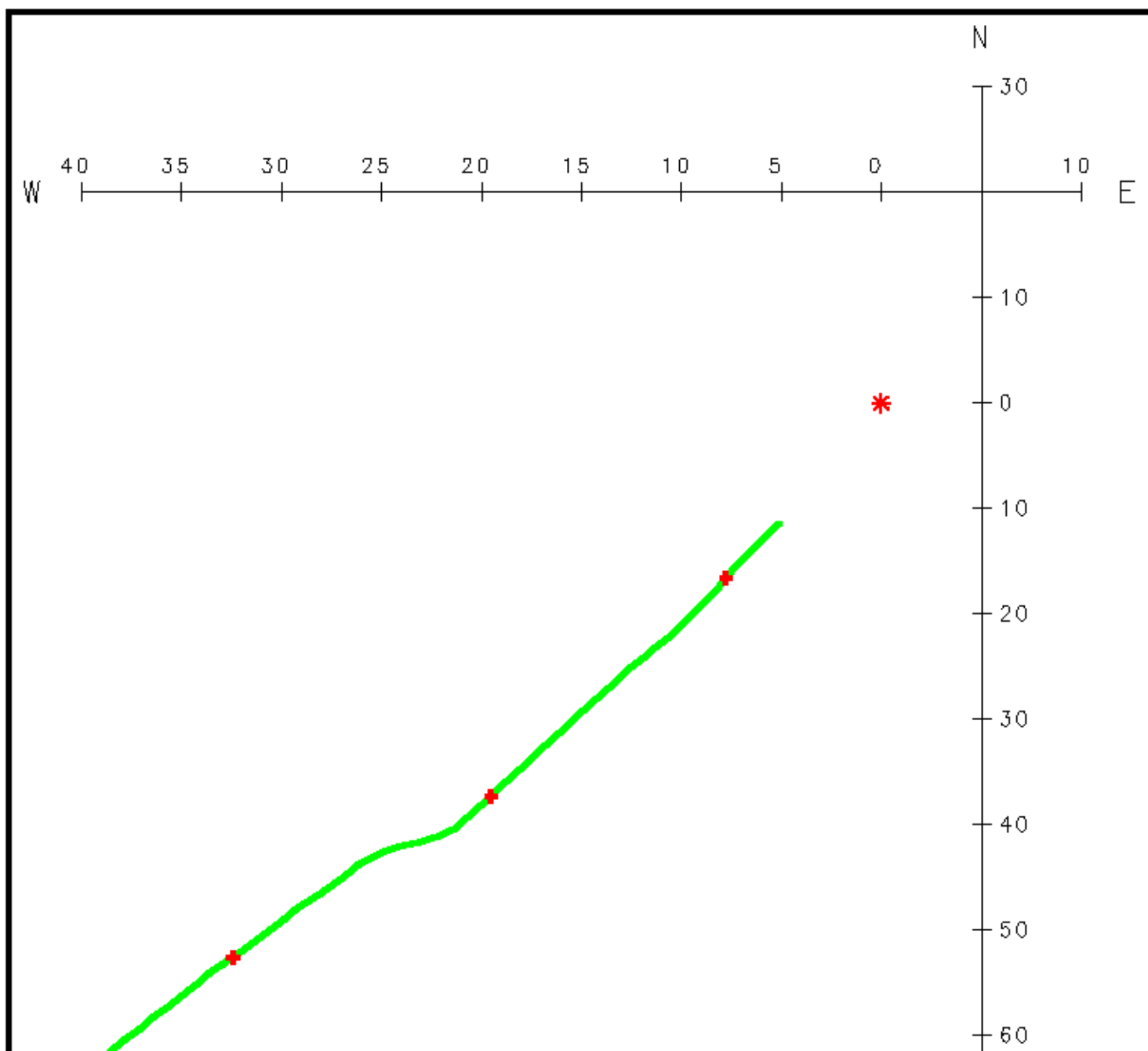
DIRECTIONAL SURVEY TIED INTO GYRODATA SURVEY FROM 11/13/10 AT:
730 FT MD, 729.86 FT TVD, N/S: 11.46' S, E/W: 5.11' W
BOREHOLE ASSUMED VERTICAL FROM 730 TO 740 FT

