

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

OCD Hobbs

5. Lease Serial No.
NMLC029509A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: Injection UNKNOWN OTH8. Well Name and No.
MALJAMAR AGI 2

2. Name of Operator

FRONTIER FIELD SERVICES LLC

Contact: MICHAEL W SELKE

E-Mail: mselke@geolex.com

9. API Well No.
30-025-42628

3a. Address

MALJAMAR, NM 88260

3b. Phone No. (include area code)
Ph: 505-842-800010. Field and Pool, or Exploratory
AGI

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T17S R32E Mer NMP SWSE 400FSL 2100FEL
32.813967 N Lat, 103.769748 W Lon

11. County or Parish, and State

LEA COUNTY, NM

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12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The most recently approved ADP indicated that the 2nd (lower) intermediate casing at the Maljamar AGI #2 well would consist of 9.626-inch, 40 ppf, HCL-80, LTC casing installed in a 12.25-inch borehole to a depth of approximately 6,500 feet. The casing was to be cemented with 1,350 sacks of Class C (lead) cement and 400 sacks of Class C (tail) cement or a volume required to circulate to the surface.

Loss of mud circulation was encountered from approximately 5,500 to 5,800 feet and the drill pipe became stuck following completion of the 12.25-inch borehole, while pulling the drill string. The drilling consultant team made a decision to change the planned single-stage cement job to a two-stage cement job by adding a deviation (DV) tool to the 2nd intermediate casing at a depth of 5,277 feet (above the zone of loss circulation) in order to insure the best possible opportunity for consistent cement behind pipe.

WORK DONE
PRIOR TO
APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #331878 verified by the BLM Well Information System
For FRONTIER FIELD SERVICES LLC, sent to the Hobbs
Committed to AFMSS for processing by KENNETH RENNICK on 02/26/2016 ()

Name (Printed/Typed) MICHAEL W SELKE

Title CONSULTANT TO FRONTIER

Signature (Electronic Submission)

Date 02/22/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE
ACCEPTED FOR RECORD
PETROLEUM ENGINEER

Approved By

Title

FEB 26 2016

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Kenneth Rennick
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

MAR 08 2016

32., Additional remarks, continued

The first stage cement consisted of 100 sacks of Class C (lead) and 420 sacks of Class C (tail).
Followed by a second stage of 1,340 sacks of Class C (lead) and 100 sacks of Class C (tail) cement.
A pipe tally, laboratory analysis of the cement, and a job summary will be provided on a subsequent
sundry notice.

HALLIBURTON

Permian Basin, Artesia

Lab Results- 1st Stage Lead

MAR 07 2016

RECEIVED**Job Information**

Request/Slurry	2280448/3	Rig Name	Canelson 431	Date	10/FEB/2016
Submitted By	Dillon Briers	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information

Casing/Liner Size	9.625 in	Depth MD	6500 ft	BHST	128 °F
Hole Size	12.25 in	Depth TVD	6500 ft	BHCT	98 °F

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties	
100	% BWOC	EconoCem HLC	Slurry Density	12.90 lbm/gal
5	% BWOW	NaCl (Sodium Chloride) Salt	Slurry Yield	1.88 ft ³ /sack
3	lb/sk	Kol-Seal	Water Requirement	10.13 gal/sack
0.125	lb/sk	Pol-E-Flake		
0.5	% BWOC	HR-800		

Pilot Test Results Request ID 2280448/4**Thickening Time - ON-OFF-ON**

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Static Period (min)
95	2700	17	5:24	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3
80	28	26	21	21	20	17	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)
95	60	41	35	34	32	21	18	30	95

UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
121	3000	5:46	15:18	200	400	694	994	1159	72

HALLIBURTON

Permian Basin, Artesia

Lab Results- 1st Stage Tail

Job Information					
Request/Slurry	2297206/2	Rig Name	Canelson 431	Date	10/FEB/2016
Submitted By	Dillon Briers	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information					
Casing/Liner Size	9.625 in	Depth MD	6500 ft	BHST	128 °F
Hole Size	12.25 in	Depth TVD	6500 ft	BHCT	98 °F

Cement Information - Tail Design					
Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	VersaCem C - 2% Gel	Slurry Density	14.40	lbm/gal
0.5	% BWOC	LAP-1 (Powdered Latex)	Slurry Yield	1.24	ft ³ /sack
0.2	% BWOC	CFR-3 (PB)	Water Requirement	5.67	gal/sack

