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McELVAIN

**HUTCHINSON
#1R**

**API Well No.:
30-045-31266**

**6/28/2003
SAN JUAN**

**HALLIBURTON & YOU
A WINNING TEAM.**

4 1/2" 2 STAGE LONGSTRING

**Customer Representative:
BOB FIELDER/ 949-3822
Halliburton Operator:
STEVE STROMBERG/ 486-0167
Ticket No.:
2521142**



HALLIBURTON



CEMENT JOB SUMMARY SHEET

Job Type 4 1/2" 2 STAGE LONGSTRING

				<i>Measured</i>
	<i>Size</i>	<i>Weight</i>	<i>Grade</i>	<i>Depth</i>
Casing	4 1/2	10.5	J55	1,712
Drill Pipe				
Tubing				
Hole Size	6 1/4			1,722
Mud Weight		8.6		

CEMENT DATA

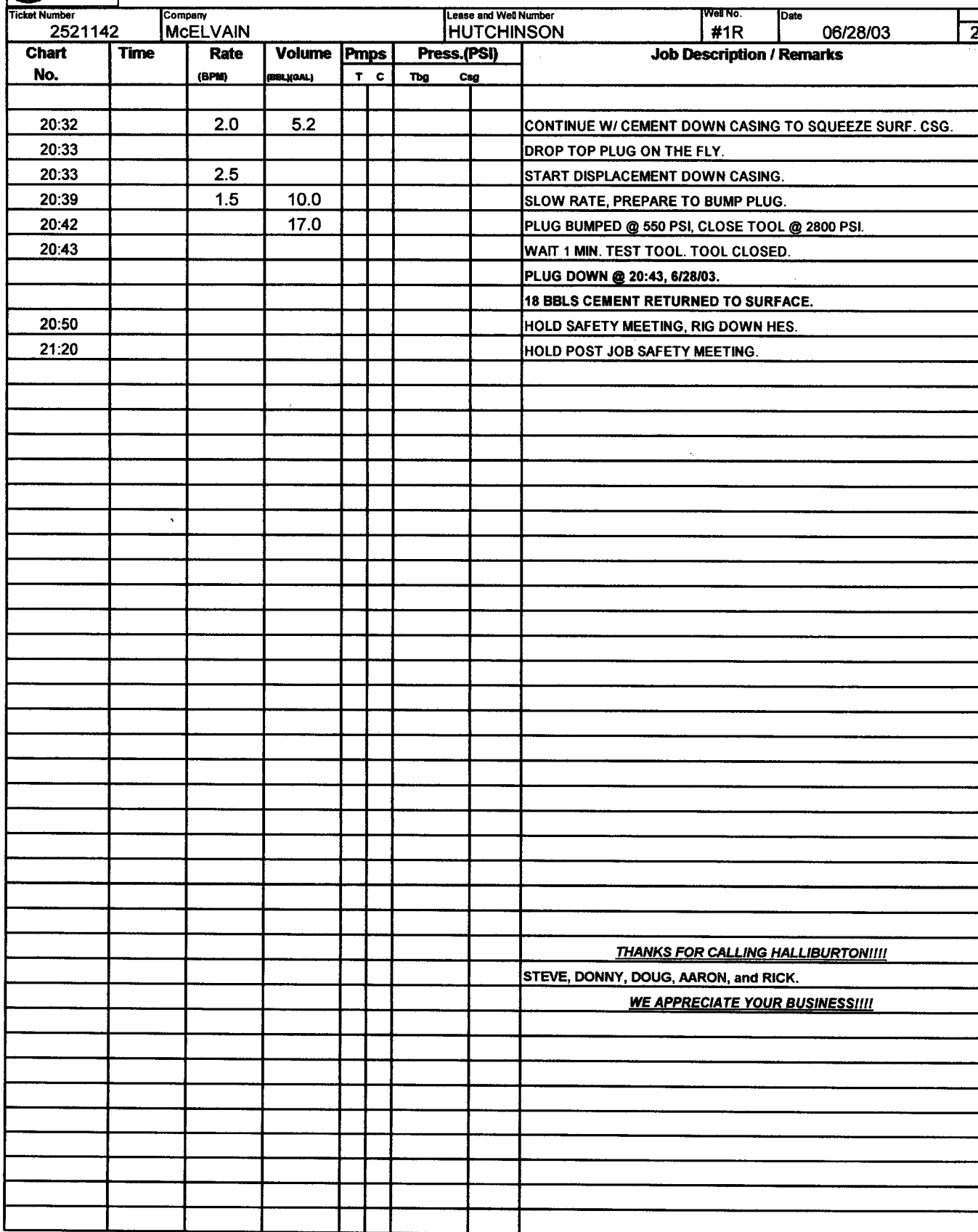
Spacer	10 Bbls GEL SWEEP			
Cement 1	STD			35 Sacks
Additives	3% ECONOLITE, 5# GILSONITE, 1/4# FLOCELE			
	Weight (lb/gal)	11.80	Yield (cuft/sk)	2.57
			Water (gal/sk)	14.98
Cement 2	STD			65 Sacks
Additives	.3% HALAD 344, 5# GILSONITE, 1/4# FLOCELE			
	Weight (lb/gal)	15.20	Yield (cuft/sk)	1.27
			Water (gal/sk)	5.32
Cement 3	HLC			135 Sacks
Additives	1/4# FLOCELE, .3% VERSASET			
	Weight (lb/gal)	12.40	Yield (cuft/sk)	1.86
			Water (gal/sk)	9.96
Cement 4	STD			25 Sacks
Additives	.3% HALAD 344			
	Weight (lb/gal)	15.60	Yield (cuft/sk)	1.18
			Water (gal/sk)	5.20
Displacement	8.34 (lb/gal)			

