

Laboratory Cement Test Report
DEVON ENERGY CORP. - North Thistle 15 10 State Com 4H
Surface Lead Field Blend 0.01 D177
Service Order Number: 2893427

LAR Name : HNM - 120	Client : DEVON ENERGY CORP.	Location : Hobbs-HNM-2003	Signatures Report created by: Vanessa Patino Design input by: David Restrepo
Date : Jan-17-2019	Well Name : North Thistle 15 10 State Com 4H	Rig : C126	
String : Surface			
Job Type : Primary	MD : 1,410.00 ft	TVD : 1,410.00 ft	
BHST : 91.00 °F	BHCT : 82.00 °F	BHP : 900.00 psi	
Starting Temp : 80.00 °F	Time To Temp : 72:00 hr:mn	Heating Rate : 0.00 °F/min	
Starting Pressure : 200.00 psi	Time To Pressure : 72:00 hr:mn		

Composition

Slurry Density	: 11.50 lb/gal	Yield	: 2.32 ft³/sk	Mix Fluid	: 13.298 gal/sk
Solid Vol. Fraction	: 23.48 %	Slurry Type	: Lead	Mix Water	: 13.218 gal/sk
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
D049	100.00 % BVOB	Blend sack: 75 lb	Cement	176.05 lb/ft³	FB 14854
D047	0.020 gal/sk VBWOB		Anti Foam		D00917J70
D154	2.00 % BWOB		Extender		61250
D020	10.00 % BWOB		Extender		FB14854
D208	0.10 % BWOB		Viscosifier		8J3901W
D042	5.00 lb/sk WBWOB		Extender		FB 14854
D130	0.13 lb/sk WBWOB		Lost Circulation Control Agent		10480
D080	0.050 gal/sk VBWOB		Dispersant		8R7K0002A0
D177	0.010 gal/sk VBWOB		Retarder		2018299AC
Fresh Water	13.218 gal/sk		Base Fluid		Cactus 126

Rheology

S/N: 353				S/N: 353			
Surface (Configuration: R1B1 F1.0)				Downhole (Configuration: R1B1 F1.0)			
Temperature	80 °F			Temperature	82 °F		
(rpm)	Up (deg)	Down (deg)	Average (deg)	(rpm)	Up (deg)	Down (deg)	Average (deg)
300	73	73	73	300	83	83	83
200	64	63	63.5	200	73	73	73
100	54	52	53	100	58	59	58.5
60	48	46	47	60	46	54	50
30	44	43	43.5	30	42	49	45.5
6	35	38	36.5	6	31	42	36.5
3	30	36	33	3	27	42	34.5
10 sec Gel	35 deg - 37.26 lbf/100ft²			10 sec Gel	40 deg - 42.58 lbf/100ft²		
10 min Gel	22 deg - 23.42 lbf/100ft²			10 min Gel	41 deg - 43.64 lbf/100ft²		
Rheo. computed	PV: 37.1 cP, Ty: 37.7 lbf/100ft²			Rheo. computed	PV: 47.4 cP, Ty: 38.73 lbf/100ft²		
Conditioned at 80.00 °F and atmospheric pressure for 30 mins after reaching temperature							

Thickening Time S/N: 753**Set Conditions - Thick (Gelled)**

Consistency	Time	Temp
POD Time	06:08 hr:mn	82 °F
30 Bc	06:08 hr:mn	82 °F
50 Bc	06:08 hr:mn	82 °F
70 Bc	06:08 hr:mn	82 °F

Free Fluid:

(0.0%) 0 / 250mL in 2 hrs
At 82 °F and 0 deg inclination
Conditioned at 82.00 °F for 30 mins after reaching temperature
Sedimentation: None

UCA S/N: 247L

Time	CS	Temp
07:35 hr:mn	50 psi	110 °F
24:00 hr:mn	404 psi	110 °F
29:02 hr:mn	500 psi	110 °F
72:00 hr:mn	932 psi	110 °F

Comments

All slurries prepared and tested in accordance with API RB10B-2 unless otherwise noted

