


FORM 6 Rev 12/05	State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109				DE	ET	OE	ES
	WELL ABANDONMENT REPORT				Replug By Other Operator Document Number: 400824785 Date Received: 04/14/2015			

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: Peterson, Tom Tel: (303) 815-9641 COGCC contact: Email: tom.peterson@state.co.us	

API Number 05-123-09625-00	
Well Name: VAWTER ESTATE	Well Number: 1
Location: QtrQtr: SWSW Section: 2 Township: 1N Range: 66W Meridian: 6	
County: WELD	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: 40.074980 Longitude: -104.751340

GPS Data: Date of Measurement: 03/13/2015 PDOP Reading: 1.7 GPS Instrument Operator's Name: OWEN MCKEE

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

☒ Other RE-ENTER AND PLUG

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: The well was Drilled and Abandoned by Cotton Petroleum Corp in 1978'. They did not place a plug across the Sussex formation and did not adequately cover all groundwater formations. Purpose is to reenter and adequately replug prior to hydraulic stimulation of proposed horizontal well per DJ Basin Offset Policy dated December 16, 2013.

Current and Previously Abandoned Zones					
Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
Total: 0 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	241	240	241	0	VISU
OPEN HOLE	7+7/8			5,000				CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 sacks cmt on top. CIPB #2: Depth _____ with _____ 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 150 sks cmt from 5000 ft. to 4690 ft. Plug Type: OPEN HOLE Plug Tagged: ☒
Set 530 sks cmt from 1240 ft. to 100 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 _____ 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

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

(Cast Iron Cement Retainer Depth)

Set 530 sacks half in. half out surface casing from 1240 ft. to 100 ft. Plug Tagged: ☒

Set 25 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:

Closed loop system will be used.
Re-plug and re-entry procedure attached.

4 MIRU workover rig equipped for openhole re-entry work. NU 9" 3000 psi BOP stack on casing head. PT BOP and csg head per approved Form 6. Function test BOPE . NU rotating head on BOP. Hook up return line to shale shaker on flat tank. Spot trailer with 158 jnts of 2-7/8" WS, necessary drill collars and bits.

5 PU 7 7/8" junk mill or rock bit, necessary drill collars and drill pipe/work string (WS). Drill through existing cement plugs at surface (10 sk) and at the base of surface casing (15 sk plug ~200'-270') using fresh water with biocide.

6 Once surface cement plugs are drilled, displace hole with drilling mud and continue in hole.

7 Drill out Fox Hills isolation plug from ~600' - 950' (150 sacks).

8 Continue to RIH to 5000' and tag TD. Circulate to condition the hole and remove all gas.

9 POOH and lay down drill bit and drill collars as necessary.

10 Notify Cementers to be on call.

11 RIH 2-7/8" WS while hydrotesting to 3000 psi open ended to TD @ 5000'.

12 RU VES. Run gyro from EOT to surface making stops every 100'. Send invoice and results to Sabrina Frantz. RD VES.

13 Pump Sussex balanced plug. Spot cement plug consisting of 265 cu-ft (230 sx) "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl₂ as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Cement to be preceded by sodium metasilicate mixed in 20 bbls water followed by 5 bbls fresh water spacer per cementing company recommendation. Calculated top of plug is 4690' based on 9" hole with 20% excess.

14 POOH to ~ 4500' and circulate clean. WOC 4 hrs, RIH and tag TOC. P&LD WS to place end of WS at 1240'.

15 Pump Fox Hills balanced plug. Pump mud flush of 10 bbls SAPP then 20 bbls water spacer ahead of 125.5 bbls (530 sx) Type III w/cello flake and CaCl₂ as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. Plug size is based on 9" hole with 40% excess covering 1240' to shoe of surface casing at 241' plus capacity of surface casing to 100'.

16 POOH to ~ 100' and circulate clean. TOOH and WOC per cement company recommendation. Tag TOC @ 141' or shallower. Contact Evans Engineering if tag is deeper.

17 PU casing scraper for 8-5/8" and RIH to 100'. POOH and LD scraper and WS.

18 RU WL. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD WL. RDMO WO Rig.

19 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.

20 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.

21 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

22 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.

23 Welder cut casing minimum 5' below ground level.

24 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

25 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

26 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

27 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

28 Back fill hole with fill. Clean location, level.

29 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: 4/14/2015 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: 4/15/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 10/14/2015

COA Type

Description

	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) For 1240' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 141' or shallower. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400824785	FORM 6 INTENT SUBMITTED
400824793	SURFACE OWNER CONSENT
400824794	PROPOSED PLUGGING PROCEDURE
400824795	WELLBORE DIAGRAM
400824798	LOCATION PHOTO

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Subsequent Report of Abandonment dated 11/07/1978.	4/14/2015 11:27:29 AM

Total: 1 comment(s)