OKLAHOMA CITY, OK 731522000 Expression basis: 0x12/0202 Mail Mit (Rule 105:03-1) March 100:00 0x12/0202 WILL LOCATION Set: 10 Nep: 118 Carefy HUGHES WILL COLTION Set:: 10 Nep: 118 Carefy HUGHES Use Name: DARKS Well No: 1105 Department March 100:00 Tate WELL COLTION Set:: 10 Use Name: DARKS Well No: 1105 March 100:00 Department March 100:00 Tate 1000 Tate Department BRAVO ARKOMA LLC Tate Tate 1000 1232 F 7157 ET 51E 400 Tul SA, OK 74136-5067 RAY ANDERSON & FELICIA ANDERSON BERAVO ARKOMA LLC Data Data 0K 74883 Formation(s) (Permit Valid for Listed Formations Only): Name Dapth Name 1 Mississmir/AN 4:03 6 3 3 2 WOODFORD 4:03 7 3 3 3 Dapth Name Dapth Special Oxider: 2 WOODFORD 4:03 7 3 3 Dapth Name Dapth Special Oxider:	API NUMBER: 063 24869 A	P.C	D. BOX 52000	
Alexandres (14WAG TO HORIZONTAL MULTUMT OUCAS AMEND PERMIT TO DRILL WELLICOATION Soc. 10 Top: 8N Right HE County HUGHES SPOT LINES SPOT LOATION Soc. 10 Top: 8N Right HE County HUGHES SPOT LINES SPOT LOATION Soc. 10 Top: 8N Right HE County HUGHES SPOT LINES SPOT LINES SPO				Expiration Date: 06/21/2020
LAUREDUCE CONTINUE MULL CONTINUE WILL CONTINUE Sec. 10. Tay: BN Rept. 112 Control Time Control 1000 BRAVO ARKOMALLC Teleprone: 1000 Fed from restreet unit of reses boundary. Operator BRAVO ARKOMALLC Teleprone: S18854440 S18854440 S18854440 1232 E 71ST ST ST E 400 TULSA, OK 74138-5067 RAY ANDERSON & FELICIA ANDERSON BEFLICIA ANDERSON BE16 E: 2000 1232 E 71ST ST ST E 400 TULSA, OK 74138-5067 RAY ANDERSON & FELICIA ANDERSON BEFLICIA ANDERSON BE16 E: 2000 133 Formation(s) (Permit Valid for Listed Formations Only): Name Depth Depth 1400 S0555PPINH 4100 6 7 3 3 3 Special Orders: Increased Density Orders: Increased Density Orders: 3 Special Orders: 2016/0724 Special Orders: 2016/0729 2016/0729 2016/0729 Special Orders: 2016/0729 2016/0729 Special Orders: No 7 Filed to Commended and Duling Erd. No Special Orders: 7 Tail Depth: 10 Special Orders: Special Orders: 7 Tail Depth: Grade Depth Orders <	Horizontal Hole Oil & Gas Multi Unit	(Ku	ne 165:10-3-1)	
SPOT LOCATION Image: Spot Method Me	mend reason: CHANGE TO HORIZONTAL MULTIUNIT OIL	JGAS <u>AMEND</u>	PERMIT TO DRILL	
SPOT LOCATION Signature Texture Texture Texture Texture Texture Less Name: DARKS Well No: 1-101501 Well Weil 1000 feet from nearest unit or feesee boundary. Operator BAVO ARKOMA LLC Texture Texture OTCICOCO Number: 2562 0 BRAVO ARKOMA LLC Internet RAV ARKOMA LLC Texture RAV ARKOMA LLC RAV ARKOMA LLC RAV ARKOMA LLC RAV ARKOMA LLC BEAVO ARKOMA LLC RAV ARKOMA LLC RAVE ARKOMA LLC RAV ARKOMA LLC RAVA	WELL LOCATION: Sec: 10 Twp: 8N Rge:	11E County: HUGHES		
toda toda toda Description BRAVO ARKOMA LLC Telephone: B1898H440, 31989H41 OTCOCOC Number: 2362 0 BRAVO ARKOMA LLC Telephone: B1898H440, 31989H41 OTCOCOC Number: 2362 0 BRAVO ARKOMA LLC TST ST ST E 400 TST ST ST ST ST ST ST E 400 TST ST ST ST ST ST ST ST E 400 TST ST ST ST ST ST ST ST ST E 400 TST ST		-	TH FROM WEST	
Lase Num: KHN KH 101 Well will be 109 fertion meaners unt or lease boundary. Derivative BRAVD ARKOMA LLC Status <		SECTION LINES: 1050	1685	
Operation BRAVO ARKOMA LLC Display=44440; 918894 DTC/DCC Number: 2356.2 0 BRAVO ARKOMA LLC 1323 E 71ST ST E 400 RAY ANDERSON & FELICIA ANDERSON TULSA, OK 74136-5067 Formation(s) (Permit Valid for Listed Formations Only): Rare Depth 1 Mississippinian 4108 6 2 WOODPORD 4600 7 3 0 5 0 5 0 0 0 5 0 0 0 6 0 0 0 7 8 0 0 6 0 0 0 7 0 4000 7 8 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 100 9 0 0 9 0 0 0 <td< th=""><th>Lease Name DARKS</th><th></th><th></th><th>II will be 1050 feet from pearest unit or lease boundary</th></td<>	Lease Name DARKS			II will be 1050 feet from pearest unit or lease boundary
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1323 E 71ST ST ST E 400 RAY ANDERSON & FELICIA ANDERSON TULSA, OK 74136-5067 Pormation(s) (Permit Valid for Listed Formations Only): Name Depth 1 MISSISSIPPIAN 4 0 5 0 5 0 5 0 5 0 5 0 Specing Onder: 61796 61726 201610725 201610726 201610726 201610726 201610726 201610726 201610726 201610726 Special Onders: Per to Mad System: KNER RASED Chacken Jurisdiction: No Fresh Water Supply Weil Dillet:<	BRAVO ARKOMA LLC			
TULSA, OK 74136-5067 B616 E: 126 ROAD VETUMIKA OK 74883 Formation(s) (Permit Valid for Listed Formations Only): Name Depth Name Depth 1 Mississipprava 4400 7 3 3 9 5 10 Specing Order: E41268 E41268 E41269 E4126			RAY ANDERS	ON & FELICIA ANDERSON