MAGNETIC NORTH IS 13.924 DEG EAST OF TRUE NORTH (AT 11/13/2010)
GRID NORTH IS 0.07 DEGREES WEST OF TRUE NORTH
TO CORRECT AZIMUTH FROM TRUE TO GRID ADD 0.07 DEGREES
TO CORRECT AZIMUTH FROM MAGNETIC TO GRID ADD 13.994 DEG
DIRECTIONAL SURVEY IS CORRECTED TO GRID NORTH

THANK YOU FOR CHOOSING BAKER ATLAS...THE BEST CHOICE!!!
CREW: KERN AND WILLIS
RIG: WELSCD #7

EQUIPMENT DATA




RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	2	SMVL	3844KD	10332207	SMVFL
1	2	TIRM	3881KB	10217218	FREE
1	2	WTS	3514KB	368782	FREE
1	2	DSL	1328KB	10203001	FREE
1	2	CN	24465A	10202048	FREE
1	2	ZDL	22341A	173878	PAD / DE-CENTRALIZED
1	2	KNUT	36381A	10143809	DOUBLE KNUCKLE
1	2	HDL	1515EA/MA	10340485/10089832	0.7" SIDCO-OFF
1	2	CENT	43411A	10500017	CENTRALIZED
1	2	ORT	4401KB	10080288	CENTRALIZED
1	2	AC ELEC.	1677EA	10366234	CENTRALIZED
1	2	AC REC.	1678MC	10338528	CENTRALIZED
1	2	AC ISO.	1678PB	10200307	CENTRALIZED
1	2	AC TRANS.	1678BA	10108348	CENTRALIZED
1	2	AC PWR.	1678FA	370675	CENTRALIZED
1	2	CENT	43411A	10238054	CENTRALIZED
1	2	SLAM	35165A	72846	CENTRALIZED
1	2	TEMP	28065A	77903	CENTRALIZED

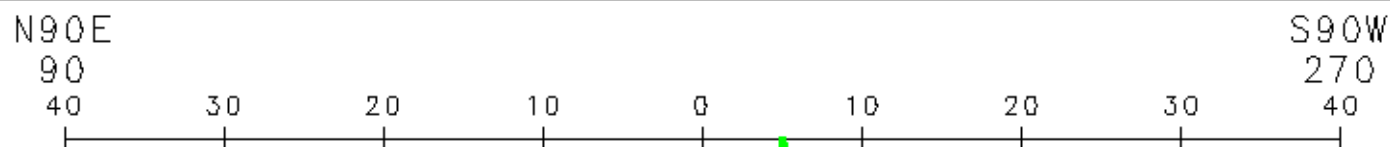


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PLAN VIEW

	: WELLBORE COURSE	FINAL EAST-WEST DRIFT	38.51 FT WEST
	: MEASURED DEPTH TIE-IN	FINAL NORTH-SOUTH DRIFT	61.61 FT SOUTH
	: WELLHEAD POSITION	FINAL DRIFT DISTANCE	72.66 FT
		FINAL DRIFT DIRECTION	S 32.01 W
		DRIFT UNITS	FEET
		DEPTH UNITS	FEET



1000

2000

3000

SIDE VIEW FROM AZIMUTH 0

✓ : WELLBORE COURSE	MAX. DRIFT N90E	0.00 FT
+ : MEASURED DEPTH TIE-IN	MAX. DRIFT S90W	38.51 FT
* : WELLHEAD POSITION	BOTTOM TVD THIS INTERVAL	3439.16 FT
	DRIFT UNITS	FEET
	DEPTH UNITS	FEET