CEMENTING EQUIPMENT

Provider	HES			
Guide Shoe	ea.	Centralizers	8 ea.	
Float Shoe	1 ea.	Plug Type	PLUG SET	ea.
Float Collar	1 ea.	Packer		ft.
DV Tool	1,086 ft.	Retainer		ft.

		JOB LOG				TICKET # 2521142		TICKET DATE 06/28/03	
REGION NORTH AMERICA			NWA / COUNTRY ROCKY MOUNTAINS			BDA / STATE N.M.		COUNTY SAN JUAN	
MBU ID / EMPL # FA0104/217406			H.E.S. EMPLOYEE NAME STEVE STROMBERG			PSL DEPARTMENT ZONAL ISOLATION 10003			
LOCATION Farmington, N.M.			COMPANY McELVAIN			CUSTOMER REP / PHONE BOB FIELDER/ 949-3822			
TICKET AMOUNT			WELL TYPE 02 GAS/ P.C., FRTD COAL.			API/UWI # 30-045-31266			
WELL LOCATION FARMINGTON, N.M.			DEPARTMENT ZONAL ISOLATION			JOB PURPOSE CODE 4 1/2" 2 STAGE LONGSTRING			
LEASE / WELL # HUTCHINSON		Well No. #1R	SEC / TWP / RNG SEC 01 / TWP 29 N / RNG 13 W						

