



02577971



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State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 601, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 100185	4. Contact Name: Bonnie Lamond	Complete the Attachment Checklist
2. Name of Operator: Encana Oil & Gas (USA) Inc.	Phone: 720.876.5156	
3. Address: 370 17th Street Suite 1700	Fax: 720.876.6177	OP OGCC
City: Denver State: CO Zip: 80202		
5. API Number: 05-045-20388	OGCC Facility ID Number: 421390	Survey Plat
6. Well/Facility Name: Twin Creek	7. Well/Facility Number: 12-501 (F12E)	Directional Survey
8. Location (Ctr/Ctr, Sec, Twp, Rng, Meridian): SENW Sec 12, T7S, R92W	6 P.M.	Surface Equip Diagram
9. County: Garfield	10. Field Name: Mamm Creek	Technical Info Page
11. Federal, Indian or State Lease Number: COC55972E		Other

COGCC/Rifle Office

JUN 06 2012

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat	(a change of surface qtr/qtr is substantive and requires a new permit)
Change of Surface Footage from Exterior Section Lines:	
Change of Surface Footage to Exterior Section Lines:	
Change of Bottomhole Footage from Exterior Section Lines:	
Change of Bottomhole Footage to Exterior Section Lines:	
Bottomhole location Ctr/Ctr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest lease line
Ground Elevation	Distance to nearest well same formation
	Distance to nearest bldg, public rd, utility or RR
	Is location in a High Density Area (rule 603b)?
	Surface owner consultation date:
GPS DATA: Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (fill in from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date: As soon as approved	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form Z)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Request to Complete
	Mamm Creek Well
	E&P Waste Disposal
	Beneficial Reuse of E&P Waste
	Status Update/Change of Remediation Plans
	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed:

Print Name:

Bonnie Lamond

Date:

6/6/12

Email:

bonnie.lamond@encana.com

Title:

Permitting Technician

COGCC Approved:

CONDITIONS OF APPROVAL, IF ANY

Title:

PE I

Date JUN 08 2012



TECHNICAL INFORMATION PAGE



1. OGCC Operator Number:	100185	API Number:	05- 045-20388
2. Name of Operator:	Encana Oil & Gas (USA) Inc.	OGCC Facility ID #	421390
3. Well/Facility Name:	Twin Creek	Well/Facility Number:	12-5D1 (F12E)
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SENW Sec 12, T7S, R92W 6 P.M.		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

The above referenced well has been successfully cemented according to the approved plan and summary of bradenhead monitoring completed.

FM TOPS Molina: 88'
FM TOPS Atwell Gulch: 514'
Mudlog TOG based on 2500 units: not reached

Encana Oil & Gas (USA) Inc. requests approval to commence completions.

Attachments:

- Cement Tickets
- Wellbore Diagram with FIT
- Bradenhead Pressure Report
- CBL
- Cement Proposals

Engineer Contact Information:

Ryan MiGilvery	or	Craig Miley
Completion Engineer		Completion Engineer
370 17th. Street, Suite 1700		370 17th. Street, Suite 1700
Denver, CO 80202		Denver, CO 80202
720-876-3681		720-876-5396

Well:	Twin Creek 12-5D1
Pad:	F12E
API No:	05-045-20388-00
Permit No:	400061706

Bradenhead Pressure Report Following Primary Cement Job

Date Cemented:	2.8.12
Plug Bumped:	Yes

Annular Fluid Level After Job (Static or Falling?):	Static	
If falling, barrels of mud added until stabilized:	n/a	barrels

WOC Time:	12 hrs
Bond Log Run:	2.8.12

Casing Slips Set:	yes
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Brandenhead Pressures

6 hrs:	0	psig
12 hrs:	0	psig
24 hrs:	0	psig
48 hrs:	0	psig
72 hrs:	0	psig

Comments

S.C. TOC - Surface
P.C. TOC - 750'

Twin Creek 12-5D1 (F12E)

Permit Estimated Formation Tops (MD / TVD)	Casing & Hole size		Actual Conditions (MD / TVD)
16" Conductor @ 40' Cement to surface with 5 yds redi-mix			16" Conductor @ 40' Cement to surface with 5 yds redi-mix
WasatchSurface / Surface			WasatchSurface / Surface
12-1/4" Surface Hole			12-1/4" Surface Hole
Surface Casing1127 / 1100 9-5/8" 36# J/K55 Cement to surface with: Tail: 543 sx, 15.8, Class G, 1.17 ft³/sk Total: 543 sx (volume includes 80% excess)			Surface Casing# 1149 / 1121 9-5/8" Cemented to surface with 543 sx, 15.8 ppg Class G, 1.16 ft³/sk
7-7/8" Production Hole			7-7/8" Production Hole
Mesa Verde2351 / 2257			Mesa Verde2355 / 2246
Williams Fork2990 / 2862			Williams Fork2916 / 2778
TOC requirement 500ft above TOG			Prod TOC from CBL800 / 793
Top of Gas3632 / 3492			Top of Gas3758 / 3612
Coal Ridge5337 / 5197			Coal Ridge5334 / 5188
Rollins6062 / 5922			Rollinsno pick/ no pick
Permit TD6362 / 6222			Actual TD5532 / 5386
Production casing6362 / 6222 4-1/2" 11.6# 80 grade Cement with: Lead: 83 sx, 12 TXI, 1.79 ft³/sk Tail: 565 sx, 13 TXI, 1.43 ft³/sk Total: 648 sx (volume includes 30% excess)			Production casing5505 / 5359 4-1/2" Cemented with Tail 1562 sx, 14.0 ppg TXI, 1.21 ft³/sk

Well Name	Well Number	ELEV_KB (TVDSS)	MOLINA (MD)	ATWELL GULCH (MD)	MSVRD (MD)	WLLMS_FRK (MD)	TOP_GAS_CONTINUOUS (MD)	COAL_RIDGE (MD)	TOP_GAS_2500 UNITS
Twin Creek	12-5A1	6167	107	546	2405	3004	3956	5425	N/A
Twin Creek	12-3D1	6167	169	632	2749	3448	4265	5847	5523' MD
Twin Creek	12-5D1	6167	88	514	2355	2948	3756	5334	N/A
Twin Creek	12-6D1	6167	100	527	2309	2889	3791	5298	N/A
Twin Creek	12-6C1	6167	62	464	2262	2802	3661	5185	N/A
Twin Creek	12-4D1	6167	177	635	2754	3505	4208	5823	*See note below (4133' MD)
Twin Creek	12-3D2	6167	149	601	2630	3302	4087	5692	**See note below (3984' MD)
Twin Creek	12-4A1	6167	219	684	3194	3867	4602	6044	N/A
Twin Creek	12-6A1	6167	118	557	2557	3180	3964	5536	3866' MD (2484' TVDSS)
Twin Creek	12-5A2	6167	142	590	2501	3097	3934	5561	*See note below (3940' MD)

Well Name	Well Number	TOP_GAS_2500 UNITS
Twin Creek	12-5A1	N/A
Twin Creek	12-3D1	5523' MD
Twin Creek	12-5D1	N/A
Twin Creek	12-6D1	N/A
Twin Creek	12-6C1	N/A
Twin Creek	12-4D1	*See note below (4133' MD)
Twin Creek	12-3D2	**See note below (3984' MD)
Twin Creek	12-4A1	N/A
Twin Creek	12-6A1	3866' MD (2484' TVDSS)
Twin Creek	12-5A2	*See note below (3940' MD)

Numbers are measured depth (MD) unless otherwise marked

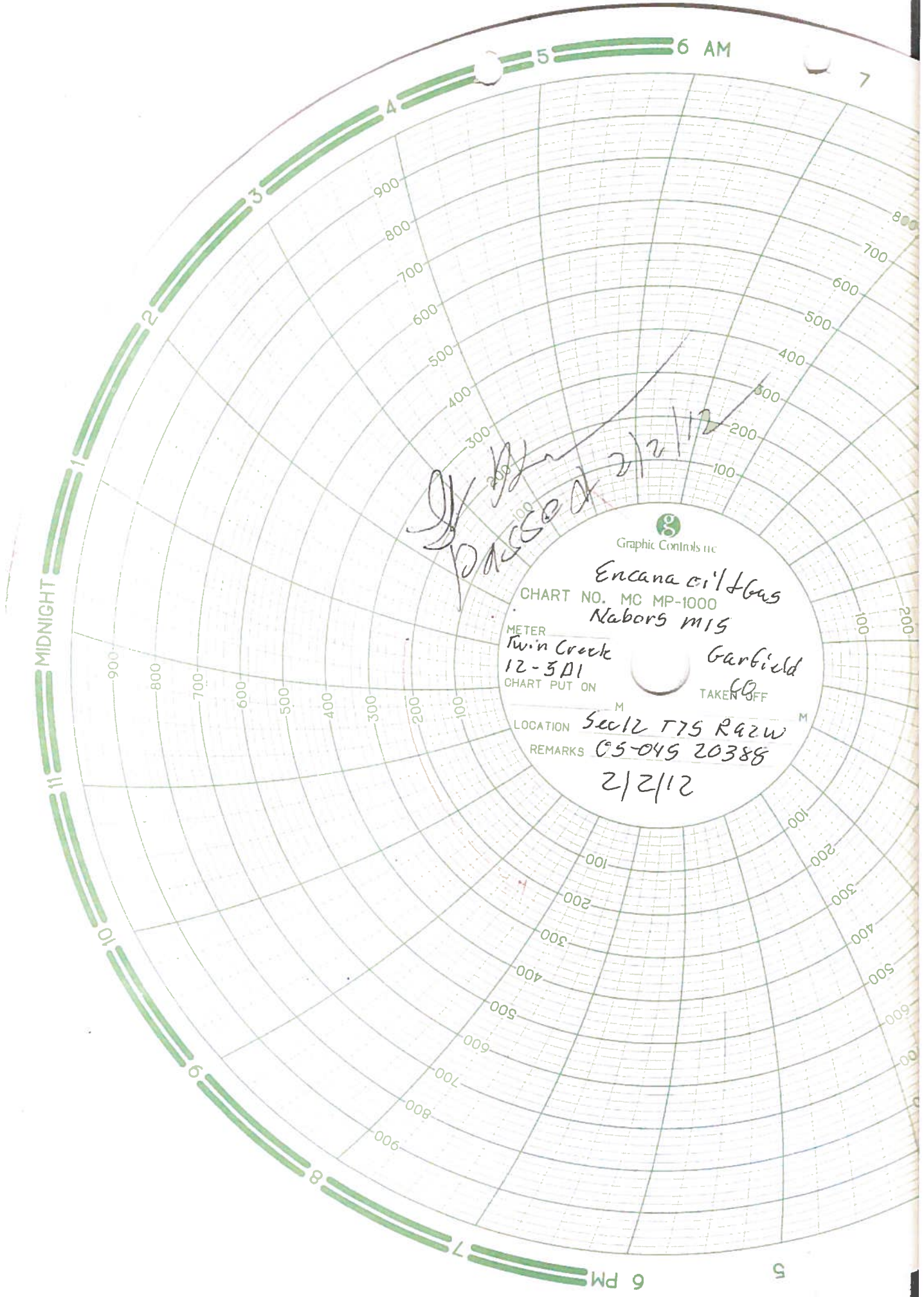
TOP_GAS_2500_UNITS- top marking shallowest occurrence of 2500 units of total gas from total gas curve collected during drilling of well.

