



**Pumping
Service Report**

9193494

Client Name Anadarko Petroleum Corporation	Well Name Nelson Harold Gas Unit A 1	Rig Basic 1549	Job Date July 08, 2014	Call Sheet 1043845
Client Representative Larry Webb	Surface Well Location SE NE Sec 31:T3N:R67W	Down Hole Well Location	Job Type Abandonment Plugs	

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ --

Bottom Hole Circulating Temperature (°F): --- @ --

Bottom Hole Logged Temperature (°F): --- @ --

Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
8.625	24.000	J-55	1,370.0	2,950.0	14.07	8.097	9.625	0.0	221.0
4.500	11.600	N-80	6,350.0	7,780.0	121.42	4.000	5.000	0.0	7,812.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	0.000	J-55	--	--	--	--	0.000	7,812.000

Products

Plug 1

From Depth (ft): 6590

To Depth (ft): 7010

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 150 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 44.3 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 75 , Slurry Temperature(°F) = 89

+ 20 % of Silica Flour (Preblend),

+ 3 % of Gel (Preblend),

+ 0.1 % of SMS (Preblend),

+ 0.4 % of CFR-2 (Preblend),

+ 0.4 % of CFL-3 (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jul 08, 2014 09:10



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Units & Personnel

Units

<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
740069	BODY JOB	C & A				07/08/2014 10:30	07/08/2014 13:35
746502	BODY JOB	Baby Bulker				07/08/2014 10:30	07/08/2014 13:35
201025	PICKUP	1 Ton	449087	TRAILER	Utility Trailer	07/08/2014 10:30	07/08/2014 13:35

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Ladwig, Corrie	07/08/2014 10:30	07/08/2014 13:35		
Byczynski, Michael	07/08/2014 10:30	07/08/2014 13:35		
Curtner, Jerry	07/08/2014 10:30	07/08/2014 13:35		
Contreras, Bennie	07/08/2014 10:30	07/08/2014 13:35		

Treatment Reports & Remarks



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Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Jul 08,2014 10:30	Arrive On Location	---	--	--	--	--	0.00
		Remarks: Arrived						
2	Jul 08,2014 11:00	Tailgate Meeting	---	--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rigging in.						
3	Jul 08,2014 11:10	Rig In	---	--	--	--	--	0.00
		Remarks: Rigged in iron and hoses.						
4	Jul 08,2014 11:25	Safety Meeting	---	--	--	--	--	0.00
		Remarks: Muster, Nearest med, 911 caller, Location safety equipt, Job scope.						
5	Jul 08,2014 11:50	Sign-off on Safety	---	--	--	--	--	0.00
		Remarks: Sign al;l JSAs.						
6	Jul 08,2014 11:55	Pressure Test	Water	--	2,800.0	--	--	0.00
		Remarks: Pressure test 2800 psi.						
7	Jul 08,2014 11:58	Establish Circulation	Water	2.00	1,200.0	--	10.00	10.00
		Remarks: Established circulation.						
8	Jul 08,2014 12:07	Mix Cement	1-1-0 G	3.00	1,500.0	--	44.30	54.30
		Remarks: Mix and pump 150 SKs of cement @ 13.5 lb/gal.						
9	Jul 08,2014 12:22	Displace Fluid	Water	3.00	1,700.0	--	25.00	79.30
		Remarks: Displaced 25 BBLs of water.						
10	Jul 08,2014 12:34	Stop	---	--	--	--	--	79.30
		Remarks: Stopped and rigged off well.						
11	Jul 08,2014 12:36	Wash	Water	2.00	100.0	--	10.00	0.00
		Remarks: Wash mix tub and runback on triplex.						
12	Jul 08,2014 13:10	Rig Out	---	--	--	--	--	79.30
		Remarks: Rig out iron and hoses.						
13	Jul 08,2014 13:20	Job Complete	---	--	--	--	--	79.30
		Remarks: Job complete.						
14	Jul 08,2014 13:22	Pre-Departure Meeting	---	--	--	--	--	79.30
		Remarks: Journey management.						
15	Jul 08,2014 13:35	Leave Location	---	--	--	--	--	79.30
		Remarks: Leave						

Did Float Hold: Not Applicable

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



**Pumping
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Client Name Anadarko Petroleum Corporation	Well Name Nelson Harold Unit A 1	Rig Basic 1549	Job Date July 09, 2014	Call Sheet 1043893
Client Representative Larry Webb	Surface Well Location SE NE Sec 31:T3N:R67W	Down Hole Well Location	Job Type Bradenhead Squeeze	

