

Unit Petroleum Liner Post Job Report

Geesling 16 1HXL

Reno KS

Quote #: N1N0X0

I Execution #: L6V6T302



Unit Petroleum

Attention: Mr. Steven Garrison | (918) 493-7700 | steve.garrison@unitcorp.com

Unit Petroleum | 8200 South Unit Drive | Tulsa, OK 77046

Dear Mr. Steve Garrison,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely, Kevin Aldridge Sales Engineer | (405) 423-6862 | kevin.aldridge@bjservices.com



Start Date	11/03/2017	Well	Geesling 16 1HXL
End Date	11/04/2017	County	
Client	UNIT PETROLEUM CO	State/Province	KS
Client Field Rep		ΑΡΙ	15-155-21749-0100
Service Supervisor		Formation	
Field Ticket No.	Production Liner	Rig	
District	Liberal, KS	Type of Job	Liner

WELL GEOMETRY

Туре	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Previous Casing	6.18	7.00	29.00	4,285.00	3,800.00			
Open Hole	6.13			5,800.00	3,915.00	10.00		
Drill Pipe	3.34	4.00	14.00	4,070.00	3,300.00			
Liner	3.92	4.50	13.60	5,800.00	3,915.00			

Shoe Length (ft):

84

HARDWARE

Bottom Plug Used?	No	Tool Type	Liner Hanger
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	4,060.34
Bottom Plug Size	4.500	Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	12,410.00
Top Plug Size	4.000	Max Casing Pressure - Operated (psi)	9,928.00
Centralizers Used	No	Pipe Movement	
Centralizers Quantity		Job Pumped Through	Manifold
Centralizers Type		Top Connection Thread	LTC
Landing Collar Depth (ft)	5,716	Top Connection Size	4

CIRCULATION PRIOR TO JOB



Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	30.00	10 min SGS	
Circulation Rate (bpm)	5.00	30 min SGS	
Circulation Volume (bbls)		Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)		Gas Units	
Mud Density Out (ppg)			
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

TEMPERATURE

Ambient Temperature (°F)	37.00	Slurry Cement Temperature (°F)	58.00
Mix Water Temperature (°F)	50.00	Flow Line Temperature (°F)	62.00

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	UltraFlush	8.4000					25.0000
Tail Slurry	Tail Cement	13.6000	1.6213	7.19	140	218.0000	38.8000
Displacement 1	Displacment ahead of plug	8.3300				0.0000	10.0000
Displacement 2	Liner Displacement	8.3300				0.0000	176.0000

Fluid Type	Fluid Name	Component	Concentration	UOM



Spacer / Pre Flush / Flush	UltraFlush	IntegraGuard ULTRA II	100.00	РСТ
Tail Slurry	Tail Cement	CEMENT, CLASS H	50.00	РСТ
Tail Slurry	Tail Cement	FL-52C, Fluid Loss Add (BJS Only)	0.50	BWOB
Tail Slurry	Tail Cement	SALT, Sodium Chloride, Medium	10.00	BWOW
Tail Slurry	Tail Cement	IntegraSeal KOL	3.00	LBS/SK
Tail Slurry	Tail Cement	IntegraSeal KOL	5.00	LBS/SK
Tail Slurry	Tail Cement	EXTENDER, BENTONITE	2.00	BWOB
Tail Slurry	Tail Cement	CSI-POZ	50.00	РСТ
Tail Slurry	Tail Cement	CD-100	0.20	BWOB
Tail Slurry	Tail Cement	CEMENT EXTENDER, GYPSUM, A-10	5.00	BWOB
Tail Slurry	Tail Cement	FOAM PREVENTER, FP- 11	0.20	LBS/SK
Tail Slurry	Tail Cement	IntegraSeal CELLO	0.25	LBS/SK
Displacement 1	Displacment ahead of plug	Fresh Water	100.00	РСТ
Displacement 1	Displacment ahead of plug	CR-1000	50.00	LBS

