

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	HMU 205W
Doc ID	1403608

All Electric Logs Run

ANNULAR HOLE VOLUME
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
BOREHOLE SONIC ARRAY LOG
MICROLOG
QUAD COMBO LOG
REPEAT LOG

FIELD TICKET

Client MERIT ENERGY COMPANY

Well HMU 205W

Job Description Surface

Date November 14, 2017

Field Ticket # FT-00932-Y8W0M00202-21390



Field Ticket # FT-00932-Y8W0M00202-21390

Credit Approval #

Client MERIT ENERGY COMPANY

Purchase Approval #

PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep James Peppin

Well HMU 205W

Field Client Rep Rodney Gonzalez

Well API # 15-055-22470

District Liberal, KS

Well Type

Job Type Surface

Well Classification

Job Depth (ft) 1,847.00

County USA

Gas Used On Job Yes

State/Province KS

Field

Lease

FIELD TICKET

Client MERIT ENERGY COMPANY
Well HMU 205W
Job Description Surface
Date November 14, 2017



Field Ticket # FT-00932-Y8W0M00202-21390

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L488168	CEMENT, ASTM TYPE I	SK	680.0000	\$44.11	\$29,994.80	76.00	\$7,198.75
L100404	SALT,SODIUM CHLORIDE, A-5	LB	1,239.0000	\$1.04	\$1,288.56	76.00	\$309.25
L100120	EXTENDER, BENTONITE	LB	1,899.0000	\$2.08	\$3,949.92	76.00	\$947.98
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	950.0000	\$0.72	\$684.00	76.00	\$164.16
L100295	IntegraSeal CELLO	LB	340.0000	\$5.76	\$1,958.40	76.00	\$470.02
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	76.00	\$110.40
L100275	CEMENT EXTENDER, SODIUM METASILICATE, A-2	LB	950.0000	\$3.28	\$3,116.00	76.00	\$747.84
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,754.0000	\$2.40	\$4,209.60	76.00	\$1,010.30
L016033	Float Collars with aluminum flapper, 8-5/8 in.	EA	1.0000	\$1,214.00	\$1,214.00	76.00	\$291.36
L017068	CENTRALIZER,8-5/8"NON- WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L86718	PLUG,CEMENT 8.6 TOP BJPL	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
L015399	Float collars with poppet valve, 8-5/8 in.	EA	1.0000	\$0.00	\$0.00	76.00	\$0.00
1000101	THREAD LOCK, 8-5/8 IN.	EA	6.0000	\$195.00	\$1,170.00	76.00	\$280.80
Product Material Subtotal:					\$50,796.32		\$12,191.11

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100049	Cement pump charge, 1,001- 2,000 feet/ 301-600 m	4/HR	1.00	\$4,680.00	\$4,680.000	91.00	\$421.200
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	91.00	\$85.320
S-100004	Cement Crew Mobilization- Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.000	91.00	\$979.200
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	91.00	\$239.040

FIELD TICKET

Client MERIT ENERGY COMPANY

Well HMU 205W

Job Description Surface

Date November 14, 2017



Field Ticket # FT-00932-Y8W0M00202-21390

S-100002	Mileage - vehicle light weight MI	50.00	\$10.72	\$536.000	91.00	\$48.240
			Service Subtotal:	\$19,700.00		\$1,773.00

FIELD TICKET

Client MERIT ENERGY COMPANY
Well HMU 205W
Job Description Surface
Date November 14, 2017



Field Ticket # FT-00932-Y8W0M00202-21390

FIELD ESTIMATES

TOTAL GROSS AMOUNT \$70,496.320
TOTAL % DISC 80.192
TOTAL NET AMOUNT \$13,964.117

Arrive Location

Client Rep.

