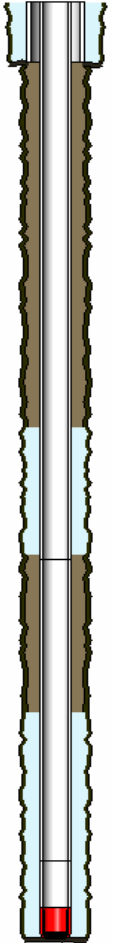


1 General**1.2 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.1 Cement Schematic**1.3 Well/Wellbore Information**

Well	SHULTZ STATE 16-1	Wellbore No.	00
Common Name	SHULTZ STATE 16-1	Wellbore Name	SHULTZ STATE 16-1
Report no.	2	Report date	10/23/1992
Project	COLORADO-WELD-NAD83-UTM13	Site	SHULTZ STATE 16-1
Rig Name/No.		Event	COMBINED
Start date	3/24/1992	End date	7/21/2005
Spud date	3/24/1992	Active datum	RKB @4,882.00ft (above Mean Sea Level)
UWI	0/4/N/67/W/16/0/NENE/6/0/0/0/0/0/0/0		

1.4 General Information

Job type	Primary	Job desc.	PRODUCTION
Job Start Date/Time	10/23/1992 12:00AM	Job end date/time	10/23/1992 12:00AM
N2 used	N	CO2	N
Zone isolated	N		
Contractor		Arrival date/time	
Cementer			
Assembly	PRODUCTION CASING	Tubing/Casing size	4.500 (in)
MD landed	7,462.0 (ft)	Hole size	7.875 (in)
Ground temp.		Air temp	
Seabed temp.		Annulus temp	
BHT			

1.5 Pipe Movement

Pipe movement			
Rotating Date/Time (start-End)		Rotating RPM	
Reciprocating Date/Time (start-End)		Rotating Torque (init/avg/max)	(ft-lbf)
SPM		Recip Drag Up/Down	- (kip)
Stroke Length			

1.6 Shoetrack Cement

Shoetrack top MD		Shoetrack drill date/time	
Shoetrack drill MD			

2 Fluids**2.1 G**

Fluid type		Top/Base	(ft)
Purpose		Class	
Density		Description	
Yield		Mix water ratio	
Cement used volume		Total water volume used	
Sacks used	100.00	Other amount used	
Total slurry volume		Excess slurry volume	
Mud type		Fluid density	
PV		YP	
Funnel viscosity		Gels 10 sec.	
Gels 10 min.		Gels 30 min.	

2.2 NEAT

Fluid type		Top/Base	(ft)
Purpose		Class	
Density		Description	
Yield		Mix water ratio	
Cement used volume		Total water volume used	
Sacks used	150.00	Other amount used	
Total slurry volume		Excess slurry volume	
Mud type		Fluid density	
PV		YP	
Funnel viscosity		Gels 10 sec.	
Gels 10 min.		Gels 30 min.	

2.3 G

Fluid type		Top/Base	(ft)
Purpose		Class	
Density		Description	
Yield		Mix water ratio	

2.3 G (Continued)

Cement used volume		Total water volume used	
Sacks used	270.00	Other amount used	
Total slurry volume		Excess slurry volume	
Mud type		Fluid density	
PV		YP	
Funnel viscosity		Gels 10 sec.	
Gels 10 min.		Gels 30 min.	

2.4 G

Fluid type		Top/Base	(ft)
Purpose		Class	
Density		Description	35% SILICA - 18% SALT
Yield		Mix water ratio	
Cement used volume		Total water volume used	
Sacks used	190.00	Other amount used	
Total slurry volume		Excess slurry volume	
Mud type		Fluid density	
PV		YP	
Funnel viscosity		Gels 10 sec.	
Gels 10 min.		Gels 30 min.	

3 Stages

3.1 Cementing Stages

Stage no.		Type	SQUEEZE 2
MD top (ft)	4,648.0	MD base (ft)	4,658.0
Hole size (in)		Initial/Final Casing Pressure (psi)	
Circulate flow rate (gpm)		Circulate press. (psi)	
Circulate prior (hr)		Vol. returns (bbl)	
Total Mud Lost (bbl)			

3.1.1 Pumping Schedule

Fluid pumped	Volume (bbl)	Rate (bbl/min)	Slurry top MD (ft)	Slurry base MD (ft)	Disp rate final (bbl/min)	Disp pressure final (psi)	Top of fluid (ft)	Pumping start date/time	Pumping end date/time	Operation	Shut down time (min)	Foam job	Foam gas type	Foam gas vol. used (scf)
G -												N		

