



FORM 6  
REV 12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver Colorado 80203 (303) 894-2100 Fax (303) 894-2109



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COGCC

WELL ABANDONMENT REPORT

Submit original plus one copy. This form is to be submitted as an intent whenever a plugging is planned on a borehole. The approved intent shall be valid for twelve months after the approval date after that period a new intent will be required. After the plugging is complete, this form and one copy shall again be submitted as a subsequent report of the work as actually completed.

COGCC Operator Number: 53650  
Name of Operator: Marathon Oil Company  
Address: 5555 San Felipe St, Mailstop 35:08  
City: Houston State: Texas Zip: 77056-2701  
Contact Name & Telephone: Anna Walls  
No: (713) 296-3468  
Fax: (713) 513-4394  
48 24 hour notice required, contact: DAVE ANDREWS (970) 456-5262

API Number: 045-15033  
Well Name: 697-12A Well Number: 18  
Location (Qtr, Sec, Twp, Rng, Meridian): SWNE 12 06S 97W 6th P.M.  
County: GARFIELD Federal, Indian or State Lease Number:  
Field Name: GRAND VALLEY Field Number: 31290  
Complete the Attachment Checklist  
Wellbore Diagram [X]  
Cement Job Summary  
Wireline Job Summary

[X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.54039 Longitude: 108.16602  
GPS Data:  
Date of Measurement: 5/9/2008 PDOP Reading: 1.9 Instrument Operator's Name: Brian Nasi  
Reason for Abandonment: [ ] Dry [ ] Production Sub-economic [X] Mechanical Problems [ ] Other  
Casing to be Pulled: [ ] Yes [X] No Top of Casing Cement: surface 2515'  
Fish in Hole: [ ] Yes [X] No If yes, explain details below  
Wellbore has Uncemented Casing Leaks: [ ] Yes [X] No If yes, explain details below  
Details: Drill 8-3/4" hole to 9773' MD. Multiple Casing Leaks. Decision made to P&A well. Set CIBP @ 7725' w/ 2 sx Class G cmtl. Set CIBP @ 3000' & cmt up to 2820'. Set Cmt plug from 55' to surface inside & outside csg. Cap corners of both casings & place ground marker with well name/number

Current and Previously Abandoned Zones

Formation	Perforations - Top	Perforations - Bottom	Date Abandoned	Method of Isolation (None, Squeezed, BP, Cement, etc.)	Plug Depth

Casing History

String	Size of Hole	Size of Casing	Weight per ft	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
Conductor	20	16	53	140'		140'	Surface
Surface	14-3/4	9-5/8	36	2877'	1424	2877'	Surface
Production	8-3/4	4-1/2	11.6	9586'	904	9586'	2880' 2515'

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7725' 3 sacks cmt on top. CIBP #2: Depth 3000' with 15 sacks cmt on top.  
Set 2 bbls sks cmt from 0 ft. to 55 ft. in [ ] Casing [ ] Open Hole [ ] Annulus  
Set sks cmt from ft. to ft. in [ ] Casing [ ] Open Hole [ ] Annulus  
Set sks cmt from ft. to ft. in [ ] Casing [ ] Open Hole [ ] Annulus  
Set sks cmt from ft. to ft. in [ ] Casing [ ] Open Hole [ ] Annulus  
Perforate and squeeze at ft. with sacks Leave at least 100 ft. in casing  
Perforate and squeeze at ft. with sacks Leave at least 100 ft. in casing  
Perforate and squeeze at ft. with sacks Leave at least 100 ft. in casing  
Set 30 sacks half in, half out surface casing from ft. to ft.  
Set 30 sacks at surface  
Cut four feet below ground level, weld on plate Dry-Hole Marker: [ ] Yes [X] No  
Set sacks in rat hole Set sacks in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing Recovered: ft. of in. casing Plugging date:  
\*Wireline Contractor: Cementing Contractor: BJ Services Company  
Type of Cement and Additives Used: Class G cmt  
\*Attach job summaries.

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

Print Name: Anna Walls Email: awalls@marathonoil.com  
Signed: [Signature] Title: Reg. Compliance Tech Date: 5/26/2010  
OGCC Approved: [Signature] Title: PE II Date: 5/26/2010  
CONDITIONS OF APPROVAL, IF ANY:

1) Provide 48 hour notice of MIRU to Dave Andrews at (970) 456-5262 or david.andrews@state.co.us.