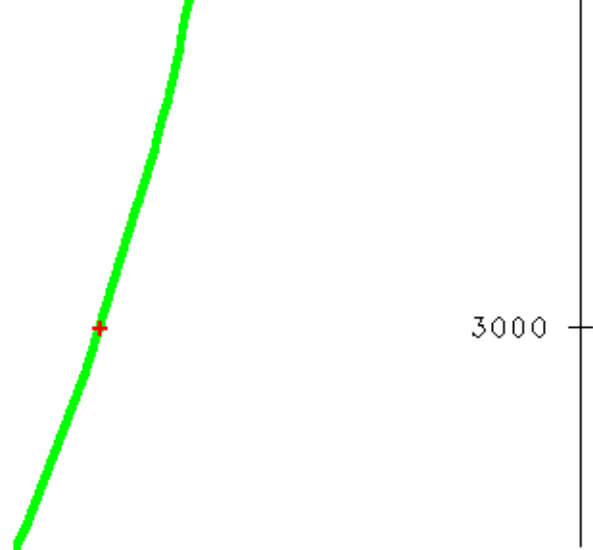
SOE
180

NOE
0

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

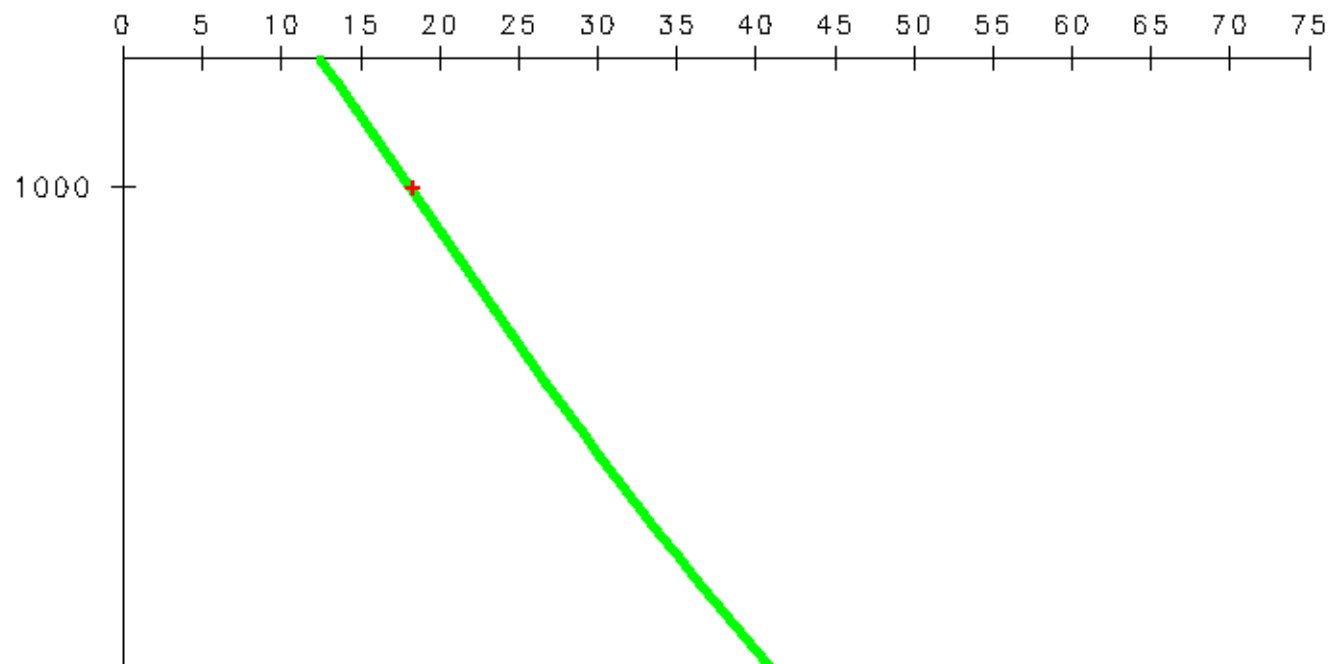
1000

2000



SIDE VIEW FROM AZIMUTH 90




✓ : WELLBORE COURSE	MAX. DRIFT SOE	61.61 FT
+ : MEASURED DEPTH TIE-IN	MAX. DRIFT NOE	0.00 FT
* : WELLHEAD POSITION	BOTTOM TVD THIS INTERVAL	3439.16 FT
	DRIFT UNITS	FEET
	DEPTH UNITS	FEET