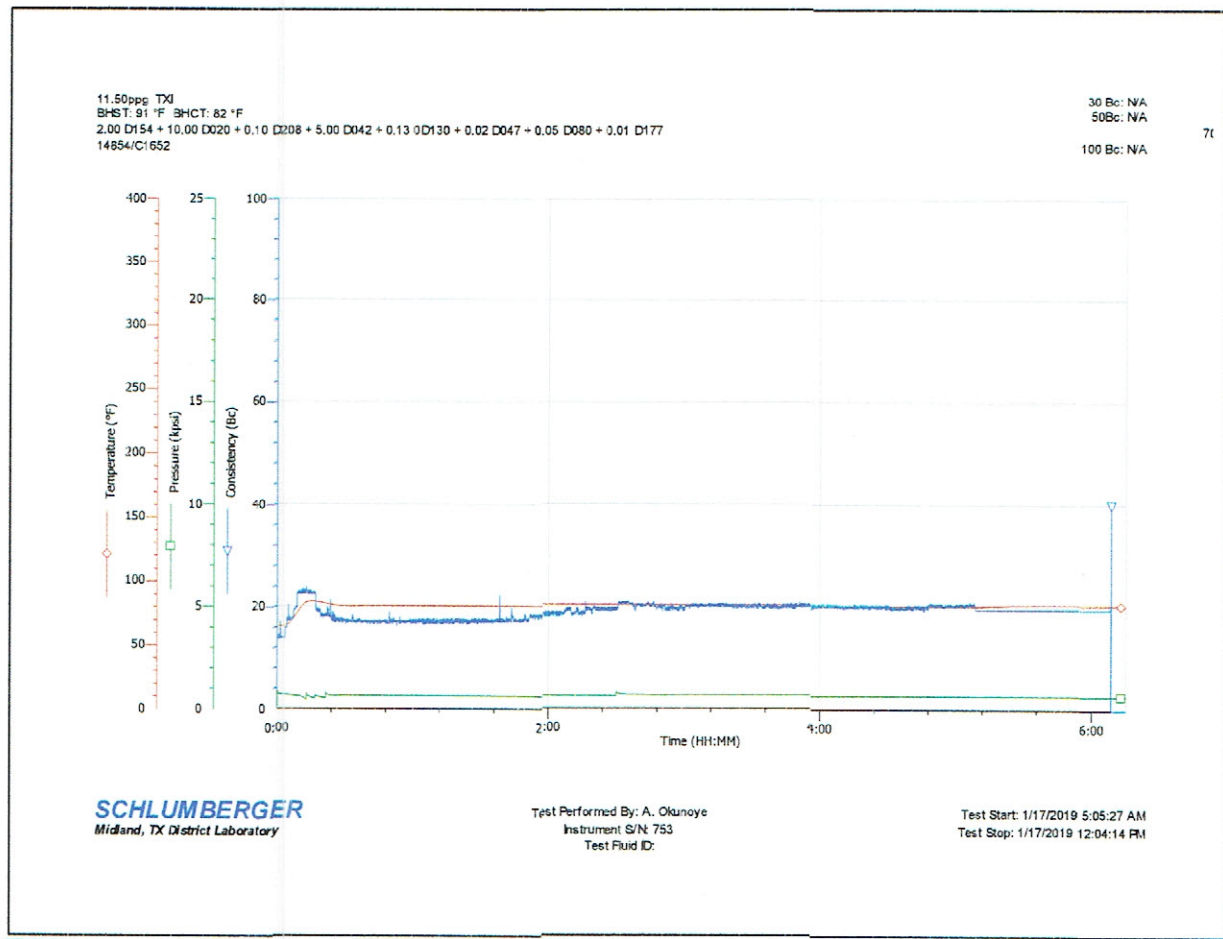
Time to Add Solids : 00:15 mn:sc

Vortex Quality: good/visible

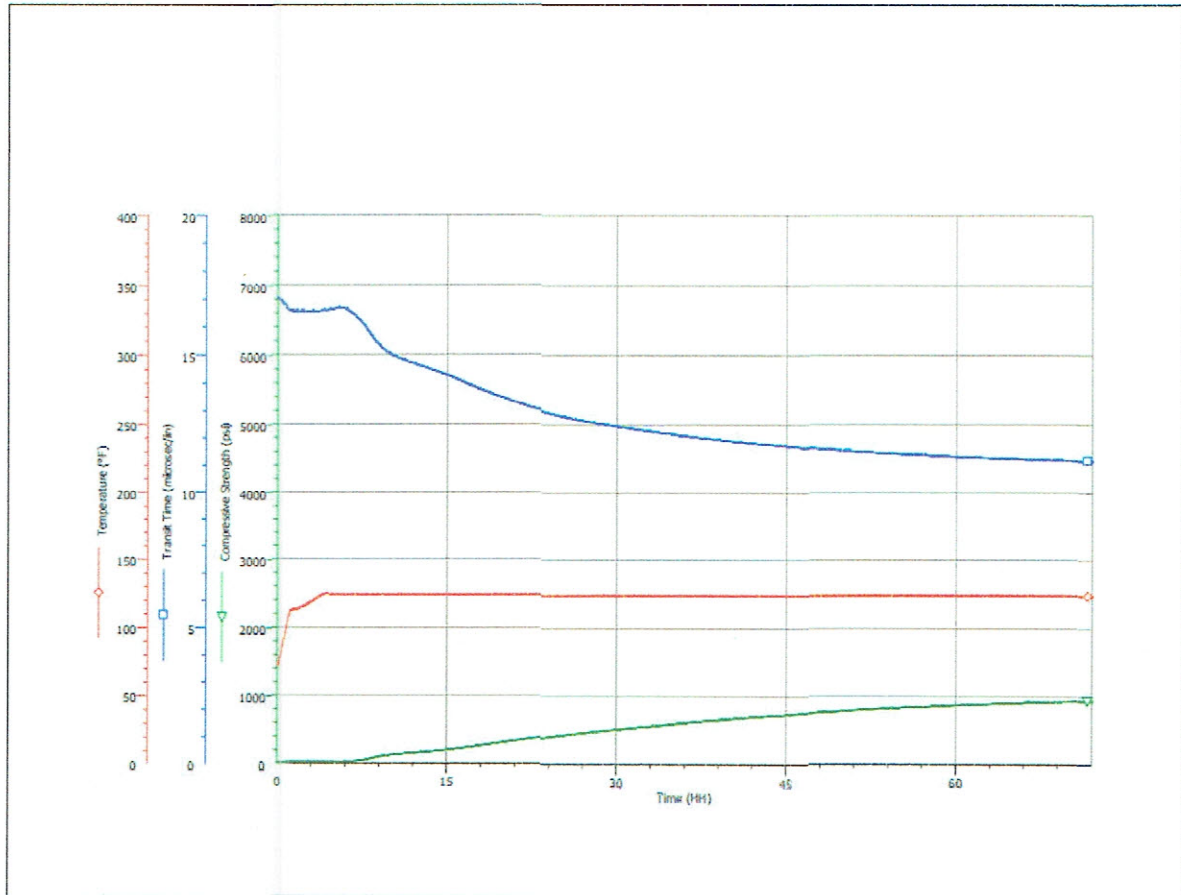
Motor paused for 01:00 hr:mn at 5:08 hr:mn

Pin sheared

TT Graph



UCA Graph



V.
Patino

V. Patino
I have reviewed
this document
2019-01-17 15:
42:14

Laboratory Cement Test Report

HNM120-DEVON-C126-North Thistle 15-10 State Com4H-Sur-FB Tail

Service Order Number: 2893427

LAR Name	: HNM - 120	Client	: DEVON	Location	: Hobbs-HNM-2003	Signatures Report created by: Jaime Saravia Design input by: David Restrepo
Date	: Jan-17-2019	Well Name	: North Thistle 15 10 State Com 4H	Rig	: C126	
String	: Surface					
Job Type	: Primary	MD	: 1,410.00 ft	TVD	: 1,410.00 ft	
BHST	: 91.00 °F	BHCT	: 82.00 °F	BHP	: 900.00 psi	
Starting Temp	: 80.00 °F	Time To Temp	: 72:00 hr:mn	Heating Rate	: 0.00 °F/min	
Starting Pressure	: 200.00 psi	Time To Pressure	: 72:00 hr:mn			

Composition

Slurry Density	: 14.80 lb/gal	Yield	: 1.33 ft³/sk	Mix Fluid	: 6.365 gal/sk
Solid Vol. Fraction	: 35.90 %	Slurry Type	: Tail	Mix Water	: 6.365 gal/sk
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
D903	100.00 % BWOB	Blend sack: 94 lb	Cement	197.28 lb/ft³	FB 7440
Tap Water	6.365 gal/sk		Base Fluid		Tap

Rheology

S/N: 383				S/N: 383			
Surface (Configuration: R1B1 F1.0)				Downhole (Configuration: R1B1 F1.0)			
Temperature	70 °F			Temperature	82 °F		
(rpm)	Up (deg)	Down (deg)	Average (deg)	(rpm)	Up (deg)	Down (deg)	Average (deg)
300	56	56	56	300	58	58	58
200	49	49	49	200	47	47	47
100	42	40	41	100	40	36	38
60	33	31	32	60	32	30	31
30	30	28	29	30	28	28	28
6	18	26	22	6	22	24	23
3	12	14	13	3	14	19	16.5
10 sec Gel	20 deg - 21.29 lbf/100ft²			10 sec Gel	18 deg - 19.16 lbf/100ft²		
10 min Gel	39 deg - 41.51 lbf/100ft²			10 min Gel	22 deg - 23.42 lbf/100ft²		
Rheo. computed	PV: 37.6 cP, Ty: 22.08 lbf/100ft²			Rheo. computed	PV: 37.2 cP, Ty: 22.12 lbf/100ft²		
Conditioned at 82.00 °F and atmospheric pressure for 30 mins after reaching temperature							

Thickening Time S/N: 241

Set Conditions - Thick Gelled

Consistency	Time	Temp
POD Time	02:48 hr:mn	82 °F
30 Bc	03:21 hr:mn	82 °F
50 Bc	03:55 hr:mn	82 °F
70 Bc	04:14 hr:mn	82 °F

Free Fluid

(0.8%) 2 / 250mL in 2 hrs
At 82 °F and 0 deg inclination
Conditioned at 82.00 °F at ATM psi for 30 mins after reaching temperature
Sedimentation: None
Tube Dimensions: 250mL: 35 mm X 245 mm

Mud Balance S/N: 860210

Slurry Density Verified by Pressurized Fluid Balance: 14.80 lb/gal

UCA S/N: 944L

Time	CS	Temp
03:23 hr:mn	50 psi	90 °F
07:26 hr:mn	500 psi	90 °F
24:00 hr:mn	1965 psi	90 °F

Comments

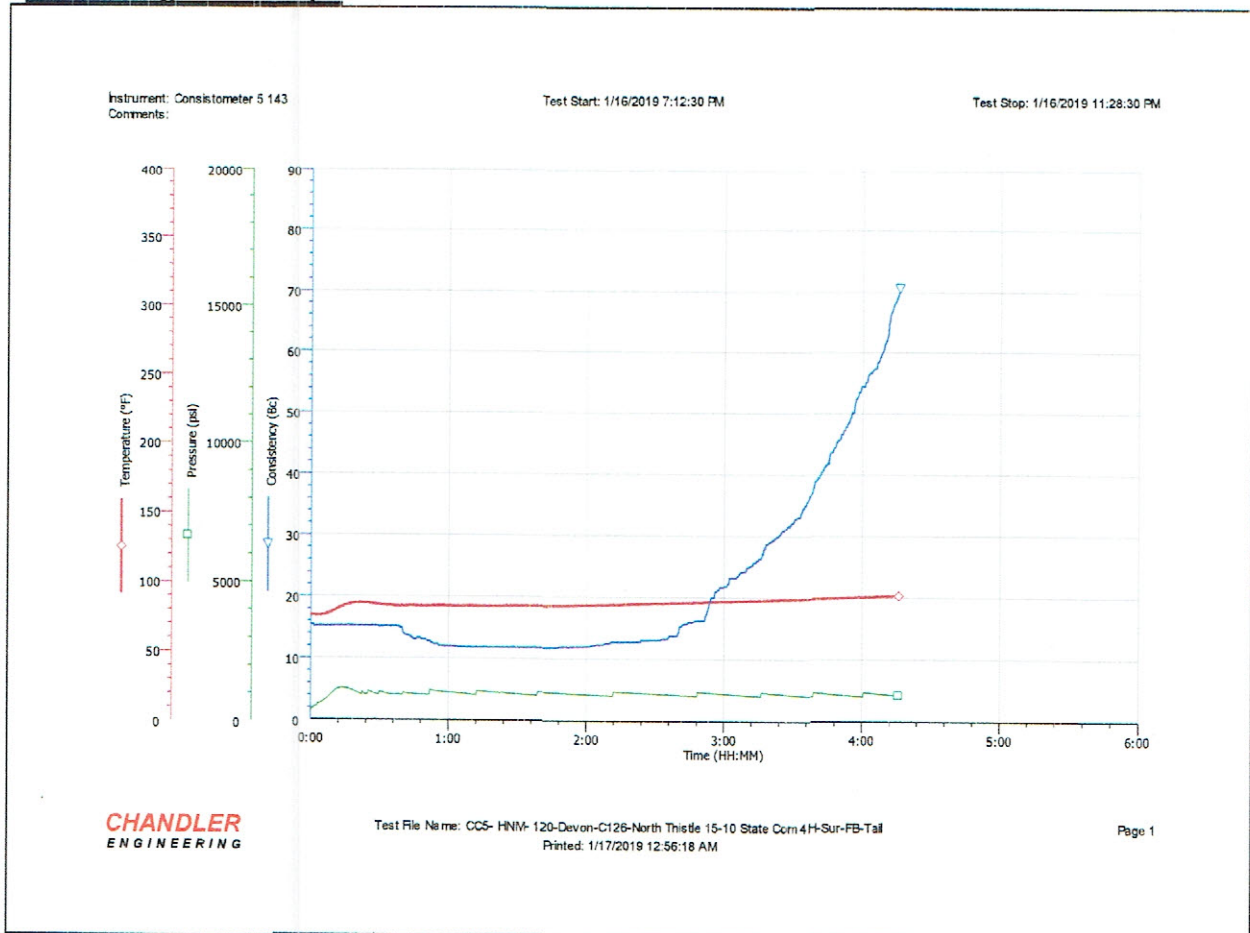
All slurries prepared and tested in accordance with API RB10B-2 unless otherwise noted

