

~Version Information

VERS. 2.00: PATHFINDER ENERGY SERVICES LAS - Version 2.00
 WRAP. NO: One line per depth step

~Well Information

STRT.FT 0.0000:
 STOP.FT 12100.0000:
 STEP.FT 0.0000:
 NULL. -999.25:
 COMP. EOG RESOURCES INC.: COMPANY
 WELL. JAMES RANCH UNIT 112H: WELL
 FLD. SOUTHEAST QUAHADA RIDGE - DELAWARE: FLD
 SRVC. Pathfinder Energy Services: SERVICE COMPANY
 LOC. : LOCATION
 DATE. 28-Jan-09: LOG DATE
 UWI. 30-015-36722: API NUMBER
 APD.FT 18.00: ELEVATION ABOVE PERMANENT DATUM
 CNTY. EDDY: COUNTY
 CTRY. USA: COUNTRY
 DMF. ROTARY TABLE: DRILLING-LOG MEASURED FROM
 EPD.FT 3313.30: ELEVATION OF PERMANENT DATUM
 FL1. 500'FSL 200'FEL: WELL LOCATION 1
 FL2. X; 656755.2 Y; 488709.7: WELL LOCATION 2
 PDAM. GROUND LEVEL - MEAN SEA LEVEL: ELEVATION OF PERMANENT DATUM REF
 PDAT. GROUND LEVEL: PERMANENT DATUM
 RANG. 30 EAST: RANGE
 SECT. 036: SECTION
 STAT. NM: STATE
 TOWN. 22 SOUTH: TOWNSHIP

~Parameter Information

BHB1.IN 17 1/2: BOREHOLE REC; BIT 1
 BHF1.FT 0: BOREHOLE REC; FROM 1
 BH01.FT 655: BOREHOLE REC; TO 1
 BHB2.IN 12 1/4: BOREHOLE REC; BIT 2
 BHF2.FT 0: BOREHOLE REC; FROM 2
 BH02.FT 3849: BOREHOLE REC; TO 2
 BHB3.IN 7 7/8: BOREHOLE REC; BIT 3
 BHF3.FT 0: BOREHOLE REC; FROM 3
 BH03.FT 12070: BOREHOLE REC; TO 3
 CTS1.IN 13 3/8: CASING & TUBING REC; SIZE 1
 CTF1.FT 0: CASING & TUBING REC; FROM 1
 CT01.FT 655: CASING & TUBING REC; TO 1
 CTS2.IN 8 5/8: CASING & TUBING REC; SIZE 2
 CTF2.FT 0: CASING & TUBING REC; FROM 2
 CT02.FT 3849: CASING & TUBING REC; TO 2
 CTS3.IN 5 1/2: CASING & TUBING REC; SIZE 3
 CTF3.FT 0: CASING & TUBING REC; FROM 3
 CT03.FT 12070: CASING & TUBING REC; TO 3
 DCOM. MCVAY: DRILLING COMPANY
 RIG. 4: DRILLING RIG
 LUN. TRAILER: LOGGING UNIT NUMBER
 DIST. WEST_Texas: DISTRICT
 SPUD. 12-JAN-09: SPUD DATE
 STDt. 21-JAN-09: START DATE
 SDEP.FT 6944: DEPTH IN
 ENDT. 28-JAN-09: LWD END DATE

EDEP.FT 12070: DEPTH OUT
 TDEP.FT 12070: TOTAL DEPTH
 "R010. RUN #3; 6-1/2"" HDS-1R/GAMMA LOGGING RUN.: Remarks - Line 010 "
 "R011. RUN #4; 6-1/2"" HDS-1R/GAMMA LOGGING RUN.: Remarks - Line 011 "
 "R012. RUN #5; 6-1/2"" HDS-1R/GAMMA LOGGING RUN.: Remarks - Line 012 "
 R014. DEPART ORIGINAL WELLBORE OFF CEMENT PLUG IN OPEN HOLE AT 6943'MD (6930'TVD): Remarks - Line 014