2000

3000

DEPTH VS. DRIFT

	: WELLBORE COURSE	MAX. DRIFT FROM WELLHEAD	72.66 FT
	: MEASURED DEPTH TIE-IN	BOTTOM TVD THIS INTERVAL	3439.16 FT
	: WELLHEAD POSITION	DRIFT UNITS	FEET
		DEPTH UNITS	FEET

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DEPTH	DEVIATION		T.V.D.	DRIFT COORDINATES			
	ANGLE	AZIMUTH		STATION		TOTAL	
				N-S	E-W	N-S	E-W
740.00	1.4	213.4	739.86	11.46S	5.11N	11.46S	5.11N
790.00	1.3	209.8	789.85	0.98S	0.60N	12.44S	5.71N
840.00	1.3	204.8	839.83	0.99S	0.51N	13.43S	6.23N
890.00	1.3	206.2	889.82	1.03S	0.49N	14.46S	6.72N
940.00	1.2	208.6	939.81	0.97S	0.50N	15.43S	7.22N
990.00	1.3	201.2	989.80	0.97S	0.45N	16.40S	7.66N
1040.00	1.3	206.8	1039.79	1.01S	0.45N	17.41S	8.12N
1090.00	1.2	206.5	1089.77	0.95S	0.48N	18.37S	8.60N
1140.00	1.3	207.9	1139.76	0.95S	0.49N	19.32S	9.08N
1190.00	1.3	208.0	1189.75	0.99S	0.53N	20.31S	9.61N
1240.00	1.3	208.4	1239.74	0.98S	0.52N	21.29S	10.14N
1290.00	1.2	211.3	1289.73	0.94S	0.54N	22.23S	10.67N
1340.00	1.3	211.2	1339.71	0.94S	0.57N	23.17S	11.25N
1390.00	1.3	212.4	1389.70	0.95S	0.59N	24.13S	11.84N
1440.00	1.3	212.5	1439.69	0.94S	0.60N	25.07S	12.43N
1490.00	1.3	210.7	1489.68	0.96S	0.59N	26.03S	13.03N
1540.00	1.4	209.0	1539.66	1.00S	0.57N	27.03S	13.60N
1590.00	1.4	211.6	1589.65	1.04S	0.61N	28.07S	14.21N
1640.00	1.4	210.5	1639.63	1.04S	0.63N	29.11S	14.83N
1690.00	1.5	209.4	1689.62	1.07S	0.62N	30.18S	15.45N
1740.00	1.5	209.5	1739.60	1.11S	0.63N	31.29S	16.08N
1790.00	1.5	210.4	1789.58	1.13S	0.65N	32.42S	16.73N
1840.00	1.5	209.8	1839.57	1.13S	0.66N	33.55S	17.39N
1890.00	1.5	210.4	1889.55	1.12S	0.65N	34.67S	18.03N
1940.00	1.5	209.2	1939.53	1.15S	0.66N	35.82S	18.69N
1990.00	1.5	209.7	1989.52	1.17S	0.66N	36.99S	19.35N
2040.00	1.5	209.4	2039.50	1.14S	0.65N	38.13S	20.00N
2090.00	1.6	208.0	2089.48	1.17S	0.64N	39.30S	20.64N
2140.00	1.4	216.6	2139.46	1.09S	0.68N	40.39S	21.32N
2190.00	1.2	238.7	2189.45	0.75S	0.81N	41.14S	22.13N
2240.00	1.4	245.9	2239.44	0.52S	1.00N	41.66S	23.13N
2290.00	1.2	242.9	2289.43	0.49S	1.02N	42.15S	24.15N
2340.00	1.1	229.6	2339.42	0.55S	0.84N	42.70S	24.99N
2390.00	0.9	224.0	2389.41	0.60S	0.64N	43.30S	25.63N
2440.00	0.9	216.1	2439.40	0.59S	0.50N	43.89S	26.13N
2490.00	0.9	213.9	2489.40	0.62S	0.43N	44.51S	26.57N
2540.00	0.9	213.6	2539.39	0.64S	0.43N	45.14S	26.99N
2590.00	0.9	216.3	2589.38	0.65S	0.46N	45.80S	27.45N
2640.00	1.1	216.4	2639.38	0.71S	0.52N	46.51S	27.97N
2690.00	1.2	221.7	2689.37	0.77S	0.63N	47.29S	28.60N