Pilot Test Results Request ID 2297206/2

Thickening Time - ON-OFF-ON				
Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Static Period (min)
98	3800	24	5:04	15

API Rheology							
Temp (°F)	300	200	100	60	30	6	3
80	42	32	25	16	12	9	8

API Rheology									
Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)
98	68	59	47	41	35	25	17	30	98

API Fluid Loss							
Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (°F)	
98	1000	30	16	211.08	30	98	

Free Fluid API 10B-2					
Con. Temp (F)	Cond. Time (min)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid
98	30	80	120	90	0

UCA Comp. Strength								
End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
128	3000	5:20	12:15	490	826	1619	1639	48.5

HALLIBURTON

Permian Basin, Artesia

Lab Results- 2nd Stage Lead

Job Information

Request/Slurry	2280448/3	Rig Name	Canelson 431	Date	10/FEB/2016
Submitted By	Dillon Briers	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information

Casing/Liner Size	9.625 in	Depth MD	5200 ft	BHST	119°F
Hole Size	12.25 in	Depth TVD	5200 ft	BHCT	94 °F

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	EconoCem HLC	Slurry Density	12.90	lbm/gal
5	% BWOW	NaCl (Sodium Chloride)	Slurry Yield	1.88	ft ³ /sack
		Salt	Water Requirement	10.13	gal/sack
3	lb/sk	Kol-Seal			
0.125	lb/sk	Pol-E-Flake			
0.5	% BWOC	HR-800			

Pilot Test Results Request ID 2280448/4

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Static Period (min)
95	2700	17	5:24	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3
80	28	26	21	21	20	17	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)
95	60	41	35	34	32	21	18	30	95

UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
121	3000	5:46	15:18	200	400	694	994	1159	72

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Permian Basin, Artesia

Lab Results- 2nd Stage Tail

Job Information

Request/Slurry	2299250/2	Rig Name	Canelson 431	Date	10/FEB/2016
Submitted By	Dillon Briers	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information

Casing/Liner Size	9.625 in	Depth MD	5200 ft	BHST	119°F
Hole Size	12.25 in	Depth TVD	5200 ft	BHCT	94 °F

Cement Information - Tail Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	Cemex Premium Plus C	Slurry Density	14.8	lbm/gal
6.37	gal/sack	Fresh Water	Slurry Yield	1.33	ft ³ /sack
0.2	% BWOC	HR-800	Water Requirement	6.375	gal/sack

Pilot Test Results Request ID 2299250/2

Thickening Time, Request Test ID:33414075

Temp (°F)	Pressure (psi)	Batch Mix (min)	Reached in (min)	Start BC	70 Bc (hh:mm)	Termination Time	Termination BC
94	2800	0	17	5.7	04:06	04:16	87

UCA Comp. Strength, Request Test ID:33414076

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	1000 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
117	3000	2:54	5:26	8:29	948	1275	1699	2084	2101	49

API Rheology, Request Test ID:33421676

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
80	33	28	22	19	16	12	10	0	21.99 / 13.25

API Rheology, Request Test ID:33421677

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)	PV/YP
94	33	28	22	19	16	12	8	30	94	22.61 / 12.65

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Permian Basin, Artesia

Lab Results- Lead

Job Information

Request/Slurry	2280448/3	Rig Name	Canelson 431	Date	02/FEB/2016
Submitted By	Kyle Pettigrew	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information

Casing/Liner Size	9.625 in	Depth MD	6500 ft	BHST	128 °F
Hole Size	12.25 in	Depth TVD	6500 ft	BHCT	98 °F

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	EconoCem HLC	Slurry Density	12.90	lbm/gal
5	% BWOW	NaCl (Sodium Chloride) Salt	Slurry Yield	1.88	ft ³ /sack
3	lb/sk	Kol-Seal	Water Requirement	10.13	gal/sack
0.125	lb/sk	Pol-E-Flake			
0.5	% BWOC	HR-800			

Pilot Test Results Request ID 2280448/4

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Static Period (min)
95	2700	17	5:24	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3
80	28	26	21	21	20	17	15

API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)
95	60	41	35	34	32	21	18	30	95

UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
121	3000	5:46	15:18	200	400	694	994	1159	72