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	UltraFlush	6.00	25.00			
	Tail Cement	6.00	38.80			
	Displacment ahead of plug	6.00	10.00			
	Liner Displacement	5.00	176.00			

	Min	Max	Avg
Pressure (psi)	0.00	4,000.00	650.00
Rate (bpm)	3.50	6.00	5.00

DISPLACEMENT AND END OF JOB SUMMARY



Displaced By	BJ	Amount of Cement Returned/Reversed	10.00
Calculated Displacement Volume (bbls)	68.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	68.00	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	2,000.00	Total Volume Pumped (bbls)	363.00
Were Returned Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	None	Lost Circulation During Cement Job	No
CEMENT PLUG			
Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	Yes
Number of Plugs			
SQUEEZE			
Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

COMMENTS

Treatment Report

Job Summary



25bbls HIVIS SWEEP 38bbls Tail cement shut down wash up to pit pump 2bbls sugar water drop the plug pump 8bbs of sugar water behind plug and continue with displacement 68bbls of displacement pumped including the 8bbls of sugar water set packer put 500PSI to release liner to reverse out 92bbls to reverse out 1000Psi to test against the annular rams

out utwin pumped on outs of match we reversed out all the HIVIS SWEEP and about 10bbls of sement. Baker Hughes gave me the information		96			6		End Pumping	Operational	11/4/2017 4:27	28
tobbis gone	1150 4	\$	9		76	Cement Pump Truck	Other (See comments)	Operational	11/4/2017 4:21	27
nuches hand orders	870 h	96	7.2		76	Cement Pump Truck	Other (See comments)	Operational	11/4/2017 4:16	26
tart reversing out do not exceed 2000PSI baker	2 4				y		Srd Party Operational	Operational	11/4/201/4:14	23
taker hughes is going to set the packer so we can	1 0				3					
tot 1/2 bbl back to the tank	99				68		Check Floats	Operational	11/4/2017 4:11	24
make sure that the floats are holding	2000 п	8			ସ	Cement Pump Truck	Land Plug	Operational	11/4/2017 4:09	23
anded plug @ 2000PSI final circulating pressure vas 1000PSI hold pressure for a few minutes to	5 80									
Bule	d 068	58	3.5		2	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 4:07	22
Bubble some slow down rate to 3.5bpm to land the	100 00	2	U		94	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 4:05	21
	7 0007	5	n u		2 2	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 4:03	20
11bbls gone drilling pipe sheared casing plug @	29000 4	A1	υ		2	Compart Burns Truck	Press Disalana			5
30bbls gone	550 3	30	4.2		64	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 4:00	19
20bbls gone	420 2	20	4.9		64	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 3:57	18
10bbls gone	110 1	10	5.5		64	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 3:56	17
	100	88	5.3		64	Cement Pump Truck	Pump Displacement	Operational	11/4/2017 3:54	16
start with 800is of sugar water after plug and sontinue on with displacement customers orders	0 9									
					8	1 100	Drop Top Plug	Operational	11/4/2017 3:53	15
Baker hughes dropped his plug					AL AND	Cement Pump Truck		Operational	11/4/2017 3:51	14
shut down wash up to the pit	10				の一日本の日の日の	Cement Pump Truck		Operational	11/4/2017 3:37	13
	700	ð	6	13.6	8	Cement Pump Truck	Pump Tail Cement	Operational	11/4/2017 3:27	12
	700	25	5		56	Cement Pump Truck	Pump Spacer	Operational	11/4/2017 3:22	11
	4000				54	Cement Pump Truck	Pressure Test	Operational	11/4/2017 3:14	10
start mixing the HIVIS SWEEP spacer into tanks	5				のないのでのないので	Cement Pump Truck		Operational	11/4/2017 3:03	9
Hold Steacs Meeting	Ŧ				53		Safety Meeting	Operational	11/4/2017 2:51	8
'ig up iron to the baker hughes head	2		0.80		50		Rig Up	Operational	11/4/2017 2:40	7
are brigging another one from Oklahoma City and ts Going to take a few Hours before we start with rement.	0 22 9 1				п		Equipment Issue	Downtime	11/3/2017 13:30	б,
taker Hushes liner could not he set for that they					52	Cement Pump Truck	Prime Up	Operational	11/3/2017 10:45	5
					SO	Cement Pump Truck	Rig Up	Operational	11/3/2017 10:10	4
					49	Cement Pump Truck	Spot Units	Operational	11/3/2017 10:05	ω
					450		Arrive on Location	Mobilization	11/3/2017 10:00	2
				C C C C C C C C C C C C C C C C C C C	States a Landon and		Callout	Mobilization	11/3/2017 5:00	1
Comments	Pipe Pressure (psi)	Pump Vol (bbls)	Pump Rate (bpm)	Density (Ib/gal)	Event ID	Equipment	Event	Category	Start Date/Time	Seq No.
									adá i dor	
		nector Esqueda	supervisor					Geesling 16 1HXL	Well Name	
		Liberal	District				wbauk	Unit Petroleum Co	Customer Name	
		•								