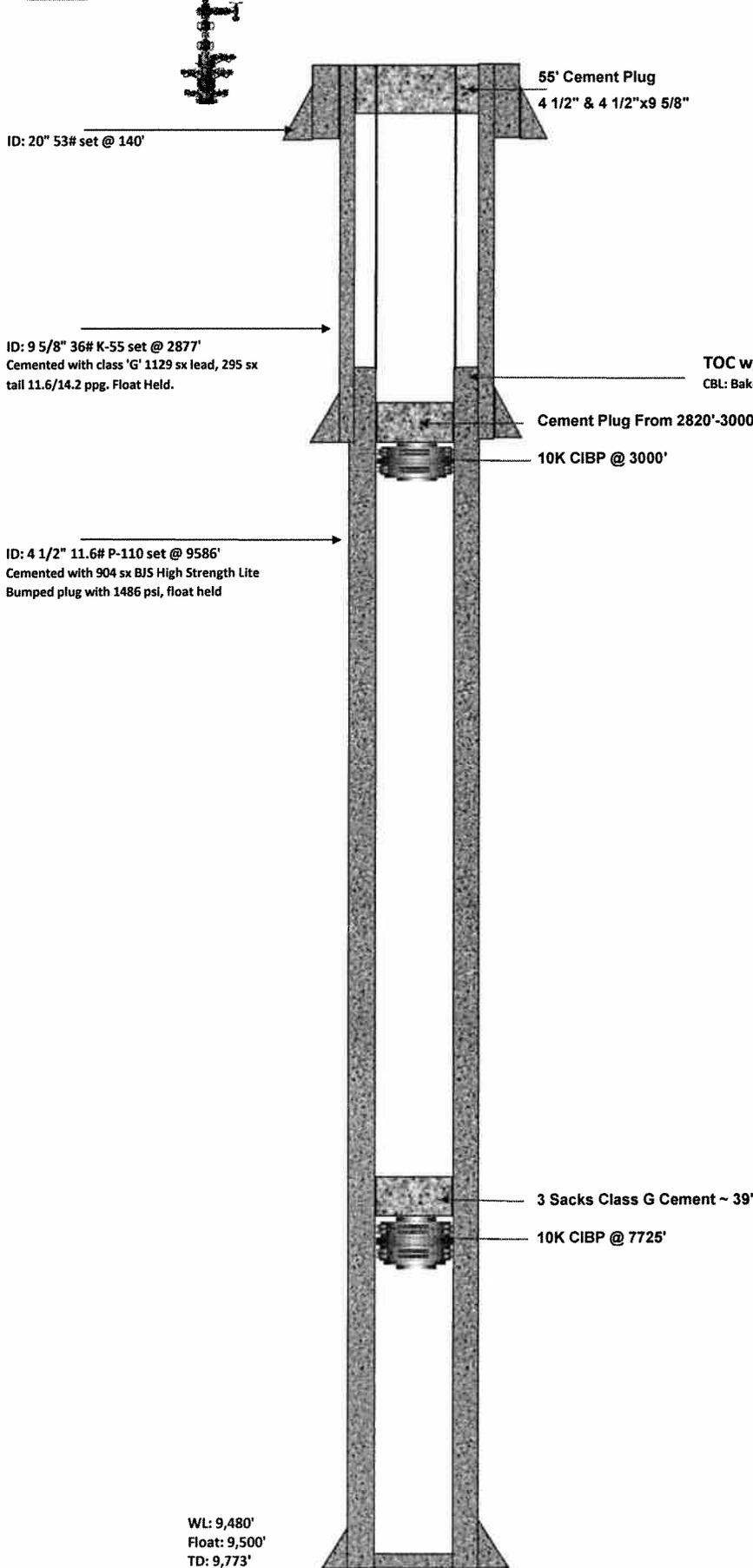
PROPOSED



Marathon Oil Company

Updated: 5/25/2010

Well Name: 697-12A-18  
 SAP CC :  
 Lat/Long:  
 Location: 12A Pad-T6S-R97W, 1543' FNL & :  
 County: Garfield County, Colorado  
 Field : Grand Valley  
 API #: 05-045-15033 WI: 1.00  
 Lease: NRI: 0.813  
 Permit: 20075252  
 Spud Date: 06/09/2008 GL: 8306'  
 TD Date: 11/29/2008 KB: 8330'  
 1st Flow:



