API NUMBER: 043 23704 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

06/17/2019 Approval Date: Expiration Date: 12/17/2020

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: RUSH SPRINGS

Horizontal Hole Multi Unit

Oil & Gas

PERMIT TO DRILL

FEET FROM QUARTER: FROM SECTION LINES:	NORTH FROM WEST 650 2350		
Well No:	14-23-1XH	Well will be 650 feet from nea	arest unit or lease boundary.
	Telephone: 4056393786	OTC/OCC Number	: 24143 0
	STEV	F ROND	
73101-0779			73724
10725	7 8 9 10		
Location Exception		Increased Density Order	s:
		Special Orders:	
n: 1828 Surface	Casing: 560	Depth to base of Treatable W	ater-Bearing FM: 310
Fresh Wate	er Supply Well Drilled: No	Surface Water	er used to Drill: Yes
	Approved Metho	d for disposal of Drilling Fluids:	
eans Steel Pits		d application (REQUIRES PERMIT)	
	Well No: (73101-0779 Formations Only): Depth 9130 10725 Location Exception n: 1828 Surface Fresh Wate	SECTION LINES: 650	## SECTION LINES: 650 2350 Well No: 14-23-1XH

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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 23 Twp 18N Rge 14W County **DEWEY** Spot Location of End Point: S2 S2 SF SW Feet From: SOUTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 9428 Radius of Turn: 478 Direction: 185

Total Length: 9547

Measured Total Depth: 19725

True Vertical Depth: 10725

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category Description

HYDRAULIC FRACTURING

6/5/2019 - 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

INTERMEDIATE CASING 6/5/2019 - G71 - 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 6/5/2019 - 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 - 201901379 6/17/2019 - G58 - (I.O.) 14 & 23-18N-14W

EST MULTIUNIT HORÍZONTAL WELL

X687568 MSSP, WDFD X685492 MSSP, WDFD

(WDFD IS ADJACENT CSS TO MSSP)

50% 14-18N-14W 50% 23-18N-14W NO OP. NAMED

REC 3/26/2019 (P. PORTER)

PENDING CD - 201901380 6/17/2019 - G58 - (I.O.) 14 & 23-18N-14W

X687568 MSSP, WDFD X685492 MSSP, WDFD

COMPL. INT. 23-18N-14W NCT 165' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. 14-18N-14W NCT 165' FNL, NCT 0' FSL, NCT 660' FWL

NO OP. NAMED

REC 3/26/2019 (P. PORTER)

SPACING - 685492 6/17/2019 - G58 - (640)(HOR) 14-18N-14W

EXT 668907 MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB

POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

SPACING - 687568 6/17/2019 - G58 - (640)(HOR) 23-18N-14W

VAC 296906CSTR, MŚSLM, KDRK, WDFD, OTHER

EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB

POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL



S.H.L. Sec. 14-18N-14W I.M. B.H.L. Sec. 23-18N-14W I.M.

043-23704

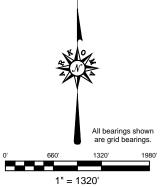
Operator: DERBY EXPLORATION, LLC Lease Name and No.: ALVADEAN 14-23-1XH

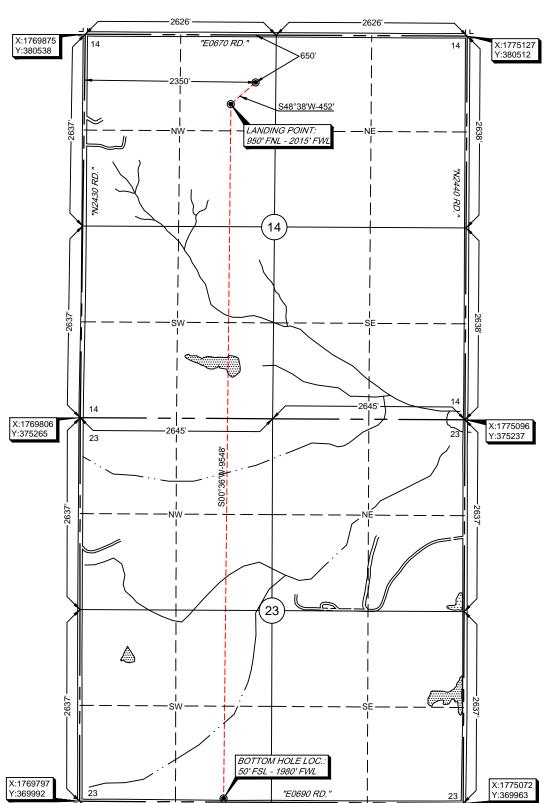
Footage: 650' FNL - 2350' FWL Gr. Elevation: 1828'

Section: 14 Township: 18N Range: 14W I.M.

County: Dewey State of Oklahoma

Terrain at Loc.: Location fell in a flat open field.





GPS DATUM NAD 83 OK NORTH ZONE

Surface Hole Loc.: Lat: 36°02'30.21"N Lon: 98°39'50.15"W Lat: 36.04172456 Lon: -98.66392989 X: 1772217 Y: 379877

Landing Point: Lat: 36°02'27.23"N Lon: 98°39'54.25"W Lat: 36.04089858 Lon: -98.66506921 X: 1771878 Y: 379578

Bottom Hole Loc.: Lat: 36°00'52.81"N Lon: 98°39'54.68"W Lat: 36.01466971 Lon: -98.66518831 X: 1771777 Y: 370031

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping pompily if any inconsistency is determined. GPS data is observed from RTK - GPS.

NOTE: X and Y data shown hereon for Section Comets may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Outsiter Section distances may be assurred at a proportionate distance from opposing section comets, or occupation thereof, and may not have been measured on-the-ground, and further, does not the processor a true boundary.

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, 2020

Invoice #8645 Date Staked: 05/10/19 By: D.K.
Date Drawn: 05/14/19 By: E.W.
Rev. Lease Name: 06/04/19 By:

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.



06/04/19

OK LPLS 1664