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DEPTH	DEVIATION		T.V.D.	DRIFT COORDINATES			
	ANGLE	AZIMUTH		STATION		TOTAL	
				N-S	E-W	N-S	E-W
2740.00	1.2	214.1	2739.35	0.83S	0.65N	48.12S	29.25N
2790.00	1.2	212.7	2789.34	0.88S	0.58N	48.99S	29.83N
2840.00	1.3	216.1	2839.33	0.88S	0.60N	49.87S	30.43N
2890.00	1.2	211.2	2889.32	0.89S	0.60N	50.77S	31.03N
2940.00	1.2	216.3	2939.31	0.86S	0.57N	51.63S	31.60N
2990.00	1.2	217.5	2989.30	0.83S	0.62N	52.45S	32.22N

3040.00	1.2	218.9	3039.29	0.84S	0.66W	53.308	32.89W
3090.00	1.3	214.1	3089.28	0.90S	0.66W	54.198	33.55W
3140.00	1.3	214.5	3139.26	0.94S	0.64W	55.138	34.19W
3190.00	1.5	212.4	3189.25	1.02S	0.67W	56.158	34.86W
3240.00	1.5	215.6	3239.23	1.08S	0.73W	57.238	35.58W
3290.00	1.5	215.4	3289.21	1.07S	0.76W	58.308	36.35W
3340.00	1.5	210.4	3339.20	1.10S	0.71W	59.398	37.06W
3390.00	1.5	213.6	3389.18	1.10S	0.69W	60.498	37.74W
3440.00	1.6	215.2	3439.16	1.12S	0.76W	61.618	38.51W

THE FIRST POINT INFORMATION:

740.00	1.4	213.4	739.86	11.46S	5.11W	11.46S	5.11W
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THE LAST POINT INFORMATION:

3440.00	1.6	215.2	3439.16	1.12S	0.76W	61.618	38.51W
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FINAL EAST-WEST DRIFT = 38.51 W
 FINAL NORTH-SOUTH DRIFT = 61.61 S
 FINAL DRIFT DISTANCE = 72.86 FT
 FINAL DRIFT DIRECTION = S 32.01 W

INSTRUMENT CONFIGURATION

Source File: /dall1a/15358/m77102*-tdg

CABLEHEAD

Diameter : 3.38"
 Length : 5.50'
 Weight : 24 lbs
 Series : CABLE338
 Mnemonic : CELH

SWIVEL

Diameter : 3.38"
 Length : 3.80'
 Weight : 66 lbs
 Series : 304400

TTM SUB

Diameter : 3.63"
 Length : 3.63'
 Weight : 62 lbs
 Series : 3061XA
 Mnemonic : TTM

MTS COMMON REMOTE

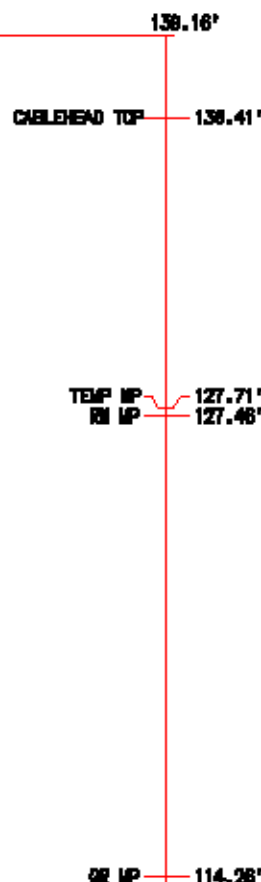
Diameter : 3.63"
 Length : 6.38'
 Weight : 128 lbs
 Series : 361400
 Mnemonic : MTS

DIGITAL SPECTRUM LOG

Diameter : 3.63"
 Length : 7.31'
 Weight : 130 lbs
 Series : 13200A
 Mnemonic : DSL

