

State of Colorado
Oil and Gas Conservation Commission

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DE	ET	OE	ES
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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: 69175 Contact Name Ed Winters
 Name of Operator: PDC ENERGY INC Phone: (303) 860-5800
 Address: 1775 SHERMAN STREET - STE 3000 ATTN: JEFF GLOSSA Fax: (303) 860-5838
 City: DENVER State: CO Zip: 80203 Email: _____

Complete the Attachment
Checklist

OP OGCC

API Number : 05- 045 16215 00 OGCC Facility ID Number: 296916
 Well/Facility Name: PUCKET Well/Facility Number: 23C-24D
 Location QtrQtr: NWSE Section: 24 Township: 6S Range: 97W Meridian: 6
 County: GARFIELD Field Name: GRAND VALLEY
 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:

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

Current **Surface Location From** QtrQtr Sec

New **Surface Location To** QtrQtr Sec

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

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

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

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

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

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

Current **Bottomhole Location** Sec Twp Range

New **Bottomhole Location** Sec Twp 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 _____

FNL/FSL		FEL/FWL	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Twp <input type="text"/>	Range <input type="text"/>	Meridian <input type="text"/>	
Twp <input type="text"/>	Range <input type="text"/>	Meridian <input type="text"/>	
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Twp <input type="text"/>	Range <input type="text"/>		
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** attach deviated drilling plan			

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 _____

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 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 checked="" type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases	

COMMENTS:

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:

Best Management Practices		
No	BMP/COA Type	Description

Operator Comments:

INITIAL RESPONSE ACTIONS:

A PRODUCED WATER RELEASE WAS REPORTED TO PDC ENERGY (PDC) ON JUNE 6, 2011. THE INCIDENT TRACKING NUMBER IS 2214912. THE RELEASE WAS CAUSED FROM A BROKEN SIGHT TUBE ON A VACUUM TRUCK. APPROXIMATELY SIXTY-FOUR (64) BARRELS OF PRODUCED WATER WERE RELEASED ONTO THE WELL PAD. ALL RELEASED FLUID WAS CONTAINED TO THE WELL PAD. APPROXIMATELY THIRTY-FIVE (35) BARRELS OF FLUID WERE RECOVERED BY VACUUM TRUCK.

HRL COMPLIANCE SOLUTIONS, INC. (HRL) WAS CONTACTED AND A SITE INVESTIGATION WAS CONDUCTED ON JUNE 6, 2011. ONSIGHT FIELD MEASUREMENTS, BOREHOLES, AND FIELD SCREENS WERE USED TO DETERMINE THE LATERAL AND VERTICAL EXTENT OF THE HYDROCARBON IMPACT.

PRODUCED WATER INVESTIGATION:

A SERIES OF SOIL BORINGS WERE INSTALLED WITHIN THE IMPACTED AREA BY USE OF A HAND AUGER. A PETROFLAG WAS UTILIZED TO FIELD SCREEN THE IMPACTED SOIL. FIELD SCREEN RESULTS REVEALED THE EXTENT OF THE IMPACTS WAS LESS THAN ONE FOOT BELOW THE GROUND SURFACE. FIELD SCREENING OF THE IMPACTED SOIL ALSO REVEALED HYDROCARBON CONTAMINATION WHICH EXCEEDED THE COGCC TABLE 910-1 ALLOWABLE STANDARD OF 500 PPM TPH IN SOIL. BASED ON FIELD MEASUREMENTS, IT WAS ESTIMATED THAT APPROXIMATELY EIGHTY-FIVE (85) CUBIC YARDS OF SOIL WAS IMPACTED BY THE RELEASE.

A FURTHER SITE INVESTIGATION WAS CONDUCTED ON JULY 8, 2011. DURING THE SITE CHARACTERIZATION, FIELD SCREEN RESULTS REVEALED CONTAMINATE LEVELS WERE BELOW COGCC TABLE 910-1 ALLOWABLE STANDARDS. A SOIL SAMPLE WAS COLLECTED TO CONFIRM FIELD SCREEN RESULTS. HYDROCARBON ANALYTICAL RESULTS WERE BELOW TABLE 910-1 STANDARDS. THEREFORE, IT WAS DETERMINED THAT NATURAL ATTENUATION HAD REDUCED THE HYDROCARBON LEVELS TO BELOW TABLE 910-1 STANDARDS FOR SOILS BEFORE A REMEDIATION PLAN COULD BE IMPLEMENTED.

AN ADDITIONAL CONFIRMATION SAMPLE WAS COLLECTED ON JULY 13, 2011. A HAND AUGER WAS UTILIZED TO COLLECT THE SAMPLE FROM APPROXIMATELY ONE FOOT BELOW THE GROUND SURFACE. THE SAMPLE WAS SUBMITTED TO AN ACCREDITED ANALYTICAL LABORATORY FOR FULL TABLE 910-1 PARAMETERS. ANALYTICAL RESULTS WERE BELOW COGCC STANDARDS FOR SOIL WITH THE EXCEPTION OF ARSENIC. A SOIL SAMPLE LOCATION

MAP IS ATTACHED.

ARSENIC:

THIS COGCC FORM 4 IS ALSO BEING USED TO SUBMIT ANALYTICAL RESULTS FOR ARSENIC AT THE PUCKETT 23C-24D WELL PAD AS WELL AS BACKGROUND ARSENIC CONCENTRATIONS. IN ACCORDANCE WITH FOOTNOTE 1 TO THE COGCC TABLE 910-1, THE IMPACTED AREA ARSENIC CONCENTRATION IS BELOW BACKGROUND ARSENIC LEVELS. THE INFORMATION IS SUMMARIZED BELOW.

THE REQUEST IS BASED ON THE ANALYTICAL RESULTS BELOW

PUCKETT 23C-24D CONFIRMATION SAMPLE 3.6 MG/KG

THREE (3) GRAB SAMPLES WERE COLLECTED FROM NEARBY NON-IMPACTED, NATIVE SOIL FROM THE SURFACE TO EIGHT (8) INCHES BELOW TO ESTABLISH BACKGROUND ARSENIC CONCENTRATIONS

PUCKETT 23C-24D BACKGROUND 1 21 MG/KG

PUCKETT 23C-24D BACKGROUND 2 28 MG/KG

PUCKETT 23C-24D BACKGROUND 3 44 MG/KG

AVERAGE 31 MG/KG

BASED ON THE ANALYTICAL RESULTS FROM THE REMEDIATED AREA AND THE NATIVE BACKGROUND SOIL SAMPLES, PDC IS REQUESTING THAT A VARIANCE BE APPROVED FOR THE REMEDIATED SOIL WITH RESPECT TO ARSENIC.

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

Signed: _____ Print Name: _____
Title: _____ Email: _____ Date: _____

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

COGCC Approved: _____ Date: 4/27/2015

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)

Attachment Check List

Att Doc Num	Name

Total Attach: 0 Files