

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

API NUMBER: 063 24639

Approval Date: 12/22/2016

Expiration Date: 06/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 8N Rge: 11E County: HUGHES

SPOT LOCATION: ☐ SW ☐ SE ☐ NW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1520 895

Lease Name: BISHOP NORTH Well No: 2-14/11/2H Well will be 895 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

BERT WADE BISHOP
1612 GLACIER LANE
EDMOND OK 73003

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4166	6	
2	CANEY	4259	7	
3	WOODFORD	4576	8	
4			9	
5			10	

Spacing Orders: 530078
641264

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605414
201605507
201605508
201605511

Special Orders:

Total Depth: 13890

Ground Elevation: 838

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 80

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 02 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 4055

Radius of Turn: 361

Direction: 359

Total Length: 9267

Measured Total Depth: 13890

True Vertical Depth: 4593

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category

Description

DEEP SURFACE CASING

12/21/2016 - 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

12/21/2016 - 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/](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.

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

063 24639 BISHOP NORTH 2-14/11/2H

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
MEMO	12/21/2016 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201605414	12/21/2016 - G64 - (640)(HOR) 14-8N-11E EXT 641266 MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL REC. 12-12-2016 (MCKEOWN)
PENDING CD - 201605507	12/21/2016 - G64 - (I.O.) 2, 11, 14-8N-11E EST MULTIUNIT HORIZONTAL WELL X530078 CNEY, WDFD 2-8N-11E X641264 MSSP, WDFD 11-8N-11E X201605414 MSSP, WDFD 14-8N-11E (MSSP & CNEY ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 25% 14-8N-11E 50% 11-8N-11E 25% 2-8N-11E NO OP. NAMED REC. 12-19-2016 (JOHNSON)
PENDING CD - 201605508	12/21/2016 - G64 - (I.O.) 2, 11, 14-8N-11E X530078 CNEY, WDFD 2-8N-11E X641264 MSSP, WDFD 11-8N-11E X201605414 MSSP, WDFD 14-8N-11E COMPL. INT. (14-8N-11E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (11-8N-11E) NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (14-8N-11E) NCT 0' FSL, NCT 2640' FSL, NCT 330' FWL NO OP. NAMED REC. 12-19-2016 (JOHNSON)
PENDING CD - 201605511	12/21/2016 - G64 - (I.O.) 2-8N-11E X530078 WDFD 2 WELLS NO OP. NAMED REC. 12-19-2016 (JOHNSON)
SPACING - 530078	12/21/2016 - G64 - (640) 2-11N-8E VAC 526655 CNEY, WDFD, OTHERS EST CNEY, WDFD, OTHERS
SPACING - 641264	12/21/2016 - G64 - (640)(HOR) 11-8N-11E EST MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL

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.

BNR Well Location Plat

S.H.L. Sec. 14-8N-11E I.M.
B.H.L. Sec. 2-8N-11E I.M.

Operator: BRAVO NATURAL RESOURCES
Lease Name and No.: BISHOP NORTH 2-14/11/2H
Footage: 1520' FSL - 895' FWL GR. ELEVATION: 833' Good Site? YES
Section: 14 Township: 8N Range: 11E I.M.
County: Hughes State of Oklahoma

