

Closure Report

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APR 28 2014

NMOCD ARTESIA

Site Description	
Site Name:	Perkins Cottomouth 4 inch SWD Line
Company:	COG Operating LLC
Legal Description:	U/L G, Section 30, T26S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.03426° W 104.02428°

Release Data	
Date of Release:	08/07/2012
Type of Release:	Produced water
Source of Release:	4" SWD poly transmission line
Volume of Release:	40 bbls
Volume Recovered:	0 bbls

Remediation Specifications	
Remediation Parameters:	Excavate around SP1 to achieve a CI level of 1,000 ppm, then backfill w/ clean soil. On down slope of leak path, construct diversion berms. Obtain a bottom confirmation sample at 4' at SP8. (If CI is $\leq$ 1,000 ppm, no excavation; if $\geq$ 1,000 ppm, 4' excavation is required then backfill as necessary).
Remediation Activities:	04/01/2014 to 04/16/2014

Plan Sent to OCD:	Verbal	Verbal Approval from Mike Bratcher
OCD Approval of Plan:	Verbal	Verbal Approval from Mike Bratcher
Plan Sent to BLM:	02/10/2014	Email from Cliff Brunson to Randal Pair
BLM Approval of Plan:	02/25/2014	Email from Randal Pair to Cliff Brunson

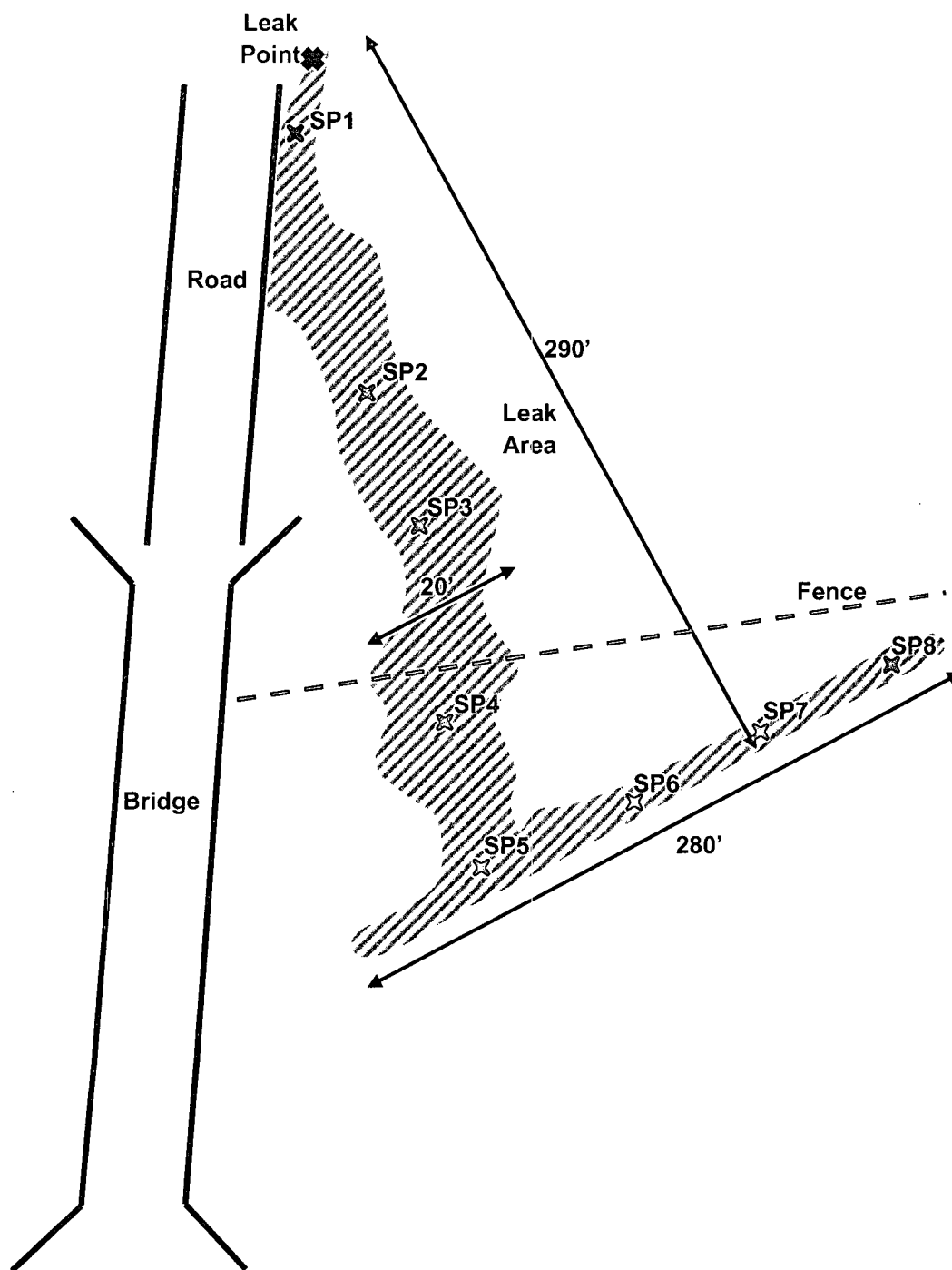
Supporting Documentation	
Initial C-141	Signed 08/09/2012
Final C-141	Signed 04/22/2014
Site Diagram	August 2012
Groundwater Plot	50'-100'
TOPO Maps	August 2012
Lab Summary	8/20/12, 9/4/12, and 4/9/14
Lab Analysis	8/20/12, 9/4/12, and 4/9/14
Correspondence	Request and approval of remediation plan via email

Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.	
Cliff Brunson, President of BBC International Inc.	04/25/2014



COG

Perkins/Cottonmouth 4" SWD Line



U/L G, Section 30, T26S, R29E
Eddy County, NM
N 32.03426 W 104.02428
API#30-015-23849 (At closest
well location: Perkins SWD)

BBC International, Inc.

COG

Perkins/Cottonmouth 4" SWD Line

Date: 08/27/12

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2012

Laboratory Analytical Results Summary
COG, Perkins/Cottonmouth 4" SWD

		Sample	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 9'
Analyte	Method	Date	9/4/12	9/4/12	9/4/12	9/4/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		7200	6300	6600	6600

		Sample	SP2 @ 2'	SP2 @ 4'
Analyte	Method	Date	9/4/12	9/4/12
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		10700	9000

		Sample	SP3 @ 6'
Analyte	Method	Date	9/4/12
			mg/Kg
Chloride	SM4500Cl-B		9200

		Sample	SP4 @ 2'	SP4 @ 2.5'
Analyte	Method	Date	9/4/12	9/4/12
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4160	3440

		Sample	SP5 @ 3'
Analyte	Method	Date	9/4/12
			mg/Kg
Chloride	SM4500Cl-B		352

		Sample	SP6 @ 2'	SP6 @ 4'
Analyte	Method	Date	9/4/12	9/4/12
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		6500	320

		Sample	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	9/4/12	9/4/12
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		192	48

		Sample	SP8 @ 2'	SP8 @ 4'	SP8 @ 5'
Analyte	Method	Date	9/4/12	9/4/12	9/4/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1150	2600	32

**Laboratory Analytical Results Summary
COG, Perkins/Cottonmouth 4" SWD**

		Sample	SP1 @ SURFACE	SP1 @ 1.5'
Analyte	Method	Date	8/20/12	8/20/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		10600	13000

		Sample	SP2 @ 1.5'
Analyte	Method	Date	8/20/12
			mg/Kg
Chloride	SM4500CI-B		9000

		Sample	SP3 @ SURFACE	SP3 @ 3'	SP3 @ 5'
Analyte	Method	Date	8/20/12	8/20/12	8/20/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4720	12800	10900

		Sample	SP4 @ 1'
Analyte	Method	Date	8/20/12
			mg/Kg
Chloride	SM4500CI-B		13000

		Sample	SP5 @ SURFACE	SP5 @ 2'
Analyte	Method	Date	8/20/12	8/20/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		14000	8400

		Sample	SP6 @ 1'
Analyte	Method	Date	8/20/12
			mg/Kg
Chloride	SM4500CI-B		15600

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	8/20/12	8/20/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		12200	9800

