API NUMBER: 051 24645 Horizontal Hole Oil & Gas Multi Unit	OIL & GAS CONSE P.O. BC OKLAHOMA CIT (Rule 16	RATION COMMISSION RVATION DIVISION DX 52000 Y, OK 73152-2000 5:10-3-1)	Approval Date: Expiration Date:	05/24/2019 11/24/2020
WELL LOCATION: Sec: 01 Twp: 7N Rge SPOT LOCATION: NW NE NW NW Lease Name: JESSICA Operator ECHO E & P LLC Name:	5W County: GRADY FEET FROM QUARTER: FROM NORTH SECTION LINES: 302 Well No: 1-1-12XH	TO DRILL FROM WEST 770 Well ne: 4057534232	will be 302 feet from neares OTC/OCC Number:	st unit or lease boundary. 23925 0
ECHO E & P LLC 3817 NW EXPRESSWAY STE 810 OKLAHOMA CITY, OK	73112-1470	KOPCAT INC 8177 SKYLINE BLANCHARD		3010
Formation(s) (Permit Valid for Listed Name 1 MISSISSIPPIAN 2 WOODFORD 3 MISENER-HUNTON 4 5	Formations Only): Depth 10260 10475 10650	Name 6 7 8 9 10	Depth	1
Spacing Orders:         678842 693832           Pending CD Numbers:         201901773 201901777           201901771         201901771           201901772         201901772	Location Exception Orders:		Increased Density Orders: Special Orders:	
Total Depth: 20974 Ground Elevation	: 1273 Surface Casing:	560	Depth to base of Treatable Water	-Bearing FM: 470
Under Federal Jurisdiction: No PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Mea Type of Mud System: WATER BASED Chlorides Max: 5000 Average: 3000	Fresh Water Supply Wel	Drilled: No Approved Method for disposal D. One time land application H. SEE MEMO	I of Drilling Fluids:	sed to Drill: Yes PERMIT NO: 19-36463
Is depth to top of ground water greater than 10ft belo Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Are Category of Pit: C Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: DUNCAN				

 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:
 DUNCAN

## HORIZONTAL HOLE 1

Sec 12 Twp 7N Rge 5W County GRADY Spot Location of End Point: SE SW SW SW Feet From: SOUTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 360 Depth of Deviation: 10031 Radius of Turn: 477 Direction: 185 Total Length: 10194 Measured Total Depth: 20974 True Vertical Depth: 10780 End Point Location from Lease, Unit, or Property Line: 165

Notes:		
Category	Description	
HYDRAULIC FRACTURING	0/2019 - 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	
MEMO	4/30/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT	
PENDING CD - 201901771	5/8/2019 - GB1 - (E.O.) 1-7N-5W X678842/201900258 MSSP, WDFD 3 WELLS NO OP. NAMED REC. 5/24/2019 (MINMIER)	
PENDING CD - 201901772	5/8/2019 - GB1 - (E.O.) 12-7N-5W X678842/201900258 MSSP, WDFD 3 WELLS NO OP. NAMED REC. 5/24/2019 (MINMIER)	

Category	Description
PENDING CD - 201901773	5/8/2019 - GB1 - (E.O.) 1 & 12-7N-5W EST MULTIUNIT HORIZONTAL WELL X678842/201900258 MSSP, WDFD, MSRH (MSSP, MSRH ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 50% 1-7N-5W 50% 12-7N-5W ECHO E&P, LLC REC. 5/24/2019 (MINMIER)
PENDING CD - 201901777	5/8/2019 - GB1 - (E.O.) 1 & 12-7N-5W X678842/201900258 MSSP, WDFD, MSRH COMPL. INT. (1-7N-5W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (12-7N-5W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 5/24/2019 (MINMIER)
SPACING - 678842	5/8/2019 - GB1 - (640)(HOR) 1 & 12-7N-5W VAC 98014 MSRH EXT 598370/601838 MSSP, WDFD, MSRH COMPL. INT. (MSSP, MSRH) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 693832	5/8/2019 - GB1 - (E.O.)(640)(HOR) 1 & 12-7N-5W CONFIRM SP # 678842 FOR RESPONDENTS 4/1/2019

## API 051-24645