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WL: 9,480'  
 Float: 9,500'  
 TD: 9,773'

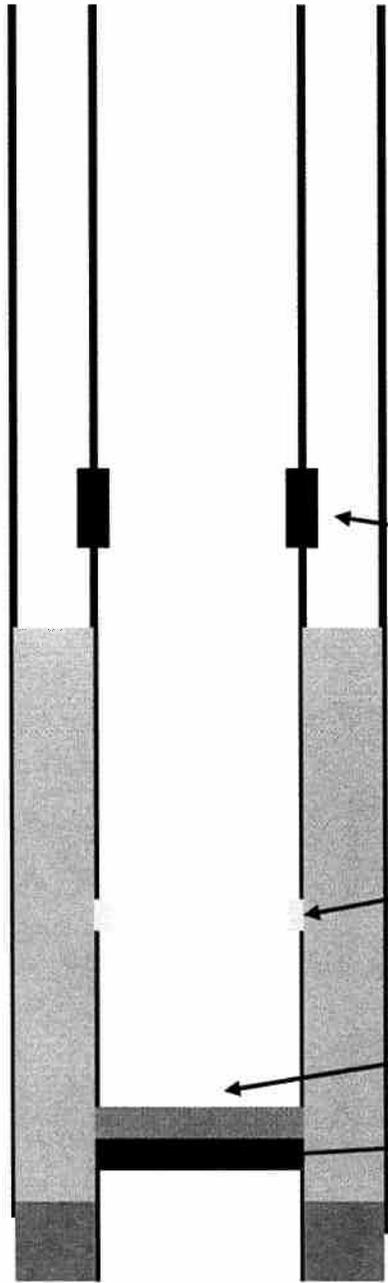
# Well 697-12A-18

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CURRENT

last cement response  
@ 2,400'

Good cement @ 2,695'



Patch @ 2,338'

Leak @ 2,555'  
communicates  
to surface

Cement top @ 2,565'

CBP @ 2,575'

Shoe @ 2,877'

CURRENT



Updated: 5/6/2010

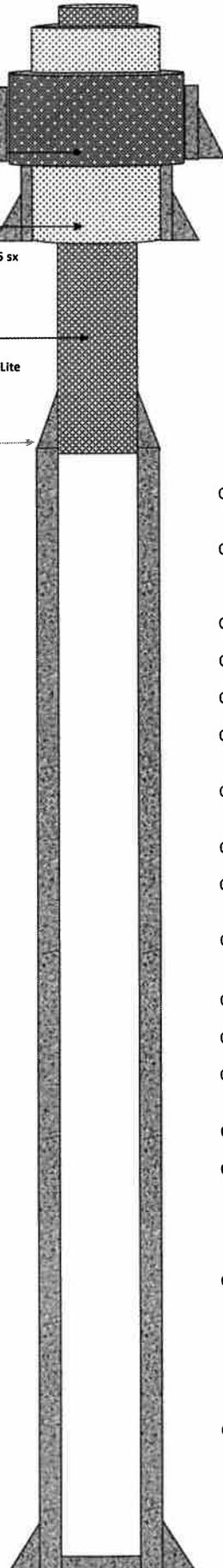
Well Name: 697-12A-18  
 SAP CC :  
 Lat/Long:  
 Location: 12A Pad-T6S-R97W, 1543' FNL & 1854' FEL  
 County: Garfield County, Colorado  
 Field : Grand Valley  
 API #: 05-045-15033-00 WI: 1.00  
 Lease: NRI: 0.8125  
 Permit: 20075252  
 Spud Date: 06/09/2008 GL: 8306'  
 TD Date: 11/29/2008 KB: 8330'  
 1st Flow:

ID: 20" 53# set @ 140'

ID: 9 5/8" 36# K-55 set @ 2877'  
Cemented with class 'G' 1129 sx lead, 295 sx tail 11.6/14.2 ppg. Float Held.

