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400476796  
  
Date Received:  
09/05/2013

**WELL ABANDONMENT REPORT**

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.  
 A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 47120 Contact Name: CHERYL LIGHT  
 Name of Operator: KERR-MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6461  
 Address: P O BOX 173779 Fax: (720) 929-7461  
 City: DENVER State: CO Zip: 80217- Email: CHERYL.LIGHT@ANADARKO.COM  
**For "Intent" 24 hour notice required,** Name: PRECUP, JIM Tel: (303) 726-3822  
**COGCC contact:** Email: james.precup@state.co.us

API Number 05-123-20311-00 Well Number: 12-12A  
 Well Name: HSR-KARLIK  
 Location: QtrQtr: NWSW Section: 12 Township: 2N Range: 67W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon  Subsequent Report of Abandonment

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.151053 Longitude: -104.847639  
 GPS Data:  
 Date of Measurement: 10/21/2008 PDOP Reading: 2.0 GPS Instrument Operator's Name: Cody Mattson  
 Reason for Abandonment:  Dry  Production for Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes  No Estimated Depth: 825  
 Fish in Hole:  Yes  No If yes, explain details below  
 Wellbore has Uncemented Casing leaks:  Yes  No If yes, explain details below  
 Details: \_\_\_\_\_

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7841	7895			

Total: 1 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	725	510	725	0	VISU
1ST	7+7/8	4+1/2	11.6	7,980	230	7,980	5,640	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7770 with 2 sacks cmt on top. CIBP #2: Depth 7140 with 30 sacks cmt on top.  
CIBP #3: Depth 100 with 30 sacks cmt on top. CIBP #4: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 30 sks cmt from 7140 ft. to 6665 ft. Plug Type: CASING Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 5010 ft. with 355 sacks. Leave at least 100 ft. in casing 4150 CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 85 sacks half in. half out surface casing from 925 ft. to 525 ft. Plug Tagged:

Set 30 sacks at surface

Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No

Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. of \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

KARLIK 12-12A (HSR)

- 1 Call foreman or lead operator at least 24 hr prior to rig move. Request that they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
- 2 MIRU slickline services and VES. Pull bumper spring, tag bottom and run gyro survey from 7750' to surface with stops every 100'. RDMO slickline services and VES.
- 3 Provide notice of MIRU to COGCC field inspector as specified in approved Form 6.
- 4 Notify IOC when rig mobilizes to location to generate workorder for flowline removal and one call for line locates.
- 5 Prepare location for base beam equipped rig.
- 6 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
- 7 Notify cementers to be on call. Provide volumes (30 sx "G" w/20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cf/sk (inside 4.5"), 355 sx class "G", w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (8.5"+20% Caliper Log in file); 85 sx Type III CaCl2 cement mixed at 14.0 ppg and 1.53 cf/sx (8"+20%)).
- 8 TOOH 2 3/8" production tubing. Stand back.
- 9 MIRU WL.
- 10 RIH gauge ring for 4.5" 11.6#/ft csg to 7800'.
- 11 RIH CIBP, set at 7770'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class "G" cement on CIBP.
- 12 RIH CIBP, set at 7140'. PT CIBP to 1000 psi. RD WL
- 13 TIH to 7140'+/- tag CIBP hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
- 14 RU cement services.
- 15 Spot 30 sx "G" w/20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cf/sk on top of CIBP.
- 16 PUH 15 stands. Circulate 100 BBL water containing biocide to clear tubing.
- 17 Place 9.0 ppg mud containing biocide from 6240' to 5010' (~20BBL). TOOH
- 18 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 5010' and at 4090'. RD WL.
- 19 PU CICR on production tubing and set at 4150'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 20 RU cement services.
- 21 Pump 355 sx class "G", w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx. Underdisplace by 3 bbls, unsting from retainer and dump remaining on top of CICR.
- 22 PUH 7 stands. Circulate 60 BBL water containing biocide to clear tubing.
- 23 Place 9.0 ppg mud containing biocide from 3670' to 925' (~43BBL).
- 24 P&SB 925' tbg. LD remainder.
- 25 RU WL. Crack coupling or shoot off casing at 825'. RDMO WL. Circulate hole using 95 BBL water containing biocide to remove any gas.
- 26 NDBOP, NDTH.
- 27 NU BOP on casing head, install 4-1/2" pipe rams.
- 28 TOOH with 4-1/2" casing, LD.
- 29 TIH into csg stub using production tubing to 925'.
- 30 Spot 85 SX Type III CaCl2 cement mixed at 14.0 ppg and 1.53 cuft/sx.
- 31 PUH to 400'. Circulate 25 BBLs water containing biocide to clear tubing.
- 32 TOOH. WOC 4 hrs.
- 33 TIH and tag. If cement is below 525', discuss with production engineer.
- 34 Fill casing with 9.0 ppg mud containing biocide from tag to 100'.
- 35 MIRU WL. RIH 8-5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
- 36 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
- 37 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 38 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 39 Welder cut 8 5/8" casing minimum 5' below ground level.
- 40 MIRU ready cement mixer. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
- 41 Weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number
- 42 Properly abandon flowlines per Rule 1103.
- 43 Back fill hole with fill. Clean location, level.
- 44 Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.

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

Signed: \_\_\_\_\_ Print Name: CHERYL LIGHT  
 Title: SR. REGULATORY ANALYST Date: 9/5/2013 Email: DJREGULATORY@ANADARKO.COM

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: SCHLAGENHAUF, MARK Date: 10/3/2013

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 4/2/2014

<u>COA Type</u>	<u>Description</u>
	1) Provide 24 hour notice of MIRU to Jim Precup at 303-726-3822 or e-mail at james.precup@state.co.us. 2) Leave at least 100' cement in the casing for each plug. 3) For 925' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 675' or shallower. 4) Properly abandon flowlines as per Rule 1103.

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400476796	FORM 6 INTENT SUBMITTED
400476797	PROPOSED PLUGGING PROCEDURE
400476798	WELLBORE DIAGRAM
400476799	WELLBORE DIAGRAM

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well completion report dated 10/25/2001.	3/6/2013 2:19:40 PM

Total: 1 comment(s)