

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

API NUMBER: 017 25180

Approval Date: 02/26/2018
Expiration Date: 08/26/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 14N Rge: 8W County: CANADIAN
SPOT LOCATION: SW SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 285 1775

Lease Name: HERMAN 3_34-15N-8W Well No: 2HX Well will be 285 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5010

HERMAN J. ROTHER
20351 N. CHILES RD.
OKARCHE OK 73762

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

	Name	Depth	Name	Depth
1	MISSISSIPPI SOLID	9198	6	
2	WOODFORD	9756	7	
3			8	
4			9	
5			10	

Spacing Orders: 628018
673883

Location Exception Orders: 673802

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 19750

Ground Elevation: 1192

Surface Casing: 590

Depth to base of Treatable Water-Bearing FM: 340

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 Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-33925

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 34 Twp 15N Rge 8W County KINGFISHER

Spot Location of End Point: N2 NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2310

Depth of Deviation: 8714

Radius of Turn: 477

Direction: 357

Total Length: 10287

Measured Total Depth: 19750

True Vertical Depth: 9808

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

Notes:

Category

Description

HYDRAULIC FRACTURING

2/16/2018 - 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

2/16/2018 - 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

LOCATION EXCEPTION - 673802

2/23/2018 - G75 - (I.O.) 3-14N-8W & 34-15N-8W
X628018 MSSSD, WDFD
COMPL. INT. (3-14N-8W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL
COMPL. INT. (34-15N-8W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL
DEVON ENERGY PROD. CO., L.P.
2-20-2018

MEMO

2/16/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

Category	Description
SPACING - 628018	2/23/2018 - G75 - (640)(HOR) 3-14N-8W & 34-15N-8W EST MSSSD, WDFD, OTHER COMPL. INT. NLT 330' FB, NCT 600' FWB (SUPERSEDE SP. ORDER # 152278 MSSSD 3-14N-8W & ORDER # 76186 MSSSD 34-15N-8W)
SPACING - 673883	2/23/2018 - G75 - (I.O.) 3-14N-8W & 34-15N-8W EST MULTIUNIT HORIZONTAL WELL X628018 MSSSD, WDFD (MSSSD ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% 3-14N-8W 50% 34-15N-8W DEVON ENERGY PROD. CO., L.P. 2-23-2018

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.
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300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 t 405.787.6276 f
www.craftontull.com
Crafton Tull
SURVEYING CA973(PE/LS) Exp. 6/30/18