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ ---

Bottom Hole Circulating Temperature (°F): --- @ ---

Bottom Hole Logged Temperature (°F): --- @ ---

Casing

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
4.500	11.600	J-55	4,960.0	5,350.0	69.32	4.000	5.000	0.0	4,460.0

Tubing

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.375	4.700	J-55	8,100.000	17.240	1.995	2.910	0.000	4,460.000

Products

Plug 1

From Depth (ft): 4460

To Depth (ft): 3731

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 55 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 11.3 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 70

- + 0.5 % of CFR-2 (Preblend),
- + 0.25 % of FMC (Preblend),
- + 0.5 % of LWA (Preblend)

Plug 2

From Depth (ft): 610

To Depth (ft): 110

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 125 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 29.6 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 70

- + 0.3 % of CFR-2 (Preblend),
- + 0.5 % of CaCl₂ (Preblend),
- + 0.3 % of CFL-3 (Preblend),
- + 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top:	Depth (ft): 226				
Wellbore Fluid					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	8.400	--	--	Jul 09, 2014 04:53



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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Cement Retainer	420.000	Third Party

Units & Personnel

Units

<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
201231	PICKUP	1/2 Ton				07/09/2014 06:30	07/09/2014 14:00
740004	BODY JOB	C & A				07/09/2014 06:30	07/09/2014 14:00
446075	TRAILER	Bulker	746075	TRACTOR	Tandem - Tractor	07/09/2014 06:30	07/09/2014 14:00
200918	PICKUP	3/4 Ton				07/09/2014 06:30	07/09/2014 14:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Bushnell, Cody	07/09/2014 06:30	07/09/2014 14:00		
McMartin, Granite	07/09/2014 06:30	07/09/2014 14:00		
Cox, Brandon	07/09/2014 06:30	07/09/2014 14:00		
Keysaw, Earl	07/09/2014 06:30	07/09/2014 14:00		
Paiu, Vladislav	07/09/2014 06:30	07/09/2014 14:00		
Schroeder, Stephen	07/09/2014 06:30	07/09/2014 14:00		

Treatment Reports & Remarks



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Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Jul 09,2014 06:30	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Jul 09,2014 06:40	Tailgate Meeting		0.00	0.0	0.0	0.00	0.00
3	Jul 09,2014 06:50	Safety Meeting		0.00	0.0	0.0	0.00	0.00
4	Jul 09,2014 07:00	Sign-off on Safety		0.00	0.0	0.0	0.00	0.00
5	Jul 09,2014 07:10	Rig In		0.00	0.0	0.0	0.00	0.00
6	Jul 09,2014 07:57	Pressure Test	Water	0.00	0.0	0.0	0.00	0.00
		Remarks: Test Sanjel Lines						
7	Jul 09,2014 07:58	Pump	Water	3.00	600.0	0.0	10.00	10.00
		Remarks: Establish Circulation						
8	Jul 09,2014 08:03	Pump	0-1-0 G	3.00	300.0	0.0	11.30	21.30
		Remarks: Plug from 4460-3731						
9	Jul 09,2014 08:08	Pump	Water	2.00	50.0	0.0	13.00	34.30
		Remarks: Displace to balance						
10	Jul 09,2014 08:30	Wait On Instructions		0.00	0.0	0.0	0.00	34.30
		Remarks: Wait on wire line and tool hand to run retainer						
11	Jul 09,2014 12:21	Pressure Test	Water	0.00	0.0	0.0	0.00	0.00
		Remarks: Test Sanjel Lines						
12	Jul 09,2014 12:22	Pump	Water	2.00	300.0	0.0	10.00	0.00
		Remarks: Injection Test						
13	Jul 09,2014 12:26	Pump	0:1:0 Type III	2.00	300.0	0.0	29.60	0.00
		Remarks: Suicide Squeeze						
14	Jul 09,2014 12:40	Pump	Water	1.00	50.0	0.0	1.00	0.00
		Remarks: Displace Lines						
15	Jul 09,2014 13:00	JSA	---	0.00	0.0	0.0	0.00	0.00
		Remarks: Pre rig out meeting						
16	Jul 09,2014 13:10	Rig Out	---	0.00	0.0	0.0	0.00	0.00
17	Jul 09,2014 13:50	Pre-Departure Meeting	---	0.00	0.0	0.0	0.00	0.00
18	Jul 09,2014 14:00	Job Complete	---	0.00	0.0	0.0	0.00	0.00
19	Jul 09,2014 14:00	Leave Location	---	0.00	0.0	0.0	0.00	0.00

Did Float Hold: Not Applicable
Fluid Returns : Not Expected
Type :
Volume (bbl) :
Temperature (°F) : --
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : No
No program generated.

Material Transfer Sheet Number

Material Transfer Sheet Number

46701