3.2 Cementing Stages

Stage no.		Type	STAGE 1
MD top (ft)	6,290.0	MD base (ft)	7,478.0
Hole size (in)		Initial/Final Casing Pressure (psi)	
Circulate flow rate (gpm)		Circulate press. (psi)	
Circulate prior (hr)		Vol. returns (bbl)	
Total Mud Lost (bbl)			

3.2.1 Pumping Schedule

Fluid pumped	Volume (bbl)	Rate (bbl/min)	Slurry top MD (ft)	Slurry base MD (ft)	Disp rate final (bbl/min)	Disp pressure final (psi)	Top of fluid (ft)	Pumping start date/time	Pumping end date/time	Operation	Shut down time (min)	Foam job	Foam gas type	Foam gas vol. used (scf)
G -			6,290.01	7,478.01								N		

3.3 Cementing Stages

Stage no.		Type	STAGE 2
MD top (ft)	3,872.0	MD base (ft)	4,870.0
Hole size (in)		Initial/Final Casing Pressure (psi)	
Circulate flow rate (gpm)		Circulate press. (psi)	
Circulate prior (hr)		Vol. returns (bbl)	
Total Mud Lost (bbl)			

3.3.1 Pumping Schedule

Fluid pumped	Volume (bbl)	Rate (bbl/min)	Slurry top MD (ft)	Slurry base MD (ft)	Disp rate final (bbl/min)	Disp pressure final (psi)	Top of fluid (ft)	Pumping start date/time	Pumping end date/time	Operation	Shut down time (min)	Foam job	Foam gas type	Foam gas vol. used (scf)
G -			3,872.01	4,870.01								N		

3.4 Cementing Stages

Stage no.		Type	SQUEEZE 1
MD top (ft)	4,610.0	MD base (ft)	4,850.0
Hole size (in)		Initial/Final Casing Pressure (psi)	
Circulate flow rate (gpm)		Circulate press. (psi)	

Circulate prior (hr)		Vol. returns (bbl)	
Total Mud Lost (bbl)			

3.4.1 Pumping Schedule

Fluid pumped	Volume (bbl)	Rate (bbl/min)	Slurry top MD (ft)	Slurry base MD (ft)	Disp rate final (bbl/min)	Disp pressure final (psi)	Top of fluid (ft)	Pumping start date/time	Pumping end date/time	Operation	Shut down time (min)	Foam job	Foam gas type	Foam gas vol. used (scf)
NEAT -			4,610.01	4,850.01								N		

4 Work Strings

4.1 BHA No. Summary

Assembly name	
Date/Time in	Date/Time out
MD in	MD out
Hole size	Purpose
Comments	

4.1.1 Components

	Jnts	Length (ft)	Top (ft)	MD base (ft)	Size (in)	Body ID (in)	Connection		Weight (ppf)	Grade	Manufacturer	Fish Neck	
							OD (in)	Name				OD (in)	Length (ft)

5 Job Activity

5.1 Job Activity

Date/Time from	Date/Time to	Duration (hr)	Activity class	Activity code	Activity subcode	MD from (ft)	MD to (ft)	Operation	Operation success	Service company

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	SHULTZ STATE 16-1	Wellbore No.	00
Well Name	SHULTZ STATE 16-1	Wellbore Name	SHULTZ STATE 16-1
Report no.	2	Report date	10/13/1992
Project	COLORADO-WELD-NAD83-UTM13	Site	SHULTZ STATE 16-1
Rig Name/No.		Event	COMBINED
Start date	3/24/1992	End date	7/21/2005
Spud date	3/24/1992	Active datum	RKB @4,882.00ft (above Mean Sea Level)
UWI	0/4/N/67/W/16/O/NENE/6/0/0/0/0/0/0/0		

1.3 General

Contractor	GOODWELL INC	Job method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed method			

1.4 Initial Conditions

Fluid type		Fluid density	
Surface press.		Estimate res press	
TVD fluid top		Fluid head	
Hydrostatic press.		Press. difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	4,610.0 (ft)-4,850.0 (ft)	Start Date/Time	10/8/1992 12:00AM
No. of intervals	2	End Date/Time	10/13/1992 12:00AM
Total shots	40	Net perforation interval	250.00 (ft)
Avg. shot density	0.16 (shot/ft)	Final surface pressure	
		Final press. date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD top (ft)	MD base (ft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
10/8/1992 12:00AM	S H A N N O N/			4,610.0	4,850.0									CEMENT SQUEEZE		

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD top (ft)	MD base (ft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
10/13/1992 12:00AM	SHANNON/ N/			4,648.0	4,658.0	4.00		0.400						PRODUCTION		

3 Plots**3.1 Wellbore Schematic**