 R002. EOG RESOURCES INC.: Remarks - Line 002
 R003. PATHFINDER ENERGY TRACKING #; 101008208 WT-WT.: Remarks - Line 003
 R005. ALL REFERENCES IN DEPTH TRACKING ARE AT BIT DEPTH.: Remarks - Line 005
 R006. ALL LOGGING DATA IS TRANSMITTED ONLY UNLESS STATED OTHERWISE.: Remarks - Line 006
 "R008. RUN #1; 6-1/5"" HDS-1R DIRECTIONAL ONLY RUN. NO LOGGING DATA AQUIRED.: Remarks - Line 008 "
 "R009. RUN #2; 6-1/2"" HDS-1R/GAMMA LOGGING RUN. NO LOGGING DATA AQUIRED.: Remarks - Line 009 "
 RA03. 3: RUN NUMBER 03
 RB03. 22-JAN-09: START DATE - RUN 03
 RC03. 05:15: START TIME - RUN 03
 RD03. 24-JAN-09: END DATE - RUN 03
 RE03. 06:45: END TIME - RUN 03
 RF03.FT 6944: DEPTH IN - RUN 03
 RG03.FT 7751: DEPTH OUT - RUN 03
 RH03.FT 6897: LOG TOP - RUN 03
 RI03.FT 7704: LOG BOTTOM - RUN 03
 RJ03.IN 7 7/8: HOLE SIZE - RUN 03
 RU03. C.CARSON: ENGINEER #1 - RUN 03
 RV03. J.BURLESON: ENGINEER #2 - RUN 03
 MB03.FT 7243: MUD DEPTH - RUN 03
 MD03. WATER BASED: MUD TYPE - RUN 03
 ME03.LB/GAL 9.10: DENSITY - RUN 03
 MF03.S/QT 34: VISCOSITY - RUN 03
 MG03. 9.0: PH - RUN 03
 MM03.CM3/30 60.0: FLUID LOSS - RUN 03
 MH03.PPM 61000: SALINITY - RUN 03
 MK03.DEGF 119: MAX REC TEMP - RUN 03
 RA04. 4: RUN NUMBER 04
 RB04. 24-JAN-09: START DATE - RUN 04
 RC04. 06:55: START TIME - RUN 04
 RD04. 27-JAN-09: END DATE - RUN 04
 RE04. 02:10: END TIME - RUN 04
 RF04.FT 7751: DEPTH IN - RUN 04
 RG04.FT 10498: DEPTH OUT - RUN 04
 RH04.FT 7704: LOG TOP - RUN 04
 RI04.FT 10451: LOG BOTTOM - RUN 04
 RJ04.IN 7 7/8: HOLE SIZE - RUN 04
 RU04. C.CARSON: ENGINEER #1 - RUN 04
 RV04. J.BURLESON: ENGINEER #2 - RUN 04
 MB04.FT 7833: MUD DEPTH - RUN 04
 MD04. WATER BASED: MUD TYPE - RUN 04
 ME04.LB/GAL 8.80: DENSITY - RUN 04
 MF04.S/QT 38: VISCOSITY - RUN 04
 MG04. 10.0: PH - RUN 04
 MM04.CM3/30 12.0: FLUID LOSS - RUN 04
 MH04.PPM 56000: SALINITY - RUN 04
 MK04.DEGF 126: MAX REC TEMP - RUN 04
 RA05. 5: RUN NUMBER 05
 RB05. 27-JAN-09: START DATE - RUN 05