Well	Hmu 205W (Ref 205)
AFE	55333
GL	83001075
Office	London City
Date	11-14-17

Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

BJ REPRESENTATIVE

James Peppin

CLIENT AUTHORIZED AGENT

Rodney Gonzalez S

Cementing Treatment



Start Date	10/14/2017	Well	HMU 205W
End Date	12/30/2017	County	Finney
Client	MERIT ENERGY COMPANY	State/Province	KS
Client Field Rep	Rodney Gonzalez	API	15-055-22470
Service Supervisor		Formation	
Field Ticket No.	8.625" Surface	Rig	
District	Liberal, KS	Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			1,847.00	1,847.00	0.00		
Open Hole	12.25			1,347.00	1,347.00	130.00		
Casing	8.10	8.63	24.00	1,847.00	1,847.00		J-55	LTC

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	Tool Type	
Bottom Plug Provided By	BJ	Tool Depth (ft)	
Bottom Plug Size		Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	BJ	Max Casing Pressure - Rated (psi)	2,950.00
Top Plug Size	8.625	Max Casing Pressure - Operated (psi)	2,360.00
Centralizers Used	No	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	
Centralizers Type		Top Connection Thread	8 rd
Landing Collar Depth (ft)	1,805	Top Connection Size	8.625

CIRCULATION PRIOR TO JOB

Cementing Treatment



Well Circulated By Rig **Solids Present at End of Circulation** No
Circulation Prior to Job Yes **10 sec SGS**
Circulation Time (min) **10 min SGS**
Circulation Rate (bpm) **30 min SGS**
Circulation Volume (bbls) **Flare Prior to/during the Cement Job** No
Lost Circulation Prior to Cement Job No **Gas Present** No
Mud Density In (ppg) **Gas Units**
Mud Density Out (ppg)
PV Mud In
PV Mud Out
YP Mud In
YP Mud Out

TEMPERATURE

Ambient Temperature (°F) **Slurry Cement Temperature (°F)**
Mix Water Temperature (°F) **Flow Line Temperature (°F)**

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Lead Slurry	Multi Density Cement	12.1000	2.5410	14.71	505	1,278.0000	227.5000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	175	222.0000	39.4000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE I	100.00	PCT
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.00	BWOB
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, SODIUM METASILICATE,	2.00	BWOB

Cementing Treatment



		A-2	
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.00 BWOW
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.00 BWOB
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.00 BWOB
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.50 LBS/SK
Tail Slurry	Class A Cement	IntegraSeal CELLO	0.50 LBS/SK
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE I	100.00 PCT
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.00 BWOB

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	227.50			
	Class A Cement	0.00	39.40			
			Min	Max		Avg
	Pressure (psi)		200.00	300.00		200.00
	Rate (bpm)		5.00	5.00		5.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	73.00
Calculated Displacement Volume (bbls)	114.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	116.00	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	300.00
Bump Plug	No	Amount Bled Back After Job	0.00
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	393.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No

Cementing Treatment



Cement returns During Job Full Lost Circulation During Cement Job No

CEMENT PLUG

Bottom of Cement Plug? No Wiper Balls Used? No
Wiper Ball Quantity Plug Catcher No
Number of Plugs

SQUEEZE

Injection Rate (bpm) Fluid Density (ppg)
Injection Pressure (psi) ISIP (psi)
Type of Squeeze FSIP (psi)
Operators Max SQ Pressure (psi)

COMMENTS

Treatment Report

time	psi	rate	bbls	name
610 pm	2500			test lines
612	110	5	10	h20
615	210	5	228	lead cmt
728	267	6	39	tail cmt
745				drop plug
747	100	5		disp plug
757	120	5.5		50 bbl gone on disp
806	320	5.5		100 bbl gone on disp
808	290	3	10	last 10 bbl slow rate down to bump plug
810	310			no bump

Job Summary

safety meeting with rig crew and customer
test lines to 2500 psi
pump 10 bbls h20 ahead
pump 228 bbls of lead cmt slurry @ 12.1 wt = 505 sks
pump 39 bbls of tail cmt slurry @ 15.2 wt = 175 sks
shut down drop top rubber plug
disp plug with 114 bbls of h20 from the rig frac tank
last 10 bbls of disp we slow rate down to bump plug

Cementing Treatment



we didnt bump plug we went 2 bbl over as per customer and
still no bump we check float and it held and customer
had us put 300 psi on it and close the head in