Time to Add Solids : 00:15 mn:sc

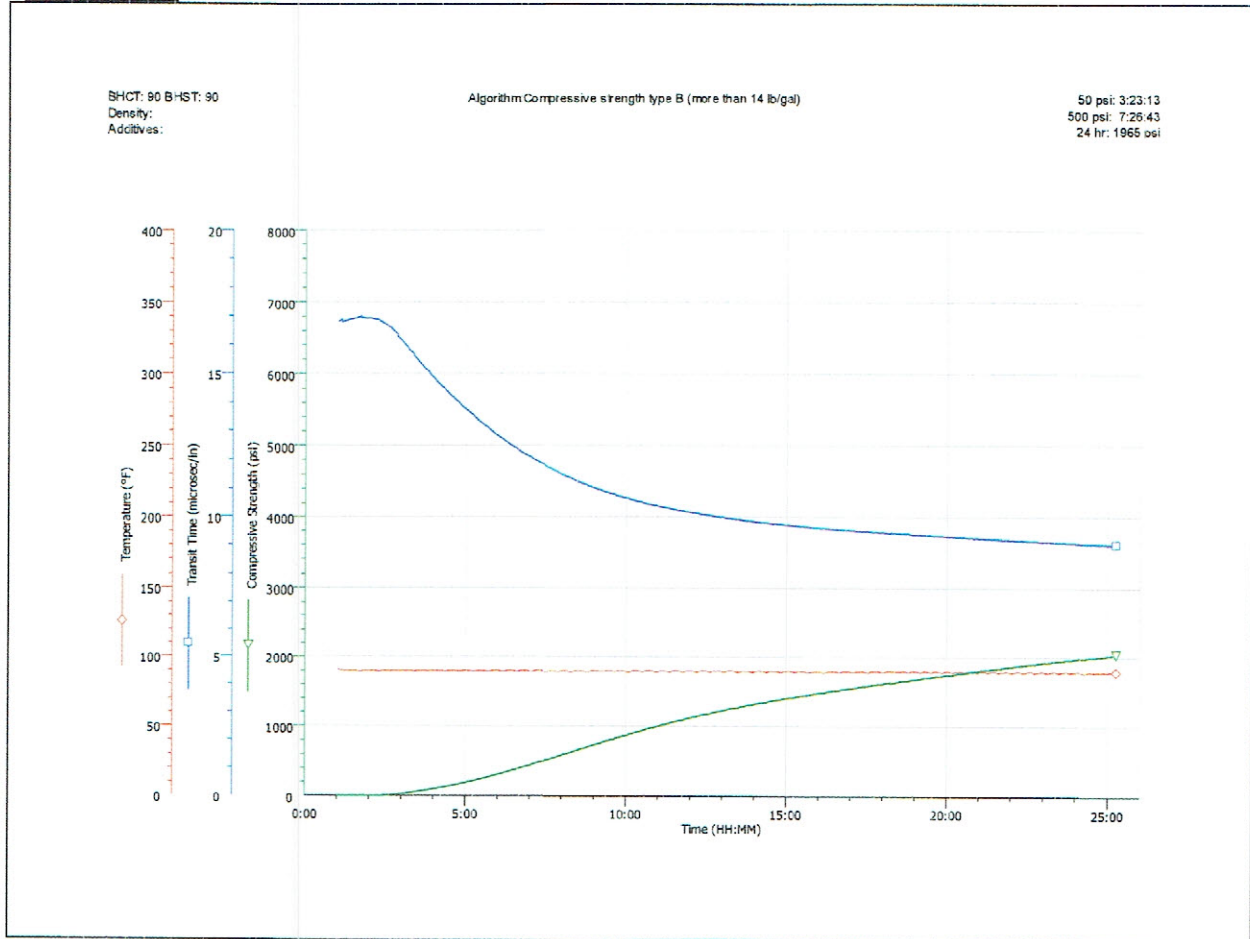
Vortex Quality: Good/visible

Testing Approved By: C. Zaryski, SC

Thickening Time Graph

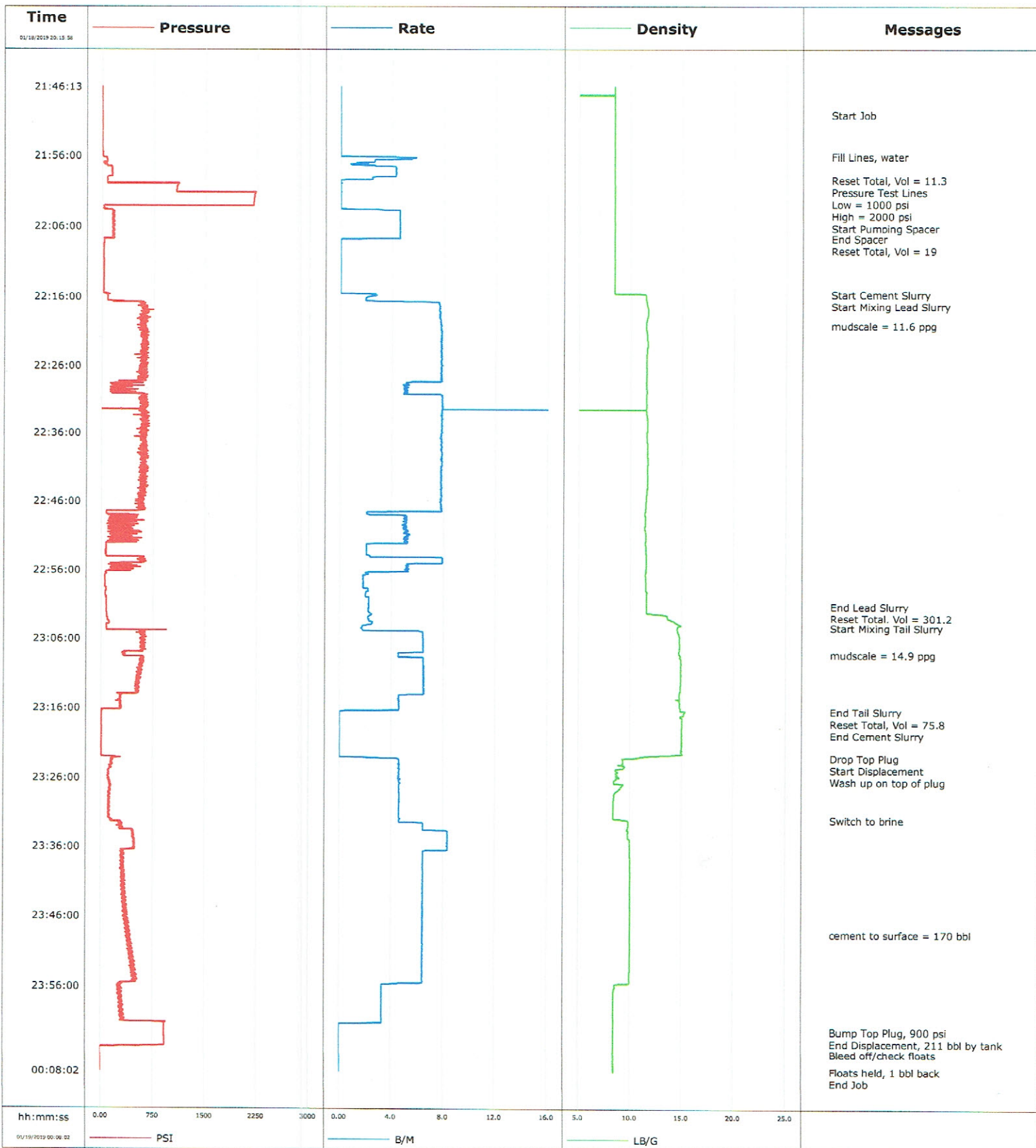


UCA Graph



Well North Thistle 155 10 State Com
Field Wildcat
Engineer Bruce Peters
Country United States

Client Devon Energy Corporation
SIR No. E660-00145
Job Type Surface
Job Date 01-19-2019