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RC05.          02:45: START TIME - RUN 05
RD05.          28-JAN-09: END DATE - RUN 05
RE05.          23:30: END TIME - RUN 05
RF05.FT        10498: DEPTH IN - RUN 05
RG05.FT        12070: DEPTH OUT - RUN 05
RH05.FT        10451: LOG TOP - RUN 05
RI05.FT        12023: LOG BOTTOM - RUN 05
RJ05.IN        7 7/8: HOLE SIZE - RUN 05
RU05.          C.CARSON: ENGINEER #1 - RUN 05
RV05.          J.BURLESON: ENGINEER #2 - RUN 05
MB05.FT        10524: MUD DEPTH - RUN 05
MD05.          WATER BASED: MUD TYPE - RUN 05
ME05.LB/GAL    9.20: DENSITY - RUN 05
MF05.S/QT      32: VISCOSITY - RUN 05
MG05.          10.0: PH - RUN 05
MM05.CM3/30    12.5: FLUID LOSS - RUN 05
MH05.PPM       56000: SALINITY - RUN 05
MK05.DEGF      130: MAX REC TEMP - RUN 05
TTL1.          GAMMA-RAY: HEADER TITLE LINE 1
TTL2.          : HEADER TITLE LINE 2
TTL3.          : HEADER TITLE LINE 3
SC1.           : LOG SCALE 1
"SC2.          5"" = 100': LOG SCALE 2"
OS2.           DIRECTIONAL: OTHER SERVICES LINE 2
OS3.           ROP: OTHER SERVICES LINE 3

~Curve Information
DEPT.FT        : MWD Tool Measurement Depth
MTVD.FT        : MWD Tool Measurement TVD
INC.DEG        : Inclination
AZI.DEG        : Azimuth
SECT.FT        : Section
RCN.FT         : Rectangular Co-ordinates North
RCE.FT         : Rectangular Co-ordinates East
DLSEV.DG/HFT   : Dog-leg Severity
# DEPT        MTVD        INC        AZI        SECT        RCN        RCE        DLSEV
# FT          FT          DEG        DEG        FT          FT          FT          DG/HFT
# Relog Number 0          0          0          0          0          0          0          0
#

~ASCII Data
3665.00 3661.69 6.79 137.50 74.93 -73.02 74.70 -999.25
3882.00 3877.67 4.22 140.00 88.78 -88.60 88.50 1.19
3976.00 3971.41 4.31 140.70 93.26 -93.98 92.96 0.11
4069.00 4064.14 4.48 144.38 97.60 -99.64 97.29 0.35
4163.00 4157.84 4.66 139.22 102.25 -105.51 101.92 0.48
4256.00 4250.53 4.66 142.10 107.06 -111.35 106.71 0.25
4350.00 4344.26 4.04 145.56 111.30 -117.10 110.93 0.72
4443.00 4437.07 3.34 122.64 115.44 -121.26 115.06 1.74
4537.00 4530.99 1.49 145.68 118.45 -123.75 118.06 2.18
4631.00 4624.96 1.41 144.67 119.81 -125.70 119.42 0.09
4724.00 4717.93 1.23 145.03 121.05 -127.45 120.65 0.19
4818.00 4811.91 1.32 159.43 122.01 -129.29 121.61 0.35
4911.00 4904.89 1.06 157.95 122.72 -131.09 122.31 0.28
5036.00 5029.86 1.32 153.05 123.81 -133.45 123.39 0.22
5161.00 5154.83 1.32 156.88 125.04 -136.05 124.61 0.07