FIELD TICKET

Client MERIT ENERGY COMPANY

Well HMU 205W

Job Description Long String

Date November 18, 2017



Field Ticket # FT-01068-BOM7X40202-07259

Field Ticket # FT-01068-BOM7X40202-07259

Credit Approval #

Client MERIT ENERGY COMPANY

Purchase Approval #

PO BOX 1293, LIBERAL, 67905-1293 **Invoice #**

Field Rep Erik Chavez

Well HMU 205W

Field Client Rep Rodney Gonzalez

Well API # 15-055-22470

District Liberal, KS

Well Type

Job Type Long String

Well Classification

Job Depth (ft) 6,600.00

County USA

Gas Used On Job No

State/Province KS

Field

Lease

FIELD TICKET

Client MERIT ENERGY COMPANY
Well HMU 205W
Job Description Long String
Date November 18, 2017



Field Ticket # FT-01068-B0M7X40202-07259

		5,000 feet/1,201 -1,500 m					
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	91.00	\$239.040
S-100002	Mileage - vehicle light weight	MI	100.00	\$10.72	\$1,072.000	91.00	\$96.480
S-100001	Mileage - vehicle heavy weight	MI	100.00	\$18.96	\$1,896.000	91.00	\$170.640
S-100004	Cement Crew Mobilization-Demobilizat on Fee	EA	2.00	\$10,880.00	\$21,760.000	91.00	\$1,958.400
Service Subtotal:					\$36,047.04		\$5,492.88

FIELD TICKET

Client MERIT ENERGY COMPANY
Well HMU 205W
Job Description Long String
Date November 18, 2017



Field Ticket # FT-01068-B0M7X40202-07259

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100022	CEMENT, CLASS H	SK	86.0000	\$50.27	\$4,323.22	76.00	\$1,037.57
L100495	SALT, Sodium Chloride, Medium	LB	1,795.0000	\$0.57	\$1,023.15	76.00	\$245.56
L100120	EXTENDER, BENTONITE	LB	495.0000	\$2.08	\$1,029.60	76.00	\$247.10
20000018	CFL-210	LB	124.0000	\$22.72	\$2,817.28	76.00	\$676.15
L100294	LOST CIRCULATION, LCM-1	LB	1,405.0000	\$4.00	\$5,620.00	76.00	\$1,348.80
L100295	IntegraSeal CELLO	LB	71.0000	\$5.76	\$408.96	76.00	\$98.15
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	1,339.0000	\$0.72	\$964.08	76.00	\$231.38
20000002	CD-100	LB	29.0000	\$9.35	\$271.15	76.00	\$65.08
L101196	FP-25, Dry Foam Preventer (BJS Only)	LB	50.0000	\$14.52	\$726.00	76.00	\$174.24
L100317	CEMENT, FLY ASH (POZZOLAN)	SK	86.0000	\$25.68	\$2,208.48	76.00	\$530.04
L398117	IntegraGuard ULTRA II	BBL	24.0000	\$234.85	\$5,636.40	76.00	\$1,352.74
L100019	CEMENT, CLASS A	SK	110.0000	\$43.34	\$4,767.40	76.00	\$1,144.18
L014007	Float Shoe - circulating diff. type, 5-1/2 in.	EA	1.0000	\$545.00	\$545.00	76.00	\$130.80
L017421	Latch Down Plug & Assembly, 5-1/2 in.	EA	1.0000	\$660.00	\$660.00	76.00	\$158.40
L017348	STAGE TOOL,CEM,5-1/2"N80,8RD-L	EA	1.0000	\$11,495.00	\$11,495.00	76.00	\$2,758.80
L017116	Collars and Cement Baskets, 5-1/2 in.	EA	1.0000	\$395.00	\$395.00	76.00	\$94.80
Product Material Subtotal:					\$42,890.72		\$10,293.79

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100282	Cementing - Job Site Cancel Chg	HR	6.00	\$411.84	\$2,471.040	0.00	\$2,471.040
S-100052	Cement pump charge, 4,001-	6/HR	1.00	\$6,192.00	\$6,192.000	91.00	\$557.280

FIELD TICKET

Client MERIT ENERGY COMPANY
Well HMU 205W
Job Description Long String
Date November 18, 2017



Field Ticket # FT-01068-B0M7X40202-07259

FIELD ESTIMATES

TOTAL GROSS AMOUNT \$78,937.760
TOTAL % DISC 80.001
TOTAL NET AMOUNT \$15,786.653

Arrive Location
Client Rep.

