Sanjel

Cementing Service Report

9210089

Client Name	Well Name	Rig	Job Date	Call Sheet
Anadarko Petroleum Corporation	PSC 16 - 9X	Ensign Drilling Inc. 350	January 29,2016	1064435
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
Mr. Rigo Cintora	SE SE Sec 9:T3N:R67W		Abandonment Plugs	Prigmore, Dominic (27161)

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	20.06	8.097	9.625	0.0	315.0
4.500	11.600	J-55	4,960.0	5,350.0	106.93	4.000	5.000	0.0	6,880.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700	J-55	8,100.000	26.600	1.995	2.910	0.000	6,880.000

Products

Plug 1

From Depth (ft): 6350

To Depth (ft): 6780

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 25 Sacks of Thermal 35, Density = 15.8 lb/gal, Volume Pumped = 6.7 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 55
+ 0.3 % of ASM-3 (Preblend),
+ 0.3 % of CFR-2 (Preblend)

Plug 2

From Depth (ft): 4341

To Depth (ft): 4670

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 55
+ 0.5 % of CFR-2 (Preblend),
+ 0.2 % of ASM-3 (Preblend),
+ 0.5 % of LWA (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 4341

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

Sanjel

Cementing Service Report

9210089

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
740018-1	BODY JOB	C & A				01/29/2016 10:30	01/29/2016 14:30
446085	TRAILER	Bulker	746085	TRACTOR	Tandem - Tractor	01/29/2016 10:30	01/29/2016 14:30
201386	PICKUP	1 Ton				01/29/2016 10:30	01/29/2016 14:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Devine, Richard (29733)	01/29/2016 10:30	01/29/2016 14:30		
Decenick, Jorden (30684)	01/29/2016 10:30	01/29/2016 14:30		
Prigmore, Dominic (27161)	01/29/2016 10:30	01/29/2016 14:30		

Sanjel

Cementing Service Report

9210089

Treatment Reports & Remarks

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	Jan 29,2016 10:30	Arrive On Location		--	--	--	--	0.00
2	Jan 29,2016 10:39	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jan 29,2016 11:42	Rig in Complete		--	--	--	--	0.00
4	Jan 29,2016 11:48	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 29,2016 12:00	Pressure Test Start	Water	--	3,000.0	--	--	0.00
6	Jan 29,2016 12:05	Pressure Test Complete	Water	--	3,000.0	--	--	0.00
	Remarks: Good P.T							
7	Jan 29,2016 12:12	Establish Circulation	Water	2.00	275.0	--	5.00	5.00
	Remarks: Circulation present.							
8	Jan 29,2016 12:17	Mix Cement	Thermal 35	2.00	500.0	--	6.90	11.90
	Remarks: T.O.C 6350							
9	Jan 29,2016 12:21	Displace Fluid	Water	2.00	500.0	--	22.00	33.90
	Remarks: Displaced to balance.							
10	Jan 29,2016 12:45	Wait On Instructions		--	--	--	--	33.90
	Remarks: Wait on rig to pull casing.							
11	Jan 29,2016 13:20	Establish Circulation	Water	2.00	250.0	--	5.00	38.90
	Remarks: Circulation present.							
12	Jan 29,2016 13:27	Mix Cement	0-1-0 G	2.00	450.0	--	5.20	44.10
	Remarks: 4341							
13	Jan 29,2016 13:34	Displace Fluid	Water	2.50	300.0	--	14.00	58.10
	Remarks: Displace to balance.							
14	Jan 29,2016 14:00	Job Complete		--	--	--	--	58.10
15	Jan 29,2016 14:30	Leave Location		--	--	--	--	58.10

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? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
4448

Sanjel

Cementing Service Report

9210091

Client Name	Well Name	Rig	Job Date	Call Sheet
Anadarko Petroleum Corporation	PSC 16 - 9X	Ensign Drilling Inc. 350	February 01,2016	1064513
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
Mr. Rigo Cintora	SE SE Sec 9:T3N:R67W		Abandonment Plugs	Prigmore, Dominic (27161)

Sanjel

Cementing Service Report

9210091

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	34.45	8.097	9.625	0.0	541.0
4.500	11.600	J-55	4,960.0	5,350.0	1.60	4.000	5.000	788.0	891.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700	J-55	8,100.000	3.440	1.995	2.910	0.000	891.000

Products

Plug 1

From Depth (ft): 282

To Depth (ft): 891

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 150 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 35.5 (bbl)
Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 55
+ 0.5 % of CaCl2 (Preblend),
+ 0.25 % of LCL-7 (Preblend),
+ 0.3 % of CFL-3 (Preblend),
+ 0.3 % of CFR-2 (Preblend),
+ 0.4 % of CDF-4P (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 282

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jun 07, 2015 22:11

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201386	PICKUP	1 Ton				02/01/2016 12:00	02/01/2016 15:00
740018-1	BODY JOB	C & A				02/01/2016 12:00	02/01/2016 15:00
746506	BODY JOB	Baby Bulker				02/01/2016 12:00	02/01/2016 15:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Prigmore, Dominic (27161)	02/01/2016 12:00	02/01/2016 15:00		
Devine, Richard (29733)	02/01/2016 12:00	02/01/2016 15:00		
Peterson, Ryan (28158)	02/01/2016 12:00	02/01/2016 15:00		

Sanjel

Cementing Service Report

9210091

Treatment Reports & Remarks

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	Feb 01,2016 12:00	Arrive On Location		--	--	--	--	0.00
2	Feb 01,2016 12:07	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Feb 01,2016 12:30	Rig in Complete		--	--	--	--	0.00
4	Feb 01,2016 12:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Feb 01,2016 12:40	Pressure Test Start	Water	--	1,800.0	--	--	0.00
6	Feb 01,2016 12:41	Pressure Test Complete	Water	--	1,800.0	--	--	0.00
	Remarks: Good P.T							
7	Feb 01,2016 12:41	Establish Circulation	Water	2.00	100.0	--	5.00	5.00
	Remarks: circulation present							
8	Feb 01,2016 12:44	Pump Preflush	Water	2.00	60.0	--	10.00	15.00
9	Feb 01,2016 12:49	Pump Spacer	Water	2.00	50.0	--	10.00	25.00
10	Feb 01,2016 12:55	Mix Cement	0:1:0 Type III	2.50	100.0	--	35.80	60.80
	Remarks: T.O.C 282'							
11	Feb 01,2016 13:10	Displace Fluid	Water	2.00	100.0	--	1.50	62.30
12	Feb 01,2016 13:30	Job Complete		--	--	--	--	62.30
13	Feb 01,2016 15:00	Leave Location		--	--	--	--	62.30

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? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
64532
64537