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Permian Basin, Artesia

Lab Results- Tail

Job Information

Request/Slurry	2297206/2	Rig Name	Canelson 431	Date	02/FEB/2016
Submitted By	Kyle Pettigrew	Job Type	Intermediate Casing	Bulk Plant	
Customer	Running Horse Production	Location	Lea	Well	Maljamar AGI #2

Well Information

Casing/Liner Size	9.625 in	Depth MD	6500 ft	BHST	128 °F
Hole Size	12.25 in	Depth TVD	6500 ft	BHCT	98 °F

Cement Information - Tail Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	VersaCem C - 2% Gel	Slurry Density	14.40	lbm/gal
0.5	% BWOC	LAP-1 (Powdered Latex)	Slurry Yield	1.24	ft ³ /sack
0.2	% BWOC	CFR-3 (PB)	Water Requirement	5.67	gal/sack

Pilot Test Results Request ID 2297206/2

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Static Period (min)
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98	3800	24	5:04	
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API Rheology

Temp (°F)	300	200	100	60	30	6	3
80	42	32	25	16	12	9	8

API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)
98	68	59	47	41	35	25	17	30	98

API Fluid Loss

Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (°F)
98	1000	30	16	211.08	30	98

Free Fluid API 10B-2

Con. Temp (°F)	Cond. Time (min)	Static T. (°F)	Static time (min)	Incl. (deg)	% Fluid
98	30	80	120	90	0

UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
128	3000	5:20	12:15	490	826	1619	1639	48.5

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Hole	2nd Intermedi	9.625	40	8.835	HCK-55	0	6500	40
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Call For Service
Sales Order #:0903113612

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Tuesday, February 9, 2016 7:09:04 PM

Mud conditioning plan											
The condition of the drilling fluid is one of the most important variables in achieving a cement barrier. Prior to cementing, circulate the mud at the planned highest displacement rate for the cement job for at least 2 bottoms-up until the well is clean, mud is free of gas and pump pressures have stabilized.											
Materials											
Stage/Plug #: 1											
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time	
1	Gel Spacer		20	bbl	8.4						
2.50 lbm/bbl		CHEM,FDP-S1050-12, BULK BAG Mix-On-Fly to Slurry									
Fluid Loss											
iFacts Test id #											
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time hr	
2	EconoCem - HLC	ECONOCHEM (TM) SYSTEM	1440	sack	12.9	1.895	9.96	5	9.96		
5 %		Salt Pre-Mix Dry									
0.1250 lbm		Poly-E-Flake Pre-Mix Dry									
0.50 %		HR-800 Pre-Mix Dry									
3 lbm		Kol-Seal Pre-Mix Dry									
iFacts Test id #											
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft ³ /sack	Water Req Gal/sack	Rate bbl/min	Total Mix Fluid Gal/sack	Surface Batch Mixing Time hr	
3	VersaCem - C	VERSACHEM (TM) SYSTEM	420	sack	14.4	1.217	5.38	5	5.38		
0.50 %		LAP-1 Pre-Mix Dry									
0.20 %		CFR-3 Pre-Mix Dry									
iFacts Test id #											
Caution: Displacement quantities and densities are estimates ONLY! Do not use them for the actual job.											
Packaged Materials											
SAP #	Material		Qty	UOM	Comments						
102175420	CHEM,FDP-S1050-12, BULK BAG		50	lbm							
	FRESH WATER		16595.4	Gal							
Casing Equipment											

HOBBS OCD

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iCem Service

RUNNING HORSE PRODUCTION

For:

Date: Monday, February 15, 2016

MALJAMAR AGI #2

MALJAMAR AGI #2

Case 1 DV TOOL /ECP

Sincerely,

STAN DURHAM / SERVICE SUPERVISOR
575-390-1873 / HOBBS, NEW MEXICO

HALLIBURTON

RUNNING HORSE PRODUCTION
090311

3.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pump Pressure (psi)	DH Density (ppg)	Pump Rate (bbl/min)	Comment
Event	1	Call Out	Call Out	02/14/2016	17:00:00					ALL TIMES DOCUMENTED IN MST. REQUESTED LOCATION AT 01:00:00 CST.
Event	2	Gather Equipment in Hobbs Yard	Gather Equipment in Hobbs Yard	04/14/2016	20:00:00					PICKED UP PLUG SET FROM HOBBS WAREHOUSE AND DISCOVERED THE DV/EC WAS ALSO IN THE WAREHOUSE AND NOT LOCATION. CHECKED AND LOADED DV/ECP ON TRAILER.
Event	3	Departed From Hobbs Yard	Departed From Hobbs Yard	02/14/2016	22:00:00					DEPARTED HOBBS YARD FOR LOCATION. WHEN WAS FIRST CALLED I WAS COMPLETING A BACK JOB ON COUNTY ROAD.
Event	4	Arrived at Location	Arrived at Location	02/14/2016	23:00:00					ARRIVED ON LOCATION. RIG WAS CIRCULATING AND PREPARING TO PUMP DRILL PIPE FROM HOLE.
Event	5	Assessed Location	Assessed Location	02/14/2016	23:30:00					ASSESSED LOCATION. GATHERED INFORMATION FROM THE COMPANY AND CALCULATED THE CHECKED AND CONFIRMED THE MEASUREMENTS OF THE DV TOOL / ECP AND PLUGS. TOOLS CORRECT AND READY FOR THE JOBS. PINNED THE OPENING CLOSING PRESSURES OF ECP AT 1625 PSI TO OPEN AND 1875 PSI TO CLOSE.
Event	6	Measured Equipment Caliper	Measured Equipment Caliper	02/15/2016	01:00:00					

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RUNNING HORSE PRODUCTION
090312

Event	7	Count and Confirm Casing	Count and Confirm Casing	02/15/2016	07:00:00	COUNTED CASING AND CONFIRMED POSITION OF THE DV TOOL/ECP AND CONFIRMED WITH PIPE TALLY. PAINTED CASING WHERE TOOL WAS TO BE PLACED.
Event	8	Safety Meeting on Casing Run	Safety Meeting on Casing Run	02/15/2016	08:00:00	SAFETY MEETING WITH RUNNING HORSE PERSONNEL, CASING CREW, HALLIBURTON INVOLVED WITH RUNNING THE CASING. WENT OVER JOB PROCEDURES AND SAFETY ASPECTS OF RUNNING THE CASING TOOLS.
Event	9	Supervised Guide Shoe Installation	Supervised Guide Shoe Installation	02/15/2016	08:25:00	SUPERVISED THE INSTALLATION OF THE GUIDE SHOE. TORQUED TO 8200 PSI. I CHECKED THE FLOATS IN GUIDE SHOE AND FLOAT COLLAR PRIOR TO INSTALLATION.
Event	10	Supervised Float Collar Installation	Supervised Float Collar Installation	02/15/2016	08:40:00	SUPERVISED THE INSTALLATION OF THE FLOAT COLLAR AND INSTALLED THE HALLIBURTON LANDING/BAFFLE ON TOP OF FLOAT COLLAR. TORQUED TO 8200 PSI.
Event	11	Supervised Installation of DV Tool and Packer Assembly	Supervised Installation of DV Tool and Packer Assembly	02/15/2016	10:00:00	SUPERVISED THE INSTALLATION OF THE TOOL/ PACKER ASSEMBLY ON TOP OF THE 27TH JOINT AS PREVIOUSLY MARKED AND COUNTED. TORQUED TO 8200 PSI.

HALLIBURTON

RUNNING HORSE PRODUCTIONS
090312121
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Event 12	Halliburton Cement Crew Arrived	Halliburton Cement Crew Arrived	02/15/2016	14:30:00	HALLIBURTON CEMENT CREWS ARRIVED.
Event 13	Casing on Bottom	Casing on Bottom	02/15/2016	16:00:00	CASING ON BOTTOM CASING CREW TO RIG DOWN PRIOR TO HOISTING HALLIBURTON IRON TO THE FLOOR.
Event 14	Rig-Up Safety Meeting	Rig-Up Safety Meeting	02/15/2016	16:10:00	DISCUSS SAFETY HAZARDS ASSOCIATED WITH RIGGING UP HALLIBURTON EQUIPMENT ON A LOCATION.
Event 15	Rig-Up Equipment	Rig-Up Equipment	02/15/2016	16:15:00	RIG UP PUMP TRUCK TO WATER, BOOSTER PUMP MUD AND CEMENT. RAMP IRON TO THE RIG V-DOL
Event 16	Rig-Up Complete	Rig-Up Complete	02/15/2016	17:30:00	RIG UP COMPLETED EXCEPT FOR CEMENT HEAD. RIG CIRCULATING
Event 17	Pre-Job Safety Meeting	Pre-Job Safety Meeting	02/15/2016	17:45:00	DISCUSSED SAFETY ISSUES INVOLVED WITH THIS PROCEDURE WITH HALLIBURTON PERSONNEL RIG PERSONNEL AND THIR PARTY PERSONS INVOLVED IN THE JOB. DISCUSSED JSA.
Event 18	Rig-Up Floor	Rig-Up Floor	02/15/2016	18:10:00	RIG UP FLOOR AND STANDPIPE. INSTALL CEMENT HEAD. RIG TO CIRCULATE THRU HEAD AND SPOT A PILL BEFORE STARTING CEMENT JOB.
Event 19	Cement Job Started	Cement Job Started	02/15/2016	18:20:00	HALLIBURTON STARTED 1 ST STAGE OF CEMENT JOB.