		Sample	SP8 @ 1'
Analyte	Method	Date	8/20/12
			mg/Kg
Chloride	SM4500CI-B		896

**Laboratory Analytical Results Summary
Perkins Cottonmouth #4 SWD**

		Sample	SP1 @ 10'
Analyte	Method	Date	4/9/14
			mg/Kg
Chloride	SM4500Cl-B		736

		Sample	SP8 @ 4'
Analyte	Method	Date	4/9/14
			mg/Kg
Chloride	SM4500Cl-B		704

Groundwater Plot

COG Perkins/Cottonmouth 4" SWD Line

County
Eddy

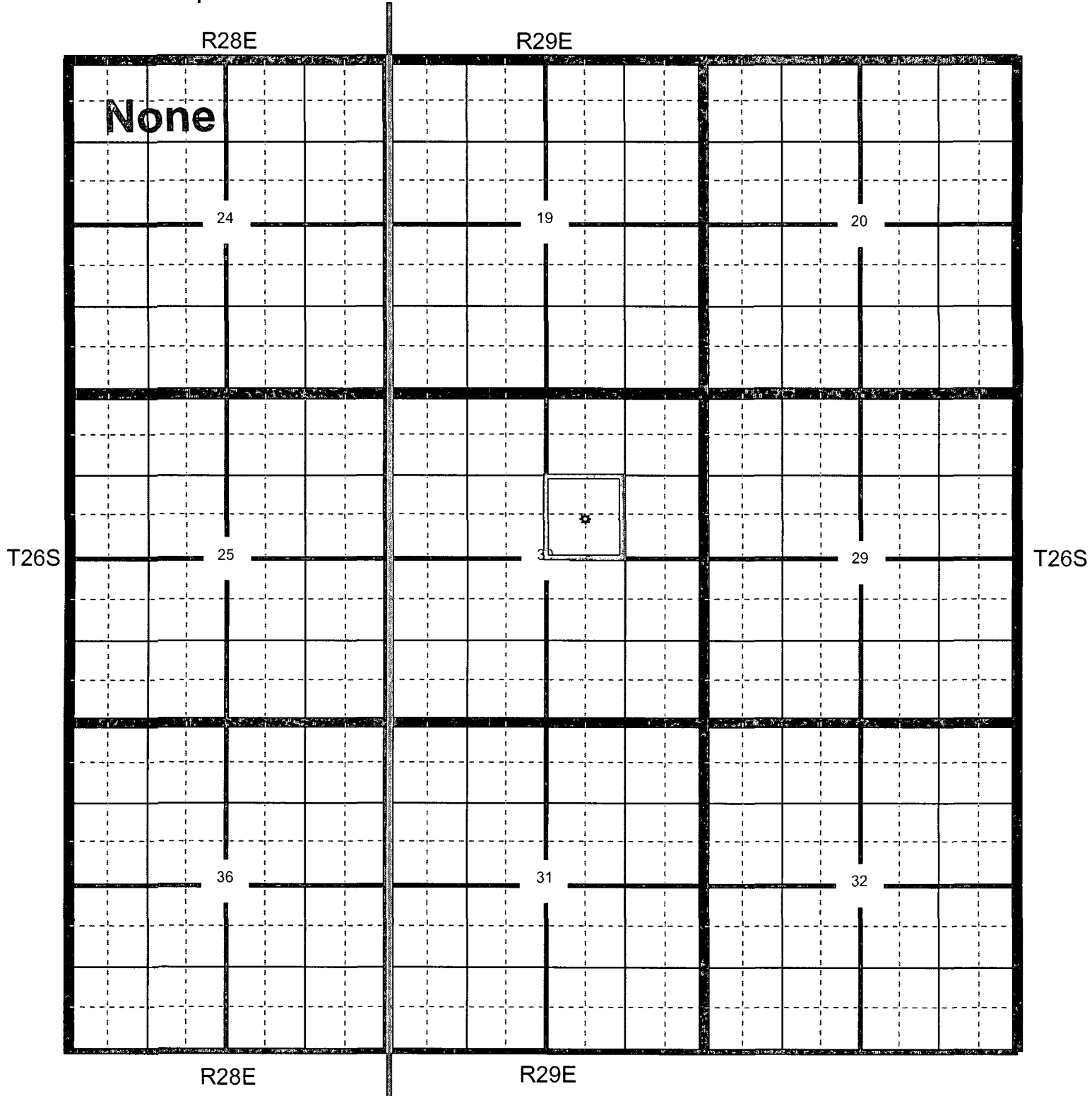
Unit Letter
G

Section
30

Township
26S

Range
29E

Trend Map 50'-100'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

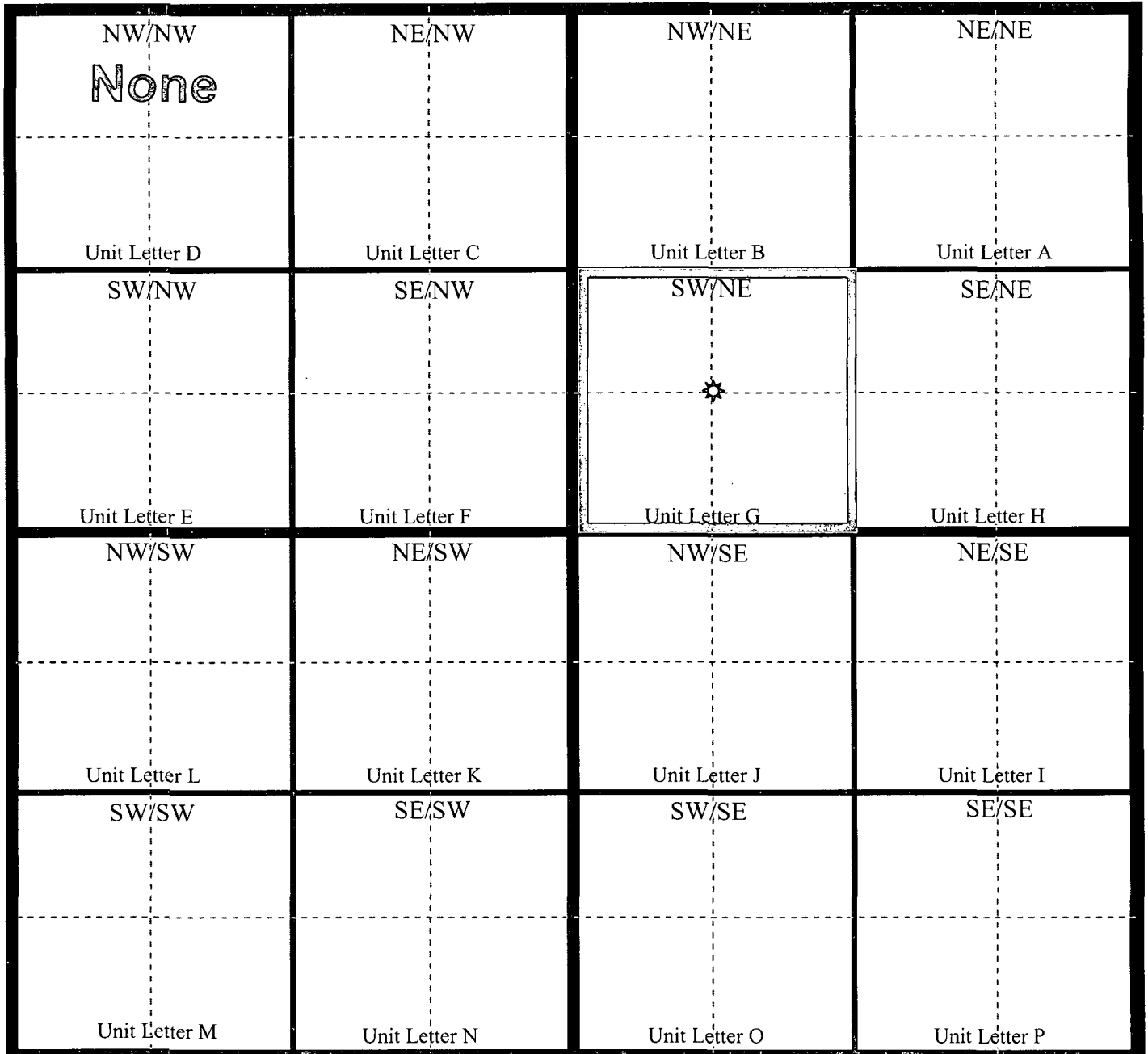
COG Perkins/Cottonmouth 4" SWD line

County Eddy Unit Letter G Section 30 Township 26S Range 29E

Trend Map 50'-100'

1

2



3

4

