



SAFETY PREP PROCEDURE

Well Name:	HSR-GEORGE 1-6
Job Type:	PT or MIT for Safety Prep
Deadline:	-
WINS:	76750
API:	05-123-17914
AFE Number:	-
Route/ Foreman:	N1F/Brian Walls
Gyro Date:	1/25/2017
Engineer:	J. LOHRENZ / 480-528-5889
STIP:	CROP
CBL Found:	Yes
Daily Reports Reviewed:	Yes
OW Research:	Yes
State Website Research:	Complete
OW WBD:	Complete
Prog Cover Sheet:	Complete

APPROVAL PROCESS

NAME AND DATE

INITIAL PEER REVIEW:

Kaylie Milam

RIG ENGINEER REVIEW:

Jessica Lohrenz

FINAL APPROVAL:

ENGINEER: J. LOHRENZ

5/17/2021

MIT Test

HSR-GEORGE 1-6

API: 05-123-17914

WINS: 76750

Step Description

1	Well needs MIT Test. Well is a leaseholder.
2	Contact field foreman or field coordinator before rig up to isolate production equipment if possible. Notify Automation Removal Group at least 24 hours prior to rig move. If surface casing is not accessible at ground level, re-pipe so valve is at ground level. Plug all disconnected valves around wellhead.
3	MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in Open Wells. Well has Gyro from 01/25/17. RDMO Slickline.
4	Prepare location for base beam equipped rig. Install perimeter fence as needed.
5	Refer to BOP testing guidelines, fluid barrier management, and tripping best practices as applicable. All wireline operations will need a flanged changeover, WL BOP, Lubricator with an ID to fit the largest OD of the toolstring, and a packoff. WL and Slickline max speed is 500 ft/min. Please contact foreman to discuss arrangement of stack, or alternate plan. Contact your foremen with any questions regarding standard operating procedures or any potential deviations.
6	MIRU WO rig. Spot an empty tubing float. Kill well as necessary using fresh water with biocide. ND WH. NU BOP. Unland tbg using unlanding joint and LD unlanding joint. **Barrier Management** Fluid will be the only barrier while NU BOP. Stop and review JSA.
7	TOOH tallying. SB all 1.66" tbg. LD any remainder.
8	PU and TIH with (2-7/8", 6.5#) bit and scraper on 1.66" tubing to 6680'. Clean section from 6665'-6680' 2-3 times to ensure casing is clean for RBP set. TOOH while SB all 1.66" tubing. LD bit and scraper.
9	PU and TIH with 10,000 psi rated RBP (2-7/8", 6.5#) above and below on 1.66" tbg. Set RBP (2-7/8", 6.5#) at +/-6680'. Collars at 6668' & 6700'. TOOH with 2 joints of tbg. Contact foremen if sand cap desired. If so, dump 2 sx sand on top of RBP. Kick on pumps at low rate to chase sand down tubing. Do not pump at high rate causing the sand to circulate.
10	Perform MIT Pre-Test or official MIT. Install Crystal Gauge. Perform test on a 1000 psi max Barton Chart. Ensure clean run up and run-down in pressure to at least 350 psi for 20 minutes, stable pressure hold, and stable pressure at the end of the MIT test. Test must not lose or gain more than 10% of testing pressure throughout the entire testing period and without losing/gaining more than 3 psi in the last 5 minutes of testing. Send a copy of the MIT results to your Engineer and Foreman for approval. Contact your Engineer or Foreman if you have any questions regarding MIT best practices or completing the Form 21. If an official MIT, provide 24hr notice to the State Inspector by phone call and email (48 hour notification preferred if possible).
11	TIH and un-set RBP at 6680'. TOOH and SB all 1.66" tubing, LD RBP.
12	Confirm installation of two 5K rated casing valves on the offside and two 5K rated casing valves on the flowline side for a total of 4 casing valves and XXH nipples (8" XXH nipple between wellhead and first casing valve and 4" XXH nipple between the two casing valves).
13	TIH with 1.66" NC, 1.66" XN nipple and 1.66" tubing to +/-7117'. TOOH with 2 stands of tubing to +/-6997' to lower the fluid level in casing. Land tbg in tbg hanger.
15	RU slickline. Broach tubing to XN nipple with broach measured to tubing drift. RD slickline.
16	ND BOP. NU 7-1/16", 5K flanged tubing head adaptor w/ two new 2-1/16", 5K flanged master valves. Put new R46 gasket on tubing head. Install new tubing hanger ring gaskets. Install new lockdown screw packing. Ensure WH, valves, and fittings are rated to 5K. All soft goods should be new. Torque and test WH. Create Wellhead Report in OpenWells.