Cementing Service Report

				Customer Devon Energy Corporation				Job Number E660-00145							
Well North Thistle 155 10 State Com 4H				Location (legal)				Schlumberger Location Dylan Phelan				Job Start Jan/18/2019			
Field Wildcat		Formation Name/Type Wildcat		Deviation 0 deg		Bit Size 17.5 in		Well MD 1420.0 ft		Well TVD 1420.0 ft					
County Lea		State/Province New Mexico		BHP 900 psi		BHST 91 degF		BHCT 82 degF		Pore Press. Gradient lb/gal					
Well Master 0631803419		API/UWI 30025453950000													
Rig Name Cactus 126		Drilled For Oil & Gas		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade			
						1410.0		13.4		54.5		J55			
						0.0		0.0		0.0					
Offshore Zone		Well Class New		Well Type Development											
Drilling Fluid Type WBM		Max. Density 8.70 lb/gal		Plastic Viscosity 50.000 cP		Tubing/Drill Pipe									
						T/D		Depth, ft		Size, in		Weight, lb/ft			
Service Line Cementing		Job Type Surface				Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots			
						ft		ft				Total Interval ft			
						ft		ft				Diameter in			
						ft		ft							
						Treat Down Casing		Displacement 211.0 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. bbl		Casing Vol. 218.0 bbl		Annular Vol. 175.7 bbl		Openhole Vol. bbl			
Casing/Tubing Secured ☒				1 Hole Vol. Circulated prior to Cement ☒				Casing Tools				Squeeze Job			
Lift Pressure 547 psi				Shoe Type Float				Squeeze Type							
Pipe Rotated ☐				Pipe Reciprocated ☐				Shoe Depth 1410.0 ft				Tool Type			
No. Centralizers				Top Plugs 1				Bottom Plugs				Stage Tool Type			
Cement Head Type Single				Stage Tool Depth ft				Tool Depth ft							
Job Scheduled For Jan/18/2019 12:00				Arrived on Location Jan/18/2019 14:00				Leave Location Jan/19/2019 01:00				Collar Type Float			
												Tail Pipe Depth ft			
												Sqz. Total Vol. bbl			
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		CPF1_TTL_STAGE BBL		Message	
01/18/2019		20:15:58		-0		0.0		8.41		0.0		0.0		Started Acquisition	
01/18/2019		20:19:58		1		0.0		8.43		1.5		1.5			
01/18/2019		20:23:58		67		3.3		8.40		12.0		12.0			
01/18/2019		20:27:58		1		0.0		8.40		0.0		0.0			
01/18/2019		20:31:58		1		0.0		8.41		0.0		0.0			
01/18/2019		20:35:58		1		0.0		8.40		0.0		0.0			
01/18/2019		20:39:58		2		0.0		8.41		0.0		0.0			
01/18/2019		20:43:58		2		0.0		8.41		0.1		0.1			
01/18/2019		20:47:58		2		0.0		8.41		0.1		0.1			
01/18/2019		20:51:58		3		0.0		8.41		0.1		0.1			
01/18/2019		20:55:58		3		0.0		8.41		0.1		0.1			
01/18/2019		20:59:58		3		0.0		8.41		0.1		0.1			
01/18/2019		21:03:58		4		0.0		8.41		0.1		0.1			
01/18/2019		21:07:58		5		0.0		8.41		0.1		0.1			
01/18/2019		21:11:58		5		0.0		8.41		0.1		0.1			
01/18/2019		21:15:58		6		0.0		8.41		0.1		0.1			
01/18/2019		21:19:58		6		0.0		8.41		0.2		0.2			
01/18/2019		21:23:58		7		0.0		8.41		0.2		0.2			
01/18/2019		21:27:58		7		0.0		8.41		0.2		0.2			
01/18/2019		21:31:58		8		0.0		8.41		0.2		0.2			
01/18/2019		21:35:58		8		0.0		8.41		0.2		0.2			

Well			Field		Job Start		Customer		Job Number
North Thistle 155 10 State Com 4H			Wildcat		Jan/18/2019		Devon Energy Corporation		E66O-00145
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_TTL_STAGE BBL	Message		
01/18/2019	21:43:58	9	0.0	8.41	0.2	0.2			
01/18/2019	21:47:58	9	0.0	8.41	0.2	0.2			
01/18/2019	21:50:07	9	0.0	8.41	0.2	0.2	Start Job		
01/18/2019	21:51:58	9	0.0	8.41	0.2	0.2			
01/18/2019	21:55:58	15	0.0	8.41	0.0	0.0			
01/18/2019	21:56:07	13	0.0	8.41	0.0	0.0	Fill Lines, water		
01/18/2019	21:59:27	81	0.5	8.41	11.3	11.3	Reset Total, Vol = 11.3		
01/18/2019	21:59:55	1095	0.1	8.41	11.3	11.3	Pressure Test Lines		
01/18/2019	21:59:58	1105	0.0	8.41	11.3	11.3			
01/18/2019	22:00:15	1085	0.0	8.41	11.3	11.3	Low = 1000 psi		
01/18/2019	22:01:30	2197	0.0	8.41	11.3	11.3	High = 2000 psi		
01/18/2019	22:03:32	26	0.4	8.41	11.4	11.4	Start Pumping Spacer		
01/18/2019	22:03:58	179	4.6	8.41	12.7	12.7			
01/18/2019	22:07:42	168	4.6	8.41	29.8	29.8	End Spacer		
01/18/2019	22:07:58	39	0.0	8.41	30.3	30.3			
01/18/2019	22:08:03	37	0.0	8.41	30.3	30.3	Reset Total, Vol = 19		
01/18/2019	22:11:58	31	0.0	8.41	30.3	30.3			
01/18/2019	22:15:32	33	1.5	9.10	30.4	0.0	Start Cement Slurry		
01/18/2019	22:15:34	79	1.8	10.34	30.4	0.1	Start Mixing Lead Slurry		
01/18/2019	22:15:58	86	2.2	11.42	31.4	1.1			
01/18/2019	22:19:58	611	7.7	11.47	58.1	27.7			
01/18/2019	22:20:03	612	7.7	11.48	58.7	28.4	mudscale = 11.6 ppg		
01/18/2019	22:23:58	571	7.8	11.56	89.2	58.8			
01/18/2019	22:27:58	566	7.8	11.53	120.3	89.9			
01/18/2019	22:31:58	539	7.9	11.55	146.5	116.1			
01/18/2019	22:35:58	570	7.8	11.60	177.8	147.4			
01/18/2019	22:39:58	593	7.8	11.66	209.0	178.6			
01/18/2019	22:43:58	610	7.8	11.60	240.1	209.8			
01/18/2019	22:47:58	114	5.1	11.41	268.4	238.1			
01/18/2019	22:51:58	253	5.1	11.45	288.8	258.4			
01/18/2019	22:55:58	121	5.2	11.51	305.9	275.6			
01/18/2019	22:59:58	51	2.2	11.59	314.6	284.3			
01/18/2019	23:01:03	50	2.2	11.59	317.0	286.7	End Lead Slurry		
01/18/2019	23:01:20	50	2.2	11.59	317.7	287.3	Reset Total, Vol = 301.2		
01/18/2019	23:03:58	54	1.8	14.84	323.7	2.3			
01/18/2019	23:04:12	54	1.7	14.55	324.1	2.7	Start Mixing Tail Slurry		
01/18/2019	23:07:58	293	5.1	14.70	345.4	24.0			
01/18/2019	23:08:03	296	4.5	14.69	345.8	24.4	mudscale = 14.9 ppg		
01/18/2019	23:11:58	465	6.5	14.88	370.0	48.6			
01/18/2019	23:15:58	249	4.6	14.82	392.1	70.8			
01/18/2019	23:16:15	-21	2.5	14.95	393.4	72.1	End Tail Slurry		
01/18/2019	23:16:16	-3	1.3	15.16	393.5	72.1	Reset Total, Vol = 75.8		
01/18/2019	23:16:20	-12	0.2	15.32	393.5	72.2	End Cement Slurry		
01/18/2019	23:19:58	-15	0.0	15.00	393.6	72.2			
01/18/2019	23:22:55	-14	0.0	10.96	393.6	72.2	Drop Top Plug		
01/18/2019	23:22:56	21	0.0	10.95	393.6	0.0	Start Displacement		
01/18/2019	23:22:59	33	1.5	10.65	393.6	0.0	Wash up on top of plug		
01/18/2019	23:23:58	116	4.5	9.07	397.7	4.1			
01/18/2019	23:27:58	92	4.6	8.61	416.2	22.6			
01/18/2019	23:31:54	98	4.7	8.74	434.4	40.8	Switch to brine		
01/18/2019	23:31:58	106	4.7	9.35	434.7	41.1			
01/18/2019	23:35:58	459	8.3	10.02	464.0	70.5			
01/18/2019	23:39:58	310	6.4	10.04	490.7	97.2			
01/18/2019	23:43:58	312	6.4	10.03	516.5	122.9			

