

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.

Document Number:
400476811

Date Received:
09/05/2013

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 05-123-10281-00

Well Name: DONALD K NORGRN UNIT E Well Number: 2

Location: QtrQtr: SWNW Section: 1 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: 40.170130 Longitude: -104.844350

GPS Data:
Date of Measurement: 07/18/2008 PDOP Reading: _____ 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: 804

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	7774	7830			

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	704	500	704	0	VISU
1ST	7+7/8	4+1/2	11.6	7,970	200	7,970	6,679	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7710 with 2 sacks cmt on top. CIBP #2: Depth 100 with 30 sacks cmt on top.
 CIBP #3: Depth _____ with _____ 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 _____ 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:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 7090 ft. with 135 sacks. Leave at least 100 ft. in casing 6750 CICR Depth
 Perforate and squeeze at 5020 ft. with 525 sacks. Leave at least 100 ft. in casing 4120 CICR Depth
 Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 90 sacks half in. half out surface casing from 904 ft. to 504 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:

NORGREN DONALD "E" #2

- 1 Remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence.
- 2 MIRU slickline services and VES. Pull bumper spring, tag bottom and run gyro survey from 7900' to surface with stops every 100'.
- 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 (135 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk (9.5"+20% Caliper Log in file), 525 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 (10"+20% Caliper Log in file); 90 sx Type III CaCl₂ cement mixed at 14.0 ppg and 1.53 cf/sx (7.875+60%)).
- 8 TOOH 2 3/8" production tubing. Stand back.
- 9 MIRU WL. RUN CBL from TD to surface. Contact production engineer if cement is found shallower than 7200'. Confirm all CIBP, CICR, perforation and casing cut depths with CBL.
- 10 RIH gauge ring for 4.5" 11.6#/ft csg to 7750'.
- 11 RIH CIBP, set at 7710'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class "G" cement on CIBP. RD WL
- 12 RU WL. PU 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 7090'. RD WL.
- 13 PU CICR on production tubing. TIH to 6750' hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
- 14 Set CICR at 6750'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 15 RU cement services.
- 16 Pump 135 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk. Underdisplace by 3 bbls, unsting from retainer and dump remaining 3 bbls on top of CICR.
- 17 PUH 6 stands. Circulate 105 BBL water containing biocide to clear tubing.
- 18 Place 9.0 ppg mud containing biocide from 6390' to 5020' (~22BBL). TOOH
- 19 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 5020' and at 4060'. RD WL.
- 20 PU CICR on production tubing and set at 4120'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 21 RU cement services.
- 22 Pump 525 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.
- 23 PUH 6 stands. Circulate 60 BBL water containing biocide to clear tubing.
- 24 Place 9.0 ppg mud containing biocide from 3760' to 904' (~46BBL).
- 25 P&SB 904' tbg. LD remainder.
- 26 RU WL. Crack coupling or shoot off casing at 804'. RDMO WL. Circulate hole using 100 BBL water containing biocide to remove any gas.
- 27 NDBOP, NDTH.
- 28 NU BOP on casing head, install 4-1/2" pipe rams.
- 29 TOOH with 4-1/2" casing, LD.
- 30 TIH into csg stub using production tubing to 904'.
- 31 Spot 90 SX Type III CaCl₂ cement mixed at 14.0 ppg and 1.53 cuft/sx.
- 32 PUH to 350'. Circulate 22 BBLs water containing biocide to clear tubing.
- 33 TOOH. WOC 4 hrs.
- 34 TIH and tag. If cement is below 504', discuss with production engineer.
- 35 Fill casing with 9.0 ppg mud containing biocide from tag to 100'.
- 36 MIRU WL. RIH 8-5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
- 37 Submit paper copies of all invoices, logs, and reports.
- 38 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 39 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 40 Welder cut 8 5/8" casing minimum 5' below ground level.
- 41 MIRU ready cement mixer. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
- 42 Weld on steel marker plate.

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

COA Type	Description
	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 904' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 654' or shallower. 4) Properly abandon flowlines as per Rule 1103.

Attachment Check List

Att Doc Num	Name
400476811	FORM 6 INTENT SUBMITTED
400476813	PROPOSED PLUGGING PROCEDURE
400476814	WELLBORE DIAGRAM
400476815	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Permit	Well completion report dated 12/22/1981.	3/6/2013 3:03:21 PM

Total: 1 comment(s)