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# **CONOCO/PHILLIPS COMPANY EBUSINESS**

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**Moran Trust 2-1  
WILDCAT  
Arapahoe County , Colorado**

**Cement Surface Casing**  
30-Jul-2013

**Job Site Documents**

The Road to Excellence Starts with Safety

Sold To #: 352431		Ship To #: 3005141		Quote #:		Sales Order #: 900629375	
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS				Customer Rep: Evans, Wes			
Well Name: Moran Trust			Well #: 2-1			API/UWI #: 05005072070000	
Field: WILDCAT		City (SAP): BENNETT		County/Parish: Arapahoe			State: Colorado
Legal Description: Section 2 Township 5S Range 64W							
Lat: N 39.642 deg. OR N 39 deg. 38 min. 30.142 secs.				Long: W 104.517 deg. OR W -105 deg. 29 min. 0.139 secs.			
Contractor: H&P			Rig/Platform Name/Num: 280				
Job Purpose: Cement Surface Casing							
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: GROFF, THEODORE			Srvc Supervisor: BARRAS, JOSEPH			MBU ID Emp #: 405168	

Job Personnel								
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARRAS, JOSEPH Corey	7	405168	DEY, JERRY A	7	505015	HALE, ROBERT E	7	470588
MULLER, MICHEL B	7	529830						

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10866497C	48 mile	10982754C	48 mile	11064046C	48 mile	11398490	48 mile
11518548	48 mile	11527037	48 mile	11562546C	48 mile	11566182	48 mile
11764737	48 mile						

Job Hours								
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

Job					Job Times			
Formation Name						Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	30 - Jul - 2013	16:00	MST
Form Type	BHST				On Location			
Job depth MD	2268. ft		Job Depth TVD	2269. ft	Job Started	31 - Jul - 2013	00:09	MST
Water Depth			Wk Ht Above Floor	4. ft	Job Completed	30 - Jul - 2013	00:00	MST
Perforation Depth (MD)	From		To		Departed Loc	24 - Jul - 2013	04:30	MST

Well Data											
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
13-1/2" Open Hole				13.5				100.	2266.		
16" Casing	Unknown		16.	15.5				.	100.		
9-5/8" Casing	Unknown		9.625	8.921	36.	STC	J-55	.	2266.		

Sales/Rental/3 <sup>rd</sup> Party (HES)				
Description	Qty	Qty uom	Depth	Supplier
CMT SURFACE CASING BOM	0	JOB		
SHOE,FLT,9-5/8 8RD,2-3/4 SUPER SEAL	1	EA		
CLR,FLT,9-5/8 8RD 29.3-40PPF,2-3/4	1	EA		
CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED	25	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	1	EA		
KIT,HALL WELD-A	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	100	MI		

Tools and Accessories													
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make



Guide Shoe					Packer					Top Plug				
Float Shoe					Bridge Plug					Bottom Plug				
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container				
Stage Tool										Centralizers				
Miscellaneous Materials														
Gelling Agt			Conc		Surfactant			Conc		Acid Type		Qty		Conc %
Treatment Fld			Conc		Inhibitor			Conc		Sand Type		Size		Qty
Fluid Data														
Stage/Plug #: 1														
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk			
1	Clean Spacer III	CS-3 SPACER (NO SAP# - LOCAL PRICING) (45)			50.00	bbl	10.5	2.67	16.75	.0				
0 gal/bbl		FRESH WATER												
145.56 lbm/bbl		SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)												
0.88 lbm/bbl		SA-1015, 50 LB SACK (102077046)												
2	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)			640.0	sacks	12.	2.56	15.09		15.09			
15.086 Gal		FRESH WATER												
3	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)			245.0	sacks	13.	2.01	10.99		10.99			
10.989 Gal		FRESH WATER												
Calculated Values		Pressures				Volumes								
Displacement		Shut In: Instant				Lost Returns		0	Cement Slurry		Pad			
Top Of Cement		5 Min				Cement Returns		172	Actual Displacement		Treatment			
Frac Gradient		15 Min				Spacers		50	Load and Breakdown		Total Job			
Rates														
Circulating		Mixing			Displacement			Avg. Job						
Cement Left In Pipe		Amount	40 ft	Reason	Shoe Joint									
Frac Ring # 1 @		ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID						
The Information Stated Herein Is Correct					Customer Representative Signature									

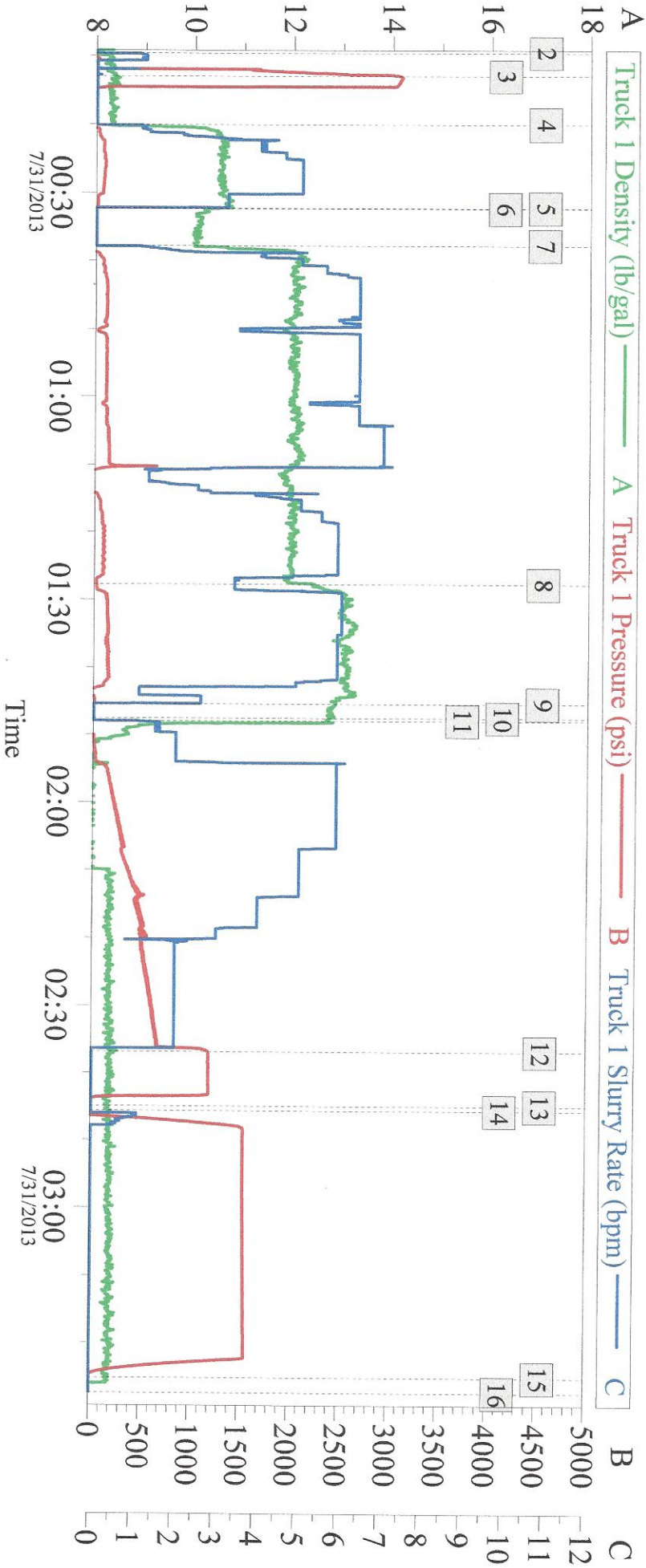
The Road to Excellence Starts with Safety

Sold To #: 352431	Ship To #: 3005141	Quote #:	Sales Order #: 900629375
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Evans, Wes	
Well Name: Moran Trust		Well #: 2-1	API/UWI #: 05005072070000
Field: WILDCAT	City (SAP): BENNETT	County/Parish: Arapahoe	State: Colorado
Legal Description: Section 2 Township 5S Range 64W			
Lat: N 39.642 deg. OR N 39 deg. 38 min. 30.142 secs.		Long: W 104.517 deg. OR W -105 deg. 29 min. 0.139 secs.	
Contractor: H&P		Rig/Platform Name/Num: 280	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GROFF, THEODORE		Srvc Supervisor: BARRAS, JOSEPH	MBU ID Emp #: 405168

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	07/31/2013 00:09							
Test Lines	07/31/2013 00:13		1.5					test lines to 2500 no visible leaks
Pump Spacer 1	07/31/2013 00:20		5	50			88.0	clean spacer mixed with rig water @ 10.5 ppg
Drop Bottom Plug	07/31/2013 00:32							preloaded and witnessed by companyman
Pump Lead Cement	07/31/2013 00:37		6.5	291			112.0	miixed with rig water @ 12 ppg of swiftcem or 640 sks
Pump Tail Cement	07/31/2013 01:27		6	88			130.0	mixed with rig water @ 13 ppg of swiftcem or 245 sks
Shutdown	07/31/2013 01:45							
Drop Top Plug	07/31/2013 01:47							preloaded and witnessed by companyman
Pump Displacement	07/31/2013 01:47		5	172			675.0	rig water with cement to surface with one bbl away
Bump Plug	07/31/2013 02:36		3				1145.0	
Check Floats	07/31/2013 02:45							floats held with one bbl back
Other	07/31/2013 02:45						1534.0	casing test for 30 min
End Job	07/31/2013 03:25							



CONOCO PHILLIPSMORAN TRUST 2-1  
SURFACE PIPE



Global Event Log					
Intersection		T1P	Intersection		T1P
1	Starting Job	22:55:42 -37.00	2	Start Job	00:09:37 -38.68
4	Pump Spacer 1	00:20:05 -35.00	5	Shutdown	00:32:12 -5.156
7	Pump Lead Cement	00:37:45 -33.00	8	Pump Tail Cement	01:27:44 17.18
10	Drop Top Plug	01:47:28 -26.00	11	Pump Displacement	01:47:53 -26.00
13	Other	02:45:02 -38.00	14	Pressure Up Well	02:45:44 -38.00
16	Ending Job	03:27:25 -40.00	15	End Job	03:25:11 -22.13

Customer:  
Well Description:  
Service Supervisor:

Job Date: 30-Jul-2013  
UWL:  
Service Operator:

Sales Order #: 900629375  
Service Leader:

The Road to Excellence Starts with Safety

Sold To #: 352431		Ship To #: 3005141		Quote #:		Sales Order #: 900657370	
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS				Customer Rep: Evans, Wes			
Well Name: Moran Trust			Well #: 2-1			API/UWI #: 05-005-07207	
Field: WILDCAT		City (SAP): BENNETT		County/Parish: Arapahoe		State: Colorado	
Legal Description: Section 2 Township 5S Range 64W							
Lat: N 39.642 deg. OR N 39 deg. 38 min. 30.142 secs.				Long: W 104.517 deg. OR W -105 deg. 29 min. 0.139 secs.			
Contractor: H&P			Rig/Platform Name/Num: H&P 280				
Job Purpose: Cement Intermediate Casing							
Well Type: Development Well			Job Type: Cement Intermediate Casing				
Sales Person: GROFF, THEODORE			Srvc Supervisor: OTERI, VAUGHN			MBU ID Emp #: 443828	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	11.	372277	MAYFIELD, BYRON L	11.	528751	OTERI, VAUGHN Steeves	11.	443828
SIMS, DENNIS A	11.	158880	TRANCOSO, JEFFREY Donald	11.	550472	TRIER, DEREK	11.	546461

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857012C	47 mile	10867419C	47 mile	11036301	47 mile	11526488	47 mile
11527041C	47 mile	11645063	47 mile	11812069C	47 mile	12010172	47 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom	Called Out	10 - Aug - 2013	16:42 MST
Form Type		BHST		On Location	10 - Aug - 2013	21:30 MST
Job depth MD	8030. ft	Job Depth TVD	8030. ft	Job Started	11 - Aug - 2013	04:45 MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	11 - Aug - 2013	08:00 MST
Perforation Depth (MD)	From		To	Departed Loc	11 - Aug - 2013	08:30 MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8-3/4" Open Hole				8.75				2266.	8017.		
7" Casing	Unknown		7.	6.094	32.	BTC	P-110	.	8017.		
9-5/8" Casing	Unknown		9.625	8.921	36.	STC	J-55	.	2266.		

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	0	JOB		
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
CLR,FLT,7 LG 8RD 23-26PPF,2-3/4	1	EA		
CENTRALISER SLIDER II,#0700-0834S	80	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
KIT,HALL WELD-A	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	100	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	100	MI		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
------	------	-----	------	-------	------	------	-----	------	-------	------	------	-----	------



Guide Shoe					Packer					Top Plug				
Float Shoe					Bridge Plug					Bottom Plug				
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container				
Stage Tool										Centralizers				
Miscellaneous Materials														
Gelling Agt			Conc		Surfactant			Conc		Acid Type		Qty		Conc %
Treatment Fld			Conc		Inhibitor			Conc		Sand Type		Size		Qty
Fluid Data														
Stage/Plug #: 1														
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk			
1	Clean Spacer III				40.00	bbl	10.5	3.86	24.21	.0				
	0.5 gal/bbl	SEM-7, 5 GAL PAIL (100003860)												
	0.5 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)												
2	ExtendaCem B1	EXTENDACEM (TM) SYSTEM (452981)			420.0	sacks	12.	2.0	10.64		10.64			
	0.2 %	SUPER CBL, 50 LB PAIL (100003668)												
	3 %	SALT, BULK (100003695)												
	10.64 Gal	FRESH WATER												
3	HalCem	HALCEM (TM) SYSTEM (452986)			135.0	sacks	15.8	1.52	6.19		6.19			
	6.19 Gal	FRESH WATER												
Calculated Values		Pressures			Volumes									
Displacement		Shut In: Instant			Lost Returns		0	Cement Slurry		Pad				
Top Of Cement		5 Min			Cement Returns		0	Actual Displacement		Treatment				
Frac Gradient		15 Min			Spacers		40	Load and Breakdown		Total Job				
Rates														
Circulating		Mixing			Displacement			Avg. Job						
Cement Left In Pipe		Amount	80 ft	Reason	Shoe Joint									
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID
The Information Stated Herein Is Correct					Customer Representative Signature									

The Road to Excellence Starts with Safety

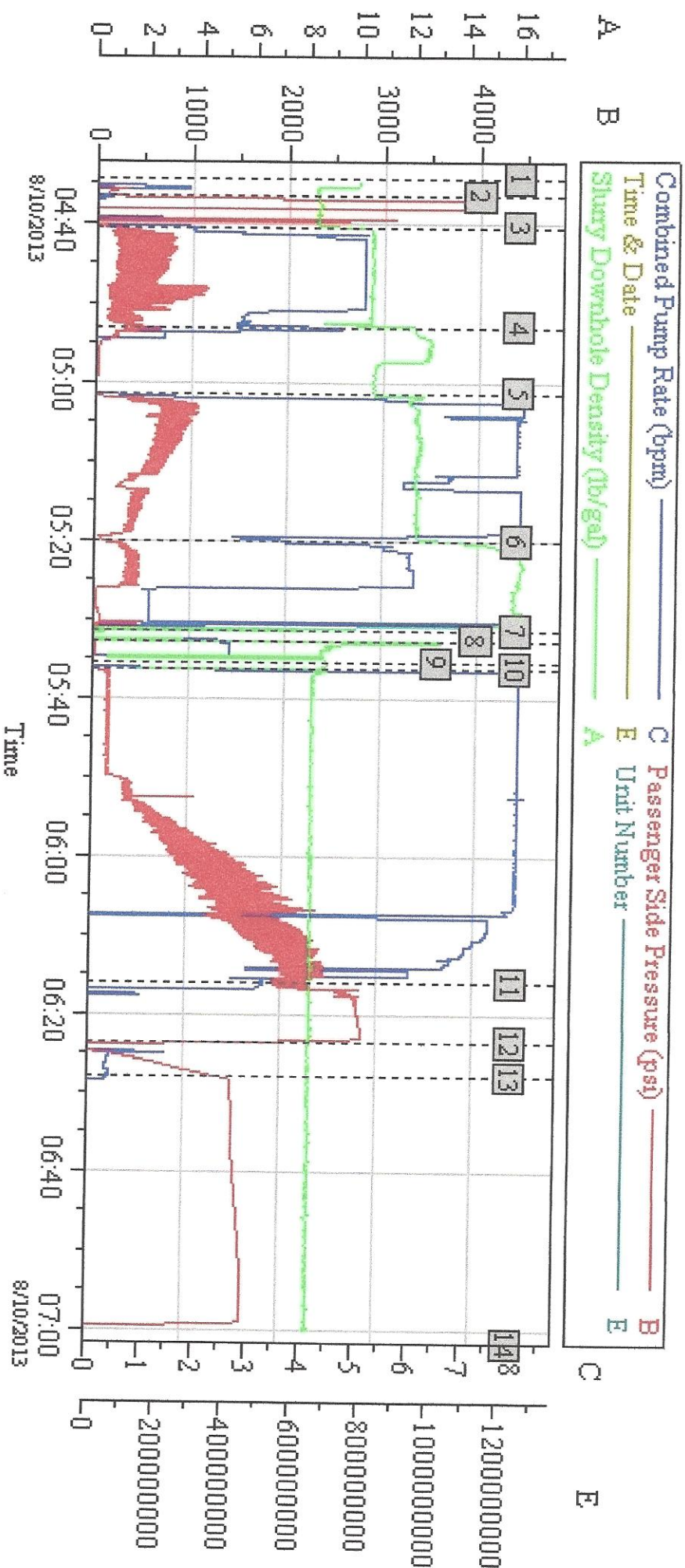
Sold To #: 352431	Ship To #: 3005141	Quote #:	Sales Order #: 900657370
Customer: CONOCO/PHILLIPS COMPANY EBUSINESS		Customer Rep: Evans, Wes	
Well Name: Moran Trust	Well #: 2-1	API/UWI #: 05-005-07207	
Field: WILDCAT	City (SAP): BENNETT	County/Parish: Arapahoe	State: Colorado
Legal Description: Section 2 Township 5S Range 64W			
Lat: N 39.642 deg. OR N 39 deg. 38 min. 30.142 secs.		Long: W 104.517 deg. OR W -105 deg. 29 min. 0.139 secs.	
Contractor: H&P		Rig/Platform Name/Num: H&P 280	
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: GROFF, THEODORE		Srvc Supervisor: OTERI, VAUGHN	MBU ID Emp #: 443828

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	08/11/2013 04:45							PRELOADED PLUGS WITHNESSED BY COMPANY REP
Test Lines	08/11/2013 04:47						4000.0	TESTED LINES FOUND NO LEAKS ,PRESSURE HELD
Pump Spacer 1	08/11/2013 04:49		5	40			540.0	MIXED 10.5PPG CLEAN SPACER ON BATCH MIXER WITH FRESH WATER
Drop Bottom Plug	08/11/2013 05:03							PLUG LEFT PLUG CONTAINER WITHNESSED BY COMPANY REP
Pump Lead Cement	08/11/2013 05:03		8	149			690.0	MIXED 12.0PPG EXTENDACEM WITH FRESH WATER
Pump Tail Cement	08/11/2013 05:31		6	36			665.0	MIXED 15.8PPG HALCEM WITH FRESH WATER
Shutdown	08/11/2013 05:40							CLOSED ALL VALVES ON MANIFOLD
Clean Lines	08/11/2013 05:41							PUMP LINES CLEAN
Drop Top Plug	08/11/2013 05:42							PLUG LEFT PLUG CONTAINER WITHNESSED BY COMPANY REP
Pump Displacement	08/11/2013 05:46		8	285			1500.0	PUMPED 285BBLS OF TREATED WATER SUPPLIED BY COMPANY
Bump Plug	08/11/2013 06:25						2150.0	BUMP PLUG 500 OVER FINAL PRESSURE
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments



		#		Stage	Total	Tubing	Casing	
Check Floats	08/11/2013 06:34						2855. 0	RELEASE PRESSURE BACK TO PUMP TRUCK 3BBLs BACK
Pressure Up Well	08/11/2013 06:36						1500. 0	PRESSURE UP CASING FOR 30 MINS PER CONOCO PHILLIPS POLICY
End Job	08/11/2013 07:06							

Conoco Moran Trust 2-1  
Intermediate



Global Event Log

1	Start Job	04:34:20	2	Test Lines	04:36:37	3	10.5 ppg Clean Spacer	04:40:30
4	Drop Bottom Plug	04:52:57	5	12 ppg ExtendaCem	05:01:16	6	15.8 ppg HalCem	05:20:03
7	Shut Down	05:31:23	8	Wash pump and lines	05:32:40	9	Drop Top Plug	05:35:32
10	Displacement	05:36:15	11	Bump Plug	06:16:06	12	Check Floats	06:23:34
13	Casing Test	06:28:00	14	End Job	07:01:46			

Customer: Halliburton  
Well Description: RTD

Job Date: 10-Aug-2013  
UWT:

Sales Order #: 04:34:45



Water Analysis For Cement Mixing Water

Company: CONOCO/PHILLIP  
S COMPANY  
EBUSINESS

Rig Name/Nbr: H&P 280  
County: Arapahoe

Lease: Moran Trust

State: Colorado

Well Name, Nbr: Moran Trust, 2-1

API No. /UWI 05-005-07207  
Country: United States of America

FIELD TEST KIT

**NOTE:** These tests are an indication of POTENTIAL contamination and are not conclusive.  
For more comprehensive results, a sample should be submitted to the Local Area Lab

Date 11-Aug-2013

Service Supervisor OTERI, VAUGHN

Ticket Number 900657370

Water Source

Temperature

pH.

Specific Gravity

[<80 F]

[between 6-8 pH]

[1.000 - 1.005 see Chart]

Chart in Kit shows comparisons of: Chlorides

Calcium

[<3,000 ppm @ 1.004 S.G.]

[<500 ppm @ 1.004 S.G.]

PASS	FAIL	<u>Nessler's Nitrogen</u>	[Passing Parameters]
<input type="checkbox"/>	<input type="checkbox"/>	Color of Yellow	[<4.5 ppm (mg/L)]
		<u>Tannin-Lignin</u>	
<input type="checkbox"/>	<input type="checkbox"/>	Color of Blue	[<25.0 ppm]
		<u>Sulfate</u>	
		Degree of Clarity	[200 ppm]
<input type="checkbox"/>	<input type="checkbox"/>	Black X Visible	[if NO >200 ppm = FAIL]
		<u>Iron (Fe)</u>	
<input type="checkbox"/>	<input type="checkbox"/>	Degree of Orange	[<20.0 ppm]

Material Roll Up

Sales Order #: 900657370  
AFE #:  
WO #:  
PO #:

Crew: GREEN  
Requested Job Start Date: 08-11-13

Colorado Oil and Gas Commission Wellsite Form

Customer: CONOCO PHILLIPS  
UWI / API Number:  
Well Name: MORAN TRUST  
Well No: 2-1  
Stage / Zone:  
Formation:

Field:  
County/Parish: ARAPAHOE  
State: COLORADO  
Latitude:  
Longitude:  
Sect / Twn / Rng: / /

Job Type: INTERMEDIATE  
Service Supervisor: VAUGHN OTERI  
Cust Rep Name:  
Cust Rep Phone #: (

Do Not leave the yard without the proper MSDS documentation for All chemicals.

Colorado Oil and Gas Commission					
Material	Delivered to Location	UOM	Specific Gravity	Weight (lbs)	Comment
CLEAN SPACER	08-11-13	LB		5879.3	
EXTENDACEM	08-11-13	LB		37939	
HALCEM	08-11-13	LB		17237	
		LB			
		GAL			
		Gal			
		LB			

X

Operator provided all Material Safety Data Sheets (MSDS) related to material listed above.  
Operator representative will check box to designate he/she has received all MSDS documentation.

Operator Representative Signature