

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

API NUMBER: 093 25088

Approval Date: 08/14/2017  
Expiration Date: 02/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 20N Rge: 13W County: MAJOR  
SPOT LOCATION:  SE  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 200 810

Lease Name: JORDAN 2013 Well No: 1-33H Well will be 200 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

DONALD & LINDA MCCOLLUM  
203 NORTH OAK ST.  
OKEENE OK 73763

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

Name	Depth	Name	Depth
1 MISSISSIPPI SOLID	8775	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 113162

Location Exception Orders: 665372

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13860

Ground Elevation: 1670

**Surface Casing: 390**

Depth to base of Treatable Water-Bearing FM: 140

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

E. Haul to Commercial pit facility: Sec. 33 Twn. 26N Rng. 15W Cnty. 151 Order No: 627651

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

H. SEE MEMO

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 33 Twp 20N Rge 13W County BLAINE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 430

Depth of Deviation: 8480

Radius of Turn: 573

Direction: 175

Total Length: 4480

Measured Total Depth: 13860

True Vertical Depth: 8906

End Point Location from Lease,  
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

7/24/2017 - G58 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: [FRACFOCUS.ORG](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

7/24/2017 - G58 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 665372

8/14/2017 - G75 - (I.O.) 33-20N-13W  
X113162 MSSSD  
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL  
SANDRIDGE EXPLOR. & PROD., L.L.C.  
6-28-2017

MEMO

7/24/2017 - G58 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT.

This permit does not address the right of entry or settlement of surface damages.

093 25088 JORDAN 2013 1-33H

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.

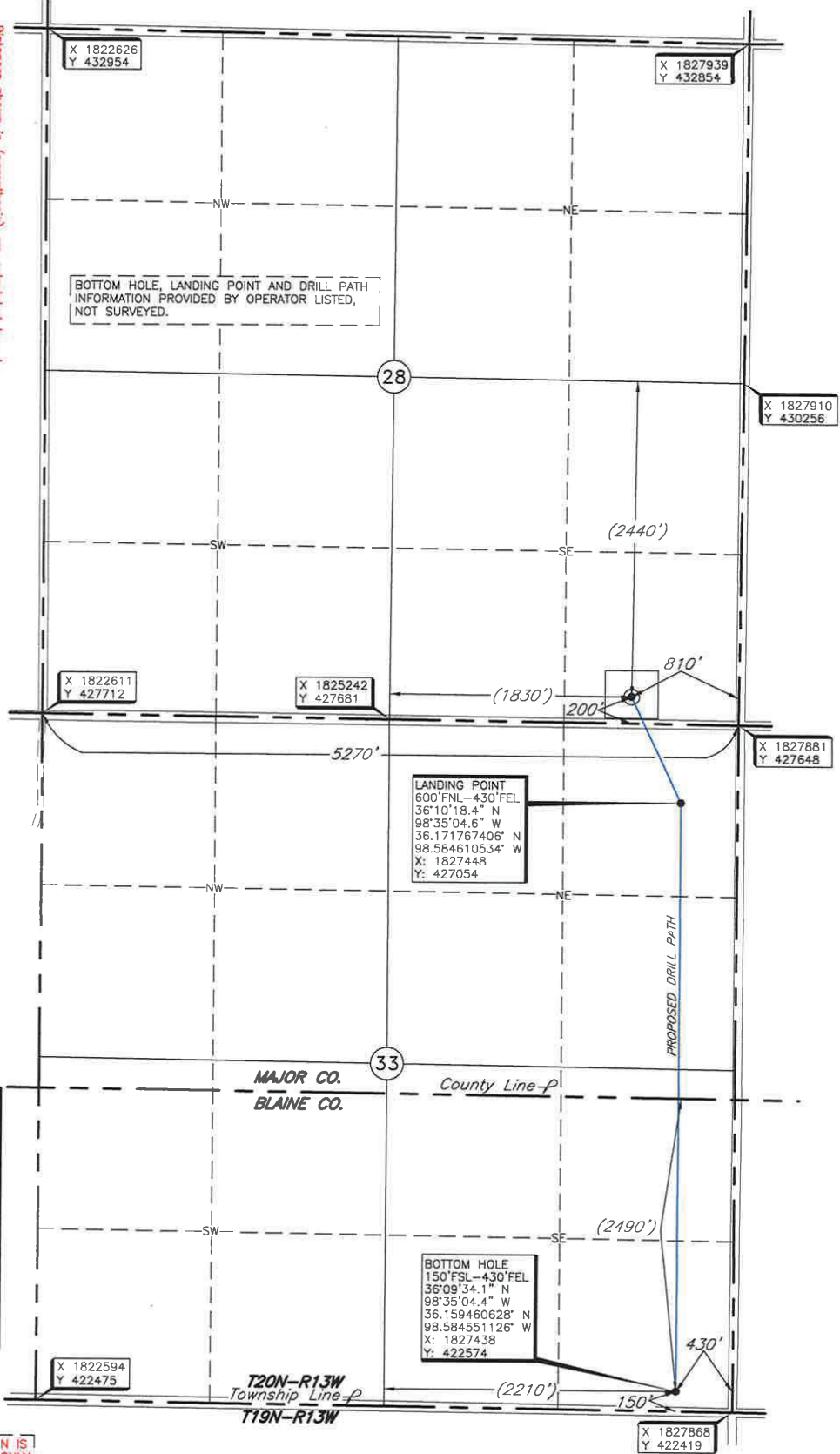
Category	Description
PUBLIC WATER SUPPLY WELLS	7/24/2017 - G58 - FAIRVIEW, 6 PWS/WPA, NW4 34-20N-13W, NE4 33-20N-13W & SE4 28-20N-13W
SPACING - 113162	8/14/2017 - G75 - (640) 33-20N-13W EXT OTHERS EXT 84166/111259 MSSSD, OTHERS

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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.

MAJOR County, Oklahoma  
 200'FSL - 810'FEL Section 28 Township 20N Range 13W I.M.



Distances shown in parentheses are calculated based on the ground. Distances in brackets are based on GDA (General Land Office) distances and have NOT been measured on the ground.



Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC  
 Lease Name: JORDAN 2013  
 Topography & Vegetation Location fell in a low area of pasture.  
 Well No.: 1-33H  
 Reference Stakes or Alternate Location  
 Stakes Set Name  
 ELEVATION: 1670' Gr. at Stake  
 Good Drill Site? Fair  
 Best Accessibility to Location From county road south of well location.  
 Distance & Direction From Hwy 1st or Town From Fairview, Ok., go west on U.S. Hwy. 60 for 4.70 miles to Cedar Springs, then go south on paved road for 4.30 miles to the Southeast Corner of Section 28, T20N-R13W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

DATUM: NAD-27  
 LAT: 36°10'26.3" N  
 LONG: 98°35'09.2" W  
 LAT: 36.173971845° N  
 LONG: 98.585897140° W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK NORTH  
 X: 1827073  
 Y: 427858

Date of Drawing: July 03, 2017  
 Invoice # 278359 Date Staked: June 29, 2017 JGW

**CERTIFICATE:**

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

*Thomas L. Howell*  
 Oklahoma Lic. No. 1433