WETUMIKA OK 74883 Formation(s) (Permit Valid for Listed Formations Only): Mane Depth Name Depth Depth Name Depth Depth Name Depth Depth Depth Depth Depth Depth Special Orders: Depth to base of Treatable Water Bearing FM: 120 Under Federal Jurisdiction: No Fresh Water Supply Well Driled: No Surface Water used to Drill: Ves Pri T I NFORMATION Approved Method for disposal of Drilling Fluids: The Autor Scool Areage: Stool Is depth to top of ground water greater than 10ft below base of pi? Y Withinset Proceed Arear N Sected in a Hydrologically Sensitive Area. Stofdel Stofdel H. SEE MEMO El Located		74400 5007	8616 E. 126 R	OAD
Name Depth Name Depth 1 MISSISS/PIPAN 4108 6 2 WOODFORD 4400 7 3 - - - 4 - - - 5 - - - Pending CD Numbers: 201810724 - - 201810725 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 1010777 Fresh Water Supply Well Drillert No Surface Water-Bearing FM: 120 PUT 1 INFORMATION Fresh Water Supply Well Drillert No - 11 INFORMATION Approved Method for disposal of Drilling Fluids: - 12 dedph to top of ground water greater than 1000 below bas	TULSA, OK	74136-5067	WETUMKA	OK 74883
Name Depth Name Depth 1 MISSISS/PIPAN 4108 6 2 WOODFORD 4400 7 3 - - - 4 - - - 5 - - - Pending CD Numbers: 201810724 - - 201810725 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 201810726 - - - 1010777 Fresh Water Supply Well Drillert No Surface Water-Bearing FM: 120 PUT 1 INFORMATION Fresh Water Supply Well Drillert No - 11 INFORMATION Approved Method for disposal of Drilling Fluids: - 12 dedph to top of ground water greater than 1000 below bas				
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3 9 5 10 Special Orders: 641265 Pending CD Number: 201810724 201810725 201810726 201810726 201810728 201810728 201810728 Total Depth: 1491 Ground Elevation: 867 Surface Casing: 1500 Under Federal Jurisdiction:: No resh Water Supply Well Driller: No Surface Vasing: 1500 Surface Water Used to Drill: Yes PT 1 INFORMATION Reproved Method for disposal of Drilling Fluids: Type of NuckSystem: WATER BASED: Fresh Water Supply Well Driller: No Surface Mater Used Average: 5000 surface Vasing: 500 Is dep to to top Ground water greater than 10th below base of pit? Y Wethead Protection Area? N Pit is located in a Hydrologically Sensitive Area. Cating of Pit: C Licer or tengeting of Catagory: C Pit Location is BED AQUIFER				
5 10 Sealing Orders: 641265 Pending CD Numbers: 201810724 201810726 201810726 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 201810729 Eventworder Sterner Sterner Sterner Sterner Sterner Sterner Sterner Storner Sterner Storner Sterner Sterner Storner Sterner Sterner Storner Sterner Sterner Storner Storner Sterner Storner Storner Storner Storner Sterner Storner Store Storner Storner Store Storner Store Storner Storner Storner Sto				
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Baland Gudes. Buildon Exception Orders. Indexeduation Exception Orders. Berling CD Numbers: 201810724 Special Orders: 201810725 201810749 201810782 Total Depth: 14911 Ground Elevation: 867 Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids: Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: NATER BASED Chorides Max: 8000 Average: 5000 F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: Stof499 H. SEE MEMO H. SEE MEMO Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologially Sensitive Area. Edition Category: C Dist Location is BED AQUIFER Elevation is BED AQUIFER	5		10	
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2018/07/9 2018/07/9	Pending CD Numbers: 201810724			Special Orders:
Z0181/752 Sund Elevation: 867 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 120 Under Federal Jurisdiction: No Fesh Water Supply Well Drille: No Surface Water used to Drill: Yes PT1 INFORMATION Fesh Water Supply Well Drille: No Surface Water used to Drill: Yes Type of Pit System: CLOSED Closed System Means Steel Pits Approved Method for disposal of Drilling Fluid: Type of Nick S000 Average: 5000 Surface Water used to pit? Y Not to p of ground water greater than 10fb below base of pit? Y Kuthin 1 mile of municipal water well? N Not commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9 E Cnty. 63 Order No: 51649 Wellhead Protection Area? N N Pit is located in a Hydrologically Sensitive Area. F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9 E Cnty. 63 Order No: 51649 Gregory of Pit: C N N N Hot not required for Category: C N N Pit Location is BED AQUIFER Vellocation is BED AQUIFER Vellocation is BED AQUIFER	201810725			