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5285.00	5278.80	1.32	147.44	126.38	-138.57	125.94	0.17
5410.00	5403.77	1.14	157.06	127.64	-140.93	127.20	0.22
5535.00	5528.71	2.37	111.09	130.55	-143.01	130.10	1.42
5628.00	5621.63	2.29	116.97	134.00	-144.54	133.55	0.27
5722.00	5715.49	3.96	103.36	138.84	-146.14	138.38	1.93
5816.00	5809.09	6.60	94.96	147.38	-147.36	146.92	2.92
5909.00	5901.47	6.60	99.30	157.99	-148.69	157.52	0.54
6003.00	5994.80	7.12	87.07	169.14	-149.26	168.67	1.65
6096.00	6087.07	7.30	86.82	180.79	-148.64	180.33	0.20
6190.00	6180.39	6.51	85.56	192.06	-147.89	191.60	0.86
6283.00	6272.83	5.98	86.64	202.15	-147.20	201.69	0.58
6375.00	6364.23	7.12	82.68	212.59	-146.20	212.13	1.33
6468.00	6456.60	6.24	84.07	223.33	-144.94	222.88	0.96
6561.00	6549.13	5.28	81.94	232.59	-143.82	232.14	1.06
6655.00	6642.64	6.42	91.49	242.13	-143.35	241.68	1.59
6748.00	6735.07	6.24	95.17	252.36	-143.94	251.91	0.48
6842.00	6828.53	6.07	94.00	262.41	-144.74	261.95	0.23
6934.00	6920.01	6.16	94.34	272.18	-145.46	271.73	0.10
6967.00	6952.73	8.71	96.57	276.43	-145.88	275.98	7.77
6998.00	6983.23	11.70	98.48	281.88	-146.61	281.42	9.70
7029.00	7013.37	15.30	99.45	289.03	-147.74	288.57	11.64
7061.00	7043.93	19.17	99.87	298.38	-149.34	297.91	12.10
7092.00	7072.92	22.25	99.09	309.20	-151.14	308.72	9.98
7123.00	7101.37	24.53	98.82	321.36	-153.05	320.88	7.36
7154.00	7129.30	26.91	97.73	334.68	-154.98	334.19	7.83
7185.00	7156.57	29.90	96.45	349.31	-156.80	348.82	9.84
7215.00	7182.28	32.10	95.72	364.68	-158.43	364.19	7.44
7246.00	7208.30	33.77	94.75	381.47	-159.97	380.97	5.65
7277.00	7233.76	35.79	93.61	399.11	-161.25	398.60	6.85
7308.00	7258.53	38.08	93.23	417.71	-162.36	417.20	7.42
7340.00	7283.28	40.63	91.55	437.98	-163.20	437.47	8.64
7371.00	7306.38	43.00	89.97	458.64	-163.46	458.13	8.37
7403.00	7329.38	45.11	89.39	480.89	-163.34	480.38	6.71
7434.00	7350.79	47.48	89.63	503.30	-163.15	502.79	7.66
7465.00	7371.19	50.21	90.09	526.64	-163.09	526.13	8.88
7496.00	7390.40	53.20	91.01	550.96	-163.33	550.45	9.92
7528.00	7409.14	55.13	91.09	576.90	-163.81	576.39	6.04
7559.00	7426.37	57.33	89.98	602.67	-164.04	602.16	7.70
7590.00	7442.76	58.83	88.93	628.98	-163.79	628.47	5.63
7621.00	7458.27	61.11	88.22	655.80	-163.12	655.30	7.62
7652.00	7472.91	62.52	87.55	683.11	-162.11	682.60	4.93
7683.00	7486.56	65.25	86.00	710.89	-160.54	710.39	9.88
7714.00	7498.60	69.03	84.91	739.35	-158.28	738.86	12.62
7745.00	7508.78	72.63	84.98	768.50	-155.70	768.02	11.62
7776.00	7517.44	74.92	85.01	798.15	-153.10	797.67	7.39
7807.00	7524.95	77.03	85.38	828.11	-150.58	827.64	6.90
7838.00	7531.19	79.76	84.53	858.34	-147.91	857.88	9.21
7869.00	7535.83	83.01	84.51	888.84	-144.98	888.39	10.48
7901.00	7539.53	83.71	84.29	920.46	-141.88	920.02	2.29
7932.00	7542.88	83.89	84.30	951.12	-138.82	950.69	0.58
8025.00	7549.93	87.41	84.84	1043.39	-130.04	1042.99	3.83
8118.00	7553.00	88.81	87.22	1136.09	-123.61	1135.71	2.97
8211.00	7554.14	89.78	87.80	1228.98	-119.57	1228.61	1.22
8305.00	7558.32	85.12	85.98	1322.70	-114.48	1322.35	5.32
8399.00	7565.81	85.74	85.34	1416.11	-107.39	1415.78	0.95

