



OCC Log in No.  
**18-34889**

**OKLAHOMA CORPORATION COMMISSION**

Form 1014R  
Rev 2009

Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000

**Post-Land Application Report**

OAC 165:10-7-19(h)(12) and 165:10-7-26(h)(12)

*(To be submitted within 30 days of completion of land application)*

Well Name	<b>Browning 3408 2-23H14H</b>		
Operator	<b>Sandridge Exploration &amp; Production LLC</b>	Phone No.	<b>405-429-5610</b>
Address	<b>123 Robert S. Kerr Ave STE 1702</b>		
City	<b>Oklahoma City</b>	State	<b>OK</b> Zip <b>73102-6406</b>
Contractor or Agent	<b>Ag &amp; Oil Field LLC</b>	Fax No.	

I certify that the land application under Permit No. LA 18-34889 has been completed under my supervision. All aspects of the land application were done in accordance with the permit and Oklahoma Corporation Commission Rule OAC 165:10-7-19 and 165:10-7-26 except as noted below:

This permit involved land application of:

- water-based drilling fluids and/or cuttings
- petroleum hydrocarbon-based drill cuttings
- soil contaminated by salt or crude

to a total area of 35 acres. Total acres Permitted 35 Acres not used 0

Total volume of liquids land applied 9,440 bbls.

Total volume of solids land applied 1,350 bbls. ~~xxx~~ & 0 Oilbase ~~xxxx~~ bbls.

Method of application: Industrial Mechanized Spreader

Attached is an aerial photograph (minimum scale 1:660) with the exact location(s) of applied materials delineate Attached are test results and loading calculations (required only for land application from a tank).

I declare that I have knowledge of the contents of this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belie