ID: 4 1/2" 11.6# P-110 set @ 9586'  
Cemented with 904 sx BJS High Strength Lite Bumped plug with 1486 psi, float held

TOC w/ 60% bond @ 2680'  
CBL: Baker Atlas  
07-Jan-09



Casing leak 3062'

Casing leak 3868'

Casing leak 4758'

Casing leak 4928'

Casing leak 5014'

Casing leak 5268'

Casing leak 5818'

Casing leak 6326'

Casing leak 6454'

Casing leak 6752'

Casing leak 6794'

Casing leak 6878'

Casing leak 7154'

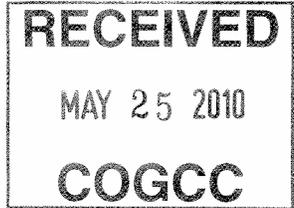
Casing leak 7324'

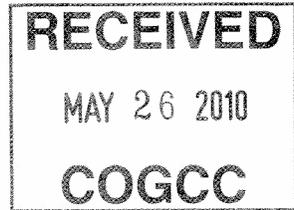
Casing leak 7494'

Casing leak 7790'

Casing leak 9422'

WL: 9,480'  
Float: 9,500'  
TD: 9,773'





**MARATHON OIL COMPANY**  
**Plug and Abandonment Procedure**

**697-12A-18**

**Originator:** Gandler / Goeres

5/25/2010

Date

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## 1. Emergency Response Information

### 1.1 Directions to Location

Method	Directions	
	Latitude	Longitude
Air	39° 34' 13.316 N	108° 12' 54.807 W
Ground	Mile Marker 14, drive 3/4 mile, make a left and road ends at pad.	

### 1.2 On-site Completion Supervisor Contact Numbers

Contact	Name	Office	Fax
Marathon Completion Supervisor Trailer	Jess Pennel	713-758-0622 281-840-5025	832-204-7475
Black Gold inc	Doug Epperson	970-985-6064 970-242-2515	
Steve Nadj inc	Steve Nadj	970-640-3481	

**1.3 Marathon Emergency Response Contacts**

Individual	Position	Main Phone	Cell
MAPLINE	Emergency Notification	877-627-5463	
Joe Thompson	HES Supervisor	713-296-3286	713-560-1893
Adell Heneghan	HES Environmental	970-245-5233 ext 2243	970-210-9340

**1.4 Outside Emergency Response**

	Location	Contact	Phone
Fire	Grand Valley Fire Dept (Parachute Ambulance)		970-625-8095
	Debuque Fire Dept (Flaring Notice)	Nick	970-283-8632
Ambulance	Grand Junction (Ambulance First Call)	Grand Junction Dispatch Center	970-242-6707
Hospital	Grand Junction	St. Mary's Hospital	970-244-2273
Hospital	Rifle	Grand Valley Hospital	970-625-1510
Police	Parachute/GJ		911
Emergency Coordinator	Denver	CEPC	303-692-3300
Spill and Contamination	Denver	COGCC	877-518-5608
Well Control			
County Commissioner Board	Grand Junction	Larry McCown John Martin	970-945-5004
Landowners	Houston (Chevron)	Kevin Goldstein	281-561-3722

**1.5 Marathon Contact List**

Contact	Title	Office	Mobile	Facsimile	Home
Greg Gandler	Completion Engineer	713-296-1884	281-881-0158	713-235-6330	713-521-1062
Pete Lewis	Completion Engineer	713-296-2200	713-203-4115		281-693-4577
Bryson Goeres	Completion Engineer	713-296-2545	713-725-8867	713-513-6017	512-826-1224
Tim Weed	Piceance Completion Superintendent	970-245-5233 ext 2237	970-261-6492	970-245-6287	970-314-7300
Ken Dunek	WWD&C Superintendent	713-296-2226	281-685-4019		

**1.6 Working Interest Owners Information**

Company	Working Interest	Address	Phone	Facsimile
Marathon Oil Company	100%	PO Box 3128 Houston, TX 77253-3128		

**2. Regulatory Agency Contacts****2.1.1. Internal Regulatory Contact**

Contact	Title	Office Phone	Cell Phone	Home Phone	Facsimile
Anna Walls	Regulatory Compliance Technician	713-296-3468	832-265-6051		713-513-4394

