

**State of Colorado  
Oil and Gas Conservation Commission**

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**SUNDRY NOTICE**

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

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: 80217-3779 Email: cheryl.light@anadarko.com

Complete the Attachment  
Checklist

OP OGCC

API Number : 05- 123 09458 00 OGCC Facility ID Number: 241669  
 Well/Facility Name: PAUL SCHMIDT GAS UNIT B Well/Facility Number: 1  
 Location QtrQtr: NENE Section: 20 Township: 2N Range: 66W Meridian: 6  
 County: WELD Field Name: WATTENBERG  
 Federal, Indian or State Lease Number: \_\_\_\_\_

Survey Plat		
Directional Survey		
Srvc Eqpmt Diagram		
Technical Info Page		
Other		

**CHANGE OF LOCATION OR AS BUILT GPS REPORT**

- Change of Location \*     As-Built GPS Location Report     As-Built GPS Location Report with Survey

\* Well location change requires new plat. A substantive surface location change may require new Form 2A.

**SURFACE LOCATION GPS DATA** Data must be provided for Change of Surface Location and As Built Reports.

Latitude \_\_\_\_\_ PDOP Reading \_\_\_\_\_ Date of Measurement \_\_\_\_\_  
 Longitude \_\_\_\_\_ GPS Instrument Operator's Name \_\_\_\_\_

**LOCATION CHANGE (all measurements in Feet)**

Well will be: \_\_\_\_\_ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

	FNL/FSL		FEL/FWL
990	FNL	1060	FEL

Change of **Surface** Footage **To** Exterior Section Lines:

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Current **Surface** Location **From** QtrQtr NENE Sec 20

Twp 2N Range 66W Meridian 6

New **Surface** Location **To** QtrQtr \_\_\_\_\_ Sec \_\_\_\_\_

Twp \_\_\_\_\_ Range \_\_\_\_\_ Meridian \_\_\_\_\_

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

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Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

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Current **Top of Productive Zone** Location **From** Sec \_\_\_\_\_

Twp \_\_\_\_\_ Range \_\_\_\_\_

New **Top of Productive Zone** Location **To** Sec \_\_\_\_\_

Twp \_\_\_\_\_ Range \_\_\_\_\_

Change of **Bottomhole** Footage **From** Exterior Section Lines:

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Change of **Bottomhole** Footage **To** Exterior Section Lines:

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Current **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

Range \_\_\_\_\_ \*\* attach deviated drilling plan

New **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

Range \_\_\_\_\_

Is location in High Density Area? \_\_\_\_\_

Distance, in feet, to nearest building \_\_\_\_\_, public road: \_\_\_\_\_, above ground utility: \_\_\_\_\_, railroad: \_\_\_\_\_,  
 property line: \_\_\_\_\_, lease line: \_\_\_\_\_, well in same formation: \_\_\_\_\_

Ground Elevation \_\_\_\_\_ feet Surface owner consultation date \_\_\_\_\_

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

<u>Objective Formation</u>	<u>Formation Code</u>	<u>Spacing Order Number</u>	<u>Unit Acreage</u>	<u>Unit Configuration</u>

OTHER CHANGES

**REMOVE FROM SURFACE BOND** Signed surface use agreement is a required attachment

**CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name PAUL SCHMIDT GAS UNIT B Number 1 Effective Date: \_\_\_\_\_

To: Name \_\_\_\_\_ Number \_\_\_\_\_

**ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.**

WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number \_\_\_\_\_ has not been drilled.

PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number \_\_\_\_\_ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number \_\_\_\_\_ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: \_\_\_\_\_

Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

**Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.**

**REQUEST FOR CONFIDENTIAL STATUS**

**DIGITAL WELL LOG UPLOAD**

**DOCUMENTS SUBMITTED** Purpose of Submission: \_\_\_\_\_

RECLAMATION

**INTERIM RECLAMATION**

Interim Reclamation will commence approximately \_\_\_\_\_

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

**Field inspection will be conducted to document Rule 1003.e. compliance**

**FINAL RECLAMATION**

Final Reclamation will commence approximately \_\_\_\_\_

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

**Field inspection will be conducted to document Rule 1004.c. compliance**

Comments:

**ENGINEERING AND ENVIRONMENTAL WORK**

NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned \_\_\_\_\_ Has Production Equipment been removed from site? \_\_\_\_\_

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT \_\_\_\_\_

SPUD DATE: \_\_\_\_\_

**TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK**

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT                      Approximate Start Date    03/21/2014

REPORT OF WORK DONE                      Date Work Completed    \_\_\_\_\_

<input type="checkbox"/> Intent to Recomplete (Form 2 also required)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Mangement Plan
<input type="checkbox"/> Change Drilling Plan	<input checked="" type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Change	<input type="checkbox"/> Rule 502 variance requested. Must provide detailed info regarding request.	
<input type="checkbox"/> Other _____	<input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases	

**COMMENTS:**

**REMEDIAL CEMENT**

Paul Schmidt GU B 2

1 PLEASE NOTE THAT CEMENT/TOOL DEPTHS WILL LIKELY CHANGE BASED ON CBL. PLEASE VERIFY ALL DEPTH WITH EVANS ENGINEERING BEFORE PROCEEDING ON PERFORATING/PUMPING CEMENT.