Page: 1

|--|

Customer Name Unit Petroleum Company Well Name Geesling 16 1HXL Job Type Liner

> District Liberal Supervisor Hector Esqueda Engineer Kevin A.

					74		Leave Location	Mobilization	11/4/2017 6:00	32
					/3		Rig Down	Operational	11/4/2017 4:50	31
HOLD HAR DECEMENT					53		Safety Meeting	Operational	11/4/2017 4:36	30
Lold AAR meeting								Operational	70-41707/4-177	5
release pressure	1000				のないで、日本ののない	Cement Pump Truck		Operational	14 /A / 1017 A 1 11	5
the liner watch pressure for a few minutes and					はないないないの					
have the rig crew close in the annular rams to tes				1.	の行きのなどののない					
	(psi)	(bbls)	(bpm)	(Ib/gal)	EVENUE	neudinba	Event	Category	Start Date/Time	Seq No.
Comments	Pipe Pressure	Pump Vol	Pump Rate	Density				The state of the s	北京の日時の時代にある時間で	にしたいたちまちの



Customer:

Date: Tuesday, October 3, 2017

Well Name:

Well Location:

Supervisor:

Equipment Operators: Hector Esqueda, Gabriel Mendoza, and Alejandro Ayala

Geesling 16 # 1HXL

Hector Esqueda

UNIT PETROLEUM COMPANY

Performance	Custo	mer
Was the appearance of the personnel and equipment satisfactory?	Yes	No
Was the job performed in a professional manner?	Yes	No
Were the calculations prepared and explained properly?	Yes	No
Were the correct services dispatched to the job site?	Yes	No
Were the services performed as requested?	(Yes)	No
Did the job site environment remain unchanged?	Yes	No
Did the equipment perform in the manner expected?	Yes	No
Did the materials meet your expectations?	Yes	No
Was the crew prepared for the job?	Yes	No
Was the crew prompt in the rig-up and actual job?	Yes	No
Were reasonable recommendations given, as requested?	Yes	No
Did the crew perform safely?	Yes	No
Was the job performed to your satisfaction?	Yes	No
Customer Signature:		
	Date: 11-4-17	
Additional Comments:		

Job Well Donc

Marty



-



CEMENT MIXING WATER GUIDELINES

Company Name:	UNIT PETROLEUM COMPANY		
Lease Name:		Goosling 16 #	1 UVI
- County	Beng	State	
Water Source:	<u> </u>	TANK	
– Submitted By: –	Hector Esqueda	Date:	10/3/2017
pH Level _	7		Must be less than 8.5
Sulfates _	400		Must be less than 1,000 PPM
Chlorides -	0		Must be less than 3,000 PPM
Temperature	64		

COMMENTS

Customer Signature	Alen	Mendal

Thank You