

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

API NUMBER: 063 24855 A

Approval Date: 10/10/2018  
Expiration Date: 04/10/2020

Horizontal Hole Oil & Gas

Amend reason: CHANGE TO HORIZONTAL OIL/GAS WELL;  
CHANGE WELL NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 8N Rge: 11E

County: HUGHES

SPOT LOCATION: ☐ SE ☐ NE ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 580 207

Lease Name: ANDERSON EAST

Well No: 3-2/35H

Well will be 207 feet from nearest unit or lease boundary.

Operator Name: BRAVO ARKOMA LLC

Telephone: 9188944440; 9188944

OTC/OCC Number: 23562 0

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

GLENN & LINDA ANDERSON  
2676 N. 386 RD.  
WETUMKA OK 74883

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

|   | Name          | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 4027  | 6    |       |
| 2 | CANEY         | 4231  | 7    |       |
| 3 |               |       | 8    |       |
| 4 |               |       | 9    |       |
| 5 |               |       | 10   |       |

Spacing Orders: 530078  
665769

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807826  
201807827

Special Orders:

Total Depth: 15018

Ground Elevation: 846

**Surface Casing: 1500**

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

Type of Pit System: ON SITE

Type of Mud System: AIR

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: CALVIN

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

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: CALVIN

PIT 3 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? 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: CALVIN

HORIZONTAL HOLE 1

Sec 35 Twp 9N Rge 11E County HUGHES

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 370

Depth of Deviation: 3917

Radius of Turn: 573

Direction: 5

Total Length: 10201

Measured Total Depth: 15018

True Vertical Depth: 4231

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

10/3/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

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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.

063 24855 ANDERSON EAST 3-2/35H

| Category               | Description   |
|------------------------|---|
| HYDRAULIC FRACTURING   | <p>11/1/2018 - G75 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p> |
| MEMO                   | <p>10/3/2018 - G71 - PIT 2 &amp; 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; WBM &amp; OBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC; PIT 3 - OBM TO VENDOR</p>  |
| PENDING CD - 201807826 | <p>11/1/2018 - G75 - (I.O.) 2-8N-11E &amp; 35-9N-11E<br/> EST MULTIUNIT HORIZONTAL WELL<br/> X530078 CNEY 2-8N-11E<br/> X665769 MSSP 35-9N-11E<br/> 50% 2-8N-11E<br/> 50% 35-9N-11E<br/> NO OP. NAMED<br/> REC 10-16-2018 (DUNN)</p>  |
| PENDING CD - 201807827 | <p>11/1/2018 - G75 - (I.O.) 2-8N-11E &amp; 35-9N-11E<br/> X530078 CNEY 2-8N-11E<br/> X665769 MSSP 35-9N-11E<br/> COMPL. INT. (2-8N-11E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL<br/> COMPL. INT. (35-9N-11E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL<br/> NO OP. NAMED<br/> REC 10-16-2018 (DUNN)</p>   |
| SPACING - 530078       | <p>11/1/2018 - G75 - (640) 2-8N-11E<br/> VAC OTHERS<br/> VAC 526655 CNEY, OTHERS<br/> EST CNEY, OTHERS</p>  |
| SPACING - 665769       | <p>11/1/2018 - G75 - (640)(HOR) 35-9N-11E<br/> EST OTHER<br/> EXT 660420 MSSP, OTHER<br/> COMPL. INT. NLT 660' FB<br/> (COEXIST SP. ORDER # 538185 MSSP)</p>  |

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

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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.

