

surface

HALLIBURTON

iCem[®] Service

Post Job Report

PIONEER NATURAL RES USA INC-EBUS

For: Pioneer

Date: Saturday, August 16, 2014

HARMON WELL # 42-6-17-53

PIONEER PATTERSON 180 HARMON WELL # 42-6-17-53 SURFACE

Sincerely,

Rock Springs Engineering

1.3 Planned Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Downhole Volume bbl
1	1	Spacer	Tuned Spacer	9.50	4.0	50
1	2	Cement Slurry	SwiftCem	12	6.00	225.8
1	3	Cement Slurry	SwiftCem	12.8	6.00	45.9
1	4	Displacement	Fresh Water	8.33	6.00,2.00	232.5

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1.6 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Driv-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Comment
Event	1	Call Out	Call Out	7/22/2014	14:00:00	USER				HES CREW CALLED OUT AT 1400 ON 7-22-14, REQUESTED ON LOCATION AT 1500 ON 7-23-14
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	7/22/2014	16:00:00	USER				HES CREW DISCUSSED THE HAZARDS OF DRIVING TO LOCATION
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/22/2014	16:30:00	USER				HES CREW DEPART FOR LOCATION
Event	4	Arrive At Loc	Arrive At Loc	7/23/2014	13:00:00	USER				HES CREW ARRIVES AT LOCATION
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/23/2014	13:15:00	USER				HES CREW DISCUSSED THE HAZARDS OF SPOTTING EQUIPMENT
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/23/2014	13:30:00	USER				HES CREW DISCUSSED THE HAZARDS OF RIGGING UP ALL LINES AND EQUIPMENT
Event	7	Rig-Up Equipment	Rig-Up Equipment	7/23/2014	13:45:00	USER				RIG UP EQUIPMENT
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/24/2014	05:20:00	USER	-16.00	8.32	0.00	HES AND RIG CREW DISCUSSED THE HAZARDS OF RIGGING UP THE RIG FLOOR AND BRINGING EQUIPMENT UP TO FLOOR AS WELL AS PUMPING THE JOB
Event	9	Rig-Up Completed	Rig-Up Completed	7/24/2014	05:50:00	USER	-2.00	8.35	0.00	RIG UP COMPLETE
Event	10	Start Job	Start Job	7/24/2014	05:52:30	USER	-3.00	1.13	0.00	PUMP 5 BBLS OF H2O TO FILL PUMPS AND LINES
Event	11	Shutdown	Shutdown	7/24/2014	05:55:55	USER	90.00	8.23	0.00	SHUTDOWN
Event	12	Pressure Test	Pressure Test	7/24/2014	05:57:33	USER	1264.00	8.31	0.00	500 PSI LOW PRESSURE KICKOUT TEST, PUMP KICKED OUT AT 500 PSI

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Event	13	Pressure Test	Pressure Test	7/24/2014	05:58:25	USER	3517.00	8.33	0.00	PRESSURE TEST HES IRON TO 3000 PSI
Event	14	Pump Spacer	Pump Spacer	7/24/2014	05:59:56	USER	182.00	9.49	3.80	Pump 50bbl Tuned Spacer III at 9.5lb/gal
Event	15	Shutdown	Shutdown	7/24/2014	06:00:58	USER	60.00	9.46	0.00	SHUTDOWN AS PER DRILLER, RIG HANDS NEEDED TO SET SLIPS
Event	16	Pump Spacer	Pump Spacer	7/24/2014	06:17:43	USER	184.00	9.37	4.00	CAME BACK ONLINE TO PUMP SPACER
Event	17	Pump Lead Cement	Pump Lead Cement	7/24/2014	06:28:13	USER	307.00	11.84	6.00	PUMP 505 SKS OF SWIFTCEM - LEAD AT 12lb/gal., 2.51 FT/SK., 14.85 GAL/SK AT 6 BPM
Event	18	Pump Tail Cement	Pump Tail Cement	7/24/2014	07:07:23	USER	231.00	12.78	6.00	PUMP 125 SKS OF SWIFTCEM - TAIL AT 12.8lb-gal., 2.06 FT/SK., 11.49 GAL/SK AT 6 BPM
Event	19	Shutdown	Shutdown	7/24/2014	07:17:00	USER	37.00	11.99	0.00	SHUTDOWN
Event	20	Drop Top Plug	Drop Top Plug	7/24/2014	07:18:31	USER	21.00	11.95	0.00	COMPANY MAN WITNESSED HES PLUG DROP
Event	21	Pump Displacement	Pump Displacement	7/24/2014	07:19:56	USER	154.00	8.75	6.10	PUMP 232.5 BBLS OF H2O DISPLACEMENT
Event	22	Other	Pump Kicked Out	7/24/2014	07:41:23	USER	175.00	8.59	1.40	PUMP KICKED OUT DUE TO PRESSURE
Event	23	Slow Rate	Slow Rate	7/24/2014	07:44:25	USER	425.00	8.64	4.10	SLOW RATE AT 113 AWAY TO 4 BPM DUE TO PRESSURE
Event	24	Other	Pump Kicked Out	7/24/2014	07:49:34	USER	176.00	8.28	3.20	PUMP KICKED OUT DUE TO PRESSURE
Event	25	Other	Pump Kicked Out	7/24/2014	07:58:55	USER	412.00	8.33	1.00	PUMP KICKED OUT DUE TO PRESSURE
Event	26	Slow Rate	Slow Rate	7/24/2014	08:12:14	USER	700.00	8.31	3.00	SLOW RATE TO 3 BPM LAST 30 BBLS
Event	27	Slow Rate	Slow Rate	7/24/2014	08:16:11	USER	706.00	8.35	1.90	SLOW RATE TO 2 BPM LAST 20 BBLS
Event	28	Bump Plug	Slow Rate	7/24/2014	08:25:00	USER	1261.00	8.30	0.00	BUMP PLUG 500 PSI OVER AND HOLD FOR 15 MIN
Event	29	Check Floats	Check Floats	7/24/2014	08:39:50	USER	1252.00	8.34	0.00	FLOATS HELD WITH 1.5 BBLS BACK TO HES CEMENT PUMP

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Event	30	End Job	End Job	7/24/2014	10:15:00	USER	END JOB, HAD TO WAIT FOR 1.5 HOURS TO CHECK FOR TOPOUT JOB, CEMENT DIDNT FALL,
Event	31	Pre-Rig Down Safety Meeting	Pre Rig Down Safety Meeting	7/24/2014	10:20:00	USER	HES AND RIG CREW DISCUSS THE HAZARDS OF RIGGING DOWN EQUIPMENT AND BRINGING EQUIPMENT DOWN FROM RIG FLOOR AS WELL AS LOADING IT INTO THE BACK OF THE TRUCK
Event	32	Rig-Down Equipment	Rig-Down Equipment	7/24/2014	10:40:00	USER	RIG DOWN EQUIPMENT
Event	33	Depart Location Safety Meeting	Depart Location Safety Meeting	7/24/2014	11:15:00	USER	HES CREW DISCUSSED THE HAZARDS OF DRIVING
Event	34	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	7/24/2014	11:30:00	USER	HES DEPARTS LOCATION
Event	35	Job Complete	Job Complete	7/24/2014	11:31:00	USER	JOB COMPLETE, 35 BBLS OF LEAD BACK TO SURFACE, TOP OF TAIL AT 2288.7, THANKS FROM HALLIBURTON