FORM 6 Rev 05/18

State of Colorado
Oil and Gas Conservation Commission

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

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Document Number: 401730574

Date Received: 08/28/2018

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: 27635 Contact Name: JACK MCCARTNEY

Name of Operator: ENERGY SEARCH CO ADBA ENERGY SEARCH CO Phone: (303) 830-7208

Address: PO BOX 1896 Fax: (303) 830-7004

City: EDWARDS State: CO Zip: 81632 Email: jack@mccartneyengineering.com

For "Intent" 24 hour notice required, Name: Beardslee, Tom Tel: (970) 420-3935

COGCC contact: Email: tom.beardslee@state.co.us

API Number 05-001-06852-00

Well Name: TSUZUKI Well Number: 3

Location: QtrQtr: SWNE Section: 28 Township: 1S Range: 67W Meridian: 6

County: ADAMS Federal, Indian or State Lease Number:

Field Name: SPINDLE Field Number: 77900

☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.937761 Longitude: -104.891345

GPS Data:

Date of Measurement: 06/13/2012 PDOP Reading: 3.8 GPS Instrument Operator's Name: Sarah Burkhalter

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☐ Yes ☒ No Estimated Depth:

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
SUSSEX	5111	5160			

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	10	8+5/8	24	98	100	98	0	VISU
1ST	7+7/8	4+1/2	10.5	5,200	200	5,200	4,397	CALC
			Stage Tool	1,355	200	1,355	475	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 5011 with 2 sacks cmt on top. CIPB #2: Depth 2400 with 5 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 25 sks cmt from 1400 ft. to 1040 ft. Plug Type: CASING Plug Tagged: [X]

Set 50 sks cmt from 650 ft. to 200 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: [ ]

Perforate and squeeze at 2500 ft. with 55 sacks. Leave at least 100 ft. in casing 2400 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 60 sacks half in. half out surface casing from 160 ft. to 0 ft. Plug Tagged: [ ]

Set _____ 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 1105 [ ] Yes [ ] No *ATTACH JOB SUMMARY

Technical Detail/Comments:

1. MIRU service unit, blow down well, kill if necessary.
2. Pull & lay down rods & pump.
3. RU BOP's, pull tubing standing back approximately 1360' in derrick and laying down rest.
4. RU wireline unit, set CIBP @ 5011', place 2 sxs cmt on top of CIBP.
5. Fill hole and circulate out oil, pressure test to 300 psig (or higher) for 15 minutes.
6. Run bond log from 1600' to surface, email log to COGCC representative.
7. If insufficient cement coverage of Fox Hills & Lower Laramie formations, check with COGCC representative for further instructions to isolate aquifers.
8. If adequate cement coverage of aquifers, RU cementers, set casing plug from 1360' to 1040' with 25 sxs cmt, tag cement top.
9. Set casing plug from 650' to surfaace with 50 sxs cement.
10. If cement top in annulus is below surface casing, perforate 50' above TOC or at 250', whichever is shallower, and circulate cement to surface.
11. Top off cement in annulus if necessary.
12. Flush flowlines to battery.
13. Move out service rig.
14. Cut off csg & weld on cap with well identification data at a minimum of 4' below surface.
15. Remove flowlines and battery facilities.
16. Check for soil contamination at well location, flowlines, and battery facilities and respond accordingly.

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

Signed: _____ Print Name: JACK MCCARTNEY

Title: Submitter Date: 8/28/2018 Email: jack@mccartneyengineering.com

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

COGCC Approved: Date: 9/14/2018

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 3/13/2019

COA Type	Description
	NOTE: Changes in plugging procedure. CBL to be run prior to plugging to verify stage tool setting depth and existing coverage - submit to COGCC for verification of plugging orders. Additional plugs required (2500' - 55 sx through CICR and 5 sx on top) and plug listed as half in-half out surface casing is actually perforated at 160' and 60 sx pumped to surface. 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 1400’ plug: pump plug and displace - tag plug – must be 1080’ or shallower. If shoe plug (160') not circulated to surface or does not remain at surface - tag plug and provide cement at surface (inside and outside of annulus). 3) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.
	Notify Mike Hickey 5-10 days prior to rigging up.
	Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.
	Prior to starting plugging operations a bradenhead test shall be performed. 1)If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2)If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. 3)If sampling is required contact COGCC engineering for a confirmation of plugging requirements prior to placing any plugs. 4)Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test. 5)Submit Form 42 electronically to COGCC 48 hours prior to MIRU 6)Prior to placing the 1360’ plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging requirements. 7)After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 1100’. 8)Leave at least 100’ of cement in the wellbore for each plug. 9)Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.

Attachment Check List

Att Doc Num	Name
401730574	FORM 6 INTENT SUBMITTED
401732158	WELLBORE DIAGRAM
401732160	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Upper Arapahoe 4978 4989 4.6 110 99 1.25 E NNT Lower Arapahoe 4634 4911 133.8 454 177 36.40 NT Laramie-Fox Hills 3954 4249 228.2 1134 839 54.77 NT Deepest WW 1085' LKA, UKA developed	09/10/2018
Engineer	Waiting on site plan from DR Horton.	09/06/2018
Permit	WBD has incorrect API# •Permitting Review Complete.	09/06/2018
Well File Verification	Pass	08/29/2018

Total: 4 comment(s)