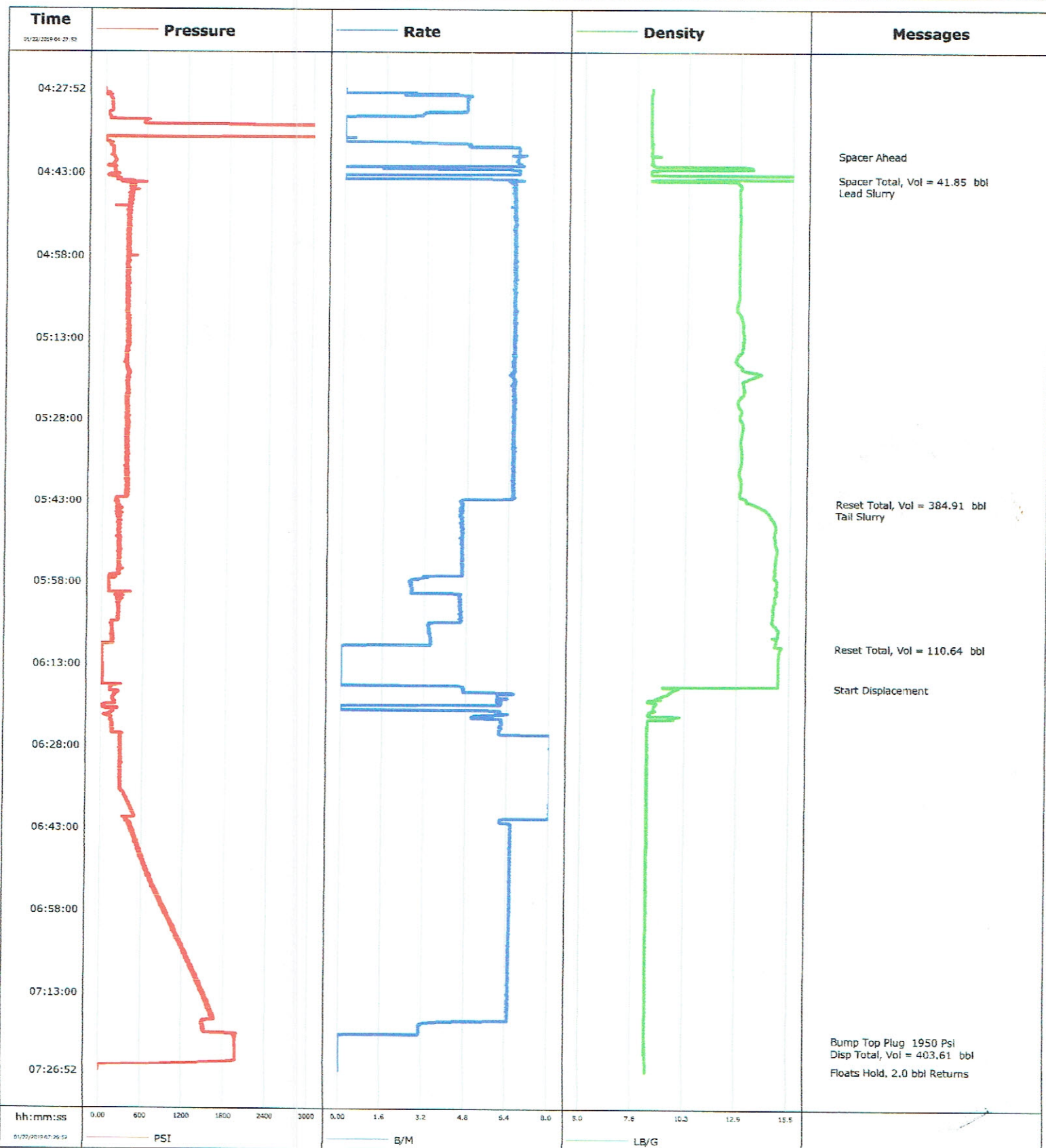
Well			Field		Job Start	Customer		Job Number
North Thistle 155 10 State Com 4H			Wildcat		Jan/18/2019	Devon Energy Corporation		E66O-00145
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_TTL_STAGE BBL	Message	
01/18/2019	23:48:20	366	6.4	10.05	544.6	151.0	cement to surface = 170 bbl	
01/18/2019	23:51:58	400	6.4	10.05	567.9	174.4		
01/18/2019	23:55:58	263	3.3	8.58	592.1	198.5		
01/18/2019	23:59:58	290	3.3	8.46	605.3	211.8		
01/19/2019	00:01:56	898	0.0	8.46	608.7	215.2	Bump Top Plug, 900 psi	
01/19/2019	00:01:57	898	0.0	8.46	608.7	215.2	End Displacement, 211 bbl by tank	
01/19/2019	00:03:58	905	0.0	8.46	608.7	215.2		
01/19/2019	00:04:14	506	0.0	8.46	608.7	215.2	Bleed off/check floats	
01/19/2019	00:07:53	-19	0.0	8.45	608.7	215.2	Floats held, 1 bbl back	
01/19/2019	00:07:56	-19	0.0	8.45	608.7	215.2	End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
4.2			558.8		377.0	0.0	19.0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
2215	-19	215	900			bbl	lb/gal	
Avg. N2 Percent		Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume	
%		370.0 bbl	210.0 bbl	50 degF	☒		170.0 bbl	
Customer or Authorized Representative			Schlumberger Supervisor			Washed Thru Perfs		To
						☐		ft
						Circulation Lost		Job Completed
Forest Hardy			Bruce Peters			☐		☒
						-		-

Well North Thistle 15 10 State Com
Field BRINNINSTO
Engineer Dickson Ntiri
Country United States

Client DEVON ENERGY CORPORATION
SIR No. 2893460
Job Type 9 5/8" Intermediate Casing
Job Date 01-22-2019



Cementing Service Report

				Customer DEVON ENERGY CORPORATION				Job Number 2893460			
Well North Thistle 15 10 State Com 4H			Location (legal) New Mexico			Schlumberger Location			Job Start Jan/22/2019		
Field BRINNINSTO		Formation Name/Type Clean-Sandstone		Deviation deg		Bit Size in		Well MD 7371.0 ft		Well TVD 5371.0 ft	
County Lea		State/Province New Mexico		BHP psi		BHST 123 degF		BHCT 107 degF		Pore Press. Gradient lb/gal	
Well Master 0631803419		API/UWI 30025453950000									
Rig Name CACTUS 126		Drilled For Oil & Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		1410.0		13.4		54.5	
						5371.0		9.6		40.0	
										P110	
										P110	
Drilling Fluid Type Other		Max. Density 10.60 lb/gal		Plastic Viscosity 1.000 cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8" Intermediate Casing									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 403.5 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl	
										Openhole Vol. bbl	
Casing/Tubing Secured ☒		1 Hole Vol. Circulated prior to Cement ☒		Casing Tools				Squeeze Job			
Lift Pressure 1950 psi				Shoe Type Float				Squeeze Type			
Pipe Rotated ☐		Pipe Reciprocated ☐		Shoe Depth 5371.0 ft				Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in			
Job Scheduled For Jan/22/2019		Arrived on Location Jan/22/2019		Leave Location Jan/22/2019		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 5321.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BSL	Message					
01/22/2019	04:27:52	-1	0.0	8.38	0.0						
01/22/2019	04:28:22	-2	0.0	8.38	0.0						
01/22/2019	04:28:52	62	3.2	8.36	0.7						
01/22/2019	04:29:22	75	4.8	8.35	2.6						
01/22/2019	04:29:52	98	4.7	8.36	5.0						
01/22/2019	04:30:22	104	4.7	8.36	7.3						
01/22/2019	04:30:52	104	4.7	8.36	9.7						
01/22/2019	04:31:22	113	4.7	8.36	12.0						
01/22/2019	04:31:52	114	4.7	8.35	14.3						
01/22/2019	04:32:22	62	3.1	8.35	16.3						
01/22/2019	04:32:52	70	0.5	8.35	17.7						
01/22/2019	04:33:22	70	0.0	8.35	17.7						
01/22/2019	04:33:52	578	0.0	8.36	17.7						
01/22/2019	04:34:22	2120	0.0	8.36	17.7						
01/22/2019	04:34:52	4510	0.0	8.36	17.7						
01/22/2019	04:35:22	4464	0.0	8.36	17.7						
01/22/2019	04:35:52	4411	0.0	8.36	17.7						
01/22/2019	04:36:22	4358	0.0	8.36	17.7						
01/22/2019	04:36:52	5	0.0	8.36	17.7						
01/22/2019	04:37:22	13	0.0	8.36	17.7						
01/22/2019	04:37:52	88	4.7	8.37	18.7						

