

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

API NUMBER: 063 24839 A

Approval Date: 08/07/2018
Expiration Date: 02/07/2019

Horizontal Hole Oil & Gas

Amend reason: CHANGE DRILLING OPERATION TO HORIZONTAL
OIL/GAS WELL; UPDATE ORDERS; UPDATE FORMATIONS;
UPDATE BOTTOM HOLE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 8N Rge: 11E County: HUGHES
SPOT LOCATION: ☐ SW ☐ NE ☐ SE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 1855 625

Lease Name: JERRY Well No: 1-13/12/1H Well will be 625 feet from nearest unit or lease boundary.
Operator BRAVO ARKOMA LLC Telephone: 9188944440; 9188944 OTC/OCC Number: 23562 0
Name:

BRAVO ARKOMA LLC
1323 E 71ST ST STE 400
TULSA, OK 74136-5067

SUE E. ANDERSON REVOCABLE TRUST
311 COUNTRY CLUB DRIVE
HOLDENVILLE OK 74848

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4564	6	
2	WOODFORD	4881	7	
3	SYLVAN	4954	8	
4			9	
5			10	

Spacing Orders: 668135
668322

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805855
201805854

Special Orders:

Total Depth: 13744 Ground Elevation: 731 Surface Casing: 1000 Depth to base of Treatable Water-Bearing FM: 170

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

PIT 1 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: AIR

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: SENORA

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649

H. PIT 2 - 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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

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

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

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: SENORA

HORIZONTAL HOLE 1

Sec 01 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: NW SE NE SE

Feet From: SOUTH 1/4 Section Line: 1960

Feet From: EAST 1/4 Section Line: 370

Depth of Deviation: 3815

Radius of Turn: 528

Direction: 1

Total Length: 9097

Measured Total Depth: 13744

True Vertical Depth: 4954

End Point Location from Lease,
Unit, or Property Line: 370

Notes:

Category

Description

DEEP SURFACE CASING

8/3/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/30/2018 - G71 - 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; 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

PENDING CD - 201805854

9/6/2018 - G57 - (I.O.) 1, 12, 13-8N-11E
EST MULTIUNIT HORIZONTAL WELL
X668135 MSSP, WDFD, SLVN 1 & 12-8N-11E
X668322 MSSP, WDFD, SLVN 13-8N-11E
(MSSP, SLVN ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE WDFD)
19% 13-8N-11E
58% 12-8N-11E
23% 1-8N-11E
BRAVO ARKOMA, LLC.
REC 8-13-2018 (DUNN)

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

063 24839 JERRY 1-13/12/1H

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
PENDING CD - 201805855	9/6/2018 - G57 - (I.O.) 1, 12, 13-8N-11E X668135 MSSP, WDFD, SLVN 1 & 12-8N-11E X668322 MSSP, WDFD, SLVN 13-8N-11E COMPL. INT. (13-8N-11E) NLT 1870' FNL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (12-8N-11E) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (1-8N-11E) NCT 0' FSL, NCT 2640' FNL, NCT 330' FEL BRAVO ARKOMA, LLC. REC 8-13-2018 (DUNN)
SPACING - 668135	9/6/2018 - G57 - (640)(HOR) 1 & 12-8N-11E EXT 659541 MSSP, WDFD, SLVN, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL POE TO BHL (SLVN) NLT 330' FB
SPACING - 668322	9/6/2018 - G57 - (640)(HOR) 13-8N-11E EXT 659541 MSSP, WDFD, SLVN, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL POE TO BHL (SLVN) NLT 330' FB

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