COMPENSATED NEUTRON

Diameter : 3.63"
 Length : 7.58'
 Weight : 100 lbs
 Series : 24480A



Mnemonic : ON

LSM MP 107.70'
SSM MP 107.30'

Z-DENS1100

Diameter : 4.88"
Length : 11.22'
Weight : 380 lbs
Series : 2234XA
Mnemonic : ZDL

OAL MP 87.04'
LSO MP 98.32'
SSO MP 85.82'

KNUCKLE JOINT (DOUBLE)

Diameter : 3.38"
Length : 4.85'
Weight : 80 lbs
Series : 3838XA
Mnemonic : KJUT

HIGH DEFINITION INDUCTION TOOL

Diameter : 3.82"
Length : 27.13'
Weight : 415 lbs
Series : 1515XA
Mnemonic : HDIL

SP MP 75.87'

XMTR MP 69.00'

4 ARM BOW SPRING CENTRALIZER

Diameter : 3.38"
Length : 4.12'
Weight : 72 lbs
Series : 4341XA
Mnemonic : CENT

DIGITAL ORIENTATION

Diameter : 3.38"
Length : 10.81'
Weight : 110 lbs
Series : 4401XB
Mnemonic : ORIT

ORIENT MP 47.14'

ARRAY ACOUSTIC LOG ELECTRONICS, B CHANNEL

Diameter : 3.38"
 Length : 7.82'
 Weight : 102 lbs
 Series : 1677EA
 Mnemonic : XMAC

CROSS MULTI-POLE ARRAY ACOUSTIC LOG

Diameter : 3.75"
 Length : 10.81'
 Weight : 224 lbs
 Series : 167BMC
 Mnemonic : XMF1

SHEAR WAVE ACOUSTIC LOG

Diameter : 3.63"
 Length : 5.00'
 Weight : 135 lbs
 Series : 167BPS
 Mnemonic : XMAC

MULTI-POLE ARRAY ACOUSTIC LOG

Diameter : 3.88"
 Length : 7.92'
 Weight : 170 lbs
 Series : 167BBA
 Mnemonic : XMAC

MULTI-POLE ARRAY ACOUSTIC LOG

Diameter : 3.38"
 Length : 4.32'
 Weight : 58 lbs
 Series : 167BFA
 Mnemonic : MAC

4 ARM BOW SPRING CENTRALIZER

Diameter : 3.38"
 Length : 4.12'
 Weight : 72 lbs
 Series : 4341XA
 Mnemonic : CENT

SLAM ADAPTER

Diameter : 3.38"
 Length : 6.27'
 Weight : 110 lbs
 Series : 3516XA
 Mnemonic : SLAM

TEMPERATURE

Diameter : 3.38"

BULL PLUG 3 3/8

TOTAL LENGTH: 138.16'
 TOTAL WEIGHT: 2527 lbs
 MAX DIAMETER: 6" 4.88"

R8 33.81'
 R7 33.41'
 R6 32.81'
 R5 32.41'
 R4 31.81'
 R3 31.41'
 R2 30.81'
 R1 30.41'

MONOPOLE T2 21.81'
 QUADRUPOLE T6 21.81'

X-DIPOLE T3 20.16'
 Y-DIPOLE T4 20.16'

MONOPOLE T1 18.41'

TEMP MP 0:00'



COMPANY
WELL
FIELD
COUNTY

GRADIENT RESOURCES, INC.