Well			Field		Job Start		Customer		Job Number	
North Thistle 15 10 State Com 4H			BRINNINSTO		Jan/22/2019		DEVON ENERGY CORPORATION		2893460	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message			
01/22/2019	04:38:52		117	6.7	8.37	24.3				
01/22/2019	04:39:22		113	6.7	8.36	27.6				
01/22/2019	04:39:43		117	6.7	8.36	29.9	Spacer Ahead			
01/22/2019	04:39:52		116	6.7	8.36	30.9				
01/22/2019	04:40:22		129	6.6	8.38	34.3				
01/22/2019	04:40:52		149	6.6	8.40	37.6				
01/22/2019	04:41:22		134	6.7	8.36	40.9				
01/22/2019	04:41:52		72	6.1	8.95	44.2				
01/22/2019	04:42:22		150	1.5	13.44	45.2				
01/22/2019	04:42:52		142	6.7	8.36	48.1				
01/22/2019	04:43:22		147	6.6	8.37	51.4				
01/22/2019	04:43:52		94	0.0	25.00	51.8				
01/22/2019	04:44:06		193	0.0	25.00	51.8	Spacer Total, Vol = 41.85 bbl			
01/22/2019	04:44:22		219	6.6	8.38	53.0				
01/22/2019	04:44:44		430	6.5	12.75	55.4	Lead Slurry			
01/22/2019	04:44:52		596	6.4	12.75	56.2				
01/22/2019	04:45:22		394	6.5	12.90	59.5				
01/22/2019	04:45:52		393	6.5	12.87	62.8				
01/22/2019	04:46:22		416	6.5	12.83	66.0				
01/22/2019	04:46:52		411	6.6	12.83	69.3				
01/22/2019	04:47:22		399	6.6	12.83	72.6				
01/22/2019	04:47:52		369	6.5	12.85	75.8				
01/22/2019	04:48:22		362	6.5	12.84	79.1				
01/22/2019	04:48:52		376	6.5	12.86	82.4				
01/22/2019	04:49:22		380	6.6	12.85	85.7				
01/22/2019	04:49:52		360	6.6	12.84	88.9				
01/22/2019	04:50:22		331	6.6	12.85	92.2				
01/22/2019	04:50:52		355	6.5	12.87	95.5				
01/22/2019	04:51:22		350	6.6	12.87	98.8				
01/22/2019	04:51:52		371	6.6	12.86	102.0				
01/22/2019	04:52:22		350	6.6	12.86	105.3				
01/22/2019	04:52:52		340	6.5	12.85	108.6				
01/22/2019	04:53:22		348	6.5	12.85	111.9				
01/22/2019	04:53:52		354	6.5	12.84	115.2				
01/22/2019	04:54:22		335	6.6	12.84	118.4				
01/22/2019	04:54:52		355	6.6	12.83	121.7				
01/22/2019	04:55:22		342	6.5	12.83	125.0				
01/22/2019	04:55:52		347	6.6	12.83	128.3				
01/22/2019	04:56:22		340	6.6	12.82	131.6				
01/22/2019	04:56:52		350	6.5	12.82	134.8				
01/22/2019	04:57:22		335	6.6	12.81	138.1				
01/22/2019	04:57:52		345	6.6	12.82	141.4				
01/22/2019	04:58:22		350	6.5	12.81	144.7				
01/22/2019	04:58:52		333	6.5	12.82	147.9				
01/22/2019	04:59:22		328	6.6	12.83	151.2				
01/22/2019	04:59:52		350	6.6	12.84	154.5				
01/22/2019	05:00:22		354	6.6	12.84	157.8				
01/22/2019	05:00:52		349	6.6	12.83	161.1				
01/22/2019	05:01:22		352	6.6	12.83	164.4				
01/22/2019	05:01:52		333	6.6	12.84	167.6				
01/22/2019	05:02:22		326	6.6	12.84	170.9				
01/22/2019	05:02:52		338	6.6	12.84	174.2				
01/22/2019	05:03:22		317	6.6	12.83	177.5				
01/22/2019	05:03:52		320	6.6	12.82	180.8				

Well			Field	Job Start	Customer	Job Number
North Thistle 15 10 State Com 4H			BRINNINSTO	Jan/22/2019	DEVON ENERGY CORPORATION	2893460
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message
01/22/2019	05:04:52		343	6.5	12.84	187.3
01/22/2019	05:05:22		347	6.6	12.84	190.6
01/22/2019	05:05:52		352	6.5	12.81	193.9
01/22/2019	05:06:22		348	6.5	12.77	197.2
01/22/2019	05:06:52		356	6.5	12.74	200.5
01/22/2019	05:07:22		357	6.6	12.73	203.7
01/22/2019	05:07:52		331	6.6	12.75	207.0
01/22/2019	05:08:22		344	6.6	12.87	210.3
01/22/2019	05:08:52		335	6.6	12.94	213.6
01/22/2019	05:09:22		341	6.5	12.98	216.9
01/22/2019	05:09:52		347	6.5	13.02	220.2
01/22/2019	05:10:22		341	6.6	13.04	223.4
01/22/2019	05:10:52		337	6.6	13.02	226.7
01/22/2019	05:11:22		360	6.6	13.03	230.0
01/22/2019	05:11:52		359	6.6	13.05	233.3
01/22/2019	05:12:22		356	6.6	13.07	236.6
01/22/2019	05:12:52		358	6.6	13.08	239.8
01/22/2019	05:13:22		362	6.6	13.06	243.1
01/22/2019	05:13:52		347	6.6	13.05	246.4
01/22/2019	05:14:22		365	6.5	13.03	249.7
01/22/2019	05:14:52		352	6.6	13.00	253.0
01/22/2019	05:15:22		349	6.6	13.00	256.2
01/22/2019	05:15:52		342	6.6	12.82	259.5
01/22/2019	05:16:22		333	6.5	12.74	262.8
01/22/2019	05:16:52		345	6.6	12.69	266.1
01/22/2019	05:17:22		338	6.5	12.76	269.4
01/22/2019	05:17:52		344	6.5	12.93	272.6
01/22/2019	05:18:22		339	6.5	12.99	275.9
01/22/2019	05:18:52		348	6.6	13.31	279.2
01/22/2019	05:19:22		369	6.5	13.94	282.4
01/22/2019	05:19:52		372	6.5	13.60	285.7
01/22/2019	05:20:22		369	6.6	13.27	288.9
01/22/2019	05:20:52		364	6.5	13.03	292.2
01/22/2019	05:21:22		355	6.5	13.07	295.5
01/22/2019	05:21:52		354	6.6	13.08	298.8
01/22/2019	05:22:22		340	6.5	13.12	302.0
01/22/2019	05:22:52		340	6.5	13.10	305.3
01/22/2019	05:23:22		373	6.5	13.02	308.6
01/22/2019	05:23:52		351	6.6	12.87	311.9
01/22/2019	05:24:22		343	6.6	12.81	315.1
01/22/2019	05:24:52		343	6.6	12.80	318.4
01/22/2019	05:25:22		350	6.5	12.85	321.7
01/22/2019	05:25:52		343	6.6	12.94	325.0
01/22/2019	05:26:22		360	6.5	12.97	328.3
01/22/2019	05:26:52		346	6.5	12.95	331.5
01/22/2019	05:27:22		333	6.5	12.90	334.8
01/22/2019	05:27:52		346	6.5	12.93	338.1
01/22/2019	05:28:22		349	6.5	13.02	341.4
01/22/2019	05:28:52		344	6.6	13.06	344.6
01/22/2019	05:29:22		360	6.5	13.06	347.9
01/22/2019	05:29:52		348	6.5	13.05	351.2
01/22/2019	05:30:22		350	6.5	13.03	354.5
01/22/2019	05:30:52		357	6.6	13.00	357.7
01/22/2019	05:31:22		338	6.5	12.98	361.0