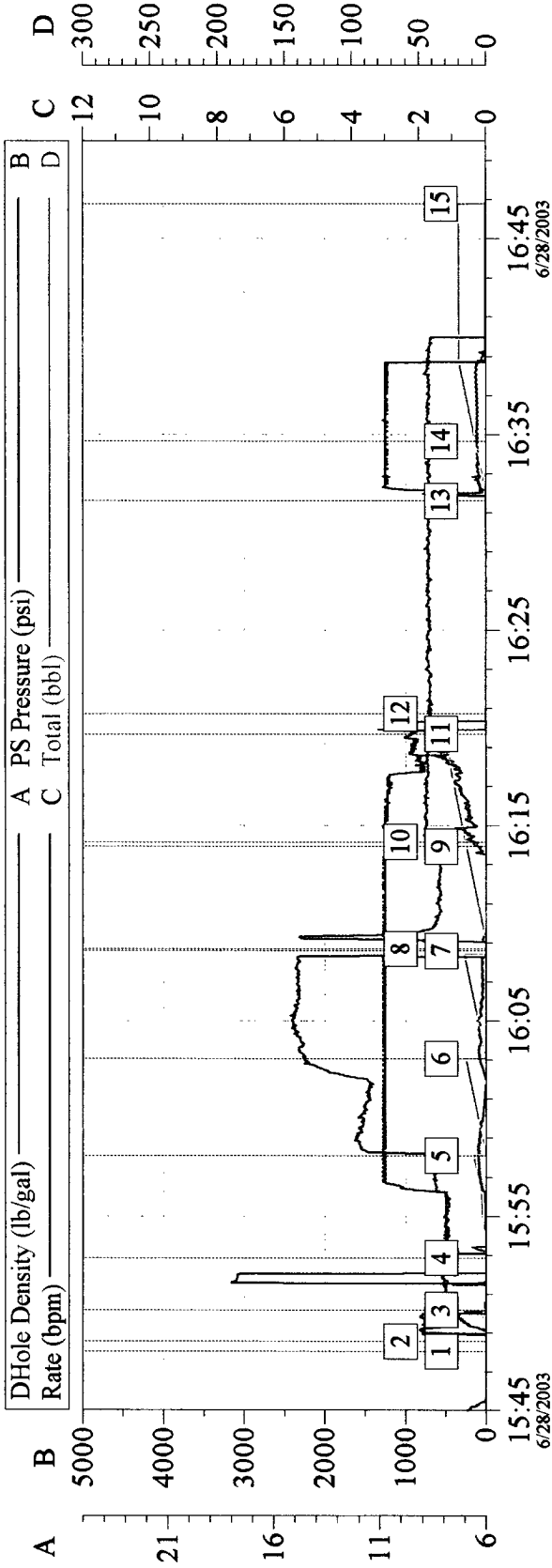
Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Pmps		Press.(PSI)		Job Description / Remarks
				T	C	Tbg	Csg	
	08:00							06/28/03
	08:00							ARRIVE ON LOCATION, CONDUCT ASSESSMENT.
	08:45							START CASING IN THE HOLE.
	10:15							MU DV TOOL IN CASING STRING.
	11:35							HAVING TROUBLE GETTING CASING TO BOTTOM.
	11:35							7 JTS OFF BOTTOM, RIG UP HES TO CIRCULATE.
	11:35							HOLD SAFETY MEETING, SPOT PUMP TRUCK.
	11:45							HOLD SAFETY MEETING, RIG UP HES TO CIRCULATE WELL.
	11:50							START CASING IN THE GROUND W/ HES PUMP.
	13:52							MU LANDING JT. CIRCULATE DOWN W/ HES PUMP.
	14:30							CASING LANDED. CIRCULATE W/ HES PUMP.
	14:45							PU CASING. MU MANDREL IN CASING STRING.
	15:10							SIT BACK DOWN, LAND MANDREL. CIRCULATE W/ HES PUM
	15:15							HOLD PJSM W/ RIG CREW, CO. REP..
	15:30							RIG UP HES ON RIG FLOOR.
	15:50							TEST LINES TO 3000 PSI. TEST GOOD.
	15:52	1.1					45	START PRE FLUSH DOWN CASING.
	15:58	3.0	10.0				75	START LEAD CEMENT DOWN CASING @ 11.8#/ GAL.
	16:03	3.0	16.0				70	SWITCH TO TAIL CEMENT @ 15.2#/ GAL.