13-36

FALLON I

CHURCHILL

STATE NEVADA

FILE NO:

15358

API NO:

27-001-80440

LOCATION:

354742 E 4380620 N MDM
 UTM NAD 83 ZONE 11N

ELEVATIONS:

KB 3925 FT

DF 3923 FT

GL 3920 FT

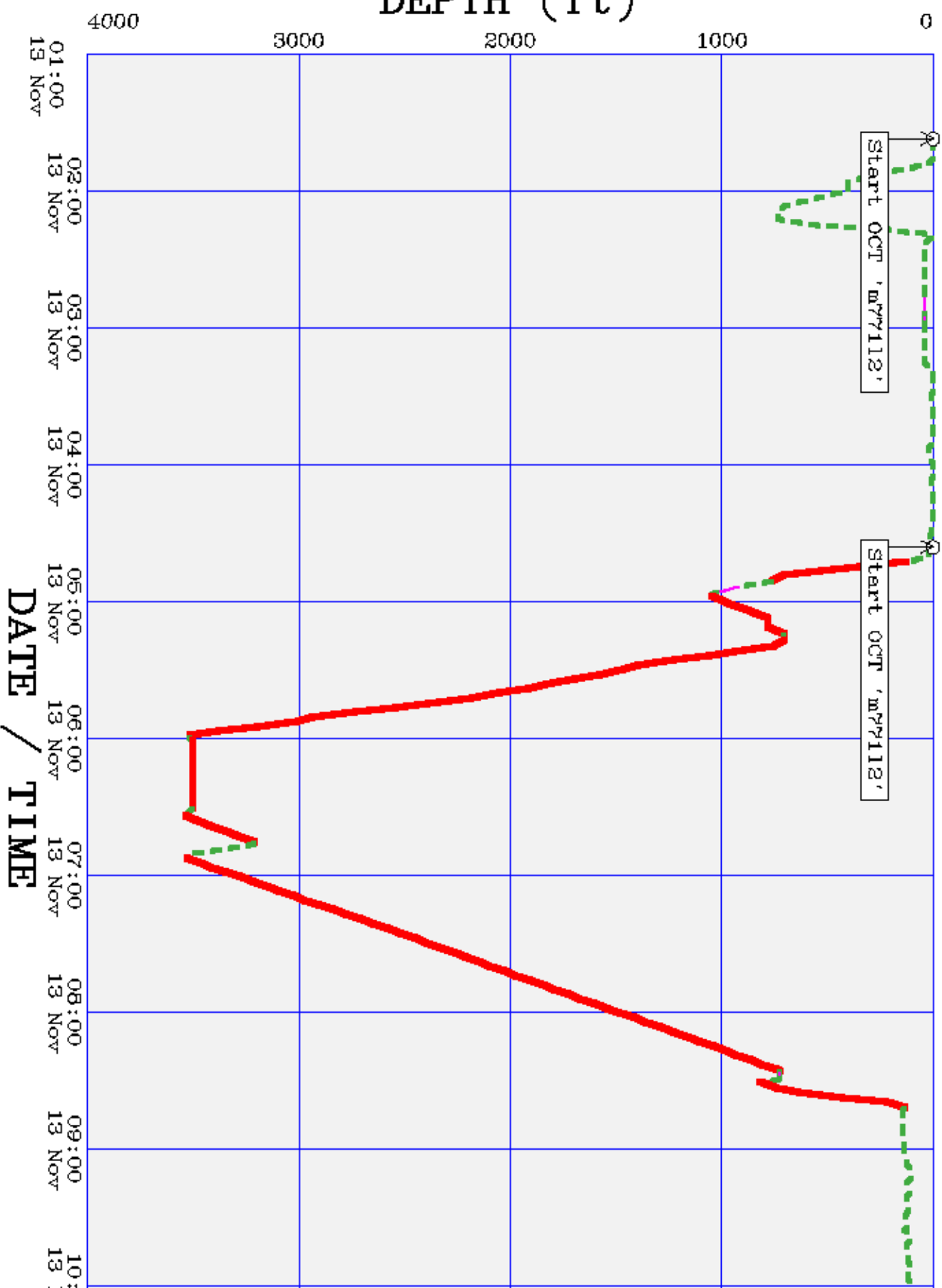
Baker Atlas



JOB PROGRESS OVERVIEW

FILE NAME : /data/15358/rap4232.jpo
FILE INTERVAL: 13 Nov 2010 01:37:14 to 13 Nov 2010 10:57:27
PLOT INTERVAL: 13 Nov 2010 01:00:00 to 13 Nov 2010 11:00:00

DEPTH (ft)



DATE / TIME

00
Nov 11:00
13 Nov