**2.1.2. External Regulatory Contact**

Contact	Title	Office Phone	Cell Phone	Facsimile
David Andrews	COGCC Engineering Supervisor	303-894-2100 X 145		
Jay Krabacher	COGCC Engineering Field Inspector	970-285-5661	970-216-5749	970-285-5661
Dave Graham	COGCC Engineering Field Inspector	970-283-8653	970-778-5738	970-283-8653

**3. Completion Program Summary**

**Introduction:** Cased hole logs will be run in all 8 wells on the 596-31C Pad

**3.1 General Well Data**

See Appendix files for each well in section 6

**3.2 Wellhead Equipment Summary**

Component	Description
Casing Head	Weatherford WFT-RL-Special Landing base, Split 20" conductor X 9-5/8"
Casing Spool	Weatherford WFT-SBU-RL, 11", 5K X 4-1/16" 10K with (2) 2" API line pipe side outlets

**3.3 Completion Fluid Specifications**

Interval - TVD		Density (lb/gal)	Fluid Description	Additives
From (ft)	To (ft)			
Surf	TD	8.34	Fresh water	2% KCl additive

**3.4 Summary of Potential Completion Hazards**

Hazard Event	Depth RT (TVD)	Discussion	Precautions
Wellhead congestion	Surface	Multiple activities requiring a lot of personnel close to the wellhead	No suspended loads over wireline personnel

**3.5 Summary of Potential HES Hazards**

HES Related Hazard Event	Depth RT (TVD)	Discussion	Precautions
Water Spill	All	Frac and flow-back tanks may leak.	Tanks are visibly inspected to ensure integrity.

**3.6 Well Control and Barrier Plan**

Event	Hazard	Tubing	Casing
Wireline Operations	Well capable of flow		KWF, and unperforated casing. but known casing leaks

**General Notes:**

The 697-12A-18 well has 17 casing leaks identified between 3062'-9422'. Currently there is a CBP set at 2,575' with 10' of cement on top of it.

**4. Removing Frac tree and BOPs test**

- 4.1 Tie in pump lines to 2-1/16", 5K side outlet flanges (both sides) and pressure-test the (lower) 'B' section, production casing, and plug to 5000 psi/5 mins. Bleed off pressure and remove the tubing hanger.
- Hard lines will need to be tied to both casing valves.
    - One line will be needed for drillout ops
    - The additional tie in to annulus will be for flowback and in case of emergency
- 4.2 NU BOPE on top of tubing head with 2-way check installed. Double stack should have pipe rams on top and blind rams on bottom. There should be a pump-in sub between tubing head and blind rams. Stripping rubber and annular will be installed above pipe rams.
- 4.3 Test all lines running to wellhead to 3500 psi by closing ball valves closest to wellhead. This includes pump-in sub line, wing valve lines, and the outlet valve between the pipe rams and stripper head. After testing lines, bleed pressure off.
- 4.4 Close blind rams and test to 250/3500 psi for 5 minutes by pumping into pump-in between blind and tubing head. Bleed pressure off, and open blind rams. This tests the blinds against the 2-way check.
- 4.5 Test Pipe Rams, Annular, and Stripper Head. Screw pup joint into 2-way check
- Cap the tubing top with a closed TIW valve. Close and lock pipe rams. Test pipe rams and TIW to 250/3500 psi for 5 minutes by pumping into the pump-in between blind ram and tubing head.
  - Open pipe rams and repeat test with the annular. Close and test annular to 250/2500 psi low/high for 5 minutes.
  - Open annular and repeat test against Washington head rubber. 250/1500 psi low/high for 5 minutes.
- 4.6 Lubricate in and pull 2-way check, then screw into tubing hanger with landing joint and pull tubing hanger from tubing head once BOP tests are successful.
- 697-12A-18 cannot be tested against plug as communication exists between 4-1/2" and 9-5/8" at leak 2,555'.

**5. Wellbore Cleanout**

- 5.1 Set up rig up mat and beam. MIRU completion rig, power swivel and rig pump.
- 5.2 MU drill-out BHA equipped with the following:
- 3-3/4" Hurricane mill, pump-off sub
  - 2-3/8" tubing to surface (L-80 or better).