HALLIBURTON

RUNNING HORSE PRODUCTION
090312

Event	20	Test Lines	Test Lines	02/15/2016	18:27:00	TESTED HALLIBURTON LINES TO 3699 PSI. PRESSURE HELD WITH NO LEAKS AT THE UNIONS.
Event	21	Spacer Pumped	Spacer Pumped	02/15/2016	18:30:00	PUMPED 20 BBLS OF FW/GEL SPACER IN PRODUCTION OF THE CEMENT.
Event	22	1 st Stage Lead Cement	1 st Stage Lead Cement	02/15/2016	18:37:00	PUMPED 34 BBLS/100 SACKS/ 189.5 CUFT OF ECONOCEM-HLC, WEIGHING 12.9 PPG W/ A YIELD OF 1.895 CUFT AND A WATER RATIO OF 9.96 GAL/SK. ADDITIVE 5% SALT, 0.50% HR-800 LBM KOL-SEAL, 0.125 L POLY-E-FLAKE.
Event	23	1 st Stage Tail Cement	1 st Stage Tail Cement	02/15/2016	18:43:00	PUMPED 91 BBLS/420 SACKS/511.14 CUFT OFVERSACEM-C CEMENT WEIGHING 14.4 PPG W/ A YIELD OF 1.217 CUFT AND A WATER RATIO OF 5.38 GAL/SK. ADDITIVE .50% LAP-1, 0.20% CEMENT.
Event	24	Shutdown to Drop Top Plug	Shutdown to Drop Top Plug	02/15/2016	19:29:00	SHUTDOWN TO DROP TOP PLUG.
Event	25	Dropped Top Plug	Dropped Top Plug	02/15/2016	19:30:00	REMOVED THE CAP FROM THE CEMENT HEAD AND DROPPED THE HALLIBURTON TOP PLUG.
Event	26	Displacement Pumped	Displacement Pumped	02/15/2016	19:31:00	PUMPED 100 BBLS OF FRESH WATER, 392 BBLS OF MUD TO DISPLACE THE HALLIBURTON TOP PLUG TO THE FLOAT COLLAR. SLOWED RATE TO 3 BPM TO PASS PLUG THRU DOWN TOOL. PLACED DYE IN THE

HALLIBURTON

RUNNING HORSE PRODUCTION
090312 C

10TH TUB AS A MARKER WHEN THE DV TOOL IS OPENED, SLOWED TO 3 BPM FROM 395 TO 405 BBLs TO PASS THE PLUG THRU THE TOOL. SLOW TO 38BPM THE LAST 10 TO LAND THE PLUG.			
THE HALLIBURTON PLUG LANDED AT 840 PSI AND WAS BUMPED TO 1264 PSI SEAT THE PLUG IN THE BAFFLE ON THE FLOAT COLLAR. PRESSURE WAS HELD 5 MINUTES.			
Event 27	Landed Plug	Landed Plug	02/15/2016 20:47:00
CHECKED FLOATS. FLOATS HELD BACK 2 BBL THE DISPLACEMENT TANK ON THE PUMP TRUCK. PRESSURED UP TO 1625 AND HELD 1 MINUTE. PRESSURED TO 1700 AND HELD 1 MINUTE. PRESSURED TO 1775 AND HELD 1 MINUTE. PRESSURED TO 1825 AND HELD 1 MINUTE. PRESSURED TO 1900 PSI AND HELD 1 MINUTE TO OPEN, INFLATE AND CLOSE THE PACKER. TOOK 5 BBLs TO STAGE.			
Event 28	Check Floats	Check Floats	02/15/2016 20:52:00
PRESSURE BLEED OFF. BLEED BACK 4.75 BBLs. CAP REMOVED FROM CEMENT HEAD AND MSC OPENING DEVICE DROPPED. ALLOWED TO FREEFALL 25 MINUTES.			
Event 29	Inflate Packer	Inflate Packer	02/15/2016 21:03:00
PRESSURE BLEED OFF. BLEED BACK 4.75 BBLs. CAP REMOVED FROM CEMENT HEAD AND MSC OPENING DEVICE DROPPED. ALLOWED TO FREEFALL 25 MINUTES.			
Event 30	Bled off Pressure	Bled off Pressure	02/15/2016 21:12:00
PRESSURE BLEED OFF. BLEED BACK 4.75 BBLs. CAP REMOVED FROM CEMENT HEAD AND MSC OPENING DEVICE DROPPED. ALLOWED TO FREEFALL 25 MINUTES.			
Event 31	Dropped MSC Opening Device	Dropped MSC Opening Device	02/15/2016 21:20:00