Well			Field		Job Start		Customer		Job Number	
North Thistle 15 10 State Com 4H			BRINNINSTO		Jan/22/2019		DEVON ENERGY CORPORATION		2893460	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message			
01/22/2019	05:32:22		370	6.5	12.96	367.6				
01/22/2019	05:32:52		349	6.5	12.97	370.8				
01/22/2019	05:33:22		342	6.5	12.99	374.1				
01/22/2019	05:33:52		336	6.6	13.01	377.4				
01/22/2019	05:34:22		354	6.5	13.02	380.7				
01/22/2019	05:34:52		332	6.5	13.02	383.9				
01/22/2019	05:35:22		337	6.6	13.01	387.2				
01/22/2019	05:35:52		330	6.5	12.99	390.5				
01/22/2019	05:36:22		355	6.5	12.97	393.8				
01/22/2019	05:36:52		354	6.6	12.93	397.0				
01/22/2019	05:37:22		331	6.6	12.90	400.3				
01/22/2019	05:37:52		357	6.5	12.89	403.6				
01/22/2019	05:38:22		345	6.5	12.92	406.9				
01/22/2019	05:38:52		349	6.5	12.96	410.1				
01/22/2019	05:39:22		346	6.5	12.99	413.4				
01/22/2019	05:39:52		340	6.5	12.98	416.7				
01/22/2019	05:40:22		340	6.5	12.98	419.9				
01/22/2019	05:40:52		336	6.5	12.97	423.2				
01/22/2019	05:41:22		349	6.6	12.92	426.5				
01/22/2019	05:41:52		348	6.5	12.93	429.8				
01/22/2019	05:42:22		327	6.6	13.15	433.0				
01/22/2019	05:42:52		193	4.6	13.27	435.9				
01/22/2019	05:43:02		203	4.5	13.27	436.7	Reset Total, Vol = 384.91 bbl			
01/22/2019	05:43:22		201	4.6	13.59	438.2				
01/22/2019	05:43:52		212	4.6	13.89	440.5				
01/22/2019	05:44:11		233	4.6	14.03	442.0	Tail Slurry			
01/22/2019	05:44:22		215	4.6	14.16	442.8				
01/22/2019	05:44:52		248	4.6	14.32	445.1				
01/22/2019	05:45:22		230	4.6	14.44	447.4				
01/22/2019	05:45:52		204	4.5	14.51	449.6				
01/22/2019	05:46:22		241	4.6	14.62	451.9				
01/22/2019	05:46:52		240	4.6	14.70	454.2				
01/22/2019	05:47:22		240	4.6	14.74	456.5				
01/22/2019	05:47:52		242	4.6	14.76	458.8				
01/22/2019	05:48:22		261	4.6	14.75	461.1				
01/22/2019	05:48:52		249	4.6	14.71	463.4				
01/22/2019	05:49:22		229	4.6	14.69	465.7				
01/22/2019	05:49:52		231	4.6	14.73	468.0				
01/22/2019	05:50:22		238	4.6	14.74	470.3				
01/22/2019	05:50:52		259	4.6	14.76	472.6				
01/22/2019	05:51:22		261	4.6	14.80	474.9				
01/22/2019	05:51:52		259	4.6	14.83	477.2				
01/22/2019	05:52:22		272	4.6	14.82	479.5				
01/22/2019	05:52:52		244	4.6	14.80	481.8				
01/22/2019	05:53:22		244	4.6	14.78	484.1				
01/22/2019	05:53:52		256	4.6	14.76	486.4				
01/22/2019	05:54:22		245	4.6	14.74	488.7				
01/22/2019	05:54:52		230	4.6	14.73	491.0				
01/22/2019	05:55:22		249	4.6	14.73	493.3				
01/22/2019	05:55:52		228	4.6	14.73	495.6				
01/22/2019	05:56:22		238	4.6	14.72	497.9				
01/22/2019	05:56:52		111	3.4	14.65	500.2				
01/22/2019	05:57:22		102	3.0	14.78	501.8				
01/22/2019	05:57:52		98	2.6	14.82	503.1				

Well			Field		Job Start		Customer		Job Number	
North Thistle 15 10 State Com 4H			BRINNINSTO		Jan/22/2019		DEVON ENERGY CORPORATION		2893460	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message			
01/22/2019	05:58:52		100	2.7	14.75	505.8				
01/22/2019	05:59:22		101	2.7	14.82	507.1				
01/22/2019	05:59:52		101	2.7	14.79	508.5				
01/22/2019	06:00:22		236	4.6	14.74	510.3				
01/22/2019	06:00:52		247	4.5	14.74	512.5				
01/22/2019	06:01:22		290	4.6	14.75	514.8				
01/22/2019	06:01:52		250	4.6	14.69	517.1				
01/22/2019	06:02:22		226	4.5	14.66	519.3				
01/22/2019	06:02:52		242	4.6	14.64	521.6				
01/22/2019	06:03:22		254	4.6	14.65	523.9				
01/22/2019	06:03:52		249	4.6	14.65	526.2				
01/22/2019	06:04:22		249	4.6	14.64	528.5				
01/22/2019	06:04:52		229	4.5	14.61	530.8				
01/22/2019	06:05:22		166	4.6	14.64	533.0				
01/22/2019	06:05:52		148	3.3	14.79	534.8				
01/22/2019	06:06:22		152	3.4	14.87	536.4				
01/22/2019	06:06:52		159	3.4	14.93	538.1				
01/22/2019	06:07:22		160	3.4	14.89	539.8				
01/22/2019	06:07:52		153	3.4	14.88	541.5				
01/22/2019	06:08:22		153	3.4	14.82	543.2				
01/22/2019	06:08:52		169	3.4	14.80	544.9				
01/22/2019	06:09:22		145	3.4	14.76	546.6				
01/22/2019	06:09:41		9	0.1	15.12	547.4	Reset Total, Vol = 110.64 bbl			
01/22/2019	06:09:52		10	0.0	15.07	547.4				
01/22/2019	06:10:22		10	0.0	14.99	547.4				
01/22/2019	06:10:52		11	0.0	14.96	547.4				
01/22/2019	06:11:22		11	0.0	14.95	547.4				
01/22/2019	06:11:52		11	0.0	14.94	547.4				
01/22/2019	06:12:22		11	0.0	14.94	547.4				
01/22/2019	06:12:52		11	0.0	14.94	547.4				
01/22/2019	06:13:22		18	0.0	14.93	547.4				
01/22/2019	06:13:52		19	0.0	14.92	547.4				
01/22/2019	06:14:22		19	0.0	14.93	547.4				
01/22/2019	06:14:52		18	0.0	14.93	547.4				
01/22/2019	06:15:22		17	0.0	14.93	547.4				
01/22/2019	06:15:52		17	0.0	14.93	547.4				
01/22/2019	06:16:22		17	0.0	14.93	547.4				
01/22/2019	06:16:52		72	0.0	14.94	547.4				
01/22/2019	06:17:00		260	4.3	9.33	547.7	Start Displacement			
01/22/2019	06:17:22		154	4.7	9.83	549.4				
01/22/2019	06:17:52		138	4.7	9.55	551.7				
01/22/2019	06:18:22		246	6.6	9.34	554.4				
01/22/2019	06:18:52		180	6.0	8.99	557.5				
01/22/2019	06:19:22		167	6.0	8.55	560.5				
01/22/2019	06:19:52		189	6.0	8.79	563.5				
01/22/2019	06:20:22		195	6.1	8.74	566.6				
01/22/2019	06:20:52		15	0.0	8.67	567.6				
01/22/2019	06:21:22		152	4.8	8.78	567.7				
01/22/2019	06:21:52		180	6.1	8.44	570.7				
01/22/2019	06:22:22		87	5.5	9.56	573.7				
01/22/2019	06:22:52		141	5.0	9.68	576.3				
01/22/2019	06:23:22		149	6.2	8.37	579.3				
01/22/2019	06:23:52		156	6.2	8.37	582.4				
01/22/2019	06:24:22		159	6.1	8.37	585.5				

Well			Field		Job Start		Customer		Job Number	
North Thistle 15 10 State Com 4H			BRINNINSTO		Jan/22/2019		DEVON ENERGY CORPORATION		2893460	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message			
01/22/2019	06:25:22		155	6.1	8.36	591.6				
01/22/2019	06:25:52		282	7.1	8.36	594.6				
01/22/2019	06:26:22		280	8.1	8.36	598.6				
01/22/2019	06:26:52		278	8.1	8.36	602.6				
01/22/2019	06:27:22		282	8.1	8.37	606.7				
01/22/2019	06:27:52		292	8.1	8.36	610.7				
01/22/2019	06:28:22		282	8.1	8.37	614.7				
01/22/2019	06:28:52		278	8.1	8.36	618.8				
01/22/2019	06:29:22		276	8.1	8.37	622.8				
01/22/2019	06:29:52		276	8.1	8.37	626.8				
01/22/2019	06:30:22		278	8.1	8.37	630.8				
01/22/2019	06:30:52		283	8.1	8.37	634.9				
01/22/2019	06:31:22		287	8.0	8.36	638.9				
01/22/2019	06:31:52		289	8.1	8.37	642.9				
01/22/2019	06:32:22		298	8.1	8.37	647.0				
01/22/2019	06:32:52		286	8.0	8.37	651.0				
01/22/2019	06:33:22		282	8.1	8.37	655.0				
01/22/2019	06:33:52		284	8.1	8.37	659.0				
01/22/2019	06:34:22		280	8.1	8.37	663.1				
01/22/2019	06:34:52		287	8.1	8.37	667.1				
01/22/2019	06:35:22		281	8.1	8.37	671.1				
01/22/2019	06:35:52		286	8.1	8.37	675.2				
01/22/2019	06:36:22		301	8.0	8.37	679.2				
01/22/2019	06:36:52		349	8.0	8.37	683.2				
01/22/2019	06:37:22		354	8.1	8.37	687.2				
01/22/2019	06:37:52		383	8.1	8.37	691.3				
01/22/2019	06:38:22		397	8.1	8.37	695.3				
01/22/2019	06:38:52		403	8.0	8.37	699.3				
01/22/2019	06:39:22		441	8.0	8.37	703.3				
01/22/2019	06:39:52		453	8.0	8.37	707.3				
01/22/2019	06:40:22		469	8.0	8.37	711.4				
01/22/2019	06:40:52		489	8.0	8.37	715.4				
01/22/2019	06:41:22		383	6.1	8.37	718.9				
01/22/2019	06:41:52		377	6.1	8.37	722.0				
01/22/2019	06:42:22		406	6.5	8.37	725.2				
01/22/2019	06:42:52		454	6.5	8.37	728.5				
01/22/2019	06:43:22		473	6.5	8.37	731.7				
01/22/2019	06:43:52		449	6.5	8.37	735.0				
01/22/2019	06:44:22		467	6.5	8.37	738.3				
01/22/2019	06:44:52		491	6.5	8.37	741.5				
01/22/2019	06:45:22		519	6.5	8.37	744.8				
01/22/2019	06:45:52		510	6.5	8.37	748.1				
01/22/2019	06:46:22		534	6.5	8.36	751.3				
01/22/2019	06:46:52		556	6.5	8.37	754.6				
01/22/2019	06:47:22		553	6.5	8.37	757.9				
01/22/2019	06:47:52		568	6.5	8.37	761.1				
01/22/2019	06:48:22		617	6.5	8.37	764.4				
01/22/2019	06:48:52		625	6.5	8.37	767.7				
01/22/2019	06:49:22		610	6.5	8.37	770.9				
01/22/2019	06:49:52		637	6.5	8.37	774.2				
01/22/2019	06:50:22		646	6.5	8.37	777.4				
01/22/2019	06:50:52		688	6.5	8.37	780.7				
01/22/2019	06:51:22		706	6.5	8.36	784.0				
01/22/2019	06:51:52		699	6.5	8.37	787.3				

