Company: Baghdad Energy Resources, LLC
Author: Ima Engineer
Field: Yarrow
County: Yarrow
State: Colorado

PARAMAP
COMPUTER CONSULTING SERVICES
WWW.PARAMAP.COM

Well Name	Yarrow 1	Yarrow 2	Yarrow 3	Yarrow 4	Yarrow 5	Yarrow 6	Yarrow 7	Yarrow 8
Latitude	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
Longitude	-102.1	-102.1	-102.1	-102.1	-102.1	-102.1	-102.1	-102.1
Elevation	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Total Depth	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Spud Date	1/1/2014	1/2/2014	1/3/2014	1/4/2014	1/5/2014	1/6/2014	1/7/2014	1/8/2014
Completion Date	1/15/2014	1/16/2014	1/17/2014	1/18/2014	1/19/2014	1/20/2014	1/21/2014	1/22/2014
Status	Producing	Producing	Producing	Producing	Producing	Producing	Producing	Producing
Production	100	100	100	100	100	100	100	100

All interpretations are opinions based on inferences from electrical or other measurements and Paramap Computer Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

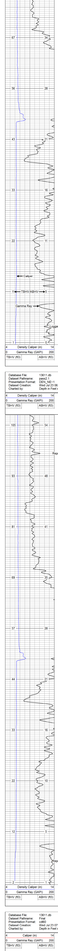
Comments

Annular volume calculated for 4.5" casing
Excel Drilling Rig 2
Thank you for using Pioneer Energy Services

Name	Offset (ft)	Schematic	Description	Jet (ft)	OD (in)	ID (in)
			OAH (+3)	2.00	3.50	30.00
MB	0.00		OA PH (826)	2.50	3.50	40.00
Drill Collar (Vertical)	0.87 0.87 0.87		OA PH (826)	5.00	3.50	70.00
			OA PH (966)	8.50	5.00	280.00
SDVL SDVL MB	-11.80 -12.67 -13.47					
RLL3	-17.52					
CLL2	-24.97		OA PH (1011)	14.25	1.75	175.00
CLL6	-28.42					
BP	-33.42		Flapper Ball Seat Total Weight Total Length	1.50 in, Nominal/Full Open* Ball in 600.00 lb 33.42 ft		

Calculated Top: 1361.46
Datum Elevation: 5000
Interpolation Format: MD_VALUE
Created by: Ima Engineer on 01-07-2014 09:37:25

Density Caliper (in) 10 | 20 | Density Porosity (pu) 45 | 5
Gamma Ray (API) 0 | 200 | Neutron Porosity (pu) 45 | -15
Yarrow 1 (API) Yarrow (RD) 0.2 | 2000 | Correction (g/cc) 0.5 | -0.5



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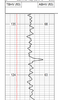

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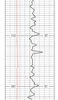

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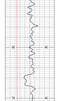

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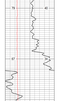

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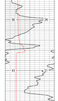

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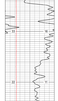

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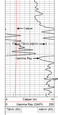

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Dual Induction Calibration Report

Dual Induction
Surface Cal Performed

Readings

	Air	Loop	Air	Loop	Air	Loop	Air	Loop
Deep	0.000	1.000		0.000	1.000	minimum	0.000	-0.000
Medium	0.000	1.000		0.000	1.000	minimum	0.000	-0.000

References

	Low	High
	0.000	1.000
	0.000	1.000

Results

	Low	High
minimum	0.000	-0.000
minimum	0.000	-0.000

Compensated Density Calibration Report

Near-Far
Density Calibration Performed: Sat Jan 18 01:41:25 2014

Master Calibration

	Density		Far Detector	Near Detector
Magnesium	2.000	g/cc	7210.00	8616.00 cps
Aluminum	2.680	g/cc	1230.00	2021.00 cps
		Units	Reading	
Small Ring		in		
Medium Ring		in		
Large Ring		in		

Compensated Neutron Calibration Record

	Serial Number	909
	Tool Model	PNC

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	1.00 cps	1.00 cps	1.0000
Long Space	1.00 cps	1.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number	909
Tool Model	PNC
Performed	Sat Jan 18 01:41:36 2014
Calibration Reading	1.0
Background Reading	0.0
	Units/Cps
Sensitivity	0.6356