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Event	32	Open MSC	Open MSC	02/15/2016	21:46:00	PRESSURED UP TO 330 PSI AND MSC OPENED. HALLIBURTON BEGAN CIRCULATING. CIRCULATING 60 BBLs OF CEMENT TO SURFACE. TURNED CIRCULATION OVER TO RIG.									
						STARTED 2 ND STAGE.									
						PUMPED 10 BBLs OF FV AHEAD OF THE SUPERFLUSH.									
						PUMPED 50 BBLs OF SUPERFLUSH.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	33	Start 2 ND Stage	Start 2 ND Stage	02/16/2016	02:10:00	PUMPED 446.5 BBLs/ 2507.14 CUFT/ 1340 SK OF ECONOCHEM-HLC CEMENT WEIGHING 12 PPG WITH A YIELD OF 1.871 CUFT/SK AND A WATER RATIO OF 9.69 GAL/SK. ADDITIVES: 5% SALT, 0.50% HR-800, 0 LBM POLY-E-FLAKE, 3 L KOL-SEAL.									
						PUMPED 24 BBLs/ 133 CUFT/ 100 SACKS OF PREMIUM PLUS-C WEIGHING 14.8 PPG W A YIELD OF 1.33 CUFT/SK AND A WATER RATIO OF 6.34 GAL/SK. ADDITIVE .020 % HR-800.									
						PUMPED 24 BBLs/ 133 CUFT/ 100 SACKS OF PREMIUM PLUS-C WEIGHING 14.8 PPG W A YIELD OF 1.33 CUFT/SK AND A WATER RATIO OF 6.34 GAL/SK. ADDITIVE .020 % HR-800.									
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						PUMPED 24 BBLs/ 133 CUFT/ 100 SACKS OF PREMIUM PLUS-C WEIGHING 14.8 PPG W A YIELD OF 1.33 CUFT/SK AND A WATER RATIO OF 6.34 GAL/SK. ADDITIVE .020 % HR-800.									
Event	34	Pumped Spacer 1	Pumped Spacer 1	02/16/2016	02:18:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	35	Pumped Spacer 2	Pumped Spacer 2	02/16/2016	02:22:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
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						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	36	Pumped Spacer 3	Pumped Spacer 3	02/16/2016	02:39:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	37	2 ND Stage Lead Cement	2 ND Stage Lead Cement	02/16/2016	02:42:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	38	2 ND Stage Tail Cement	2 ND Stage Tail Cement	02/16/2016	04:00:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
Event	39	Shutdown to Drop Closing Plug	Shutdown to Drop Closing Plug	02/16/2016	04:10:00	PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									
						PUMPED 10 BBLs OF FV BETWEEN THE SUPERFLUSH AND THE LEAD CEMENT.									