	16:08		14.7					SHUT DOWN CEMENT. DROP BOTTOM CLOSING DART.
	16:08	3.0					35	START DISPLACEMENT DOWN CASING.
	16:13	3.0	10.0				35	SWITCH TO WELL FLUID.
	16:14	3.0	12.0				175	DISPLACEMENT REACHED CEMENT, CONTINUE W/ DISP.
	16:16	3.0	15.0				350	PRESSURE CLIMBING, CONTINUE W/ DISPLACEMENT.
	16:18	2.0	21.0				600	SLOW RATE, PREPARE TO BUMP PLUG.
	16:19		25.0				1225	PLUG BUMPED @ 650 PSI, PRESSURE UP 1225 PSI.
	16:20							WAIT 1 MIN, TEST FLOATS. TEST GOOD.
	16:21							DROP OPENING PLUG. WAIT 10 MIN.
	16:33						934	PRESSURE UP CASING TO OPEN TOOL.
	16:34						934	TOOL OPENED @ 934 PSI.
	16:34	3.0					110	CIRCULATE W/ HES PUMP 20 BBLs MUD DOWN CASING.
	16:40		20.0					SHUT DOWN HES. TURN WELL OVER TO RIG FOR 4 HRS.
								PLUG DOWN @ 16:19, 6/28/03.
								4 BBLs CEMENT RETURNED TO SURFACE.
	20:00							PREPARE FOR SECOND STAGE. TEST LINES TO 3000 PSI.
	20:01	3.0						START PREFLUSH DOWN CASING.
	20:06	3.0	10.0					START LEAD CEMENT DOWN CASING @ 12.4#/ GAL.
	20:28	2.5	44.7					SWITCH TO TAIL CEMENT @ 15.6#/ GAL.
	20:30	2.5	4.3					CLOSE BRAIDENHEAD VALVES.
CONTINUED ON PAGE 2.								



