

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 047 25068 A

Approval Date: 04/13/2016
Expiration Date: 10/13/2016

Horizontal Hole Oil & Gas

Amend reason: UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: SE NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 395 500

Lease Name: RICHEY 2407 Well No: 1-21H Well will be 395 feet from nearest unit or lease boundary.

Operator Name: SANDRIDGE EXPLORATION & PRODUCTION LLC Telephone: 4054295610 OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC
123 ROBERT S KERR AVE STE 1702
OKLAHOMA CITY, OK 73102-6406

KEVIN & TRACY ANDERSON
13929 NORTH GARLAND
KREMLIN OK 73753

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	5980	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 67722 Location Exception Orders: Increased Density Orders: 652344
Pending CD Numbers: 201602061 Special Orders:

Total Depth: 14200 Ground Elevation: 1237 Surface Casing: 620 Depth to base of Treatable Water-Bearing FM: 370

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 10000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: SALT PLAINS

Approved Method for disposal of Drilling Fluids:

E. Haul to Commercial pit facility: Sec. 15 Twn. 24N Rng. 7W Cnty. 47 Order No: 623842

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 21 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 6016

Radius of Turn: 900

Direction: 225

Total Length: 6770

Measured Total Depth: 14200

True Vertical Depth: 6036

End Point Location from Lease,
Unit, or Property Line: 200

HORIZONTAL HOLE 2

Sec 21 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 6029

Radius of Turn: 900

Direction: 210

Total Length: 5357

Measured Total Depth: 12800

True Vertical Depth: 6056

End Point Location from Lease,
Unit, or Property Line: 200

HORIZONTAL HOLE 3

Sec 21 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 880

Depth of Deviation: 6040

Radius of Turn: 900

Direction: 190

Total Length: 4246

Measured Total Depth: 11700

True Vertical Depth: 6073

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category

Description

HYDRAULIC FRACTURING

4/11/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

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047 25068 RICHEY 2407 1-21H

Category	Description
INCREASED DENSITY - 652344	7/12/2016 - G75 - 21-24N-7W X67722 MSSLM 1 WELL SANDRIDGE EXPLOR. & PROD., LLC 5-4-2016
PENDING CD - 201602061	7/12/2016 - G75 - (I.O.) 21-24N-7W X67722 MSSLM COMPL. INT. (LAT 1) NCT 150 FNL, NCT 150 FSL, NCT 560 FEL & FWL COMPL. INT. (LAT 2) NCT 150 FNL, NCT 150 FSL, NCT 560 FEL & FWL COMPL. INT. (LAT 3) NCT 150 FNL, NCT 150 FSL, NCT 560 FEL & FWL NO OP. NAMED REC 6-20-2016 (COLAW)
PUBLIC WATER SUPPLY WELLS	4/11/2016 - G71 - GARFIELD CO. RWD #1 (KREM-HILL), 1 - PWS/WPA, NE4 21-24N-7W
SPACING - 67722	4/12/2016 - G75 - (640) 21-24N-7W EST MSSLM, OTHERS

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