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Event	40	Dropped Closing Plug	Dropped Closing Plug	02/16/2016	04:11:00	WE REMOVED THE CEMENT HEAD AND THE CLOSING PLUG WAS DROPPED.
Event	41	Displacement Pumped	Displacement Pumped	02/16/2016	04:13:00	PUMPED 400 BBLs OF TO DISPLACE THE CLOSING PLUG TO THE MSC (DOWN TOOL) CIRCULATED 10 BBLs OF CEMENT TO SURFACE.
Event	42	Plug Did Not Land	Plug Did Not Land	02/16/2016	05:27:00	PLUG DID NOT LAND AND THE CALCULATED DISPLACEMENT OF 400 BBLs. THE PRESSURE WAS AT 1540. CUSTOMER REQUESTED TO PUMP ADDITIONAL BBL. MAKE IT 401. WE SHUTDOWN AND THE CUSTOMER CALLED HIS ENGINEER THEY WANTED TO PUMP MORE BBLs AND THEN ADDITIONAL SIX FOR A TOTAL OF 410. AS WE O DISPLACED THE PRESSURE WAS DROPPING INSTEAD OF CLIMBING.
Event	43	Shut-in Well	Shut-in Well	02/16/2016	05:37:00	SHUT-IN WELL AT THE CEMENT HEAD FOR A MINIMUM OF 4 HOURS.
Event	44	End Job	End Job	02/16/2016	05:45:00	ENDED HALLIBURTON
Event	45	Rig-Down Safety Meeting	Rig Down Safety Meeting	02/16/2016	06:00:00	DISCUSS ALL SAFETY HAZARDS ASSOCIATED WITH RIGGING DOWN HALLIBURTON EQUIPMENT SAFELY.
Event	46	Rig-Down Halliburton Equipment	Rig-Down Halliburton Equipment	02/16/2016	06:50:00	RIG DOWN ALL HALLIBURTON EQUIPMENT.

Field Ticket Number: 0903119968		Field Ticket Date: Wednesday, February 10, 2016		Planning Order #: NA	
Bill To: RUNNING HORSE PRODUCTION CO LLC PO BOX 369 IGNACIO 81137		Job Name: DV TOOL / ECP Order Type: ZOH Well Name: MALJAMAR AGI 2 Company Code: 1100 Customer PO No.: N/A AFE: Shipping Point: Hobbs, NM, USA Sales Office: Permian Basin BD Well Type: INJECTION Well Category: Development Rig Name/ID: Canelson 431			
Ship To: MALJAMAR AGI 2, LEA MALJAMAR 88264					

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
374609	CMT CASING EQUIPMENT BOM	1.00	JOB	0.00	0.00		0.00
11950	DELIVERY CHG, MTL&EQP,F/LD UNITS ZI Number of Units	80.00 1	MI	5.76 USD/1 MI	460.80	276.48	184.32
101904379	CMTR, TY P ESIL, 9-5/8 LG 8RD 32.3-40, L80	1.00	EA	18,720.00 USD/1 EA	18,720.00	12,287.61	6,432.19
101357202	PLUG SET, FREE FALL, 9-5/8 8RD&BUTRS	1.00	EA	2,582.00 USD/1 EA	2,582.00	931.07	1,650.93
547677	CMT, 3rd PARTY CASING ATTACHMENTS 9 5/8 ECP 40# HCL-80	1.00	EA	19,932.90 USD/1 EA	19,932.90		19,932.90
547677	CMT, 3rd PARTY CASING ATTACHMENTS 8" HANDLING SUB	1.00	EA	1,320.00 USD/1 EA	1,320.00		1,320.00
547677	CMT, 3rd PARTY CASING ATTACHMENTS 10" HANDLING SUBS	1.00	EA	1,500.00 USD/1 EA	1,500.00		1,500.00
547677	CMT, 3rd PARTY CASING ATTACHMENTS TORQUE CHARGES	3.00	EA	175.00 USD/1 EA	525.00		525.00
Totals				USD	46,040.70	13,496.36	31,546.34

Field ticket number: 0903119968

Field ticket date: Wednesday, February 10, 2016
1 of 2

Field Ticket Signature

Field Ticket Number: 0903119968		Field Ticket Date: Wednesday, February 10, 2016		Planning Order #: NA	
Bill To: RUNNING HORSE PRODUCTION CO LLC PO BOX 369 IGNACIO 81137			Job Name: DV TOOL / ECP Order Type: ZOH Well Name: MALJAMAR AGI 2 Company Code: 1100 Customer PO No.: N/A AFE : Shipping Point: Hobbs, NM, USA Sales Office: Permian Basin BD Well Type: INJECTION Well Category: Development Rig Name#: Canelson 431		
Ship To: MALJAMAR AGI 2, LEA MALJAMAR 88264					

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total:	45,040.70
Item Discount Total:	13,495.36
Net Amount Total:	31,545.34 USD

Customer Representative Signature: _____

Date: _____

Customer Representative

Oscar Rodríguez

Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)

☐ Yes ☐ No

Were you satisfied with our equipment?