4 1/2" 2 STAGE LONGSTRING

CASING SET @ 1722', F.C. @ 1688'.

D. V. TOOL @ 1086'.



Event Log								
1	Start Job	15:48:03	2	Pump Spacer 1	15:48:34	3	Test Lines	15:50:11
4	Pump Spacer 1	15:52:51	5	Pump Lead Cement	15:58:06	6	Pump Tail Cement	16:03:04
7	Drop Top Plug	16:08:35	8	Pump Displacement	16:08:41	9	Pump Well Fluid	16:13:55
10	Displ Reached Cement	16:14:09	11	Bump Plug	16:19:41	12	Test Floats	16:20:43
13	Open MSC	16:31:36	14	Circulate Well	16:34:39	15	End Job	16:46:47

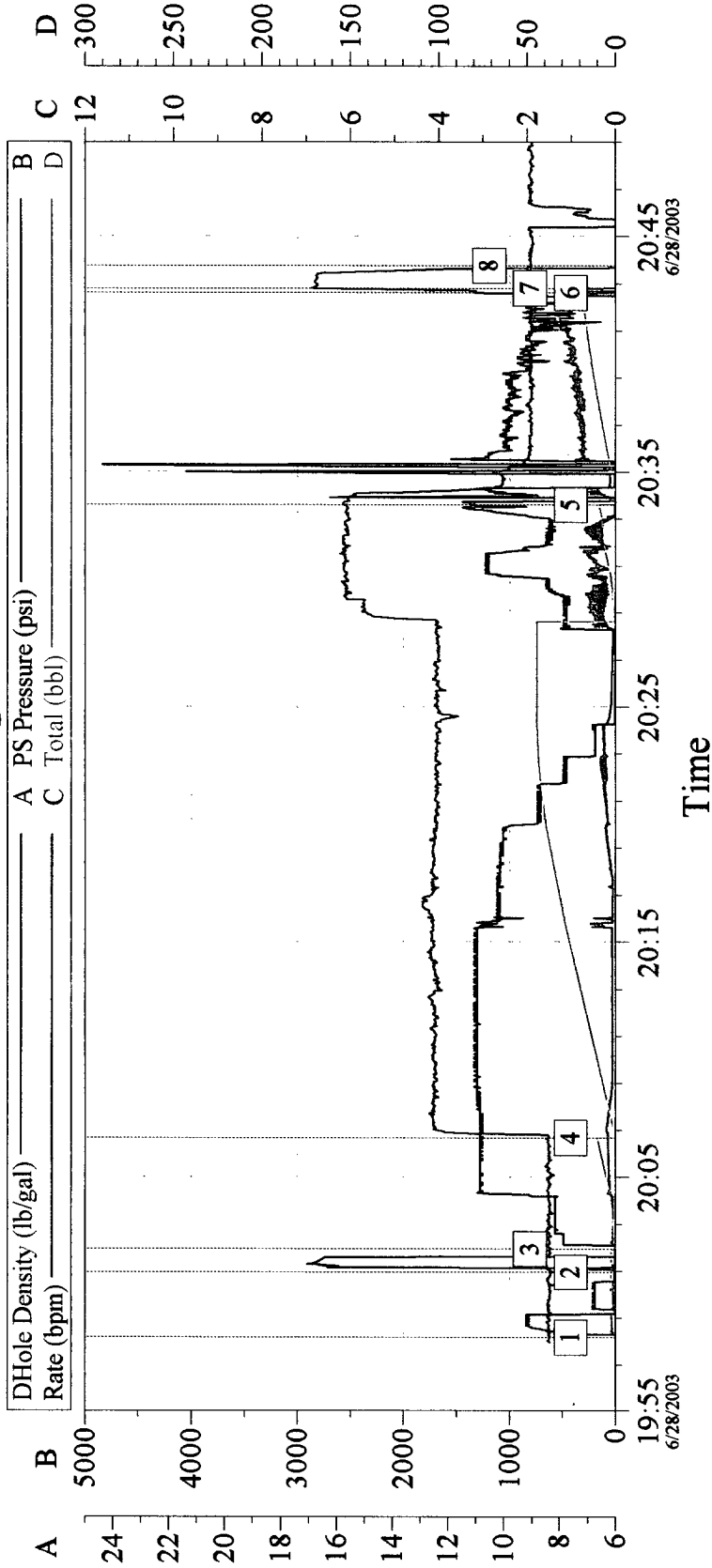
Customer: McELVAIN	Job Date: 6/28/03	Ticket #: 2521142
	UWI: 30-045-31266	
	Well Description: GAS	
		STROMBERG DOBBS



CemWin v1.4.0
28-Jun-03 16:49

4 1/2" 2 STAGE LONGSTRING

D.V. TOOL @ 1086'



Event Log

1	Start Job	19:58:10	2	Test Lines	20:00:57	3	Pump Spacer 1	20:01:57
4	Pump Lead Cement	20:06:40	5	Pump Displacement	20:33:36	6	Bump Plug	20:42:36
7	Close MSC	20:42:47	8	End Job	20:43:45			

Customer: McELVAIN	Job Date: 6/28/03	Ticket #: 2521142
Well Description: GAS	UWI: 30-045-31266	STROMBERG DOBBS



CemWin v1.4.0
28-Jun-03 20:55

Cementing Calculations for Multistage Longstrings

NOTE: Only Green Highlighted Number Need Be Inputed

Well Information

Hole Size	6 1/4	in
TD	1722	ft
Casing Length	1722	ft
Casing Size	4 1/2	in
Casing Weight	10.5	lbs/ft
1st Stage DV Tool	1086	ft
2nd Stage DV Tool		ft
Float Collar	1688	ft
Shoe Joint	42	ft
Wellbore Fluid	8.6	lbs/gal
Displacement Fluid	8.4	lbs/gal
Spacer Fluid	8.3	lbs/gal
Amount	10	bbls