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 Dillet: No Surface Water used to Drill: Yes PTT 1 INFORMATION Approved Method for disposal of Drilling Fluids: Type of Pit System: CLOSED Closed System Means Steel Pits Approved Method for disposal of Drilling Fluids: Type of Mud System: WATER BASED F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 Is depth to top of ground water greater than 10t below base of pit? N H. SEE MEMO Wellhead Protection Area? N H. SEE MEMO Pit is located in a Hydrologically Sensitive Area. F. Haut to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 51649 Category of Pit: C H. SEE MEMO Pit is located in a Hydrologically Sensitive Area. H. SEE MEMO Category of Pit: C H. SEE MEMO Pit Location is BED AQUIFER H. SEE MEMO	201810749			
Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids: Type of Pit System: CLOSED Closed System Means Steel Pits Approved Method for disposal of Drilling Fluids: Type of Mud System: WATER BASED F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 Is depth to top of ground water greater than 10ft below base of pit? Y H. SEE MEMO Wellhead Protection Area? N H. SEE MEMO Pit is located in a Hydrologically Sensitive Area. Eategory of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER	201810782			
Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids: Type of Pit System: CLOSED Closed System Means Steel Pits Approved Method for disposal of Drilling Fluids: Type of Mud System: WATER BASED F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 Is depth to top of ground water greater than 10ft below base of pit? Y H. SEE MEMO Wellhead Protection Area? N H. SEE MEMO Pit is located in a Hydrologically Sensitive Area. Eategory of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER				
PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids: Type of Pit System: CLOSED Closed System Means Steel Pits F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 Kethod for disposal of Drilling Fluids: F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649 Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. E. MEMO Category of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER	Total Depth: 14911 Ground Elevation:	867 Surface Casi	ing: 1500	Depth to base of Treatable Water-Bearing FM: 120
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	Under Federal Jurisdiction: No	Fresh Water Supp	ly Well Drilled: No	Surface Water used to Drill: Yes
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 1 INFORMATION		Approved Method for dispos	al of Drilling Fluids:
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		s Steel Pits		
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Is depth to top of ground water greater than 10ft below base of pit? Y 551649 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 Pit Location is BED AQUIFER	Chlorides Max: 8000 Average: 5000			farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:
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	Is depth to top of ground water greater than 10ft below	base of pit? Y		
Pit is located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER	Within 1 mile of municipal water well? N			
Category of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER	Wellhead Protection Area? N			
Liner not required for Category: C Pit Location is BED AQUIFER				
Pit Location is BED AQUIFER				
Pit Location Formation: CALVIN				
	Pit Location Formation: CALVIN			

 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
 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 S2 SW						SW	
Feet I	From:	SOL	JTH	1/4 Se	ction Lir	ne: 1	65
Feet I	From:	WE	ST	1/4 Se	ction Lir	ne: 1	320
Depth	Depth of Deviation: 4126						
Radius of Turn: 750							
Direction: 185							
Total Length: 9607							
Measured Total Depth: 14911							
True Vertical Depth: 4400							
End Point Location from Lease,							
Unit, or Property Line: 165							

Notes:	
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	2/1/2019 - G75 - 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
MEMO	2/1/2019 - G75 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category	Description
PENDING CD - 201810724	2/1/2019 - G75 - (I.O.) 10 & 15-8N-11E EST MULTIUNIT HORIZONTAL WELL X641266 MSSP, WDFD, OTHERS 10-8N-11E X641265 MSSP, WDFD, OTHERS 15-8N-11E (MSSP ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 10-8N-11E 50% 15-8N-11E NO OP. NAMED REC 1-14-2019 (JOHNSON)
PENDING CD - 201810725	2/1/2019 - G75 - (I.O.) 10 & 15-8N-11E X641266 MSSP, WDFD, OTHERS 10-8N-11E X641265 MSSP, WDFD, OTHERS 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)
PENDING CD - 201810749	2/1/2019 - G75 - 10-8N-11E X641266 WDFD 1 WELL NO OP. NAMED REC 1-22-2019 (JOHNSON)
PENDING CD - 201810782	2/1/2019 - G75 - 15-8N-11E X641265 WDFD 1 WELL NO OP. NAMED REC 1-22-2019 (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, OTHERS COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