☐ Yes ☐ No

Were you satisfied with our people?

☐ Yes ☐ No

Comments:

Field ticket number: 0903119968

Field ticket date: Wednesday, February 10, 2016
2 of 2

Field Ticket Number: 0903120342		Field Ticket Date: Sunday, February 14, 2016		Planning Order #: NA	
Bill To: RUNNING HORSE PRODUCTION CO LLC, PO BOX 369, IGNACIO, CO, 81137		Job Name: DV /ECP OPERATOR Order Type: ZOH Well Name: MALJAMAR AGI 2 Company Code: 1100 Customer PO No.: N/A AFE: Shipping Point: HOBBS Shipping Point Sales Office: PERMIAN BASIN BD Well Type: INJECTION Well Category: Development Rig Name/ID: Canelson 431			
Ship To: MALJAMAR AGI 2,LEA, MALJAMAR, NM, 88264					

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
374609	CMT CASING EQUIPMENT BOM	1	JOB		0.00		0.00
11950	DELIVERY CHG, MTL&EQP.F/LD UNITS ZI Number of Units	100	MI	5.76 USD / 1.00 MI	576.00	\$ 345.60	230.40
122	MSC OPERATORW/O HES PUMP EQP, /DAY,ZI NUMBER OF DAYS	1	EA	3,084.00 USD / 1.00 EA	6,168.00	\$ 2,960.64	3,207.36
		2					
Totals				USD	\$ 6,744.00	\$ 3,306.24	\$ 3,437.76

Field Ticket Signature

Field Ticket Number: 0903120342		Field Ticket Date: Sunday, February 14, 2016		Planning Order #: NA	
Bill To: RUNNING HORSE PRODUCTION CO LLC, PO BOX 369, IGNACIO, CO, 81137			Job Name: DV /ECP OPERATOR Order Type: ZOH Well Name: MALJAMAR AGI 2 Company Code: 1100 Customer PO No.: N/A AFE : Shipping Point: HOBBS Shipping Point Sales Office: PERMIAN BASIN BD Well Type: INJECTION Well Category: Development Rig Name#: Canelson 431		
Ship To: MALJAMAR AGI 2,LEA, MALJAMAR, NM, 88264					

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total:	\$ 6,744.00
Item Discount Total:	\$ 3,306.24
Net Amount Total:	\$ 3,437.76 USD

Customer Representative Signature:

Date:

JERRY HIGGINS

Stanley Durham

Customer Representative

Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)

Were you satisfied with our equipment?

Were you satisfied with our people?

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

Comments:



Field ticket Number: 0903120342

Last Printed 2/16/2016 8:01 AM
2 of 2

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 374142		Ship To #: 3674002		Quote #:		Sales Order #: 0903120342				
Customer: RUNNING HORSE PRODUCTION CO LLC				Customer Rep: JERRY HIGGINS						
Well Name: MALJAMAR AGI		Well #: 2		API/UWI #: 30-025-42628-00						
Field: AGI		City (SAP): MALJAMAR		County/Parish: LEA		State: NEW MEXICO				
Legal Description: 21-17S-32E-400FSL-2100FEL										
Contractor:				Rig/Platform Name/Num: Canelson 431						
Job BOM: 374609										
Well Type: INJECTION										
Sales Person: HALAMERICA\HX37472				Srv Supervisor: Stanley Durham						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom		6524				
Form Type										
Job depth MD				Job Depth TVD		6524				
Water Depth										
Perforation Depth (MD)		From		To						
Well Data										
Description	New / Used	Size	ID	Weight	Thread	Grade	Top MD	Bottom MD	Top TVD	Bottom TVD
Mix Water:		Mix Water Chloride:		Mix Water Temperature:						
Cement Temperature:		Plug Displaced by: MUD / WATER		Disp. Temperature:						
Plug Bumped? YES/NO		Bump Pressure:		Floats Held? YES						
Cement Returns:		Returns Density:		Returns Temperature:						
Comment FIRST PLUG LANDED, FLOATS HELD, PACKER SET, DV OPENED, 2 ND BLUG DID NOT LAND. WELL SHUT IN FOR 4 HOURS TILL CEMENT SET.										

HOBBS OCD

MAR 07 2016

RECEIVED