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

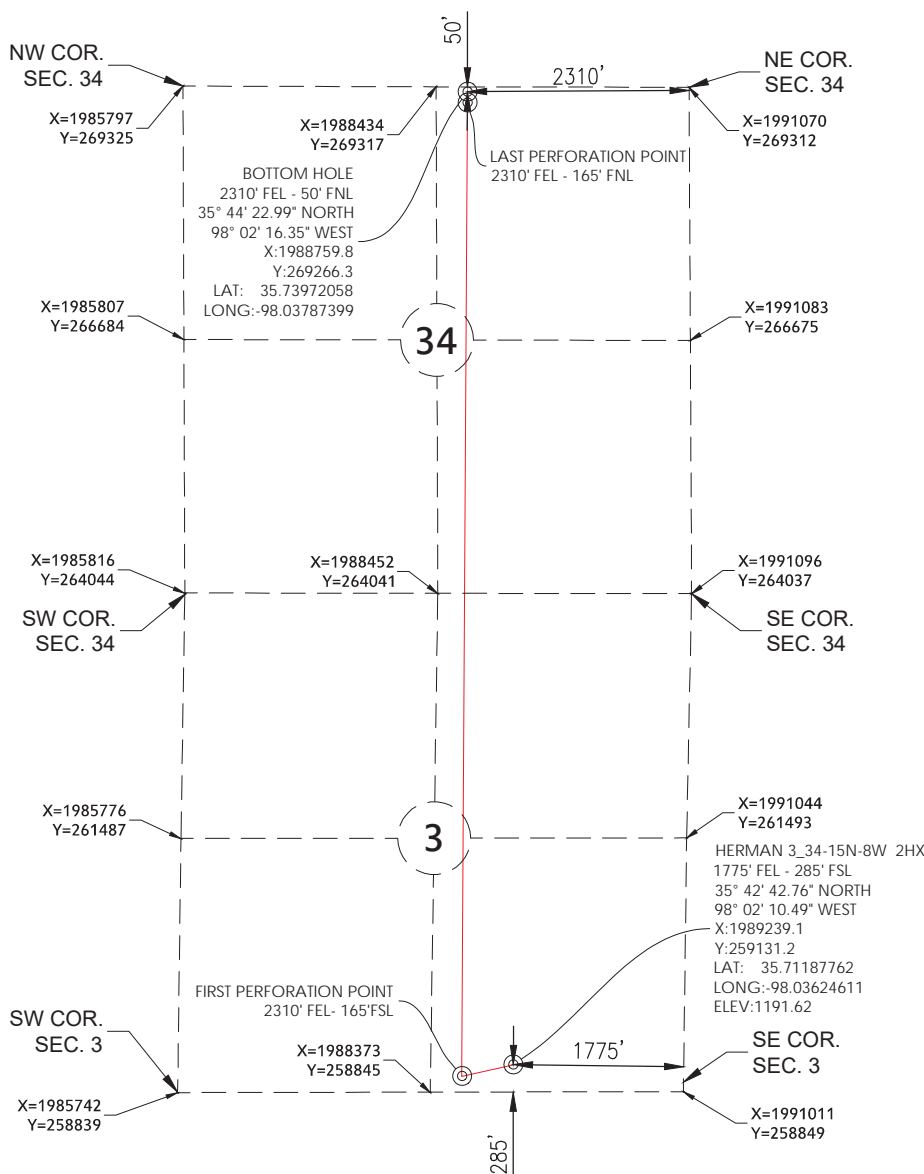
LEASE NAME: HERMAN 3_34-15N-8W
WELL NO. 2HX
GOOD DRILL SITE: YES
CANADIAN COUNTY, STATE: OK
GROUND ELEVATION: 1191.62' GR. AT STAKE
SURFACE HOLE FOOTAGE: 1775' FEL - 285' FSL
SECTION: 3 TOWNSHIP: T14N RANGE: R8W
BOTTOM HOLE: 34-T15N-R8W.I.M.
ACCESSIBILITY TO LOCATION: FROM SOUTH LINE
TOPOGRAPHY & VEGETATION: _____
LOCATION FELL IN A FIELD _____

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: _____
FROM THE TOWN OF OKARCHE HEAD WEST ON _____
OKLAHOMA AVE AKA E890 ±3.0MI TO N CHILES RD, HEAD
SOUTH ±1.0MI TO NW 234TH ST, HEAD WEST ±0.4MI, PAD
SITE IS NORTH OF THE ROAD IN A FIELD.

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RTK-GPS.
NOTE: X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.
QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR ASSUMED 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.

API 017-25180

CANADIAN COUNTY, OKLAHOMA
1775' FEL - 285' FSL SECTION 3 TOWNSHIP 14N RANGE 8W I.M.



SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1989239.1

Y: 259131.2

GPS DATUM: NAD27

LAT: 35.71187762

LONG: -98.03624611

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1957640.9

Y: 259154.9

GPS DATUM: NAD83

LAT: 35.71192382

LONG: -98.03657781

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1988759.8

Y: 269266.3

GPS DATUM: NAD27

LAT: 35.73972058

LONG: -98.03787399

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1957161.5

Y: 269290.0

GPS DATUM: NAD83

LAT: 35.73976611

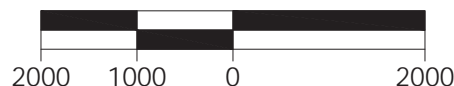
LONG: -98.03820613

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.

2018.01.17 08:51:35-06'00"



GRAPHIC SCALE IN FEET



REVISION		"HERMAN 3_34-15N-8W 2HX"		
R1	SHL SHIFT	PART OF THE SE/4 OF SECTION 3, T-14-N, R-8-W PROPOSED DRILL SITE CANADIAN COUNTY, OKLAHOMA		
R2	SHL SHIFT			
SCALE: 1" = 2000'		PLOT DATE: 01-17-2018		SHEET NO.: 1 OF 6
		DRAWN BY: SQ		