TEMPERATURE SURVEY

Company	PRINCETON NATURAL GAS, LLC
Well	PIACENTINE NO. 1-27
Field	KING ISLAND
County	SAN JOAQUIN
State	CALIFORNIA

Company PRINCETON NATURAL GAS, LLC
Well PIACENTINE NO. 1-27
Field KING ISLAND
County SAN JOAQUIN State CALIFORNIA

Location: API #: 077-20484
3490' N. AND 990' E.
FROM THE S.W. CORNER OF
SEC 27 TWP 3N RGE 5E

Other Services

Permanent Datum G.L. Elevation -6'
Log Measured From K.B. 13'
Drilling Measured From K.B.

Elevation
K.B. 7'
D.F. ------
G.L. -6'

Date	4-29-2015	
Run Number	ONE DOWN LOG	RUN 2 UP LOG
Depth Driller	4698'	
Depth Logger	4715' P.B.D.	
Bottom Logged Interval	4698'	
Top Log Interval	SURFACE	
Open Hole Size	N/A	
Type Fluid	N/A	
Density / Viscosity	N/A	
Max. Recorded Temp.	159.69 DEG. F. UP LOG	
Estimated Cement Top	4175'	
Time Well Ready	N/A	
Time Logger on Bottom	N/A	
Equipment Number	740	
Location	WOODLAND	
Recorded By	JAMES LEWIS	
Witnessed By	MR. HAMID IRANI	

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				2 3/8"	4.7# J-55	SURFACE	4612'

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24# K-55	SURFACE	627'
Prot. String				
Production String	5 1/2"	15.5# K-55	SURFACE	PBD 4715'
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

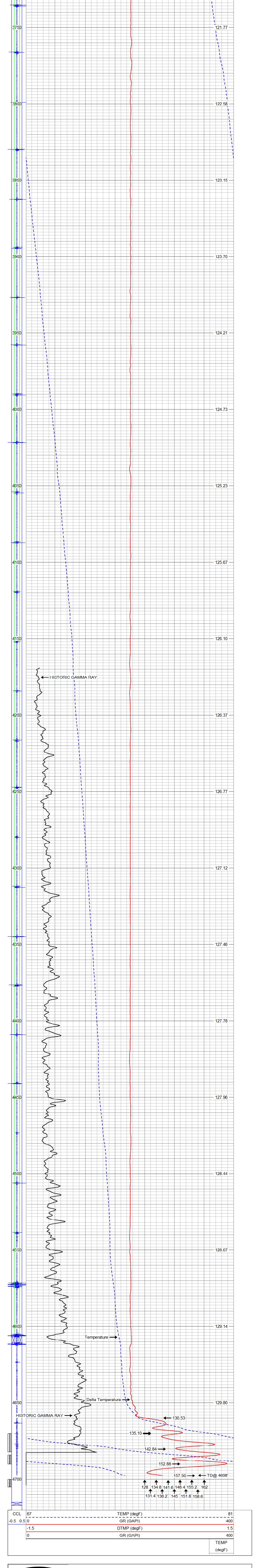
TEMPERATURE SURVEY RUN 1 DOWN LOG RAN @ 30' PER MIN.
TEMPERATURE SURVEY RUN 2 UP LOG RAN @ 60' PER MIN.

HALLIBURTON HISTORIC GAMMA RAY RAN 04-04-2015

TEMPERATURE SURVEY RUN 1 DOWN LOG

Database File:	(4-29-2015) piacentine 1-27 pg&e temp log.db
Dataset Pathname:	merge5
Presentation Format:	temp7
Dataset Creation:	Fri Aug 14 13:44:37 2015
Charted by:	Depth in Feet scaled 1:240

CCL				
	67	TEMP (degF)	81	
-0.5 0.5	0	GR (GAPI)	400	
	-1.5	DTMP (degF)	1.5	
	0	GR (GAPI)	400	
				TEMP (degF)



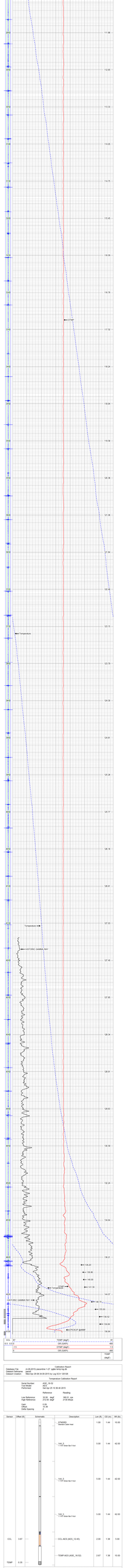
CCL		
	67 TEMP (degF) 81	
-0.5 0.5	0 GR (GAPI) 400	
	-1.5 DTMP (degF) 1.5	
	0 GR (GAPI) 400	
		TEMP (degF)

TEMPERATURE SURVEY RUN 2 UP LOG

Cogco

Database File:	(4-29-2015) piacentine 1-27 pg&e temp log.db
Dataset Pathname:	merge6
Presentation Format:	temp7
Dataset Creation:	Fri Aug 14 13:52:21 2015
Charted by:	Depth in Feet scaled 1:240

CCL		
	67 TEMP (degF) 81	
-0.5 0.5	0 GR (GAPI) 400	
	-1.5 DTMP (degF) 1.5	
	0 GR (GAPI) 400	
		TEMP (degF)



Calibration Report

Database File: 24.05.2015 pacerdrive 1.27 .pgdw temp log.db
Calibration Type: Temperature
Dataset Creation: Wed Sep 28 08:34:06 2016 by user EDI-1001

Temperature Calibration Report

Serial Number	9GC 16-11		
First Model	PGX 3		
Performed	Sat Apr 25 10:16:40 2015		
	Reference	Reading	
Low Reference	32.0 degF	32.00 degF	0.00
High Reference	212.00 degF	212.00 degF	212.00
Gain	0.00		
Offset	0.00		
Offset Opening	21.00		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	CO (in)	BR (lb)
			1CNG/HD Natural Gamma Hear	1.00	1.44	10.00
			1XA_0 1-1/4" Sinker Bar 5 foot	5.00	1.44	40.00
			1XA_0 1-1/4" Sinker Bar 5 foot	5.00	1.44	40.00
			1XA_0 1-1/4" Sinker Bar 5 foot	5.00	1.44	40.00
CCL	3.67		CCL,AUX (AUX_10.5ft)	2.00	1.38	5.00
TEMP	0.35		TEMP,AUX (AUX_10.5ft)	2.67	1.38	10.00

Dataset: 24.05.2015 pacerdrive 1.27 .pgdw temp log.db: fieldmadefromrl1pass0
Total Length: 25.01 ft
Total Weight: 151.00 lb
OD: 1.44 in