**Kyle Kester**

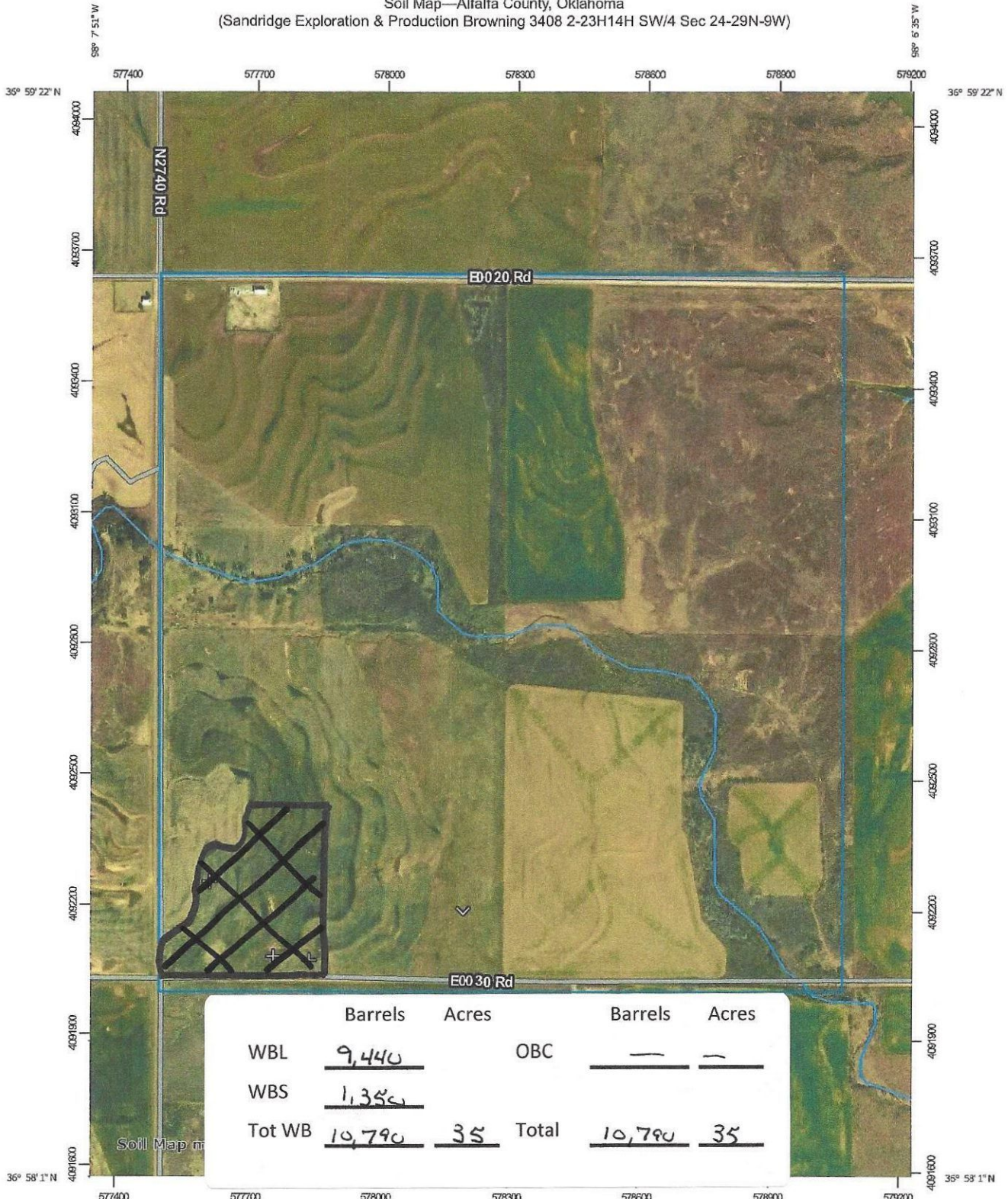
Print Name

*Kyle Kester*  
Signature of Operator, Contractor, or Agent

10/11/18  
Date

Operator: Sandridge		Well: Browning 3408 2-23H14H			Spread Area: Sec 24-29N-9W Alfalfa County	
DATE	MW-ppg	WBL	WBS	OBC	EC	
7/21/2018	9.2	80			3800	
7/21/2018	9.2		50		4500	
7/23/2018	9.2	2,880			8500	
7/23/2018	9.2		250		9000	
7/25/2018	9.2	800			5500	
7/25/2018	9.2		100		5800	
7/31/2018	9.2	240			4500	
7/31/2018	9.2		150		4000	
8/3/2018	9.2	1,280			5500	
8/3/2018	9.2		150		3500	
8/5/2018	9.2		150		3500	
8/6/2018	9.2	800			4000	
8/10/2018	9.2		100		3500	
8/16/2018	9.2		100		3000	
8/20/2018	9.2	1,360			3000	
8/21/2018	9.2		300		2800	
8/25/2018	9.2	2,000			2800	
		9,440	1,350			

Soil Map—Alfalfa County, Oklahoma  
 (Sandridge Exploration & Production Browning 3408 2-23H14H SW/4 Sec 24-29N-9W)



	Barrels	Acres		Barrels	Acres
WBL	<u>9,440</u>		OBC	<u>—</u>	<u>—</u>
WBS	<u>1,350</u>				
Tot WB	<u>10,790</u>	<u>35</u>	Total	<u>10,790</u>	<u>35</u>

Map Scale: 1:12,200 if printed on A portrait (8.5" x 11") sheet.

0 150 300 600 900 Meters  
 0 500 1000 2000 3000 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

## Total Dissolved Solids

EC of Receiving Soil **200** micromhos/cm  $\times 0.64 =$  128 ppm TDS in Receiving Soil

TDS in Receiving Soil 128 ppm  $\times 2 =$  256 lbs/acre TDS in Receiving Soil.

6,000 lbs/acre TDS- 256 lbs/ac TDS in Receiving Soil = 5744 Maximum TDS (lbs/ac) to be applied

EC of Materials to be applied **5225** micromhos/cm  $\times 0.64 =$  3344 ppm TDS

Maximum TDS to be applied 5744 divided by 0.00523 1099330 equals Max. weight of materials to be applied

### FOR LIQUID MATERIALS

Max weight of materials to be applied 1099330 lbs/ ac / (samples weight) **10.4** lbs/gal  $\times 42 =$  2517 Maximum loading lbs/ac

Total Volume of materials to be applied **9,440** bbls / Maximum loading 2517 bbls/ac= Minimum Ares Required **3.75**

### FOR SOLID MATERIALS

Max weight of materials to be applied 1099330 lbs/ac / (samples weight) **11** lbs/gal  $\times 202 =$  495 Max loading cubic yards/acre.

Total volume of materials to be applied **1,350** bbls= 7580 cubic feet 281 cubic yards

Volume of materials to be applied 281 cubic yards / max loading 495 cu yds/ac= Minimum Ares Required **0.57**