API NUMBER: 063 24870 Α

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

Approval Date: 12/21/2018 06/21/2020 Expiration Date:

Horizontal Hole

Multi Unit

Amend reason: CHANGE TO HORIZONTAL MULTIUNIT OIL/GAS WELL

Oil & Gas

AMEND PERMIT TO DRILL

FROM

WELL LOCATION:	Sec:	10	Twp:	8N	Rge:	11E	County:	HUG	HES	
SPOT LOCATION:	SE	SW	N	E	NW		FEET FROM QUARTER:	FROM	NORTH	

SECTION LINES: 1655 1050

Well No: Lease Name: DARKS 2-10/15H Well will be 1050 feet from nearest unit or lease boundary.

BRAVO ARKOMA LLC Operator

Telephone: 9188944440; 9188944

WEST

OTC/OCC Number: 23562 0

BRAVO ARKOMA LLC 1323 E 71ST ST STE 400

TULSA. OK 74136-5067 **RAY ANDERSON & FELICIA ANDERSON**

8616 E. 126 ROAD

WETUMKA OK 74883

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4108	6	
2	WOODFORD	4400	7	
3			8	
4			9	
5			10	
Spacing Orders:	641266 641265	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201810722

201810723

Total Depth: 14911 Ground Elevation: 867 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 120

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

Approved Method for disposal of Drilling Fluids: PIT 1 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?

Wellhead Protection Area?

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

Special Orders:

551649

H. SEE MEMO

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? 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 15 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: S2 S2 SE SW
Feet From: SOUTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 4123
Radius of Turn: 750
Direction: 175

Total Length: 9610

Measured Total Depth: 14911

True Vertical Depth: 4400

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

MEMO

Category Description

DEEP SURFACE CASING 12/19/2018 - 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 1/25/2019 - 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

1/28/2019 - G71 - 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. 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 - 201810722 2/1/2019 - G75 - (I.O.) 10 & 15-8N-11E

EST MULTIUNIT HORIZONTAL WELL X641266 MSSP, WDFD 10-8N-11E X641265 MSSP, WDFD 15-8N-11E

(WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP)

50% 10-8N-11E 50% 15-8N-11E NO OP. NAMED

REC 1-14-2019 (JOHNSON)

PENDING CD - 201810723 2/1/2019 - G75 - (I.O.) 10 & 15-8N-11E

X641266 MSSP, WDFD 10-8N-11E X641265 MSSP, WDFD 15-8N-11E

COMPL. INT. (10-8N-11E) NCT 165' FNL, NCT 0' FSL, NCT 660' FWL COMPL. INT. (15-8N-11E) NCT 0' FNL, NCT 165' FSL, NCT 660' FWL

NO OP. NAMED

REC 1-14-2019 (JOHNSON)

SPACING - 641265 2/1/2019 - G75 - (640)(HOR) 15-8N-11E

EST MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

SPACING - 641266 2/1/2019 - G75 - (640)(HOR) 10-8N-11E

EST MSSP, WDFD, ÓTHERS COMPL. INT. (MSSP) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

Well Location Plat

Operator: BRAVO NATURAL RESOURCES, LLC

Lease Name and No.: DARKS 2-10/15H

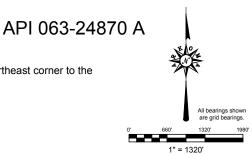
Footage: 1050' FNL - 1655' FWL Gr. Elevation: 867'

Section: 10 Township: 8N Range: 11E I.M.

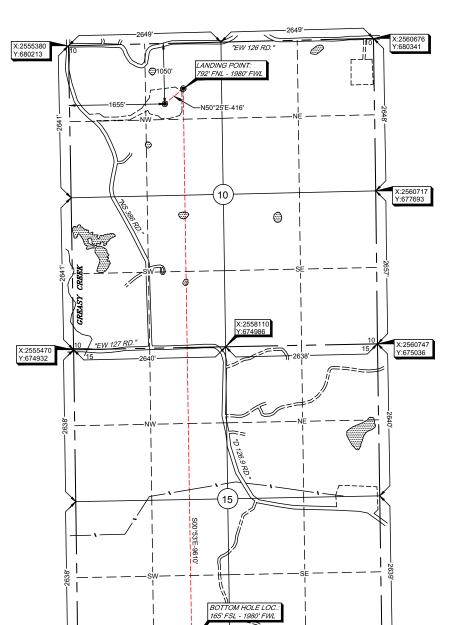
County: Hughes State of Oklahoma

Terrain at Loc.: Location fell in timber, sloping down from the Northeast corner to the

South and West.



S.H.L. Sec. 10-8N-11E I.M. B.H.L. Sec. 15-8N-11E I.M.



GPS DATUM NAD 27 OK SOUTH ZONE

Surface Hole Loc.: Lat: 35°11'07.96"N Lon: 96°08'08.77"W Lat: 35.18554424 Lon: -96.13576996 X: 2557052 Y: 679203

Landing Point: Lat: 35°11'10.53"N Lon: 96°08'04.85"W Lat: 35.18625814 Lon: -96.13468125 X: 2557373 Y: 679469

Bottom Hole Loc.: Lat: 35°09'35.48"N Lon: 96°08'05.22"W Lat: 35.15985464 Lon: -96.13478369 X: 2557520 Y: 669860

of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Professe contact, Aroman Surveying and Mapping promptly if any inconsistency is determined. CPS data is observed from RTK. CPS:

NOTIF: X and Y data strown hereon for Section Conness may NOTI have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey and Section Conness. A Coverment Survey Paul of Section Conness. On Counter Section Galamost may be assumed from a Coverment Survey Paul of Section Conness. On Counter Section Galamost may be assumed from a Coverment Survey. Observed.

Survey and plat by:

X:2555542

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348
Expires June 30, 2020

Invo<mark>ice #7197-</mark>D Date Staked: 12/19/18 By: Z.D. Rev. LP & BHL: 01/29/19 By: C.K**.**

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.



01/30/19 OK LPLS 1664

X:2560825