Well	HMU 205W
AFE	55333
GL	83001075
Office	Garden City
Date	11-18-17

Service Order

I authorize work to begin per service instructions in accordance with the terms and conditions printed on the following pages of this form and represent that I have authority to accept and sign this order.

Service receipt

I certify that the materials and services listed were received and all services performed in a workmanlike manner.

BJ REPRESENTATIVE

Erik Chavez

CLIENT AUTHORIZED AGENT

Rodney Gonzalez



Cementing Treatment



Start Date	11/18/2017	Well	HMU 205W
End Date	11/18/2017	County	Finney
Client	MERIT ENERGY COMPANY	State/Province	KS
Client Field Rep	Rodney Gonzalez	API	15-055-22470
Service Supervisor		Formation	
Field Ticket No.	Production	Rig	
District	Liberal, KS	Type of Job	Long String

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	7.88			5,000.00	5,000.00	30.00		
Casing	4.89	5.50	17.00	4,963.00	4,963.00		J-55	LTC
Previous Casing	8.10	8.63	24.00	1,430.00	1,430.00		J-55	LTC

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	Yes	Tool Type	DV Tool
Bottom Plug Provided By	BJ	Tool Depth (ft)	4,178.67
Bottom Plug Size	5.500	Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	BJ	Max Casing Pressure - Rated (psi)	
Top Plug Size	5.500	Max Casing Pressure - Operated (psi)	
Centralizers Used	No	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	Manifold
Centralizers Type		Top Connection Thread	LTC
Landing Collar Depth (ft)	4,958	Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Cementing Treatment



Final Displacement	2nd Stage Displacement	8.3400	0.0000	97.6000
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Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	UltraFlush	IntegraGuard ULTRA II	100.00	PCT
Spacer / Pre Flush / Flush	UltraFlush	IntegraGuard ULTRA II	100.00	PCT
Tail Slurry	Second Stage Tail	CEMENT, CLASS A	100.00	PCT
Tail Slurry	Second Stage Tail	LOST CIRCULATION, LCM-1	5.00	LBS/SK
Tail Slurry	Second Stage Tail	SALT, Sodium Chloride, Medium	10.00	BWOW
Tail Slurry	Second Stage Tail	IntegraSeal CELLO	0.25	LBS/SK
Tail Slurry	Second Stage Tail	EXTENDER, BENTONITE	2.00	BWOB
Tail Slurry	Second Stage Tail	CFL-210	0.50	BWOB
Tail Slurry	Second Stage Tail	CEMENT EXTENDER, GYPSUM, A-10	6.00	BWOB
Tail Slurry	Second Stage Tail	FP-25, Dry Foam Preventer (BJS Only)	0.20	BWOB
Tail Slurry	First Stage Tail	CEMENT, CLASS H	50.00	PCT
Tail Slurry	First Stage Tail	SALT, Sodium Chloride, Medium	10.00	BWOW
Tail Slurry	First Stage Tail	LOST CIRCULATION, LCM-1	5.00	LBS/SK
Tail Slurry	First Stage Tail	IntegraSeal CELLO	0.25	LBS/SK
Tail Slurry	First Stage Tail	EXTENDER, BENTONITE	2.00	BWOB
Tail Slurry	First Stage Tail	CEMENT EXTENDER, GYPSUM, A-10	5.00	BWOB
Tail Slurry	First Stage Tail	CFL-210	0.50	BWOB
Tail Slurry	First Stage Tail	CD-100	0.20	BWOB
Tail Slurry	First Stage Tail	FP-25, Dry Foam Preventer (BJS Only)	0.20	BWOB
Tail Slurry	First Stage Tail	CEMENT, FLY ASH (POZZOLAN)	50.00	PCT
Top-Out / Scavenger Slurry	Mouse hole/Rat hole Plug	SALT, Sodium Chloride, Medium	10.00	BWOW
Top-Out / Scavenger	Mouse hole/Rat hole	CEMENT, CLASS H	50.00	PCT

Cementing Treatment



Displaced By	BJ	Amount of Cement Returned/Reversed	
Calculated Displacement Volume (bbls)	120.00	Method Used to Verify Returns	
Actual Displacement Volume (bbls)	120.00	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	228.60
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job		Lost Circulation During Cement Job	No

CEMENT PLUG

Bottom of Cement Plug?	Yes	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

COMMENTS

Treatment Report

Job Summary