17	If Seabord/Weir - RU hydrotester. Install 2-3/8" pup joint above master valve. Hydrotest wellhead first to 250 psi for a low pressure test for 15 minutes. Then, hydrotest wellhead to 5,000 psi for 15 minutes. Document results. No leakoff is acceptable. RD hydrotester. If GE - pressure test void first to 250 psi for a low pressure test for 15 minutes. Then, pressure wellhead to 5,000 psi for 15 minutes. Document results. No leakoff is acceptable. Bleed off all pressure from the void when you are done.
18	Secure wellhead, clean up location. RDMO WO rig. Hang HZ Safety Prep sign on wellhead.

Notes:

FH Sand Base: BP; FHM: 593'; SX Top: 3883'; SX Base: 4097'; SH Base: 4518'; Niobrara Top: 6721'

Well has Gyro. Gyro was run on 01/25/2017.

No known casing integrity issues.

VERTICAL hole. Well is a current leaseholder.

KERR-MCGEE OIL AND GAS ONSHORE LP

GEORGE 1-6

NE NE 6 4N 67W -- --

WELD,COLORADO

05/17/2021

AREA: N1

ROUTE: N1F Spud: 01/23/1994

WINS No.: 76750

AFE/WO#: 90371642

API#: 0512317914

GL: 4872

KB: 4882

MTD: 7198

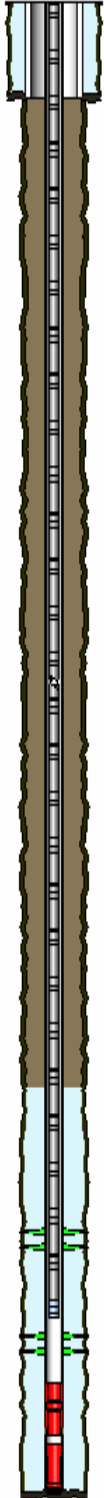
TVD: 7198

LOG MD: 7198

PBMD: 7121

PBTVD: 7121

Directions: HWY 60 & CR 15, N. 7/10, W. 1/10, N. INTO



<u>HOLE SECTIONS</u>	<u>Size</u>	<u>Top</u>	<u>Btm</u>	<u>TD Date</u>				
SURFACE	12.25	10	530	01/23/1994				
PRODUCTION	7.88	530	7198	01/27/1994				
<u>TUBULARS</u>	<u>Tool Type</u>	<u>Joints</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Top D</u>	<u>Bottom D</u>
SURFACE CASING	Casing	12	8.63	24			10	529
PRODUCTION CASING	Casing	219	2.88	6.5	J-55		10	7161
	Casing Float Collar	1	2.88				7161	7163
	Casing	1	2.88	6.5	J-55		7163	7191
	Casing Guide Shoe	1	2.88				7191	7192
PRODUCTION TUBING	Tubing	215	1.66	2.33	J-55	Integral-Joi	10	6996
	Seating Nipple	1	1.66				6996	6997
PRODUCTION TUBING								
<u>CEMENT JOBS</u>	<u>Stage</u>	<u>Sacks</u>	<u>Cement Jobs</u>		<u>Top D</u>	<u>Btm D</u>	<u>cbl</u>	
SURFACE CASING	STAGE 1	370	NEAT		10	530	No	
PRODUCTION CASING	STAGE 1	230	PREMIUM		5987	7198	Yes	
<u>PERFORATIONS</u>								
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>Date</u>	<u>Reason</u>	<u>Comments</u>		
NIOBRARA		6737	6740	03/07/1994	PRODUCTION			
CODELL		7047	7050	03/07/1994	PRODUCTION			

Comments:



Company: Anadarko Petroleum Corp.
 Well/API: HSR- George 1-6/ 05-123-17914
 Tool Type: North Seeking Rate Gyro
 Rig Name: Production/ Summit
 County/State: Weld / Colorado
 VS-Azi: 0.000 Degrees
 Latitude: 40.34698, Longitude: -104.92633
 All Azimuths referenced to True North
 No Grid Convergence Applied



Depth Reference : RKB = GL Elevation = 4872'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: run1-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 1/30/2017 / 13:16

Lat/Long Obtained By Handheld GPS At Wellhead
 Handheld GPS Reference: NAD83/Device Error: ±9 Feet
 VES Survey International - Henderson CO
 Surveyor: Jay Hinman / HSR-George 1-6
 303-853-4976

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	****
100.000	0.410	245.064	99.999	-0.151	-0.325	-0.151	0.358	245.064	0.410
200.000	0.241	34.657	199.998	-0.129	-0.530	-0.129	0.545	256.302	0.630
300.000	0.256	359.538	299.998	0.267	-0.412	0.267	0.491	302.965	0.151
400.000	0.584	334.086	399.995	0.949	-0.637	0.949	1.143	326.154	0.369
500.000	0.367	312.755	499.991	1.625	-1.094	1.625	1.959	326.041	0.277
600.000	0.335	350.247	599.990	2.131	-1.379	2.131	2.538	327.089	0.228
700.000	0.551	354.101	699.987	2.897	-1.478	2.897	3.253	332.973	0.217
800.000	0.723	315.682	799.981	3.827	-1.969	3.827	4.304	332.782	0.450
900.000	0.536	279.855	899.975	4.359	-2.871	4.359	5.219	326.634	0.426
1000.000	0.781	302.972	999.969	4.810	-3.903	4.810	6.194	320.942	0.356
1100.000	1.032	274.520	1099.956	5.252	-5.372	5.252	7.513	314.348	0.508
1200.000	0.787	273.094	1199.944	5.360	-6.956	5.360	8.782	307.613	0.246
1300.000	0.979	294.931	1299.932	5.757	-8.417	5.757	10.198	304.370	0.384
1400.000	1.312	284.109	1399.912	6.396	-10.302	6.396	12.126	301.834	0.395
1500.000	1.272	259.165	1499.888	6.466	-12.502	6.466	14.075	297.349	0.559
1600.000	1.297	258.155	1599.862	6.026	-14.699	6.026	15.886	292.290	0.034