- 5.3 RIH with BHA and tag top kill plug (see attached wellbore schematics).
- 697-18A-12 kill plug is located at 2575', with 10' of cement dump bailed on top to 2565'.
- 5.4 RU power swivel. (Swivel is 15M - 1 ¼ in.), (Swivel – TIW valve – string float is made up to tubing).
- Run a screen/filter in-line with power swivel to avoid pumping rubber debris down tubing and plugging off tubing float.
  - Power swivel should be to be able to turn at 60+ RPMs (minimum).
  - Set down maximum of 2K lbs on bit while maintaining torque below 2000 ft-lbs
  - Injection rates should be 20-35 gals/min.
- 5.5 Once plug is drilled and hole has been circulated for 30 mins, run in hole with tubing until end of tubing is at 8,000'
- 5.5 Pull out of hole with tubing

## **6. Setting Plugs and dump bailing:**

- 6.1. Check equipment on wellhead. Verify that 4-1/2", 10K manual valve (with bleed-cap) is installed.
- 6.2. Rig up E-line crane, cased hole logging truck, and lubricator. Hold Pre-job safety meeting, inspect equipment, and discuss work and any potential hazards with E-line activity.
- 6.3. RIH w/ ~3.71" OD gauge ring and junk basket on GR/CCL. RIH to 8000' with gauge ring.
- Do not exceed 100 ft/min on initial run.
  - Ensure that the gauge ring OD exceeds the standard 8K bridge plug 'running OD' (3.660").
    - 4-1/2", 11.6# casing ID = 4.00" (API drift = 3.875")
- 6.4. Make up the Weatherford 10K CIBP. RIH w/ the 10K CIBP and set at a depth of 7725'. Ensure that depth corresponds to the same depth from tubing tally when the 10K Arrowset packer was set to run the TecWel leak detection log on 7/7/09. POOH with setting tool.
- 6.5. Make up dump bailer. RIH w/ dump bailer and dump bail 39'/3 sxs of cement on top of 7725'. POOH w/ dump bailer. This make take more than 1 run.
- 6.6. Make up the Weatherford 10K CIBP. RIH w/ the 10K CIBP and set at a depth of 3000'. Ensure that depth corresponds to the same depth from tubing tally when the 10K Arrowset packer was set to run the TecWel leak detection log on 7/7/09. POOH with setting tool.

6.7 RIH w/ tubing and lightly tag CIBP @ 3000'. Pump 15 sxs cement on top of plug and pull. This should leave cement to 2820'. Pull out of hole laying down tubing.

**7. Surface Abandonment:**

7.1. Cut 4.5" and 9-5/8" casing 4' below ground level

7.2. Run 1.9" pipe to 55' in 4-1/2" by 9-5/8" annulus, pump 4 bbls class G into 4-1/2" by 9-5/8" annulus.

7.3 Run 1.9" pipe to 55' in 4-1/2" casing, pump 2 bbls class G into 4-1/2".

**6. 697-12A-18 Well specific data**

Well Name	697-12A-18			Lease / License	
Surface Location	NE/4 Sec 12-T06S-R97W; 1543' FNL and 1854' FEL			WBS Code	DD.07.16014.CAP.CMP.04
Permit Number	20075255	Field	Grand Valley	Spud Date	6/9/2008
RKB – Sea Level	8,322'	County/Province	Garfield	TD Date	11/29/2008
RKB – G.L.	8300'	State / Country	CO	API No.	05-045-15033-00
RKB – Mudline	N/A	Total MD	9,733'	Well Class	Development
Perm. Datum		Total TVD	9,663'	Rig Contractor	Nabors
Water Depth	N/A	WL Tag	9,480'	Rig Name	M39

Csg/Tbg Size (in)	MD (ft)		Weight (lbs/ft)	ID (in)	Drift (in)	Grade	Connection			Hole Size (in)	Performance Ratings		
	Top	Shoe					Top Conn.	O. D. (in)	Makeup Torque (ft-lbs)		Burst (psi)	Collapse (psi)	Tension (kips)
20"	Surf.	140'	94 lb	19.12	18.54	K-55				24"	2110	520	
9 5/8"	Surf.	2,877'	36 lb	8.92	8.76	K-55	BTC	10.625		17.5"	3520	2020	755
4 1/2"	Surf.	9,587'	11.6 lb	4.0	3.875	P-110	LTC	5.00		8 3/4"	10690	7580	279
2-3/8"	Surf.	N/A	4.7 lb	1.995	1.901	L-80	EUE 8rd	3.063	1760		11200	11780	104