API 063 24639

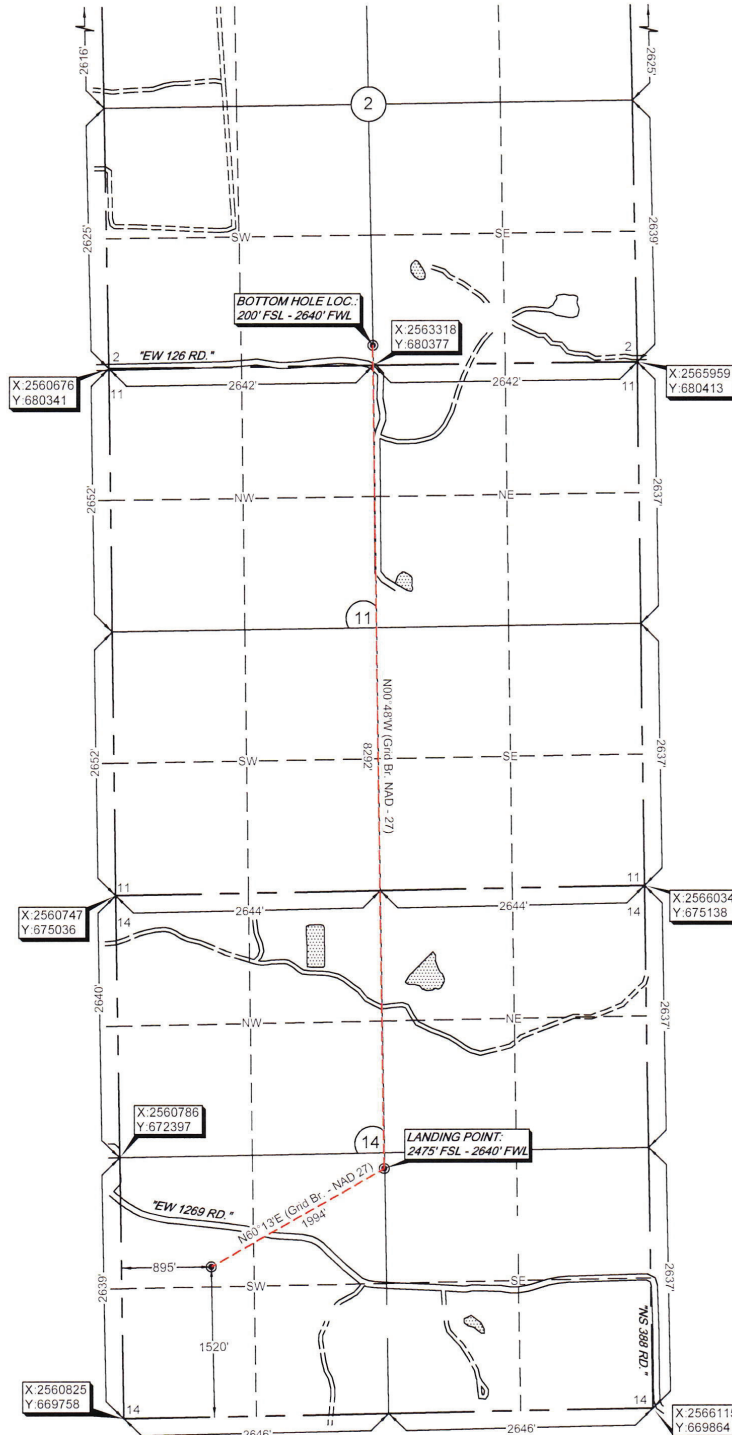


Alternate Loc.: N/A

Terrain at Loc.: Location fell in timber on South side. Creek slopes down from South to North.

Accessibility: From the East.

Directions: From the intersection of "Jefferson Ave." & "NS 387 RD" go North for 1.3 miles, continue onto "EW 131 RD.", go 1.1 miles & continue on "N389 RD", go 3.2 miles, turn left on "EW 128 RD" & go 1 mile, turn North on "NS 388 RD" & go 0.5 mile, turn left on "D126.9" & go 0.9 mile to proposed lease road.



0 750' 1500' 2250'

1"=1500'

GPS DATUM
NAD - 27
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 35°09'48.91"N
Lon: 96°07'14.60"W
X: 2561697
Y: 671296

Landing Point:
Lat: 35°09'58.38"N
Lon: 96°06'53.54"W
X: 2563428
Y: 672286

Bottom Hole Loc.:
Lat: 35°11'20.40"N
Lon: 96°06'53.06"W
X: 2563312
Y: 680577

survey and plat by:
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, 2018

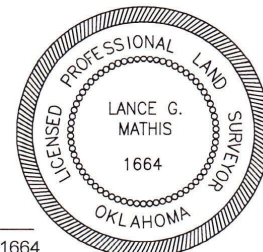
Certification:

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.

Lance G. Mathis
LANCE G. MATHIS

12/21/16

OK LPLS 1664



Invoice #6780-A-A

Date Staked: 12/13/16

By: H.S.

Date Drawn: 12/20/16

By: C.S.