

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

API NUMBER: 063 24622 A

Approval Date: 10/28/2016
Expiration Date: 04/28/2017

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE CASING DEPTH

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 7N Rge: 11E County: HUGHES
SPOT LOCATION: SE SW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 1000 2065

Lease Name: BRUNER Well No: 1-35/26H Well will be 1000 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

CARLENE BRUNER REVOC. LIVING TRUST
2329 N. 381 ROAD
WETUMKA OK 74883

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

Name	Depth	Name	Depth
1 WOODFORD	4676	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 657005

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201603491
201603490

Special Orders:

Total Depth: 12333

Ground Elevation: 738

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 190

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: SENORA

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: SENORA

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: SENORA

HORIZONTAL HOLE 1

Sec 26 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: NE NW NE SE

Feet From: SOUTH 1/4 Section Line: 2465

Feet From: EAST 1/4 Section Line: 661

Depth of Deviation: 4773

Radius of Turn: 750

Direction: 10

Total Length: 6382

Measured Total Depth: 12333

True Vertical Depth: 4676

End Point Location from Lease,
Unit, or Property Line: 661

Notes:

Category	Description
DEEP SURFACE CASING	11/3/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	10/28/2016 - 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/ 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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Category	Description
MEMO	10/28/2016 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201603490	10/28/2016 - G75 - (I.O.) 26 & 35-8N-11E EST MULTIUNIT HORIZONTAL WELL X657005 WDFD, OTHERS 33% 26-8N-11E 67% 35-8N-11E BRAVO ARKOMA, LLC REC 9-6-2016 (MCKEOWN)
PENDING CD - 201603491	10/28/2016 - G75 - (I.O.) 26 & 35-8N-11E X657005 WDFD, OTHERS SHL (35-8N-11E) NCT 150' FSL, NCT 1970' FEL ** COMPL. INT. (35-8N-11E) NCT 165' FSL, NCT 0' FNL, NCT 1225' FEL ++ COMPL. INT. (26-8N-11E) NCT 0' FSL, NCT 2500' FSL, NCT 1225' FEL ++ BRAVO ARKOMA, LLC REC 9-6-2016 (MCKEOWN) ** ITD HAS SHL AS 1000' FNL, 2065' FEL 2-7N-11E; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR ++ ITD HAS LATERAL AS 661' FEL 35 & 26-8N-11E; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR
SPACING - 657005	10/28/2016 - G75 - (640)(HOR) 26 & 35-8N-11E EXT OTHER EXT 642100 WDFD, OTHER COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 522741 WDFD NW4 35-8N-11E & ORDER # 524633 WDFD 26-8N-11E)

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