Well			Field		Job Start		Customer	Job Number
North Thistle 15 10 State Com 4H			BRINNINSTO		Jan/22/2019		DEVON ENERGY CORPORATION	2893460
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BSL	Message	
01/22/2019	06:52:52		754	6.5	8.37	793.8		
01/22/2019	06:53:22		742	6.5	8.37	797.1		
01/22/2019	06:53:52		758	6.5	8.36	800.3		
01/22/2019	06:54:22		810	6.5	8.37	803.6		
01/22/2019	06:54:52		832	6.5	8.36	806.8		
01/22/2019	06:55:22		815	6.5	8.36	810.1		
01/22/2019	06:55:52		833	6.5	8.36	813.4		
01/22/2019	06:56:22		869	6.5	8.36	816.6		
01/22/2019	06:56:52		880	6.5	8.37	819.9		
01/22/2019	06:57:22		876	6.5	8.37	823.1		
01/22/2019	06:57:52		934	6.5	8.37	826.4		
01/22/2019	06:58:22		964	6.5	8.36	829.7		
01/22/2019	06:58:52		972	6.5	8.36	832.9		
01/22/2019	06:59:22		974	6.5	8.36	836.2		
01/22/2019	06:59:52		1021	6.5	8.36	839.4		
01/22/2019	07:00:22		1010	6.5	8.36	842.7		
01/22/2019	07:00:52		1054	6.5	8.36	846.0		
01/22/2019	07:01:22		1058	6.5	8.37	849.2		
01/22/2019	07:01:52		1084	6.5	8.36	852.5		
01/22/2019	07:02:22		1110	6.5	8.36	855.7		
01/22/2019	07:02:52		1142	6.5	8.36	859.0		
01/22/2019	07:03:22		1128	6.5	8.37	862.2		
01/22/2019	07:03:52		1148	6.5	8.36	865.5		
01/22/2019	07:04:22		1186	6.5	8.36	868.7		
01/22/2019	07:04:52		1182	6.5	8.36	872.0		
01/22/2019	07:05:22		1241	6.5	8.36	875.2		
01/22/2019	07:05:52		1256	6.5	8.36	878.5		
01/22/2019	07:06:22		1253	6.5	8.36	881.7		
01/22/2019	07:06:52		1268	6.5	8.36	885.0		
01/22/2019	07:07:22		1307	6.5	8.36	888.2		
01/22/2019	07:07:52		1297	6.5	8.36	891.5		
01/22/2019	07:08:22		1315	6.5	8.36	894.7		
01/22/2019	07:08:52		1352	6.5	8.36	898.0		
01/22/2019	07:09:22		1346	6.5	8.36	901.2		
01/22/2019	07:09:52		1406	6.5	8.36	904.5		
01/22/2019	07:10:22		1408	6.5	8.36	907.7		
01/22/2019	07:10:52		1407	6.5	8.36	911.0		
01/22/2019	07:11:22		1458	6.5	8.36	914.2		
01/22/2019	07:11:52		1464	6.5	8.36	917.4		
01/22/2019	07:12:22		1470	6.5	8.36	920.7		
01/22/2019	07:12:52		1506	6.5	8.36	923.9		
01/22/2019	07:13:22		1520	6.5	8.36	927.2		
01/22/2019	07:13:52		1508	6.5	8.36	930.4		
01/22/2019	07:14:22		1541	6.5	8.36	933.7		
01/22/2019	07:14:52		1548	6.5	8.36	936.9		
01/22/2019	07:15:22		1556	6.5	8.36	940.1		
01/22/2019	07:15:52		1598	6.5	8.36	943.4		
01/22/2019	07:16:22		1594	6.5	8.36	946.6		
01/22/2019	07:16:52		1611	6.5	8.36	949.8		
01/22/2019	07:17:22		1657	6.5	8.36	953.1		
01/22/2019	07:17:52		1542	4.3	8.36	956.2		
01/22/2019	07:18:22		1498	3.1	8.36	957.9		
01/22/2019	07:18:52		1506	3.1	8.36	959.5		
01/22/2019	07:19:22		1512	3.1	8.36	961.0		

Well North Thistle 15 10 State Com 4H			Field BRINNINSTO		Job Start Jan/22/2019		Customer DEVON ENERGY CORPORATION		Job Number 2893460	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	CPF1_TTL_VOLUME BBL	Message			
01/22/2019	07:20:22		1965	0.0	8.36	963.4				
01/22/2019	07:20:36		1975	0.0	8.36	963.4	Bump Top Plug 1950 Psi			
01/22/2019	07:20:44		1959	0.0	8.36	963.4	Disp Total, Vol = 403.61 bbl			
01/22/2019	07:20:52		1969	0.0	8.36	963.4				
01/22/2019	07:21:22		1968	0.0	8.36	963.4				
01/22/2019	07:21:52		1966	0.0	8.36	963.4				
01/22/2019	07:22:22		1967	0.0	8.37	963.4				
01/22/2019	07:22:52		1968	0.0	8.37	963.4				
01/22/2019	07:23:22		1969	0.0	8.37	963.4				
01/22/2019	07:23:52		1970	0.0	8.37	963.4				
01/22/2019	07:24:22		1971	0.0	8.37	963.4				
01/22/2019	07:24:52		1965	0.0	8.37	963.4				
01/22/2019	07:25:22		1242	0.0	8.37	963.4				
01/22/2019	07:25:52		34	0.0	8.37	963.4				
01/22/2019	07:26:22		-3	0.0	8.37	963.4				
01/22/2019	07:26:24		-3	0.0	8.37	963.4	Floats Hold. 2.0 bbl Returns			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.1	N2	Mud	Maximum Rate 8.3		Total Slurry 494.0	Mud 0.0	Spacer 40.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4606	Final -3	Average 537	Bump Plug to 1500	Breakdown	Type FreshWater	Volume 480.0 bbl	Density 8.34 lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 480.0 bbl	Displacement 403.5 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? ☒	Washed Thru Perfs ☐	Volume 100.0 bbl	To ft	
Customer or Authorized Representative Devon Customer Rep			Schlumberger Supervisor Dickson Ntiri			Circulation Lost ☐	Job Completed ☒	

Client:	DEVON ENERGY CORPORATION
Field:	BRINNINSTO
Rig:	CACTUS 126
Well:	North Thistle 15 10 State Corn
Service Line:	Cementing
Job Type:	9 5/8" Intermediate Casing

Service Order #:	
Date:	Jan/22/2019
Operating Time (hh:mm):	00:00
Client Rep:	Devon Customer Rep
Schlumberger Engineer:	Dickson Ntiri
Schlumberger FSM:	Brandon Holt

Main Objective: 9 5/8" Intermediate Casing

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec., HSE practice	5	yes	☒	5
1b	Free of environmental spill or non-compliant discharge	5	yes	☒	5
1c	Wellsite left clean	4	yes	☒	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes	☒	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes	☒	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes	☒	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes	☒	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes	☒	3
3b	Equipment pressure tested successfully	3	yes	☒	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes	☒	2
3d	Plugs / darts released and tested successfully	2	yes	☒	2
3e	Density variation met expectations	2	yes	☒	2
3f	Personnel performed as per expectations	2	yes	☒	2
3g	Equipment performed as per expectations	2	yes	☒	2
3h	Job pumped as per design	3	yes	☒	3
3i	Did job start on time	2	yes	☒	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes	☒	3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes	☒	10
Sub-total					100%

Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
	Job Completed Successfully
Client Signature:	Schlumberger Signature: