

Amoco Production Company
CASING AND CEMENTING REPORT

LEAD/UNIT/FACILITY/NAME AND WELL NUMBER CHARTER SCHNEIDER #12																			
1	FLAC (WELL)			DATE CASING LAID			TYPE CASING STRING			CONDUCTOR PRODUCTION			INTERMEDIATE LINER-TIEBACK			PROTECTIVE OTHER		TYPE CHANGE CODE	
				0224.77						SURFACE LINER						S			
2	AUTHORIZATION DATE				TYPE WELL				JOB NO.				DATE STARTED RUNNING CASING						
					DRILLING RECOMPLETION REPAIR								0224.77						
3	DISTANCE ROD TO TOP OF PIPE:				DEPTH LAID FT.:				CASING SLACK OFF 1,000 POUNDS:				NUMBER OF JOINTS LOCKED:						
													0-						
4	SEC. NO.	SIZE INCHES	WEIGHT POUNDS/FT.	GRADE	TYPE JOINT	RANGE	NAME AND LENGTH OF FLOAT EQUIPT. - D.V. TOOL - COLLARS - TANGERS, ETC.			LENGTH OF CASING THREADS IN			NUMBER OF JOINTS	CON-DITION	REMARKS (TRADE NAMES, ETC.)				
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5	STAGE 1-2-3 BATCH A-B-C		BRAND CEMENT USED (NAME OF MANUFACTURER)		TRADE NAME OF CEMENT USED		BRAND, TRADE NAME AND CONCENTRATION OF ALL ADDITIVES	
	1		DEWEY		G		2.47% C.C.	

6	STAGE 1-2-3 BATCH A-B-C	NUMBER OF SACKS USED	MIXING TIME MINS.	SLURRY WT. LBS./GAL.	DISPL. RATE BBL./MIN.	WT. DISPL. FLUID #/GAL.	MAX. CMTG. PRESSURE	PRESS. TEST ON PLUG	TIME PRESS. HELD, MINS.	PERCENT RETURNS	NO. SACKS CIRC. OUT	SO. BREAK-DOWN PRESS.	FINAL SO. PRESSURE
	1	150	5	15.8	4	8.33	400	200	2	100	20		

7	STAGE 1-2-3 BATCH A-B-C	DEPTH TO CMT. OR PLUG INSIDE CSG.	DATE PLUG BUMPED			TIME PLUG BUMPED	PREFLUSH		DEPTH OF STAGE TOOL, FT.	HRS. CIRC. BE-TWEEN STAGES	TEST PRESS. ON STAGE TOOL
	1	173	0224.77	1845			WATER		10		

8	DEPTH TO TOP CENTRALIZER	DEPTH TO BTL. CENTRALIZER	TOTAL NO. USED	TYPE CENTRALIZERS RIGID OR ROTARY	DEPTH TO TOP SCRATCHER	DEPTH TO BTL. SCRATCHER	TOTAL NO. USED	TYPE SCRATCHERS SPIN OR ROTATE	SPECIAL CEMENTING DEVICES ATTACHED TO CASING			
	A	53	1	N						NAME	TYPE	DEPTH
	B											
	C											

9	DURING CEMENT PLACEMENT:	SPUD CASING <input type="checkbox"/>	ROTATE CASING <input type="checkbox"/>	ESTIMATED COST OF CEMENT AND ADDITIVES: \$	ESTIMATED COST OF CEMENTING SERVICE: \$	ESTIMATED COST OF CENTRALIZERS AND INST.: \$
	ESTIMATED COST OF SCRATCHERS AND INST.: \$	ESTIMATED COST OF RETAINERS AND SETTING: \$		ESTIMATED COST OF SPECIAL CEMENTING DEVICES AND INST.: \$		
	ESTIMATED COST OF FLOAT EQUIPT., D.V. TOOLS, ETC.: \$			TOP OF CEMENT BY SURVEY, FEET:		BOTTOM HOLE TEMPERATURE FOR CEMENT DESIGN, DEGREES, F.:

REMARKS						
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R. Johnson
Johnson

AMOCO PRODUCTION COMPANY CASING AND CEMENTING REPORT

<div style="display: flex; justify-content: space-between;"> Amoco PRODUCTION COMPANY 75-10-2083 </div>															
1		DATE CASING LAID		TYPE CASING STRING		CONNECTION		SURFACE LINER		INTERMEDIATE LINER-PISTON		EFFECTIVE DINNER		IN THE DINNER	
2		DATE WELL		TYPE WELL		DRILLING		COMPLETION		REPAIR		DATE STARTED		FINISHING CASING	
3		DISTANCE FROM TO TOP OF PIPE		DEPTH LAID FT.		CASING SLACK OFF INCHES		CASING SLACK OFF 1,000 - COLARS		NUMBER OF JOINTS USED		STANDARD WEIGHTS, ETC.			
4		SEC. NO.		SIZE INCHES		WEIGHT POUNDS/FT.		GRADE		TYPE JOINT		NAME AND LENGTH OF FLOAT EQUIP. - S.V. COIL - COLLARS - PANGERS, ETC.		LENGTH OF CASING TREADS ON	
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PREPARED BY: *[Signature]*

DWL-496-J PRINTED IN U.S.A.

TREATMENT NUMBER

1510-2354

DOWELL DISTRICT

Содержание

DATE

REMARKS

AMOCO PRODUCTION COMPANY
MONTBELLO AREA
DENVER DIVISION

WELL NAME: Amoco Charter Schneider #12
LOCATION: W E S E - 33 - 1 N - 674 Weld Co.
FIELD: Grapple
AUTHORIZED TD: _____
DRILLING CONTRACTOR: Fallick - 1

The following information is to be filled out by the tool pusher. An Amoco representative will provide instructions for running pipe.

Cement Instructions (Long String)

1st. Stage

Number of sacks: 300
Type Cement: 50/50 Poz 2% GEL 10% SALT

2nd. Stage

Number of sacks: 600 - used 430
Type Cement: 50/50 Poz 2% GEL 10% SALT

Float Equipment

Scratchers from 4938 to 4998
DV: Set at 900 ft. 910-45 976 RB
Guide Shoe: Type CEMENT set at 511.73
Float Collar: Type DIFFERENTIAL set at 5081.13
Frac Baffle set at: _____
Land Casing at: 511.73

1- BASKET SET AT FIRST JOINT BELOW D.V. TOOL 1-CENT. SET BELOW THE BASKET 1-GUIDE SHOE 1-DIFFERENTIAL FLOAT COLLAR SET AT 1 JOINT ABOVE THE GUIDE SHOE 1-CENT. SET ABOVE THE ROTATING SCRATCHERS AND 1 BELOW THE SCRATCHERS 1-CENT SET AT D.V. TOOL.

Signature of Tool Pusher L. D. Temple
Signature of Cementing Company Rep. James R. Ralston
Signature of Float Equipment Rep. James R. Ralston

Return this form when completed to Montbello Office.

HALLIBURTON SERVICES JOB SUMMARY

FORM 2012 R-1

HALLIBURTON
DIVISION

HALLIBURTON
LOCATION

BILLED ON
TICKET NO.

WELL DATA
FIELD Spokane SEC. 33 TWP. 12N RNG. 6W COUNTY Weld STATE Colorado

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
COMPLETION DATE _____ MUD TYPE _____ MUD WT. 11.5
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING		<u>11 3/4"</u>	<u>0</u>	<u>213</u>	<u>24</u>	
LINER						
TUBING						
OPEN HOLE		<u>11 3/4"</u>	<u>0</u>	<u>221</u>	TOTAL DEPTH: <u>271</u>	
PERFORATIONS					SHOTS/FT.	
PERFORATIONS					SHOTS/FT.	
PERFORATIONS					SHOTS/FT.	

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
<u>4/11/15</u>	<u>1200</u>	<u>4/11/15</u>	<u>1745</u>	<u>4/11/15</u>	<u>1745</u>	<u>4/11/15</u>	<u>1745</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Adams</u>	<u>8949</u>	<u>Reliance</u>
<u>SPARKS</u>		

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLAT SHOES		
GUIDE SHOES		
CENTRALIZERS <u>S-3 80%</u>	<u>1</u>	<u>Houder</u>
BOTTOM FLUG		
TOP FLUG <u>LAIN</u>	<u>1</u>	<u>11</u>
HEAD <u>RABC</u>	<u>1</u>	<u>11</u>
PACKER		
OTHER <u>Linkin Battery</u>	<u>1</u>	<u>11</u>