2 Level location for base beam rig.

3 Call Foreman or Field Coordinator before rig up to catch plunger, isolate production equipment, and ask if replacement parts/equipment are requested.

4 Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.

5 Spot a minimum of 2 jts 2-3/8", 4.7#, J-55 EUE TBG for replacement.

6 MIRU slickline. Fish production equipment as necessary and tag fill. Note tagged depth in OpenWells. RDMO Slickline.

7 MIRU WO rig, flat tanks and rig pumps. Kill well, as necessary, with biocide treated fresh water. ND WH. NU BOP.

8 Unseat landing joint and lay down.

9 MIRU EMI services. TOO H with 2-3/8" TBG. EMI on TOO H. LD joints with wall loss or penetrations > 35%. Replace joints as necessary. \*\*Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS.

10 PU casing scraper for 4-1/2", 10.5/11.6# casing and TIH to 7860' KB. Circulate all debris from wellbore with clean water. POOH and stand back tubing and LD scraper.

11 MIRU WL. RIH with CCL and CIBP. Set CIBP at 7825'. POOH.

12 RIH with CCL and CBL/VDL/GR tool. Correlate depth to Schlumberger Density log dated 5/2/78. Run CBL from just above CIBP to surface. Immediately send CBL to Matt Agee for review to verify cement/perforation plans.

13 Pressure test casing/CIBP to 1000 psi for 15 mins. If pressure test passes, proceed.

14 ND BOPs, ND existing tubing head. NU new 5000 psi rated wellhead but do not install adapter flange. NU BOPs.

15 RIH with CCL and perf guns. Correlate depth to CBL. PUH and shoot squeeze holes as per the following: 6990'-6991', 3 spf, 0.38" EHD. POOH and LD guns.

16 PU and TIH retrievable packer for 4-1/2", 10.5/11.6# casing. Set packer at 2600'. Establish injection/circulation before setting CICR. Note rate, pressure, volume pumped. Release packer and TOO H while standing back tubing and laying down packer.

17 RIH and set CICR at 6890'. RDMO WL.

18 PU stinger and RIH on 2-3/8" tbg. Sting into retainer at 6890'.

19 RU cementer. Prepare & pump 100 sks 50/50 Poz 'G' + 20% silica flour + 3% gel + 0.4% fluid-loss additive + 0.1% SMS, mixed at 13.5 ppg and 1.71 cu ft/sk, into squeeze holes at 6990'. Displace cement 1/2 bbl short of CICR. Sting out of CICR, place remaining cement on top of CICR. PUH 1 std and reverse out. Design is for coverage from 6990 to 6590 in 9" hole (partial caliper log), including 20% excess.

20 TOO H and stand back tbg. LD stinger. WOC overnight at minimum.

21 RIH with CCL and perf guns. Correlate depth to CBL. PUH and shoot squeeze holes as per the following: 5230'-5231', 3 spf, 0.38" EHD. PUH and shoot circulation holes as per the following: 4215'-4216', 3 spf, 0.6" EHD. POOH and LD guns.

22 RIH and set CICR at 5100'. RDMO WL.

23 PU stinger and RIH on 2-3/8" tbg. Sting into CICR at 5100'.

24 Establish circulation down tubing. Note rate, pressure, volume pumped, and returns percent.

25 RU cementer. Prepare & pump 460 sks G neat cement + 1/4 #/sk cello flake + 0.4 dispersant + 0.4% anti-settling agent, mixed at 15.8 ppg and 1.15 cu ft/sk, into squeeze holes at 5230'. Displace cement 1.5 bbl short of CICR. Sting out of CICR, place 1/2 bbl of remaining cement on top of CICR. PUH to squeeze circulation holes at 4215'. Place remaining cement across holes. PUH 3 stands and reverse out. Design is for coverage from 5230 to 4215 in 10.5" hole (caliper log), including 10% excess.

26 TOO H and stand back tbg. LD stinger. WOC 24 hrs at minimum.

27 TIH with 3-7/8" bit on 2-3/8" TBG. Drill through cement down to at least 4315'.

28 Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed.