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1700.000	1.241	255.408	1699.838	5.520	-16.855	5.520	17.736	288.135	0.082
1800.000	1.241	252.568	1799.814	4.923	-18.936	4.923	19.566	284.574	0.062
1900.000	1.142	244.559	1899.793	4.170	-20.870	4.170	21.282	281.301	0.194
2000.000	1.327	253.015	1999.770	3.404	-22.877	3.404	23.129	278.463	0.259
2100.000	1.128	260.043	2099.747	2.896	-24.955	2.896	25.122	276.618	0.249
2200.000	1.088	242.013	2199.728	2.280	-26.763	2.280	26.860	274.869	0.350
2300.000	1.032	243.035	2299.711	1.426	-28.404	1.426	28.440	272.873	0.059
2400.000	1.289	247.802	2399.691	0.592	-30.249	0.592	30.255	271.121	0.275
2500.000	1.063	244.368	2499.669	-0.234	-32.127	-0.234	32.128	269.582	0.237
2600.000	1.030	255.238	2599.653	-0.865	-33.832	-0.865	33.843	268.536	0.201
2700.000	1.337	261.905	2699.632	-1.258	-35.856	-1.258	35.878	267.991	0.336
2800.000	1.183	266.903	2799.607	-1.478	-38.042	-1.478	38.071	267.775	0.189
2900.000	1.100	268.410	2899.587	-1.560	-40.033	-1.560	40.063	267.768	0.089
3000.000	1.149	264.187	2999.568	-1.688	-41.990	-1.688	42.023	267.697	0.096
3100.000	1.540	248.090	3099.541	-2.291	-44.234	-2.291	44.293	267.035	0.540
3200.000	0.909	228.994	3199.518	-3.313	-46.079	-3.313	46.198	265.887	0.743
3300.000	0.757	222.063	3299.507	-4.324	-47.120	-4.324	47.318	264.757	0.183
3400.000	1.319	212.709	3399.491	-5.783	-48.185	-5.783	48.530	263.156	0.586
3500.000	1.500	197.981	3499.461	-7.996	-49.211	-7.996	49.856	260.771	0.403
3600.000	1.514	197.179	3599.426	-10.503	-50.005	-10.503	51.096	258.138	0.026
3700.000	1.555	196.369	3699.390	-13.068	-50.778	-13.068	52.432	255.568	0.047
3800.000	1.388	208.273	3799.357	-15.436	-51.734	-15.436	53.987	253.386	0.348
3900.000	1.073	216.428	3899.334	-17.256	-52.863	-17.256	55.608	251.922	0.359
4000.000	0.872	231.740	3999.320	-18.481	-54.017	-18.481	57.091	251.113	0.327
4100.000	0.767	259.606	4099.310	-19.072	-55.272	-19.072	58.470	250.962	0.407
4200.000	1.130	273.569	4199.296	-19.132	-56.914	-19.132	60.044	251.420	0.428
4300.000	1.211	262.306	4299.276	-19.212	-58.945	-19.212	61.997	251.948	0.243
4400.000	1.183	259.426	4399.254	-19.543	-61.007	-19.543	64.061	252.238	0.066
4500.000	1.024	257.626	4499.235	-19.924	-62.895	-19.924	65.975	252.423	0.163
4600.000	0.871	273.629	4599.222	-20.067	-64.526	-20.067	67.574	252.725	0.304
4700.000	1.054	256.222	4699.208	-20.238	-66.178	-20.238	69.203	252.996	0.343
4800.000	0.974	249.484	4799.192	-20.755	-67.867	-20.755	70.970	252.996	0.143
4900.000	0.929	250.843	4899.178	-21.319	-69.429	-21.319	72.629	252.931	0.050
5000.000	0.848	249.240	4999.166	-21.847	-70.887	-21.847	74.177	252.871	0.085
5100.000	0.657	256.545	5099.158	-22.243	-72.137	-22.243	75.488	252.863	0.213
5200.000	1.093	280.804	5199.146	-22.197	-73.631	-22.197	76.904	253.224	0.562
5300.000	1.640	293.439	5299.118	-21.450	-75.880	-21.450	78.854	254.216	0.621
5400.000	1.769	293.810	5399.073	-20.257	-78.605	-20.257	81.174	255.549	0.130
5500.000	1.542	293.226	5499.031	-19.103	-81.255	-19.103	83.470	256.770	0.228

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5600.000	1.380	274.630	5598.999	-18.475	-83.692	-18.475	85.707	257.551	0.499
5700.000	1.142	258.622	5698.975	-18.575	-85.869	-18.575	87.855	257.794	0.423
5800.000	0.822	240.527	5798.961	-19.124	-87.471	-19.124	89.537	257.667	0.442
5900.000	1.082	225.458	5898.947	-20.140	-88.769	-20.140	91.025	257.217	0.359
6000.000	0.996	219.835	5998.931	-21.470	-89.999	-21.470	92.524	256.582	0.134
6100.000	0.840	216.397	6098.918	-22.727	-90.991	-22.727	93.786	255.976	0.165
6200.000	0.854	211.291	6198.907	-23.955	-91.813	-23.955	94.886	255.377	0.077
6300.000	0.847	215.604	6298.896	-25.192	-92.630	-25.192	95.995	254.785	0.064
6400.000	0.865	216.293	6398.885	-26.402	-93.508	-26.402	97.163	254.233	0.020
6500.000	0.816	212.617	6498.874	-27.610	-94.338	-27.610	98.295	253.687	0.073
6600.000	0.747	214.852	6598.865	-28.744	-95.094	-28.744	99.344	253.181	0.075
6700.000	0.851	212.200	6698.855	-29.908	-95.863	-29.908	100.420	252.673	0.110
6800.000	0.853	217.028	6798.844	-31.132	-96.707	-31.132	101.595	252.156	0.072
6900.000	0.570	210.271	6898.836	-32.156	-97.406	-32.156	102.577	251.731	0.295
6950.000	0.402	190.314	6948.834	-32.543	-97.563	-32.543	102.847	251.554	0.472