API NUMBER: 043 23710

Oil & Gas

located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

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

Approval Date: 08/14/2019
Expiration Date: 02/14/2021

Horizontal Hole Multi Unit

PERMIT TO DRILL

PERMIT TO DRILL					
WELL LOCATION: Sec: 30 Twp: 18N Rge: 14W	County: DEWE	(
01 01 200/111014: 02 02 02 02		OUTH FROM E	AST		
SEC	TION LINES: 2	70 30	0		
Lease Name: CHAIN	Well No: 2	20-29-1XH	Well wil	be 270 feet from nearest unit	or lease boundary.
Operator DERBY EXPLORATION LLC Name:		Telephone: 4056	393786	OTC/OCC Number: 2	4143 0
DERBY EXPLORATION LLC PO BOX 779			KELLY AND AMBI	ER CHAIN	
	101-0779		65741 NORTH 23	70 ROAD	
OREATIONIA CITT, OR 73	101-0779		CANTON	OK 73724	
1 MISSISSIPPIAN 2 WOODFORD 3 4 5 Spacing Orders: 687878 687877	9575 11245 Location Exception O	6 7 8 9 10		Increased Density Orders:	
Pending CD Numbers: 201902938 201902940				Special Orders:	
Total Depth: 18400 Ground Elevation: 1924	Surface C	asing: 640	D	epth to base of Treatable Water-Bear	ing FM: 390
Under Federal Jurisdiction: No	Fresh Water S	upply Well Drilled: N		Surface Water used to	Drill: Yes
PIT 1 INFORMATION		Appro	ved Method for disposal of	Orilling Fluids:	
Type of Pit System: CLOSED Closed System Means Steel I	Pits		or formal and a second	DEOLUDEO DEDMIT	DEDMIT NO. 10 00000
Type of Mud System: WATER BASED			D. One time land application (REQUIRES PERMIT) PERMIT NO: 19-36856 H. SEE MEMO		
Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below base of Within 1 mile of municipal water well? Wellhead Protection Area? N	pit? Y				

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 20 Twp 18N Rge 14W County **DEWEY** SW Spot Location of End Point: N2 N2 NW Feet From: SOUTH 1/4 Section Line: 2460 Feet From: WEST 660 1/4 Section Line:

Depth of Deviation: 10628 Radius of Turn: 476

Direction: 10
Total Length: 7024

Measured Total Depth: 18400

True Vertical Depth: 11245

End Point Location from Lease,
Unit, or Property Line: 660

INTERMEDIATE CASING

Notes:

Category Description

HYDRAULIC FRACTURING 8/1/2019 - 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

8/1/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

9/1/2019 - G/1 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

MEMO 8/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201902938 8/14/2019 - G56 - (I.O.) 20 & 29-18N-14W

EST MULTIUNIT HORIZONTAL WELL X687877 MSSP, WDFD, OTHER 20-18N-14W X687878 MSSP, WDFD, OTHER 29-18N-14W

(WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP)

50 % 20-18N-14W 50% 29-18N-14W NO OP NAMED

REC 6/18/2019 (NORRIS)

PENDING CD - 201902940 8/14/2019 - G56 - (I.O.) 20 & 29-18N-14W

X687877 20-18N-14W X687878 29-18N-14W

COMPL INT (29-18N-14W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL INT (20-18N-14W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL

NO OP NAMED

REC 6/18/2019 (NORRIS)

SPACING - 687877 8/14/2019 - G56 - (640)(HOR) 20-18N-14W

VAC 95923 CSTR

VAC 307029 MSSLM, KDRK, WDFD, OTHER

EST MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB

COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

SPACING - 687878 8/14/2019 - G56 - (640)(HOR) 29-18N-14W

VAC 95923 CSTR

VAC 307029 MSSLM, KDRK, WDFD, OTHER

EST MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB

COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

* DERBY Well Location Plat

Operator: DERBY EXPLORATION, LLC Lease Name and No.: CHAIN 20-29-1XH

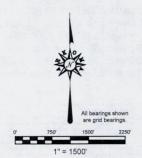
Footage: 270' FSL - 300' FEL Gr. Elevation: 1924' Section: 30 Township: 18N Range: 14W I.M.

County: Dewey State of Oklahoma

Terrain at Loc.: Location fell in a pasture, North and West of existing fences.

-Please note that this location was staked on the ground under the supenvision of a Licenard Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Advorsa Surveying and Mapping promptly if any inconsistency is determined. GPG data is observed from RTX. GPS any Inconsistency is determined. GPG data is observed from RTX. GPS. AVITE: X and Y data shown hereon for Section Conners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assured from a Government Survey Plat or assurined at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

S.H.L. Sec. 30-18N-14W I.M. B.H.L. Sec. 20-18N-14W I.M.



GPS DATUM **NAD 83** OK NORTH ZONE

Surface Hole Loc.: Lat: 36°00'03.01"N Lon: 98°43'34.47"W Lat: 36.00083595 Lon: -98.72624183 X: 1753684 Y: 365125

Landing Point: Lat: 36°00'07.26"N Lon: 98°43'22.84"W Lat: 36.00201742 Lon: -98.72300992 X: 1754643 Y: 365548

Bottom Hole Loc.: Lat: 36°01'16.73"N Lon: 98°43'23.32"W Lat: 36.02131262 Lon: -98.72314319 X: 1754656 Y: 372572

X:175921 Y:364814

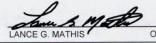
Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030 Certificate of Authorization No. 5348 Expires June 30, 2020

Invoice #8598-A

Date Staked: 04/15/19 By: J.W.
Date Drawn: 04/17/19 By: E.W.
Lease Name Change: 05/20/19 By: R.S.

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.



05/20/19 OK LPLS 1664