MATERIALS

TREAT. FLUID	DENSITY	LB/GAL. API
DISPL. FLUID <td>DENSITY</td> <td>LB/GAL. API</td>	DENSITY	LB/GAL. API
PROP. TYPE <td>SIZE</td> <td>LB.</td>	SIZE	LB.
PROP. TYPE <td>SIZE</td> <td>LB.</td>	SIZE	LB.
ACID TYPE <td>GAL.</td> <td>%</td>	GAL.	%
ACID TYPE <td>GAL.</td> <td>%</td>	GAL.	%
ACID TYPE <td>GAL.</td> <td>%</td>	GAL.	%
SURFACTANT TYPE <td>GAL.</td> <td>IN</td>	GAL.	IN
HE AGENT TYPE <td>GAL.</td> <td>IN</td>	GAL.	IN
FLUID LOSS ADD. TYPE <td>GAL-LB.</td> <td>IN</td>	GAL-LB.	IN
GELLING AGENT TYPE <td>GAL-LB.</td> <td>IN</td>	GAL-LB.	IN
FRIC. RED. AGENT TYPE <td>GAL-LB.</td> <td>IN</td>	GAL-LB.	IN
BREAKER TYPE <td>GAL-LB.</td> <td>IN</td>	GAL-LB.	IN
BLOCKING AGENT TYPE <td>GAL-LB.</td> <td>IN</td>	GAL-LB.	IN
PERFAC BALLS TYPE <td>QTY.</td> <td></td>	QTY.	
OTHER		
OTHER		

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT 8 1/2"
Cement Casing

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBS./ANN. ☐

CUSTOMER REPRESENTATIVE X
HALLIBURTON OPERATOR R. Adams COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>Denison</u>	<u>6</u>			<u>3.4% C.C.</u>	<u>115</u>	<u>1578</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING	DISPLACEMENT	<u>200</u>	PREFLUSH: BBL-GAL	<u>10</u>	TYPE	<u>Water</u>
BREAKDOWN	MAXIMUM	<u>400</u>	LOAD & BLDN: BBL-GAL		PAB: BBL-GAL	
AVERAGE	FRACTURE GRADIENT		TREATMENT: BBL-GAL		DISPL: BBL-GAL	<u>11</u>
SHUT-IN INSTANT	5-MIN.		CEMENT SLURRY: BBL-GAL	<u>31</u>		
	15-MIN.		TOTAL VOLUME: BBL-GAL	<u>52</u>		
ORDERED	AVAILABLE	USED	REMARKS			
	AVERAGE RATES IN BPM		<u>Cmt Circulated</u>			
TREATING	DISPL	<u>4</u>				
	OVERALL	<u>6</u>				
	CEMENT LEFT IN PIPE					
FEET	REASON	<u>Short Joint</u>				

CUSTOMER

CUSTOMER: Photo Prod Co
DATE: 4/11/15
TIME: 1745
JOB TYPE: Cement Casing
WELL NO: 12
JOB TYPE: CEMENT 8 1/2"
DATE: 4/11/15
TIME: 1745

A Division of Halliburton Company
DUMCAN, OKLAHOMA 73533WORK ORDER CONTRACT
AND PRE-TREATMENT DATAATTACH TO INVOICE & TICKET NO. 201167DISTRICT BR 1644DATE 2.24.77

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Amoco PROD CO

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVING

WELL NO. 12LEASE CHARTER-SCHNOIDERSEC. 33TWP. 1NRANGE 67WFIELD SpindaleCOUNTY WeldSTATE CaloOWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER TYPE _____ SET AT _____

TOTAL DEPTH 221 MUD WEIGHT NATIVEBORE HOLE 12 1/4INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCFPRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	24	5/8	0	213	
LINER						
TUBING						
OPEN HOLE			12 1/4	0	271	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____

MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☐ HYDRAULIC HORSEPOWER ORDERED

Water CLAND Plug

Drill Cement CLAND Plug

Drill Plug CLAND Plug

WASH UP ON Plug & DISPLACE

CUSTOMER OR HIS AGENT STATES THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for mining operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any clay interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- Upon Customer's default in the payment of Customer's account 60 days after date of invoice, such account will thereafter be subject to interest until paid. In the event it becomes necessary to employ an attorney to enforce collection of such account, Customer agrees to pay all collection costs and attorney fees in the amount of 20 per cent of the amount of the unpaid account.
- Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

SIGNED _____

CUSTOMER

DATE 2.24.77TIME 1700 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

JOB LOG

TICKET NO.

20157

CUSTOMER

PAGE NO.

JOB TYPE

DATE _____

FORM 2013 R-1

[illegible]

CUSTOMER