Customer	McELVAIN
Well Lease & Name	HUTCHINSON
County	SAN JUAN
SO #	2521142
Cementer	STEVE STROMBERG

Redbook Information

	gal/lin.ft	lin.ft/gal	bbls/lin.ft	lin.ft/bbl	cuft/lin.ft	lin.ft/cuft
Annulus	0.7675	1.3029	0.0183	54.7197	0.1026	9.746
Casing	0.6399	1.4928	0.0159	62.7	0.0885	11.167
Mix H2O	55.83		bbls			
Plg Disp.	44.11		bbls			
Total H2O	99.93		bbls			

Cement Slurry and Job Information

First Stage Lead	35	# sks	BBLS Slurry	16.02		
Density	11.8	lbs/gal			Ht.of Cmt	876.61 ft
Yield	2.57	cuft/sk	BBLS Water	12.48	TOC	77.43 ft
Water Requirements	14.93	gal/sk	BBLS Spacer	10.00		
Excess	5	bbls			PSI TLP	406.63 Plug Displacement 26.8 bbls
First Stage Tail	65	# sks	BBLS Slurry	14.70		
Density	15.2	lbs/gal			SH Slry	0.67
Yield	1.27	cuft/sk	BBLS Water	8.23	Ht of Cmt	767.96 ft
Water Requirements	5.32	gal/sk	BBLS Spacer	0.00	TOC	954.04 ft
Excess	2	bbls				
Second Stage Lead	135	# sks	BBLS Slurry	44.72		
Density	12.4	lbs/gal			Ht.of Cmt	2447.11 ft
Yield	1.86	cuft/sk	BBLS Water	32.01	TOC	0.00 ft
Water Requirements	9.96	gal/sk	BBLS Spacer	10.00		
Excess	16.5	bbls			PSI TLP	1336.26 Plug Displacement 17.3 bbls
Second Stage Tail	25	# sks	BBLS Slurry	5.25		
Density	15.6	lbs/gal			Ht.of Cmt	287.49 ft
Yield	1.18	cuft/sk	BBLS Water	3.10	TOC	798.51 ft
Water Requirements	5.2	gal/sk				
Excess	0	bbls				
Third Stage Lead	0	# sks	BBLS Slurry	0.00		
Density	0	lbs/gal			Ht.of Cmt	0.00 ft
Yield	0	cuft/sk	BBLS Water	0.00	TOC	0.00 ft
Water Requirements	0	gal/sk	BBLS Spacer	0.00		
Excess	0	bbls			PSI TLP	0.00 Plug Displacement 0 bbls
Third Stage Tail	0	# sks	BBLS Slurry	0.00		
Density	0	lbs/gal			Ht.of Cmt	0.00 ft
Yield	0	cuft/sk	BBLS Water	0.00	TOC	0.00 ft
Water Requirements	0	gal/sk	BBLS Spacer	0.00		
Excess	0	bbls				

Height of Wellbore Fluid in Annulus			Hydrostatic Values, psi	lead	tail
1st Stage	-469.77 ft	-8.60 bbls		537.69	579.91
2nd Stage	0.00 ft	0.00 bbls		1577.32	233.13
3rd Stage	0.00 ft	0.00 bbls		0.00	0.00
Amount of Spacer in Annulus				spacer	wb fluid
1st Stage	547.20 ft	10.01 bbls		236.08	-210.00
2nd Stage	0.00 ft	0.00 bbls		0.00	0.00
3rd Stage	0.00 ft	0.00 bbls		0.00	0.00

TOC 2nd Stg. 0.00
TOC Lead 0.00

0 ft.

Casing size 4.5
Hole size 6.25

TOC Tail 799

Stg. Tool @ 1086.0
TOC 1st Stg 1086.0
TOC Lead 77.4

TOC Tail 954.0

Fit. Collar @ 1688

Casing @ 1722

TVD = 1722

