

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:
400857170

Date Received:
06/23/2015

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 05-123-10475-00 Well Number: 1

Well Name: LEONA

Location: QtrQtr: NWSW Section: 23 Township: 1N 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: 40.034698 Longitude: -104.864971

GPS Data:
Date of Measurement: _____ PDOP Reading: _____ GPS Instrument Operator's Name: _____

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: This well was originally abandoned in 1987 with production casing cut off at 6500'. Well is to be re-entered to add cement plugs above the Niobrara and across the Sussex formation, and Fox Hills coverage from 1120' to 100'.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7614	7620	09/24/1987	CEMENT	7485

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	242	200	242	11	VISU
1ST	7+7/8	4+1/2	11.6	7,750	175	7,752	7,075	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 sacks cmt on top. CIBP #2: Depth _____ with _____ 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 180 sks cmt from 6500 ft. to 6100 ft. Plug Type: OPEN HOLE Plug Tagged:
 Set 360 sks cmt from 4800 ft. to 4370 ft. Plug Type: OPEN HOLE 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 1120 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:

Rig site modification once approval is r'cd. Need to relocate hay in barn, want to minimize impact.
METHOD OF ISOLATION - PREVIOUSLY ABANDONED ZONE: Sand plug with 5 sack cmt cap.
 1 Locate and expose 8 5/8" casing stub. Extend stub to surface and install 8 5/8"x 11" SOW, 3M casing head with 3000 psi ball valves in both outlets. Prepare location for workover rig. Install perimeter fence as needed. NOTE: This well is under a hay barn.
 2 Provide notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Install perimeter fence as needed.
 3 MIRU workover rig. NU 9" 3000 psi BOP stack on casing head. PT BOP and csg head per approved Form 2. Function test BOPE . Install a choke or choke manifold on casing outlet. NU rotating head on BOP. Hook up return line to shale shaker on flat tank. Ensure full opening 2-7/8" TIW on rig floor.
 4 PU 7 7/8" mill tooth bit, inline float, necessary drill collars and drill pipe/work string (WS). Drill through existing cement plugs at surface (10sk) and at the base of surface casing (35 sk plug 1/2 in, 1/2 out of sfc csg) using fresh water with biocide.
 5 Once surface cement plugs are drilled, Displace hole with drilling mud and drill out 35 sack open-hole plug set at ~750'-800'. Continue going in hole washing down to 4 1/2" casing stub at 6500'.
 6 TOOH standing back WS. LD drill collars and bit. RIH WS open-ended to ~6500'. Circulate and condition hole for cement plug.
 7 RU Cementers. Mix and equalize cement plug (6500'-6100') consisting of 180 sx Thermal-35 with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cuft/sack. Calculated top of plug is 6200' based on 9 1/2" hole with 40% excess. POOH to ~5000' and circulate clean. WOC per cement company recommendation.
 8 Tag top of plug at 6100'. TOH and LD WS to place end of WS at 4800'
 9 Equalize cement plug consisting of 360 sx "G" w/0.25 lb/sk polyflake, 0.5% CFR-2, 0.2% FMC, 0.5% LWA with CaCl2 as deemed necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Cement to be preceded by 5 bbls water, sodium metasilicate mixed in 20 bbls water per cementing company recommendation, and 5 bbl water spacer. Cement volume calculated to cover 4800'-4370' based on 11.5" hole with 40% excess.
 10 POOH to ~ 3500' and circulate clean. WOC per cement company recommendation.
 11 Tag plug at 4370'. LD WS to place end of WS at 1120'.
 12 Equalize cement plug consisting of 530 sx Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.34 cf per sack, 14.8 ppg. POH and WOC per cementing company recommendation. Plug size is based on 12" hole with 40% excess covering 1120' to base of surface casing at 242' plus capacity of surface casing to 100'. Pump plug in two stages if necessary due to volume.
 13 POOH and WOC per cementing company recommendation.
 14 Tag top of plug at 100'. POOH and LD WS.
 15 RU wireline. 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 wireline.
 16 RDMO workover rig.
 17 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.
 18 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
 19 Excavate hole around surface casing of sufficient size to allow welder to cut off 8 5/8" casing at least 5' Below ground level (depending on land owner requirements).
 20 Fill sfc casing with 4500 psi compressive strength cement (no gravel).
 21 Spot weld steel marker plate on top of sfc casing stub. Marker shall be labeled with well name, well number, legal location (1/4 1/4 descriptor) and API number.
 22 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
 23 Back fill hole with native material. Reclaim location to landowner specifications
 24 Submit Form 6 to COGCC. Provide "As plugged" wellbore diagram identifying the specific plugging 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: 6/23/2015 Email: cheryl.light@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: 6/24/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/23/2015

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 1120' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 192' or shallower. 4) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400857170	FORM 6 INTENT SUBMITTED
400857185	SURFACE OWNER CONSENT
400857190	WELLBORE DIAGRAM
400857191	WELLBORE DIAGRAM
400857192	PROPOSED PLUGGING PROCEDURE
400857225	LOCATION PHOTO

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 1/19/1982. Sundry Notice to PA dated 9/10/1987.	6/24/2015 9:28:04 AM

Total: 1 comment(s)