~2090897.txt

8492.00	7571.44	87.32	85.61	1508.62	-100.07	1508.32	1.72
8586.00	7575.26	88.02	85.76	1602.26	-93.00	1601.97	0.76
8679.00	7577.40	89.34	87.65	1695.06	-87.66	1694.79	2.48
8774.00	7577.92	90.04	88.00	1789.97	-84.05	1789.72	0.82
8868.00	7578.71	88.99	87.48	1883.88	-80.34	1883.64	1.25
8962.00	7581.53	87.58	85.60	1977.65	-74.67	1977.42	2.50
9055.00	7585.03	88.11	83.60	2070.13	-65.93	2069.94	2.22
9149.00	7588.63	87.49	83.18	2163.41	-55.12	2163.24	0.80
9243.00	7593.04	87.14	83.54	2256.64	-44.26	2256.51	0.53
9336.00	7596.40	88.72	85.16	2349.09	-35.11	2348.99	2.43
9430.00	7597.19	90.31	87.38	2442.86	-29.00	2442.78	2.90
9524.00	7596.68	90.31	86.48	2536.71	-23.96	2536.64	0.96
9617.00	7595.39	91.28	85.62	2629.45	-17.56	2629.41	1.39
9710.00	7593.46	91.10	86.45	2722.19	-11.13	2722.17	0.91
9804.00	7592.45	90.13	87.03	2816.01	-5.78	2816.01	1.20
9898.00	7592.96	89.25	87.28	2909.88	-1.12	2909.89	0.97
9992.00	7596.00	87.05	86.83	3003.68	3.71	3003.71	2.39
10086.00	7600.18	87.85	89.22	3097.52	6.94	3097.55	2.68
10180.00	7603.13	88.55	90.01	3191.47	7.58	3191.50	1.12
10273.00	7605.56	88.46	90.90	3284.43	6.84	3284.47	0.96
10367.00	7608.81	87.58	89.93	3378.37	6.16	3378.41	1.39
10460.00	7611.73	88.81	90.76	3471.32	5.60	3471.36	1.59
10553.00	7615.52	86.53	89.86	3564.24	5.09	3564.27	2.64
10647.00	7620.92	86.88	89.36	3658.08	5.73	3658.11	0.65
10739.00	7626.82	85.76	88.93	3749.87	7.10	3749.91	1.30
10833.00	7632.36	87.49	88.62	3843.68	9.11	3843.73	1.87
10927.00	7635.32	88.90	87.18	3937.55	12.55	3937.61	2.14
11020.00	7637.10	88.90	87.45	4030.42	16.91	4030.49	0.29
11114.00	7638.11	89.87	86.66	4124.27	21.74	4124.36	1.33
11209.00	7640.30	87.49	84.94	4218.96	28.69	4219.07	3.09
11305.00	7643.54	88.64	85.48	4314.54	36.70	4314.68	1.32
11400.00	7644.49	90.22	84.14	4409.11	45.30	4409.28	2.18
11494.00	7644.49	89.78	82.73	4502.46	56.04	4502.66	1.57
11588.00	7645.28	89.25	82.46	4595.63	68.16	4595.87	0.63
11715.00	7644.41	91.54	82.98	4721.55	84.25	4721.84	1.85
11842.00	7641.77	90.84	81.64	4847.32	101.24	4847.66	1.19
11996.00	7644.71	86.97	79.45	4999.08	126.52	4999.51	2.89
12070.00	7648.62	86.97	79.45	5071.69	140.05	5072.15	0.00