N/A- Notation used when no point within well had >2500 units of total gas.

* Total gas curve data poor quality or data collection issue for well. As neighbouring 7 wells with quality data had "TOP_GAS_2500_UNITS" top deeper than 2484' TVDSS this TVDSS was used for these 2 wells to calculate corresponding MD. This MD in each well is a safe estimate where ECA is highly confident TOP_GAS_2500_UNITS would fall below; especially given fact that many wells on this pad did not reach 2500 units at any point in drilling.

** Total gas curve had spikes at 2497', 2747', and 5395' that are believed to be false readings. First, all other depths on this gas curve had a range of 0 to 1300 total gas units. Regarding false spikes at 2497' and 2747', none of the 7 wells on this pad with quality total gas data had total gas readings above 2500 units at this stratigraphic interval or above. In fact, no readings above 2500 units are found in these 7 wells in the 1200' below this stratigraphic horizon.

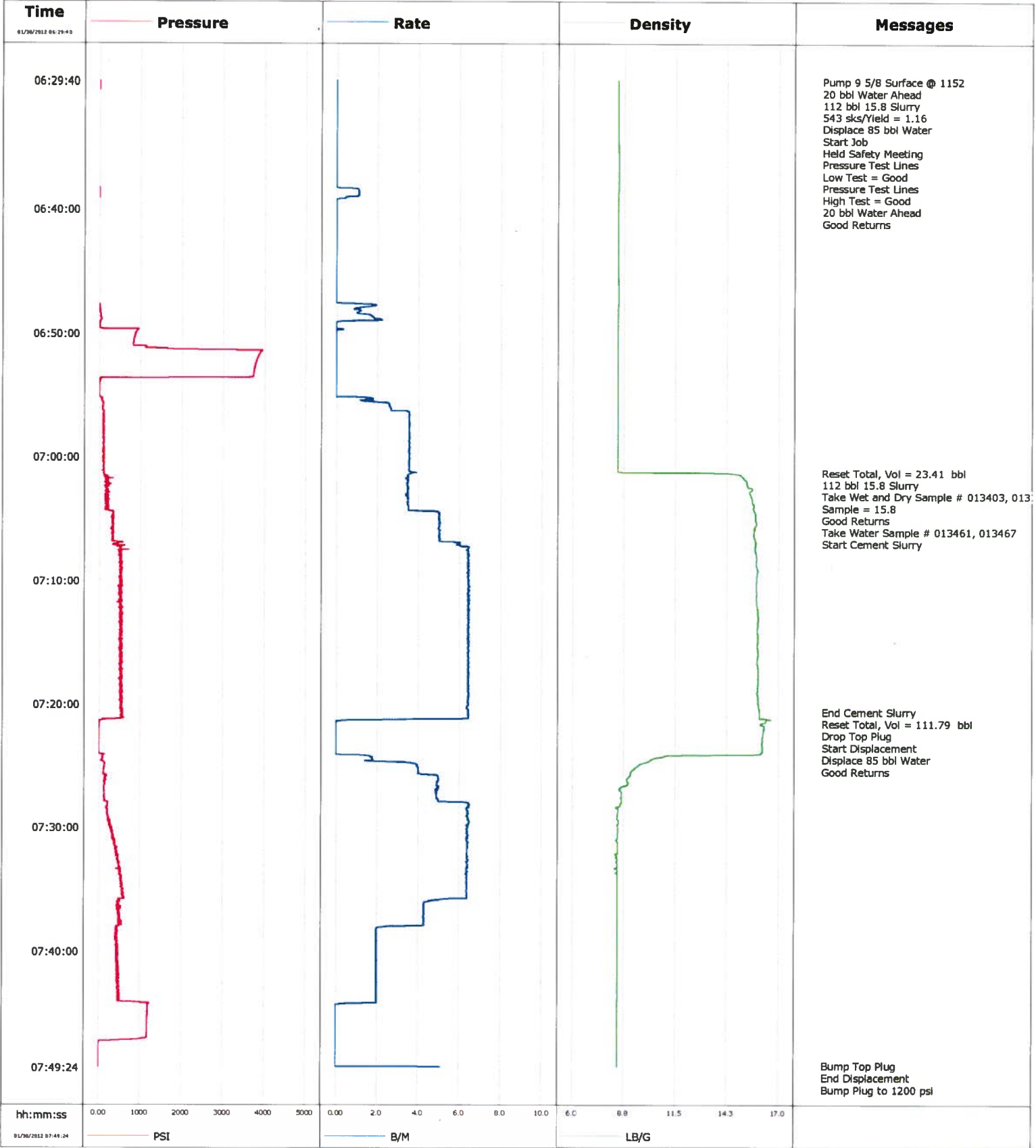
Analysis by: Matthew Boyce, Geologist, South Piceance Team, Encana Oil and Gas (USA) Inc., 370 17th Street, Suite 1700



Handwritten: Passed 2/2/12

Graphic Controls Inc
Encana Oil & Gas
CHART NO. MC MP-1000
Nabors M15
Garfield
Twin Creek
12-301
CHART PUT ON
TAKEN OFF
LOCATION Sec 12 T7S R42W
REMARKS C5-045 20388
2/2/12

Well	TWIN CREEK 12-5D1	Client	ENCANA
Field	TWIN CREEK	SIR No.	
Engineer	Tom Leduc	Job Type	9 5/8 SURFACE
Country	United States	Job Date	01-29-2012



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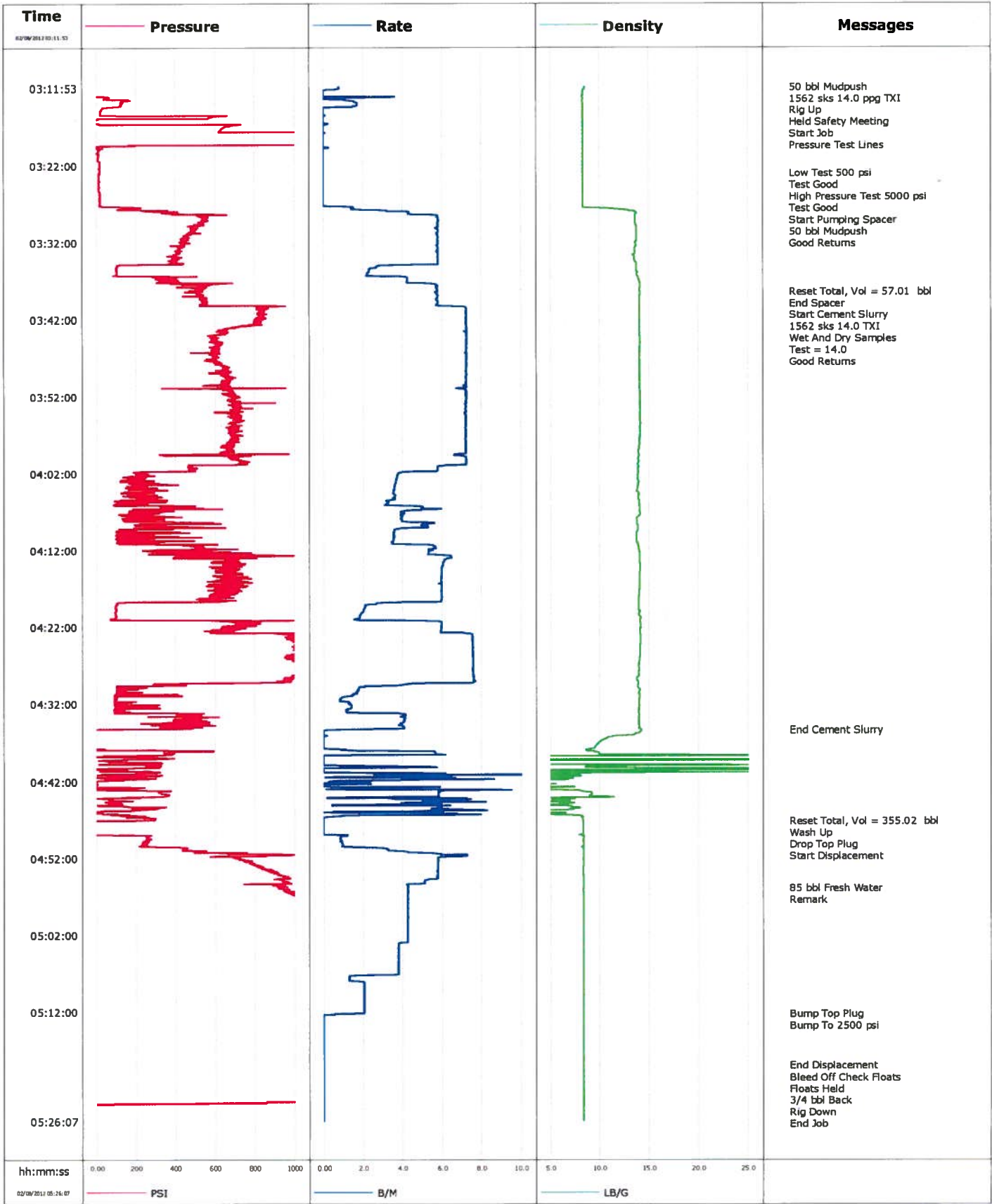
Well			Field	Job Start	Customer	Job Number
TWIN CREEK 12-5D1 12-5D1			TWIN CREEK	Jan/29/2012	ENCANA	C0BA-00070
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/30/2012	06:31:20	-1	0.0	8.43	0.0	
01/30/2012	06:33:00	-1	0.0	8.43	0.0	
01/30/2012	06:34:40	-1	0.0	8.43	0.0	
01/30/2012	06:36:20	-1	0.0	8.44	0.0	
01/30/2012	06:38:00	-1	0.0	8.44	0.0	
01/30/2012	06:39:40	-0	0.0	8.43	0.8	
01/30/2012	06:41:20	-1	0.0	8.43	0.8	
01/30/2012	06:43:00	-1	0.0	8.43	0.8	
01/30/2012	06:44:40	-1	0.0	8.43	0.8	
01/30/2012	06:46:20	-1	0.0	8.44	0.8	
01/30/2012	06:48:00	20	1.0	8.43	1.4	
01/30/2012	06:49:40	957	0.3	8.43	2.9	
01/30/2012	06:51:20	1928	0.0	8.43	3.0	
01/30/2012	06:53:00	3761	0.0	8.43	3.0	
01/30/2012	06:54:40	3	0.0	8.43	3.0	
01/30/2012	06:56:20	124	3.5	8.43	5.7	
01/30/2012	06:58:00	121	3.6	8.43	11.6	
01/30/2012	06:59:40	104	3.5	8.43	17.5	
01/30/2012	07:01:19					Reset Total, Vol = 23.41 bbl
01/30/2012	07:01:19	114	3.7	10.30	23.4	
01/30/2012	07:01:20	121	3.7	10.30	23.5	
01/30/2012	07:01:26					112 bbl 15.8 Slurry
01/30/2012	07:01:26					Take Wet and Dry Sample # 013403, 013380
01/30/2012	07:01:26					Sample = 15.8
01/30/2012	07:01:26					Good Returns
01/30/2012	07:01:26					Take Water Sample # 013461, 013467
01/30/2012	07:01:26	136	3.6	14.60	23.8	
01/30/2012	07:03:00	174	3.5	15.46	29.3	
01/30/2012	07:03:37					Start Cement Slurry
01/30/2012	07:03:37	225	3.5	15.60	31.5	
01/30/2012	07:04:40	353	5.0	15.77	35.5	
01/30/2012	07:06:20	328	5.0	15.68	43.8	
01/30/2012	07:08:00	556	6.4	15.82	53.6	
01/30/2012	07:09:40	525	6.4	15.85	64.3	
01/30/2012	07:11:20	549	6.4	15.81	75.0	
01/30/2012	07:13:00	504	6.4	15.91	85.8	
01/30/2012	07:14:40	545	6.4	15.89	96.5	
01/30/2012	07:16:20	534	6.4	15.88	107.2	
01/30/2012	07:18:00	549	6.4	15.91	118.0	
01/30/2012	07:19:40	544	6.5	15.92	128.7	
01/30/2012	07:20:39					End Cement Slurry
01/30/2012	07:20:39	537	6.4	15.98	135.0	
01/30/2012	07:20:41					Reset Total, Vol = 111.79 bbl
01/30/2012	07:20:41	587	6.4	15.99	135.2	
01/30/2012	07:20:42					Drop Top Plug
01/30/2012	07:20:42	580	6.4	15.99	135.3	
01/30/2012	07:20:43					Start Displacement
01/30/2012	07:20:43					Displace 85 bbl Water
01/30/2012	07:20:43	580	6.4	15.99	135.4	
01/30/2012	07:20:44					Good Returns
01/30/2012	07:20:44	572	6.4	15.99	135.5	
01/30/2012	07:21:20	29	1.8	16.61	139.1	
01/30/2012	07:23:00	5	0.0	16.14	139.1	
01/30/2012	07:24:40	113	1.6	10.13	140.0	

Well			Field		Job Start		Customer		Job Number		
TWIN CREEK 12-5D1 12-5D1			TWIN CREEK		Jan/29/2012		ENCANA		C0BA-00070		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
01/30/2012	07:28:00	229	6.3	8.63	155.3						
01/30/2012	07:29:40	268	6.5	8.47	166.0						
01/30/2012	07:31:20	379	6.4	8.44	176.7						
01/30/2012	07:33:00	499	6.4	8.42	187.4						
01/30/2012	07:34:40	562	6.4	8.42	198.0						
01/30/2012	07:36:20	452	4.3	8.42	207.6						
01/30/2012	07:38:00	437	3.1	8.42	214.7						
01/30/2012	07:39:40	435	2.0	8.43	218.1						
01/30/2012	07:41:20	472	2.0	8.43	221.4						
01/30/2012	07:43:00	514	2.0	8.43	224.8						
01/30/2012	07:44:40	1197	0.0	8.43	227.3						
01/30/2012	07:46:20	1183	0.0	8.43	227.3						
01/30/2012	07:48:00	5	0.0	8.43	227.3						
01/30/2012	07:49:16					Bump Top Plug					
01/30/2012	07:49:16	2	0.0	8.43	227.3						
01/30/2012	07:49:17					End Displacement					
01/30/2012	07:49:17	2	0.0	8.43	227.3						
01/30/2012	07:49:18					Bump Plug to 1200 psi					
01/30/2012	07:49:18	2	0.0	8.43	227.3						
01/30/2012	07:49:19					Bled Off Pressure					
01/30/2012	07:49:19					0.5 bbl Back					
01/30/2012	07:49:19					Floats Held					
01/30/2012	07:49:19					40 bbl Cement to Surface					
01/30/2012	07:49:19	2	0.0	8.43	227.3						
01/30/2012	07:49:20					Rig Down					
01/30/2012	07:49:20	2	0.0	8.43	227.3						
01/30/2012	07:49:22					End Job					

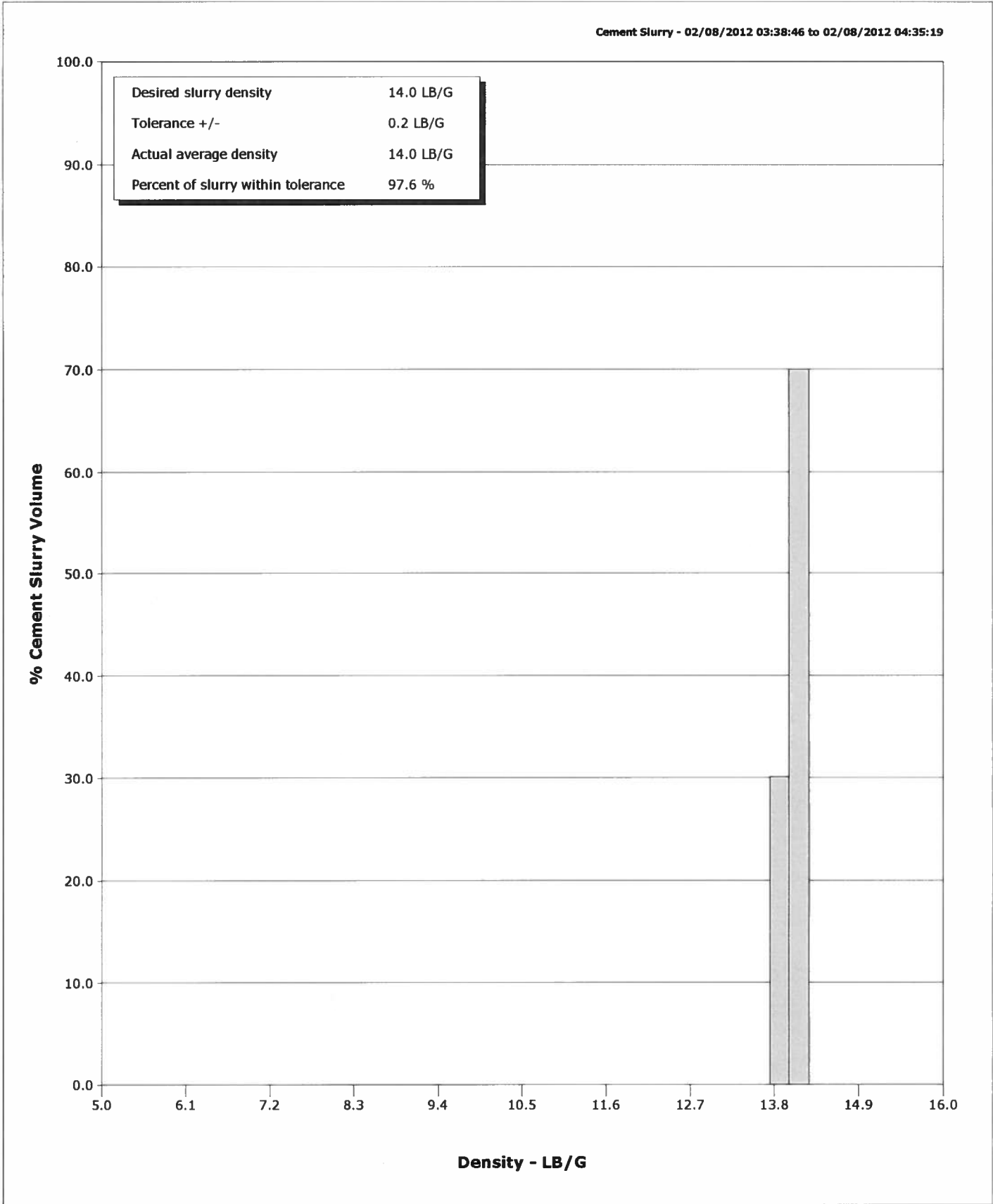
Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.6	N2	Mud 0.0	Maximum Rate 6.5	Total Slurry 227.3	Mud 0.0	Spacer 31.4	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3955	Final 0	Average 497	Bump Plug to 1000	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume 112.0 bbl	Displacement 92.0 bbl	Mix Water Temp 82 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume	
					Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative ROBERT TATE			Schlumberger Supervisor Tom Leduc			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

Well	Twin Creek 12-5D1	Client	Encana
Field	Mamm Creek	SIR No.	BTX1-00080
Engineer	Jordan Moreland	Job Type	4 1/2 Production
Country	United States	Job Date	02-08-2012



Well	Twin Creek 12-5D1	Client	Encana
Field	Mamm Creek	SIR No.	BTX1-00080
Engineer	Jordan Moreland	Job Type	4 1/2 Production
Country	United States	Job Date	02-08-2012



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Well			Field	Job Start		Customer	Job Number
Twin Creek 12-5D1			Mamm Creek	Feb/08/2012		Encana	BTX1-00080
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/08/2012	03:38:27	539	5.8	14.07	57.0	Reset Total, Vol = 57.01 bbl	
02/08/2012	03:38:39	521	5.7	14.07	58.2	End Spacer	
02/08/2012	03:38:46	540	5.7	14.08	58.8	Start Cement Slurry	
02/08/2012	03:38:48	508	5.8	14.08	59.0	1562 sks 14.0 TXI	
02/08/2012	03:38:49	525	5.8	14.07	59.1	Test = 14.0	
02/08/2012	03:39:53	556	5.8	14.05	65.3		
02/08/2012	03:41:53	856	7.2	14.05	79.1		
02/08/2012	03:43:53	641	7.3	14.05	93.6		
02/08/2012	03:45:53	600	7.3	14.06	108.1		
02/08/2012	03:46:24	589	7.2	14.06	111.8	Good Returns	
02/08/2012	03:47:53	603	7.3	14.06	122.6		
02/08/2012	03:49:53	678	7.2	14.06	137.1		
02/08/2012	03:51:53	696	7.2	14.08	151.5		
02/08/2012	03:53:53	728	7.2	14.08	165.9		
02/08/2012	03:55:53	699	7.2	14.12	180.4		
02/08/2012	03:57:53	670	7.2	14.05	194.8		
02/08/2012	03:59:53	671	7.2	13.96	209.1		
02/08/2012	04:01:53	218	4.0	13.89	222.1		
02/08/2012	04:03:53	228	3.6	13.87	229.5		
02/08/2012	04:05:53	114	3.3	13.98	236.6		
02/08/2012	04:07:53	179	3.9	13.79	245.0		
02/08/2012	04:09:53	294	3.6	13.76	253.7		
02/08/2012	04:11:53	717	5.4	13.97	262.0		
02/08/2012	04:13:53	690	6.1	14.08	273.9		
02/08/2012	04:15:53	722	6.0	14.05	285.9		
02/08/2012	04:17:53	603	6.0	13.99	297.8		
02/08/2012	04:19:53	103	2.0	14.01	305.8		
02/08/2012	04:21:53	734	6.0	14.16	312.2		
02/08/2012	04:23:53	1001	7.5	14.13	325.8		
02/08/2012	04:25:53	993	7.6	14.07	340.9		
02/08/2012	04:27:53	1092	7.6	13.96	356.1		
02/08/2012	04:29:53	112	1.9	13.85	369.2		
02/08/2012	04:31:53	94	1.3	14.00	372.0		
02/08/2012	04:33:53	494	4.1	13.96	376.5		
02/08/2012	04:35:19	-13	1.8	14.12	382.2	End Cement Slurry	
02/08/2012	04:35:53	-13	0.0	13.61	382.3		
02/08/2012	04:37:53	45	1.0	8.94	382.3		
02/08/2012	04:39:53	287	0.0	23.19	385.6		
02/08/2012	04:41:53	76	2.5	3.51	392.3		
02/08/2012	04:43:53	345	5.8	8.96	399.1		
02/08/2012	04:45:53	22	4.9	1.88	409.5		
02/08/2012	04:47:10	-21	0.0	8.33	412.0	Reset Total, Vol = 355.02 bbl	
02/08/2012	04:47:12	-28	0.0	8.33	412.0	Wash Up	
02/08/2012	04:47:14	-26	0.0	8.32	412.0	Drop Top Plug	
02/08/2012	04:47:15	-26	0.0	8.32	412.0	Start Displacement	
02/08/2012	04:47:53	-24	0.0	8.32	412.0		
02/08/2012	04:49:53	253	0.8	8.33	412.8		
02/08/2012	04:51:53	697	5.9	8.35	419.6		
02/08/2012	04:53:53	892	5.8	8.33	431.2		
02/08/2012	04:55:52	938	4.3	8.33	441.6	85 bbl Fresh Water	
02/08/2012	04:55:53	938	4.3	8.34	441.6		
02/08/2012	04:57:53	1082	4.3	8.37	450.2		
02/08/2012	04:59:53	1231	4.3	8.37	458.7		
02/08/2012	05:01:53	1366	4.3	8.37	467.2		

Well			Field	Job Start		Customer	Job Number
Twin Creek 12-5D1			Mamm Creek	Feb/08/2012		Encana	BTX1-00080
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BSL	Message	
02/08/2012	05:05:53	1627	3.8	8.37	483.0		
02/08/2012	05:07:53	1566	1.3	8.37	489.1		
02/08/2012	05:09:53	1678	2.0	8.37	493.0		
02/08/2012	05:11:53	1705	2.0	8.37	497.1		
02/08/2012	05:12:18	2616	1.0	8.37	498.0	Bump Top Plug	
02/08/2012	05:12:21	2541	0.6	8.37	498.0	Bump To 2500 psi	
02/08/2012	05:13:53	2574	0.0	8.38	498.0		
02/08/2012	05:15:53	2594	0.0	8.38	498.0		
02/08/2012	05:17:53	2615	0.0	8.38	498.0		
02/08/2012	05:18:56	2624	0.0	8.38	498.0	End Displacement	
02/08/2012	05:18:58	2625	0.0	8.38	498.0	Bleed Off Check Floats	
02/08/2012	05:18:59	2625	0.0	8.38	498.0	Floats Held	
02/08/2012	05:19:53	2633	0.0	8.38	498.0		
02/08/2012	05:21:53	2649	0.0	8.38	498.0		
02/08/2012	05:23:53	465	0.0	8.38	498.0		
02/08/2012	05:24:33	-19	0.0	8.38	498.0	Rig Down	
02/08/2012	05:24:48	-19	0.0	8.38	498.0	End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 4.9	N2	Mud	Maximum Rate 14.8		Total Slurry 498.0	Mud 0.0	Spacer 58.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 5271	Final -17	Average 841	Bump Plug to	Breakdown	Type		Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl	Displacement 85.9 bbl	Mix Water Temp 80 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Richard Mitchell			Schlumberger Supervisor Jordan Moreland			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
						-		-	

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 01/29/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 1
Spud Date : Days From Spud : 0		Depth At 06:00 : 276	
Morning Operations : Directional Drilling @ 276'		Estimated Total Depth : 5347	
		Remarks :	
Time To	Description	1570 Days without a Lost Time incident	
9:00 PM	Pre job safety meeting on walking the rig to Twin Creek 12-5D1	13 Days without a Medical Aid or Restricted Work incident	
10:30 PM	MIRU - Walk Rig Over Well - Rig Up Dredge Pump - and Lines - Center UP & Level Rig	119 Days without a Recordable Spill	
		379 Days without a Reportable Quantity Spill	
		2035 gals fuel used past 24hrs	
		10782 gals fuel on Location,	
11:00 PM	Service Rig - Top Drive & Drops Inspection	Rotating Hours on HWDP =117 Hrs	
11:30 PM	Pre-Job Safety Meeting - Tripping BHA	Total Fluid Losses Last 24 hrs =0 bbls seepage	
1:30 AM	Drill 12 1/4" Hole F/ 62' T/197' =135' in 2 hrs @ 68.5 ft/hr NOTE: Spud Surf. @ 01:30 AM 1/29/2012	4 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	
		Raz Parras On Location as Night Supervisor	
		Pre Spud Notification for the Twin Creek 12-5D1 made 1-28-12	
2:00 AM	Circ & Cond Hole To TOO H for Directional tools	Post Spud & Surf Csg / Cement Notification for 12-5D1 Made 1-29-12	
3:00 AM	TOOH - Laying Down Reamer Assembly		
3:30 AM	Pre-Job Safety Meeting - Tripping Directional Tools		
4:30 AM	Turn on MWD Tool - TIH w/ Directional Tools to 197'		
6:00 AM	Directional Drill 12 1/4" Hole F/ 197' T/276' =79' in 1.5 hrs @52.7 ft/hr		

Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 12/21/2009
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 0
Spud Date : Days From Spud : -769		Depth At 06:00 :	
Morning Operations :		Estimated Total Depth : 5347	
		Remarks :	
Time To	Description		

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)	API # : 05045203880000	Operations Date : 01/30/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM	Area : Mamm Creek	Report # : 2
Spud Date :	Days From Spud : 1	Depth At 06:00 : 1170
Morning Operations : Cement 9 5/8" Surf Casing		Estimated Total Depth : 5347

Time To	Description	Remarks :
6:30 AM	Service Rig	1571 Days without a Lost Time incident
8:00 AM	Directional Drill 12 1/4" Hole F/ 276' T/ 404' = 128' in 1.5 hrs @ 85.3 ft/hr - Motor Locking Up	14 Days without a Medical Aid or Restricted Work incident
8:30 AM	Pre- Job Safety Meeting - Tripping Pipe - Laying Down Directional Tools (Mud Motor)	120 Days without a Recordable Spill
10:30 AM	TOOH for new Mud Motor	380 Days without a Reportable Quantity Spill
11:00 AM	TIH w/ New Mud Motor	1882 gals fuel used past 24hrs
5:00 PM	Directional Drill 12 1/4" Hole F/ 404' T/ 1170' MD = 766' in 6 hrs @ 127.7 ft/hr	8900 gals fuel on Location,
5:30 PM	Circ & Cond Hole To Run Casing	Rotating Hours on HWDP =124.5 Hrs
6:00 PM	TOOH - laying dwn DP	Total Fluid Losses Last 24 hrs =0 bbls seepage
6:30 PM	Service rig top drive,top drive inpection,grease blocks,black jack,top drive,check service loop,hoist lines,brakes,parameters.	4 Mud Loggers on Location
7:30 PM	L/D/D/P 34 joints of HWDP.	1 Mud Engineer on Location - Mike Lindell
9:30 PM	L/D BHA 8"collars,monels,gap sub,shock sub,break bit,L/D mud motor,stand of HWDP,XO,lifting sub,12.25 PDC bit.	Raz Parras On Location as Night Supervisor
10:00 PM	Pre Job safety with Franks casing crew on running 9 5/8 surface casing.	Pre Spud Notification for the Twin Creek 12-5D1 made 1-28-12
10:30 PM	R/U Frank's casing tools.	Post Spud & Surf Csg / Cement Notification for 12-5D1 Made 1-29-12
5:30 AM	Run 25 joint of surface casing 9.625, 36#, J55, LT&C,13 bow spring centralizers from 1103' to 73',float shoe set@ 1149' / 1123' TVD,float collars set@1101',wash from 628' to 1149'	
6:00 AM	Circ & Cond Hole For Cement - Rig Up Schlumberger While Circulating	

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 01/31/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 3
Spud Date : Days From Spud : 2		Depth At 06:00 : 1170	
Morning Operations : Testing BOPE		Estimated Total Depth : 5347	
		Remarks :	
Time To	Description	1572 Days without a Lost Time incident	
6:30 AM	Pre-JKob Safety Meeting - Cementing Ops	15 Days without a Medical Aid or Restricted Work incident	
8:30 AM	MIRU Schlumberger - Test Lines to 500/3000psi - Pumped 20bbls H2O Spacer + 112bbls, 543sx, 630cu/ft "G" at 15.8ppg, 1.16Yld, 5.114 gl/sk Mix - Displaced w/ 85bbls H2O - Final Circ Press = 512psi - Bumped Plug = 1183psi - Full Returns - Circ 40bbls Cement to Surf. - Float Held - CIP @ 7:49 AM 1-30-2012 - Rig Down Schlumberger	121 Days without a Recordable Spill	
		381 Days without a Reportable Quantity Spill	
		1445 gals fuel used past 24hrs	
		7455 gals fuel on Location,	
		Rotating Hours on HWDP = 0 Hrs	
		Total Fluid Losses Last 24 hrs =0 bbls seepage	
		4 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	
		BOP Test Notification for the Twin Creek 12-5D1 made 1-31-12	
		FIT Test Notification for 12-5D1 Made 1-31-12	
9:00 AM	Rig Down Landing Joint - Dredge Pump - Reset Master Bushing - Replace Floor Mats		
8:00 PM	Nipple Up BOP's _ Replace Bladder in annular - Rebuild Drlg Spool on Rotating Head - Install Drlg Spool Between Wellhead & BOP's		
10:00 PM	Ran CBL Log - Float Collar Set At 1101' - Logs went to 1100' to G.L.		
1:00 AM	Testing BOPE - Low & High Test As Follows: 250psi/5000psi %/10 Min Test as Follows:IBOP, Outside KillLine, KillLine Check Valve, INsideChokeline Valve, Primary Valves, Floor Valves 250/5000psi - Choke Manifold Valves 250/5000psi - 5/10 MIN - OK		
6:00 AM	Test All Secondary Valves, Saver Sub, Dart Valve, Inside KillLine VAlve, to 250/5000psi for 5/10 min - AI IOK - Test 2 Manual Chokes & Supper Choke to 1500psi 5 Min - OK		

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/02/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 5
Spud Date : Days From Spud : 4			Depth At 06:00 : 1199
Morning Operations : Circ & Condition Hole to Run FIT			Estimated Total Depth : 5347
Remarks :			
Time To	Description	1574 Days without a Lost Time incident	
6:30 AM	Service Top Drive	17 Days without a Medical Aid or Restricted Work incident	
6:00 PM	Pick Up Drill Pipe & Rack Back, Make up 50% torque and Break out & M/U 100% Torque, Functioned Rams	12 Days without a Recordable Spill	
		383 Days without a Reportable Quantity Spill	
		1250 gals fuel used past 24hrs	
6:30 PM	Service Top Drive	10991 gals fuel on Location,	
9:00 PM	Change oil in top drive, Do Drop Inspection From Derrick to Ground, De-isolate shakers	Rotating Hours on HWDP = 0 Hrs	
		Total Fluid Losses Last 24 hrs =0 bbls seepage	
		4 Mud Loggers on Location	
12:00 AM	Pick Up Bit & Cathedral Directional Assy	1 Mud Engineer on Location - Mike Lindell	
3:00 AM	P/U HWDP - 30 Joints	BOP Test Notification for the Twin Creek 12-5D1 made 1-31-12	
4:00 AM	Displace Water in Casing - Circ through Surface Lines at Full Pump Rate - Flowline Chokeline & Manifold - Gas Buster to Shaker - Fix Leak in Flow Line - Change Out Shaker Screens	FIT Test Notification for 12-5D1 Made 1-31-12	
		Supervisor Robert Tate on Location	
5:00 AM	Tag Cement At 1101' - Drill Cement & Float Equipment & Shoe - wash & Ream to 1170'		
6:00 AM	Drilling 8 3/4" Hole F/ 1170' T/ 1199' - 22' in 1 hr @ 22 ft/hr		

Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/01/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 4
Spud Date : Days From Spud : 3			Depth At 06:00 : 1170
Morning Operations : Making Up New DP - Making Up Stands			Estimated Total Depth : 5347
Remarks :			
Time To	Description	1573 Days without a Lost Time incident	
2:00 PM	Finish Testing BOPE - Annular to 250/2500psi 5/10 Min - Pipe rams, Blind Rams, Inside Choke Line Valve , HCR Valve, Outside Kill Line Valve, Kill Line Check Valve, Choke Line to 250/5000psi 5/10 Min - Test Casing to 1500psi 30 Min ALL -OK	16 Days without a Medical Aid or Restricted Work incident	
		11 Days without a Recordable Spill	
		382 Days without a Reportable Quantity Spill	
		2213 gals fuel used past 24hrs	
6:00 PM	Rig Up Flow Line, Fill Up Lines, Rotating Head & Spool, Flowline Stand	12242 gals fuel on Location,	
		Rotating Hours on HWDP = 0 Hrs	
		Total Fluid Losses Last 24 hrs =0 bbls seepage	
10:30 PM	Completeing Nipple Up - Snub off BOP Stack - Install Cellar covers - Finish Flowline - Rack DP & Strap	4 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	
11:00 PM	Service Rig - Drops Inspection	BOP Test Notification for the Twin Creek 12-5D1 made 1-31-12	
6:00 AM	Pick Up DP - Make UP Stands - Breaking In DP Tool Joints As Recommended By Brinkerhoff - Make Up each Joint @ Half Torque - Break Out - Clean - Inspect - Redope & Remake Connection On Every Joint- 16 tands Made Up @ Report Time	FIT Test Notification for 12-5D1 Made 1-31-12	

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/04/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 7
Spud Date : Days From Spud : 6		Depth At 06:00 : 3744	
Morning Operations : Drilling		Estimated Total Depth : 5347	
		Remarks :	
Time To	Description	1576 Days without a Lost Time incident	
7:30 AM	Rotary Drill & Slide f/ 2928' to 3023' SPR #1 20/170, 30/240, 40/310 @ 2928 SPR#2 20/170, 30/235, 40/310 w/ 10.4ppg	19 Days without a Medical Aid or Restricted Work incident	
8:00 AM	Service Top Drive	14 Days without a Recordable Spill	
1:30 PM	Rotary Drill & Slide f/ 3023' to 3404'	385 Days without a Reportable Quantity Spill	
3:00 PM	Circ & Cond mud, Take Survey, Pump 2 x 20bbl sweeps, Circ out to clean shakers, 30min Flow Ck - no flow, Pump Pill	2246 gals fuel used past 24hrs	
5:30 PM	POOH 25stds DP & 10 stds HWDP, Pull Rotating Rubber, Monitor Speed & Returns	10154 gals fuel on Location,	
6:00 PM	Pull Directional assy (Bladestone on Location Training Crew on Well Control coming on tour)	Rotating Hours on HWDP = 33 Hrs	
6:30 AM	Safety Stand Down, PreTour Meeting & Discuss Crew Duties & operations	Total Fluid Losses Last 24 hrs =0 bbls seepage	
7:30 PM	Change out Directional Batteries, Program & Orientate tool face & Check Bit, (Bladestone on location to train Off Tour Crew)	4 Mud Loggers on Location	
11:30 PM	RIH to 3404', Monitor Speed & returns	1 Mud Engineer on Location - Mike Lindell	
12:30 AM	Circ BTM's Up & Cond Mud to 11ppg , (152 units)	Bladeston on location to train 2 Crews	
1:00 AM	Service Rig		
6:00 AM	Rotary Drill & Slide f/ 3404' to		

Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/03/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 6
Spud Date : Days From Spud : 5		Depth At 06:00 : 2928	
Morning Operations : Drlg Ahead		Estimated Total Depth : 5347	
		Remarks :	
Time To	Description	1575 Days without a Lost Time incident	
7:30 AM	Circ & Cond Mud For FIT Test	18 Days without a Medical Aid or Restricted Work incident	
9:00 AM	Perform FIT @ 1199 (50' below shoe@ 1149) with State Present, test to EMW=13ppg, Held 226psi w/ 9.3ppg for 30min - Lost 10psi in 15 min Test = Pass as Per Shaun Kellerby w/ COGCC	13 Days without a Recordable Spill	
10:30 AM	Rotary Drill & Slide f/ 1199' to 1310' SPR #1 20/130, 30/170, 40/230, @1215' SPR #2 20/120, 30/170, 40/230 w/ 9.3ppg	384 Days without a Reportable Quantity Spill	
11:00 AM	Service Top Drive & Lift Assy	2092 gals fuel used past 24hrs	
6:00 PM	Rotary Drill & Slide f/ 1310' to 1977' SPR #1 20/140, 30/180, 40/240 @ 1685' SPR #2 20/140, 30/180, 40/240 w/9.4ppg	8900 gals fuel on Location,	
6:30 PM	Serv Rig	Rotating Hours on HWDP = 21 Hrs	
6:00 AM	Rotary Drill & Slide f/ 1977' to 2928', BOP Drill SPR #1 20/130, 30/182, 40/237 @ 2072' SPR #2 20/123, 30/172, 40/275, w/ 9.7ppg SPR #1 20/150, 30/208, 40/275 @ 2549 SPR #2 20/156, 30/211, 40/273,	Total Fluid Losses Last 24 hrs =0 bbls seepage	
		4 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	
		BOP Test Notification for the Twin Creek 12-5D1 made 1-31-12	
		FIT Test Notification for 12-5D1 Made 1-31-12	
		Supervisor Robert Tate on Location	

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/05/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 8
Spud Date : Days From Spud : 7		Depth At 06:00 : 4483	
Morning Operations : Drilling		Estimated Total Depth : 5347	
			Remarks :
Time To	Description	1577 Days without a Lost Time incident	
6:30 AM	Service Top Drive	20 Days without a Medical Aid or Restricted Work incident	
10:30 AM	Rotary Drill & Slide f/ 3744' to 4045 SPR#1 20/180, 30/240, 40/330 @ 3744 SPR#2 20/170, 30/240, 40/330 w/ 11.2ppg	15 Days without a Recordable Spill	
5:30 PM	Well Shut in @10:40, Gain 12.21bbl, SICP=120, SIDPP=100, MWT=11.2ppg, ICP=430psi, FCP= 345psi, KMW=11.7ppg, Kick Depth=4045'MD / 3899'TVD, (Mud in the hole was 11.2ppg but at time of kick we had already raised mud in pits to 11.5 Due to a 1600unit gas spike earlier and were just starting to pump this down. We shut in and calculated a kill of 11.7ppg so we raised Wt to this Wt & used the Wt & Wt method to Kill), (Max units=312) 30min Flow Ck=No Flow	386 Days without a Reportable Quantity Spill	
6:00 PM	Circ & Cond Mud, Blow Down Choke lines	1876 gals fuel used past 24hrs	
6:30 PM	Service Top Drive	8278 gals fuel on Location,	
7:00 PM	Rotary Drill & Slide f/ 4045' to 4074' SPR#1 20/175, 30/257, 40/377 @ 4068' SPR#2 20/172, 30/260, 40/376 w/11.9ppg	Rotating Hours on HWDP = 44.5 Hrs	
11:00 PM	Well Shut in, Gain 9bbl, MWT out=11.8ppg, SICP=160, SIDPP=100, ICP=537psi, FCP=537psi, Circ out Kick w/ Drillers method, No Flare, Maintained 11.9ppg During Kill, (Max units=133), 30min Flow Ck=no flow, Open well & blow down Choke lines	Total Fluid Losses Last 24 hrs =0 bbls seepage	
6:00 AM	Rotary Drill & Slide f/ 4074' to 4483' SPR#1 20/208, 30/294, 40/416 @4074' SPR#2 20/202, 30/290, 40/420	4 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/07/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 10
Spud Date :	Days From Spud : 9	Depth At 06:00 :	5532
Morning Operations : Log Hole		Estimated Total Depth :	5347
		Remarks :	
Time To	Description	1579 Days without a Lost Time incident	
1:00 PM	Rotary Drill & Slide f/ 5305' to 5532', BOP Drill, SPR#1 20/260, 30/341. 40/458 @ 5400 SPR#2 20/235, 30/339, 40/465 w/ 12.3ppg	22 Days without a Medical Aid or Restricted Work incident	
3:00 PM	Circ & Condition, Pump 2 HiVis Sweeps, Build Pill	17 Days without a Recordable Spill	
3:30 PM	Service Rig, Flow Check, Change Out Dies	388 Days without a Reportable Quantity Spill	
5:30 PM	Wiper Trip to 3309', Took 13.15bbl Act, 12 Calc	1920 gals fuel used past 24hrs	
6:00 PM	RIH to 3685	4326 gals fuel on Location,	
6:30 PM	Service Top Drive,	Rotating Hours on HWDP = 69.5 Hrs	
9:30 PM	RIH f/ 3685' to 5532', Fill Pipe @ 4500' Circ BTM's Up, Flow Ck, RIH to 5532', BOP Drill,	Total Fluid Losses Last 24 hrs =0 bbls seepage	
10:30 PM	Circ & Condition, Clean Hole, Max 100units gas	4 Mud Loggers on Location	
11:00 PM	Pre-Job Safey meeting w/ Crew	1 Mud Engineer on Location - Mike Lindell	
3:00 AM	POOH to Log, Flow Ck 1st 5 & every 10 Stds, 42bbl Act, 30bbl Calc		
4:00 AM	PJSM, Lay Out Directional BHA, Remove Bit		
4:30 AM	Remove Rotating Rubber, Install Lubricator Adaptor		
5:00 AM	PJSM w/ Crew & Loggers		
6:00 AM	Rig Up & Run open hole PEX Triple Combo Logs		

Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/06/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 9
Spud Date :	Days From Spud : 8	Depth At 06:00 :	5305
Morning Operations : Drill		Estimated Total Depth :	5347
		Remarks :	
Time To	Description	1578 Days without a Lost Time incident	
8:30 AM	Rotary Drill & Slide f/ 4483' to 4545'	21 Days without a Medical Aid or Restricted Work incident	
9:00 AM	Service Top Drive	16 Days without a Recordable Spill	
9:30 AM	Rotary Drill & Slide f/ 4545' to 4585', SPR#1 20/200, 30/300, 40/415 @4545 w/12.1	387 Days without a Reportable Quantity Spill	
10:30 AM	Shut in Well @ 9:35, SICP=95, SIDPP=78, Wt=12.1ppg, Gain= 8bbl, Flow Ck Well=No Flow, Gain Continued in Pits, Found Gain due to Valve from BOS Unit opened, Opened well	2032 gals fuel used past 24hrs	
12:30 PM	Rotary Drill & Slide f/ 4545' to 4651'	6246 gals fuel on Location,	
4:00 PM	Shut in Well @ 4651'@ 12:42, Gain 15.47BBL, SICP=149, Check Fow, Shut in, SICP=130, SIDPP=90, WT12.1, Raise Wt to 12.3kmw, ICP=505, FCP=475psi, Flow Ck=Static, Open Well	Rotating Hours on HWDP = 62.5 Hrs	
5:30 PM	Rotary Drill f/ 4651' to 4734'	Total Fluid Losses Last 24 hrs =0 bbls seepage	
6:00 PM	Blow Down Choke Lines	4 Mud Loggers on Location	
6:30 PM	Service Top Drive	1 Mud Engineer on Location - Mike Lindell	
6:00 AM	Rotary Drill & Slide f/ 4734' to 5305' SPR#1 20/186, 30/278, 40/394 @4826' SPR#2 20/181, 30/277, 40/407 w/12.3		

REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)	API # : 05045203880000	Operations Date : 02/08/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM	Area : Mamm Creek	Report # : 11
Spud Date :	Days From Spud : 10	Depth At 06:00 : 5532
Morning Operations : Wait 12 hrs to Run CBL/RTS L OG		Estimated Total Depth : 5347

Time To	Description	Remarks :
6:30 AM	PJSM w/ Schlumberger Logging & Rig Crews	1580 Days without a Lost Time incident
11:30 AM	Rig Up & Run Triple Combo Log F/ 5528' to Surf CSG	23 Days without a Medical Aid or Restricted Work incident
12:00 PM	Remove Wear Bushing	18 Days without a Recordable Spill
12:30 PM	PJSM w/ Franks CSG Crew & Rig Crew	389 Days without a Reportable Quantity Spill
1:00 PM	Rig Up CSG Crew	1519 gals fuel used past 24hrs
5:30 PM	Bakerlock Shoe, Jt#1& Float,Run Jts#2 to # 70,	9317 gals fuel on Location,
6:00 PM	Install Rotating Rubber & Circulate Btm's Up	Rotating Hours on HWDP = 69.5 Hrs
6:30 PM	Service Top Drive	Total Fluid Losses Last 24 hrs =0 bbls seepage
7:00 PM	PJSM w/ Franks & Rig Crews	4 Mud Loggers on Location
9:30 PM	Run Jt#71 to # 124 of 4.5" 11.6# S80 Butt Csg, 3800 Make up, Marker Jts @ 4471' & 3441', Shoe @ 5505', Float @ 5458', Ran 67% Standoff w/ Centralizers f/ 5505 to 770', M/U CSG Hanger & Land w/ G.E., Held BOP Drill w/ Franks & Crew	1 Mud Engineer on Location - Mike Lindell
12:30 AM	Circulate & Cond, Wait on Schlumberger to arrive at rig. They were to be on location @ 21:30 and arrived at 1am	
1:00 AM	Rig Down CSG Crew	
2:00 AM	Circ & Cond Hole, Rig up CMT Lines	
5:30 AM	Hold PJSM w/ CMT & Rig Crew, R/U CMT Head & Test Lines to 5000psi., Pump 50bbl of 13.6ppg Mud Push, 337bbl (1562sks) of 14ppg TX1CMT W/ Cemnet, Drop Dart & Displace 26bbl CMT return to Surface, Bumped Plug w/ 750psi over circ press, Bleed Off & Float held, Full Returns to Surface	
6:00 AM	Rig Down CMT Crew, & WOC	

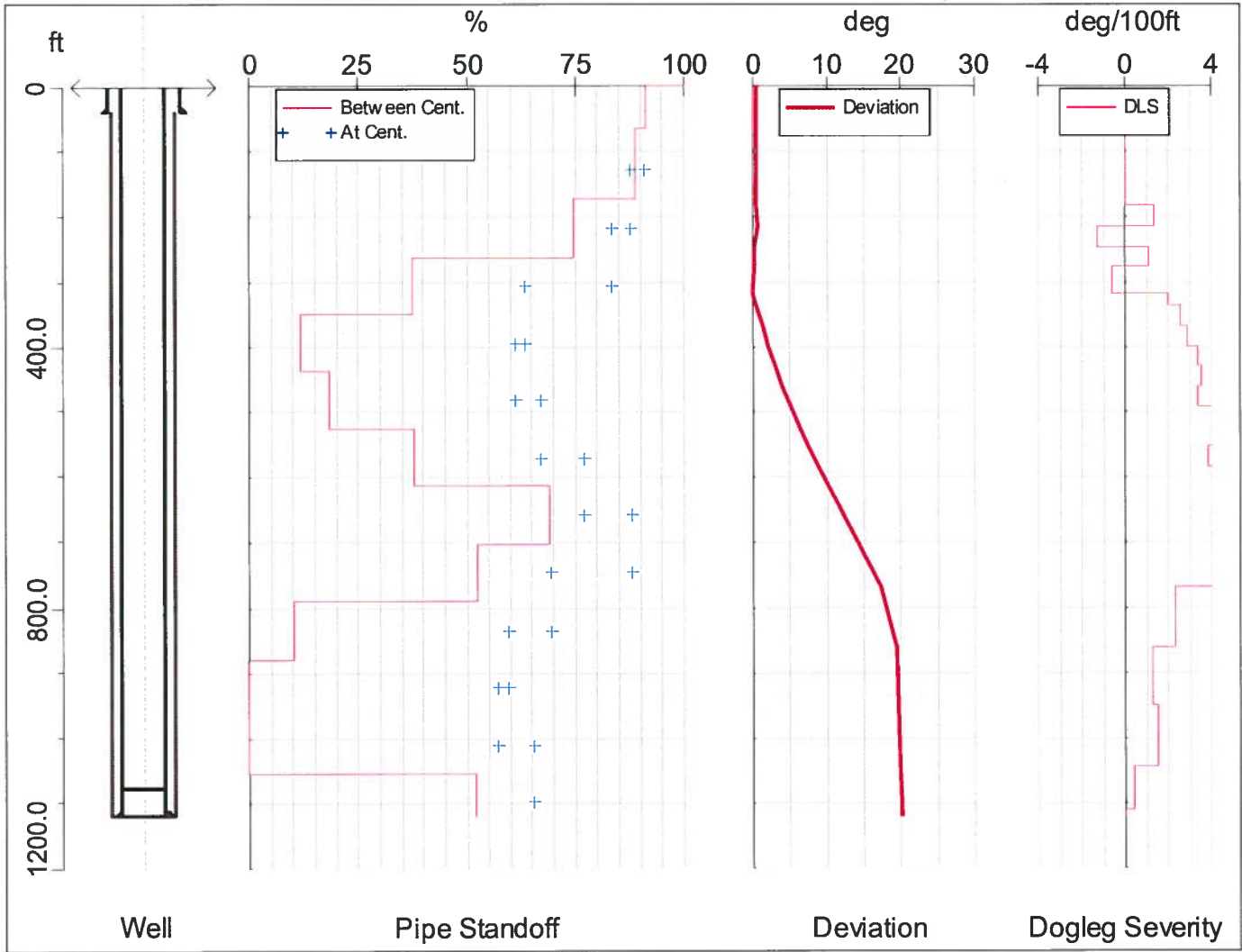
REGULATORY DRILLING SUMMARY



Well : Twin Creek 12-5D1 (F12E)		API # : 05045203880000	Operations Date : 02/09/2012
Surface Location : SENW Sec 12 T7S - R92W 6th PM		Area : Mamm Creek	Report # : 12
Spud Date :	Days From Spud : 11	Depth At 06:00 :	5532
Morning Operations : Skid to Twin Creek 12-5A1		Estimated Total Depth :	5347
		Remarks :	
Time To	Description	1581 Days without a Lost Time incident	
6:30 AM	Circulated & flushed out BOP, flow line, through kill line to remove cement, blow down mud line & kill line with air	24 Days without a Medical Aid or Restricted Work incident	
7:00 AM	Lay down landing jt, pull rotating rubber, install bradenhead pressure gauge	19 Days without a Recordable Spill	
11:00 AM	Nipple down BOP, remove flow line stand, break hammer unions on flow line, remove safety cables, unbolt flange on rotating head, blow air back through choke line and function pipe & blind rams to ensure no cement inside BOP	390 Days without a Reportable Quantity Spill	
3:30 PM	Waiting on cement, work on mud pumps & prep rig for walk	1520 gals fuel used past 24hrs	
4:00 PM	Pre- Job safety meeting with wire line crew on rigging up	9318 gals fuel on Location,	
4:30 PM	Rig up wire line truck	Rotating Hours on HWDP = 69.5 Hrs	
6:00 PM	Run CBL/RST top of cement 2050' loggers TD 5439' Logs out of the hole @ 17:00	Total Fluid Losses Last 24 hrs =0 bbls seepage	
7:00 PM	Rig down loggers Rig released @ 19:00	2 Mud Loggers on Location	
		1 Mud Engineer on Location - Mike Lindell	

Twin Creek 12-5D1

Type	Quantity	Centralizers per Joint	Spacing (ft)	From (ft)	To (ft)	Stop Rings
12 1/4 " BOW	12	1/2	88	Surface	TD	0



Casing Cementing



Company: ENCANA USA - PARACHUTE FIELD OFC (EDI)
Well Name: Twin Creek 12-5D1
Field: Mamm Creek
County: Garfield
State: CO

Date: 2/ 2/2012
Well Location: F12E
API Number: 05045203880000
Proposal Number: 2
Contact:
Made By: Matt Hudson
Service from District: Grand Junction, CO
District Phone: 303-486-3245
Objective: 50bbls MUDPUSH II Spacer
10lb/bbl CemNET Plus
14.0# EasyBLOK TXI: 670ft.
2lb/bbl CemNET
Surface Casing Shoe: 1170ft.
Mesa Verde: 2352ft (2257)
Top of Gas: 3637ft. (3492)
8 3/4" Bit Depth: TD.
TD: 5487ft. (5387)

Disclaimer Notice

The information is presented in good faith, but no warranty is given by Schlumberger or its affiliates or recommendations made concerning the use of any product or service. The data is given as estimates based on calculations produced by a computer model including various assumptions on the well, reservoir and treatment. The results depend on input data provided by the Customer and estimates as to unknown data and can no more accurate than the model, the assumptions and such input data. The information presented is Schlumberger's best estimate of the results that may be achieved and should be used for comparison purposes rather than absolute values. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which Schlumberger can assist in selecting. Freedom from infringement of materials of Schlumberger or others is not to be relied on and any such rights granted unless expressly agreed to in writing.

Schlumberger



EXECUTIVE SUMMARY

Enclosed are our recommendations for Schlumberger intervention on the referenced well. The proposal includes well data, design data, materials and resources requirements and cost estimates. The purpose of our services is to perform a Casing Cementing treatment.

Schlumberger has established a safety policy to which all Schlumberger personnel must adhere. A pre-job safety meeting will be held with customer representatives and other on location personnel to familiarize everyone with existing hazards and safety procedures. We would appreciate close cooperation between the customer representative and the Schlumberger representative to ensure a safe operation.

The estimated total cost of our services is **\$ 88,932.57**. All costs are estimates only. Actual costs will be determined by time, material and equipment used during treatment. Taxes are not included. All work will be subject to Schlumberger then-current General Terms and Conditions or to the terms and conditions of a Master Service Agreement if one is in force between Schlumberger and Customer. This quote is valid for a period of thirty (30) days from the date submitted.

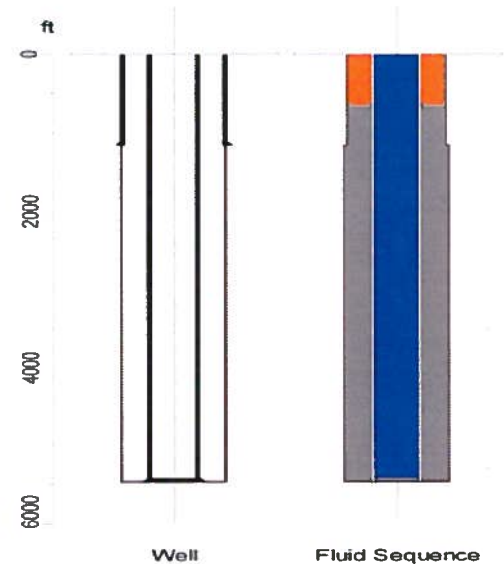
Thank you for considering Schlumberger.
Please do not hesitate to contact me with any questions or concerns.

Sincerely,

Matt Hudson
303-862-1701
mhudson2@slb.com



WELL DATA



IMPORTANT:
The well data shown on this page is based on information available when this treatment program was prepared. This data must be confirmed on location with the wellsite supervisor prior to the treatment. Any changes in the well data need to be reviewed for their impact on the treatment design.

Fluid Placement			
Fluid Name	Volume bbl	Density lb/gal	Top of Fluid ft
MUDPUSH II	50.0	13.20	0.0
14.0# EasyBLOK TXI	336.5	14.00	670.0
Water	84.6	8.32	0.0

Total Liquid Volume : 471.1 bbl

Well Data	
Job Type :	Casing Cementing
Total Depth (Measured) :	5487.0 ft
True Vertical Depth (TVD) :	5340.7 ft
BHST (Tubular Bottom Static Temperature) :	160 degF
BHCT (Tubular Bottom Circulating Temperature) :	114 degF

Open Hole		
Mean Diameter without Excess	Bottom Depth	Annular Excess
8.750 in	5487.0 ft	30.0 %

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
9 5/8 in	36.0 lb/ft	K-55	LTC	0.43 ft3/ft	1170.0 ft

Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
4 1/2 in	11.6 lb/ft	N-80	BTC	0.09 ft3/ft	5487.0 ft

Annular Capacity (without Excess) : Casing Bottom / Open Hole : 0.31 ft3/ft
Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.32 ft3/ft



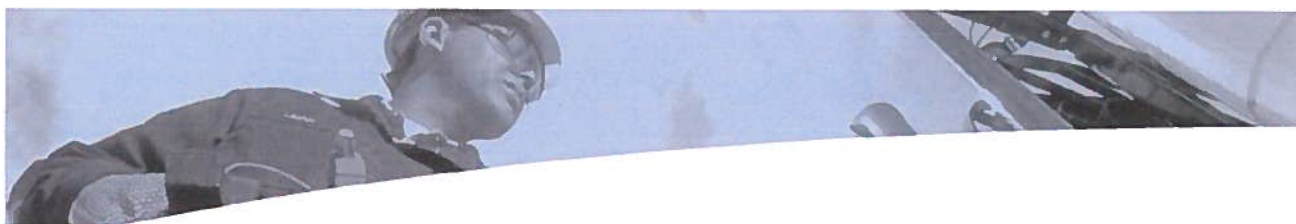
FLUID SYSTEMS

MUDPUSH II			
System	MUDPUSH II		
Density	13.20 lb/gal		
Total Volume	50.0 bbl		
Additives	Code	Description	Concentration
	D031	Weighting Agent	6302.6 lb/mgal
	D182	MUDPUSH II Additive	6.0 lb/bbl Base Fluid
	D097	Losseal W/O (CemNET Plus)	10.0 lb/bbl Spacer

14.0# EasyBLOK TXI (1561 sacks, 75 lb per sack of Blend)			
System	Conventional		
Density	14.00 lb/gal		
Yield	1.21 ft3/sk		
Mixed Water	5.480 gal/sk		
Mixed Fluid	5.480 gal/sk		
Total Volume	336.5 bbl		
Additives	Code	Description	Concentration
	D049	Cement	75.01 lb/sk BWOB
	D154	Extender	6.0 % BWOB
	D400	Gas Control Agent	0.6 % BWOB
	D202	Dispersant	0.2 % BWOB
	D153	Anti-Settling Agent	0.1 % BWOB
	D013	Retarder	0.5 % BWOB
	D046	Anti Foam	0.5 % BWOB
	D029	Lost Circulation Control Agent	0.25 lb/sk BWOB
	D095	CemNET	2.0 lb/bbl

Water			
System	Water		
Density	8.32 lb/gal		
Total Volume	84.6 bbl		
Additives	Code	Description	Concentration

Some of the chemicals specified in this program may have toxic properties. All personnel should be familiar with the inherent dangers and appropriate safeguards to prevent accidental injury. Use of the chemicals may be governed by certain laws and regulations and should only be used in accordance with such. Please refer to the MSDS sheets for the recommended safety precautions and required minimum personal protective equipment.



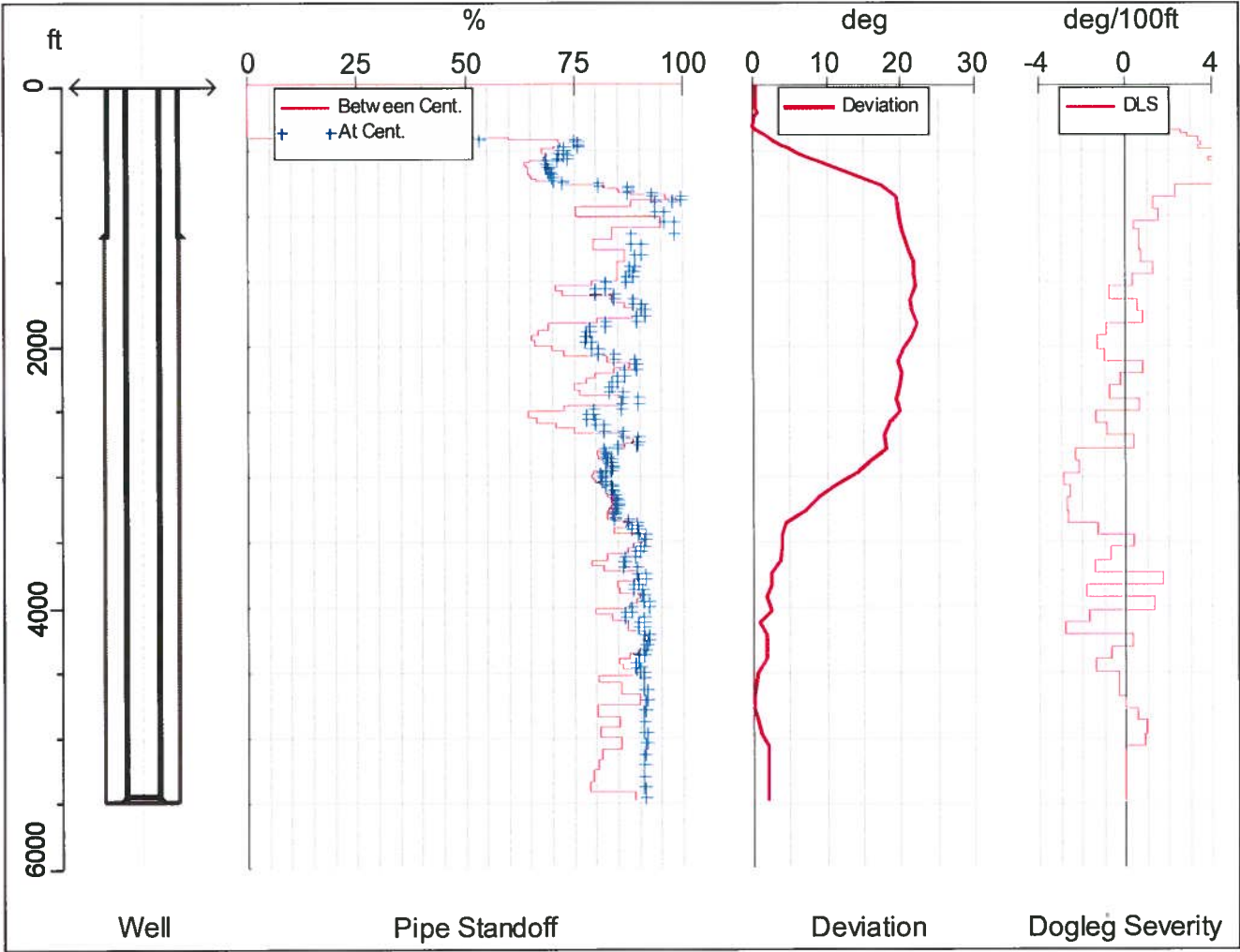
PROCEDURES

1. MI (Move in) Schlumberger equipment.
2. Conduct Rig-up, Prime-up and pressure test safety meeting.
3. RU (Rig up) Schlumberger equipment and pressure test to customer master valve.
4. Conduct pre-job safety meeting.
5. Perform treatment per design pumping schedule and instructions of client representative.
6. ADD 50lbs SUGAR TO FIRST 50bbls DISPLACEMENT
7. Add L064 EVENLY to displacement (1gal/10bbls).
8. Conduct post job rig down meeting.
9. Purge all High Pressure and Low Pressure treating lines with air PRIOR TO RIG-DOWN.
10. Rig down Schlumberger equipment.
11. Conduct convoy meeting and move out Schlumberger equipment.



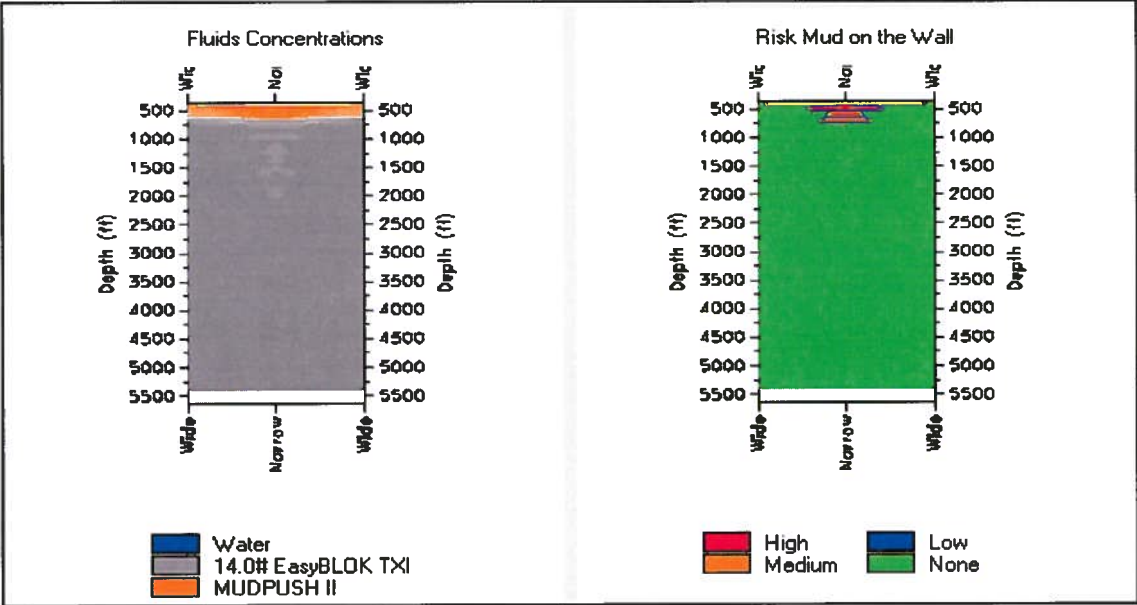
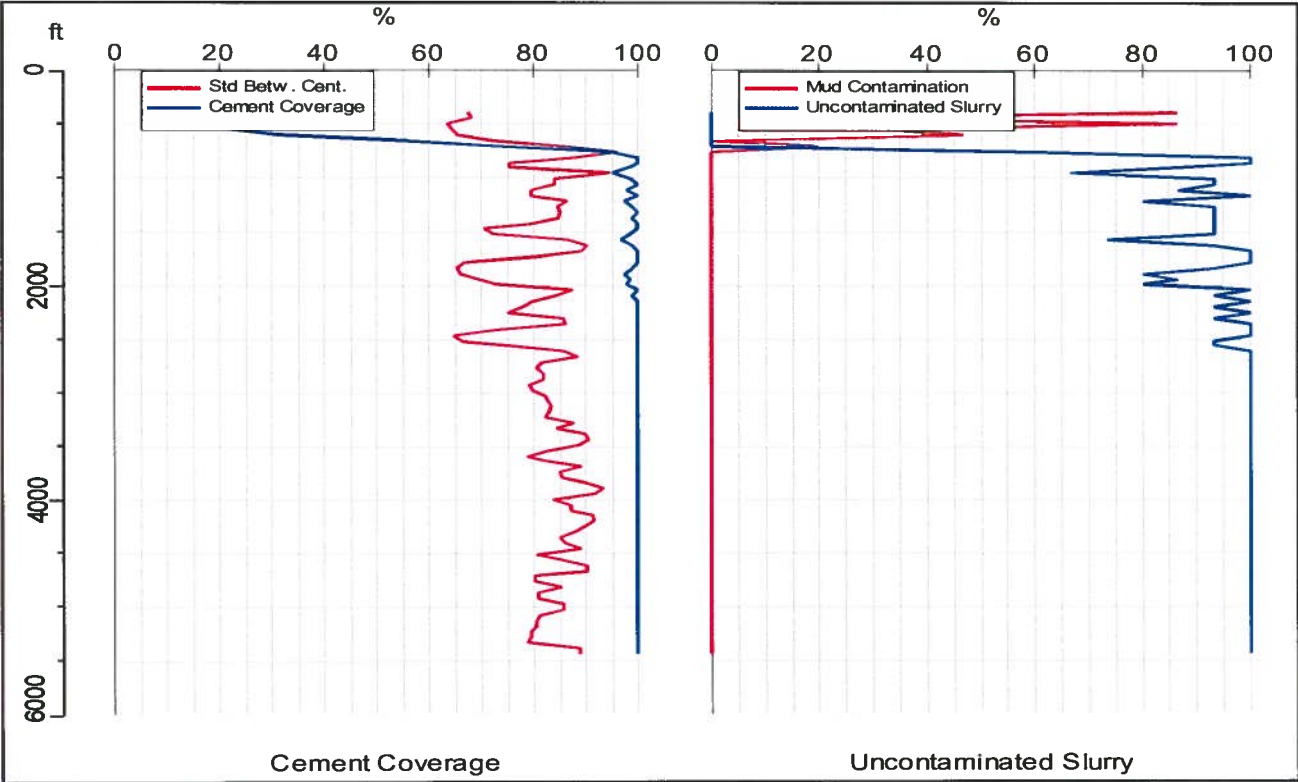
CENTRALIZERS

Type	Quantity	Centralizers per Joint	Spacing (ft)	From (ft)	To (ft)	Stop Rings
8 3/4" BOW	24	2/1	21	405	909	12
8 3/4" BOW	6	1/2	84	909	1413	0
8 3/4" BOW	32	1/1	42	1413	2757	0
8 3/4" BOW	30	2/1	21	2757	3387	15
8 3/4" BOW	28	1/1	42	3387	4563	0
8 3/4" BOW	11	1/2	84	4563	TD	0





CemCADE: WELLCLEAN II Simulation





PRICE ESTIMATE

Equipment and Services						
Code	Standard Description	Quantity	Unit List Price	Total List Price \$	Discount Rate	Discounted Price \$
48019000	Bulk Unit, Cement Add Hr	4 HR	107.50	430.00	45.2 %	235.64
48021000	Silo, Cement	3 EA	570.00	1,710.00	45.2 %	937.08
48601000	Cement Plug Container	1 JOB	520.00	520.00	45.2 %	284.96
49100000	Cement Blending Charge	2128 CF	2.27	4,830.56	45.2 %	2,647.15
49102000	Transportation, Cement Ton-mile	5257 MI	2.02	10,619.14	45.2 %	5,819.29
56702044	Plug, Cementing Top Plastic 4.5 in	1 EA	151.00	151.00	45.2 %	82.75
58498000	Taxes	1 JOB	2,696.06	2,696.06	0 %	2,696.06
59200002	Transportation, Mileage Heavy Vehicles	600 MI	5.52	3,312.00	45.2 %	1,814.98
59200005	Transportation, Mileage Light Vehicles	150 MI	3.24	486.00	45.2 %	266.33
59697004	CemCAT Monitoring System	1 JOB	880.00	880.00	45.2 %	482.24
102871055	Pump, Casing Cement 5001-5500 ft	1 EA	3,300.00	3,300.00	45.2 %	1,808.40
107264001	Regulatory Conformance Charge	9 EA	341.00	2,728.00	0 %	2,728.00

Subtotals: \$ 31,662.76 \$ 19,802.88

Materials						
Code	Standard Description	Quantity	Unit List Price	Total List Price \$	Discount Rate	Discounted Price \$
B838	B838 CemNETplus conversion charge	50 BBL	148.50	7,425.00	45.2 %	4,068.90
D013	Retarder	586 LB	2.61	1,529.46	45.2 %	838.14
D029	Cellophane Flakes	391 LB	3.97	1,552.27	45.2 %	850.64
D031	Barite	133 CW	38.61	5,135.13	45.2 %	2,814.05
D046	Antifoam Agent, All Purpose	586 LB	4.75	2,783.50	45.2 %	1,525.36
D049	Cement, TXI LITEWEIGHT	1561 CF	21.95	34,263.95	45.2 %	18,776.64
D153	Antisettling Agent	118 LB	7.69	907.42	45.2 %	497.27
D154	Extender, LT	7024 LB	1.40	9,833.60	45.2 %	5,388.81
D202	Low-Temperature Solid Dispersant D202	235 LB	19.15	4,500.25	45.2 %	2,466.14
D400	EasyBLOK D400	703 LB	47.00	33,041.00	45.2 %	18,106.47
D970	MUDPUSH II Fresh Water Based Spacer	50 BBL	116.00	5,800.00	45.2 %	3,178.40
D974	CemNET Conversion	337 BBL	57.50	19,377.50	45.2 %	10,618.87

Subtotals: \$ 126,149.08 \$ 69,129.69

Total Discount:	\$	68,879.27
Job Price Estimate*:	\$	88,932.57