**CASING AND CEMENTING CHANGES**

Casing Type	Size	Of	/	Hole	Size	Of	/	Casing	Wt/Ft	Csg/LinTop	Setting Depth	Sacks of Cement	Cement Bottom	Cement Top

**H2S REPORTING**

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: \_\_\_\_\_ in ppm (parts per million)

Date of Measurement or Sample Collection \_\_\_\_\_

Description of Sample Point:

Absolute Open Flow Potential \_\_\_\_\_ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: \_\_\_\_\_

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: \_\_\_\_\_

COMMENTS:

<b><u>Best Management Practices</u></b>	
<b><u>No BMP/COA Type</u></b>	<b><u>Description</u></b>

Operator Comments:

29 Continue to drill through cement and CICR down past perforations at 5230' to at least 5330'. Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed.

30 Continue to drill through cement and CICR down past perforations at 6990' to at least 7090'. Pressure test squeeze perforations to 1000 psi for 15 mins. If pressure test passes, proceed.

31 MIRU WL. RIH with CCL and CBL/VDL/GR tool. Correlate depth to CBL. Run CBL from just above CIBP to 4000'. Immediately send CBL to Matt Agee for review to verify cement coverage and proceeding plans.

32 Continue to drill out to PBTD of 7956'.

33 TOO H while standing back tubing and LD bit.

34 MIRU hydrotester.

35 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple, 108 joints 2-3/8" TBG, Arrowset AS-1X packer (10k psi rated), and 2-3/8" TBG. Hydrotest tubing to 6000 psi while RIH. Set packer at 4500'. Landed EOT depth should be +/- 7846'.

36 Load backside with biocide treated water and pressure test packer to 1000 psi for 15 min.

37 ND BOP. NU new TBG head adapter. Ensure all valves on TBG head are rated to 5000 psi and ensure TBG head has a new R-46 ring gasket installed.

38 Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures.

39 RDMO hydrotester. RDMO WO rig.

40 Return well to production team.

41 END OF SAFETY PREP STEPS. BELOW ARE STEPS FOR UN-PREPPING THE WELL.

42 When notification is sent to un-prep well, MIRU WO rig.

43 Control well with biocide treated water.

44 ND WH. NU BOP.

45 Release Arrowset AS-1X packer and POOH with 2-3/8" TBG, Arrowset packer, XN profile nipple, and NC while standing back TBG and laying down packer.

46 Return packer to shop were purchased and have redressed.

47 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple (ensure nipple is input into OpenWells), and 2-3/8" TBG.

48 Clean out to PBTD at 7956' using biocide treated water. Use a bailer if necessary.

49 PUH and land TBG at 7846', which is approximately 1 joint above the top JS perf.

50 RU rig lubricator. Broach TBG to SN. RD rig lubricator.

51 ND BOP, NU WH.

52 MIRU hydrotesters. Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures. RDMO hydrotesters.

53 RDMO WO rig. Swab well back if needed. Return well to production team.

Optional procedure requested by COGCC:

1 PICK UP PROCEDURE AFTER STEP 26 IN ORIGINAL PROCEDURE.

2 If CBL shows DV tool/cement base to be shallower than reported depth of 697', consult Evans engr and COGCC for possible implementation of following procedure.

3 Perforate casing at 1500' and 700' (or just below cement base). Set CICR at 1400'.

4 Prepare & pump 275 sks Type III cement w/ 1/4 #/sk cello flake. Design is for coverage from 1500' to 700'.

5 TOO H. WOC 48 HOURS.

6 Drill through cement and CICR. Pressure test squeeze perforations to 1000 psi for 15 mins.

7 CONTINUE FOLLOWING ORIGINAL PROCEDURE FOR PROCEEDING STEPS, STARTING WITH STEP 27 OF ORIGINAL PROCEDURE. All cement to be verified with CBL.

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 \_\_\_\_\_ Email: DJRegulatory@anadarko.com \_\_\_\_\_ Date: 3/12/2014 \_\_\_\_\_

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: SCHLAGENHAUF, MARK \_\_\_\_\_ Date: 3/14/2014 \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

	<p>1) Verify existing cement with a cement bond log. 2) If Niobrara coverage not present provide remedial cement at least 200' above Niobrara. 3) The Sussex formation is productive within one mile of this well. Therefore, cement isolation, which does not currently exist across it according to COGCC records, must be provided, by using a perforate and squeeze or equivalent method so that at a minimum there is cement from 200' above to 200' below the Sussex formation. 4) Provide remedial cement to ensure Fox Hills aquifer coverage if DV tool/cmt depth shallower than 697'. 5) The additional cement referenced shall be placed as indicated and comply with Rule 317.i. The placed cement shall be verified with a CBL and documented with a Form 5 Drilling Completion Report.</p>
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**General Comments**

**User Group**

**Comment**

**Comment Date**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)

**Attachment Check List**

**Att Doc Num**

**Name**

400570773	FORM 4 SUBMITTED
400570775	OTHER

Total Attach: 2 Files