

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

API NUMBER: 073 26107

Approval Date: 06/14/2018

Expiration Date: 12/14/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 15N Rge: 8W

County: KINGFISHER

SPOT LOCATION:

SE

SW

SE

SE

FEET FROM QUARTER:

FROM

SOUTH

FROM

EAST

SECTION LINES:

230

960

Lease Name: SHANGRI-LA 25_24-15N-8W

Well No: 4HX

Well will be 230 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 73102-5015

MILLER FAMILY TRUST
1528 W. HICKORY
EL RENO OK 73036

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	8780	6
2			7
3			8
4			9
5			10

Spacing Orders: 636685

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804274
201804275
201804283
201804280

Special Orders:

Total Depth: 18953

Ground Elevation: 1191

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 410

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)
H. SEE MEMO

PERMIT NO: 18-34652

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 24 Twp 15N Rge 8W County KINGFISHER

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1510

Depth of Deviation: 8377

Radius of Turn: 477

Direction: 357

Total Length: 9827

Measured Total Depth: 18953

True Vertical Depth: 9315

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

Notes:

Category

Description

DEEP SURFACE CASING

6/12/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

6/12/2018 - 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

6/12/2018 - 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

MEMO

6/12/2018 - 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.

073 26107 SHANGRI-LA 25_24-15N-8W 4HX

Category	Description
PENDING CD - 201804274	6/14/2018 - G75 - (E.O.) 24-15N-8W X636685 MSSP, OTHER 4 WELLS DEVON ENERGY PROD. CO., L.P. REC 6-11-2018 (JACKSON)
PENDING CD - 201804275	6/14/2018 - G75 - (E.O.) 25-15N-8W X636685 MSSP 4 WELLS DEVON ENERGY PROD. CO., L.P. REC 6-11-2018 (JACKSON)
PENDING CD - 201804280	6/14/2018 - G75 - (E.O.) 25 & 24-15N-8W EST MULTIUNIT HORIZONTAL WELL X636685 MSSP, OTHER 50% 25-15N-8W 50% 24-15N-8W DEVON ENERGY PROD. CO., L.P. REC 6-11-2018 (JACKSON)
PENDING CD - 201804283	6/14/2018 - G75 - (E.O.) 25 & 24-15N-8W X636685 MSSP, OTHER X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. (25-15N-8W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (24-15N-8W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL DEVON ENERGY PROD. CO., L.P. REC 6-11-2018 (JACKSON)
SPACING - 636685	6/14/2018 - G75 - (640)(HOR) 24 & 25-15N-8W EST MSSP, OTHERS POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 37910 MCSTR & ORDER # 139996 MNNG, MSSSD)

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.

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: SHANGRI-LA 25_24-15N-8W

WELL NO. 4HX

GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE: OK

GROUND ELEVATION: 1191.48' GR. AT STAKE

SURFACE HOLE FOOTAGE: 960' FEL - 230' FSL

SECTION: 25 TOWNSHIP: T15N RANGE: R8W

BOTTOM HOLE: 24-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 OKARCHER HEAD WEST ±1.0MI ON
OKLAHOMA AVE. TO N2810RD, HEAD NORTH ±1.0MI TO
E0880RD, HEAD WEST ±0.2MI, PAD SITE IS NORTH OF ROAD

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.

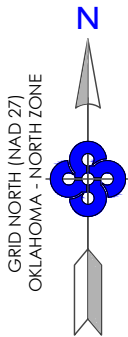
NOTE: X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON
THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

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 073-26107

KINGFISHER COUNTY, OKLAHOMA

960' FEL - 230' FSL SECTION 25 TOWNSHIP 15N RANGE 8W I.M.



SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2000679.4

Y: 269580.5

GPS DATUM: NAD27

LAT: 35.74058982

LONG: -97.99771068

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1969081.3

Y: 269604.2

GPS DATUM: NAD83

LAT: 35.74063546

LONG: -97.99804134

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2000123.8

Y: 279869.1

GPS DATUM: NAD27

LAT: 35.76885515

LONG: -97.99958286

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1968525.5

Y: 279892.9

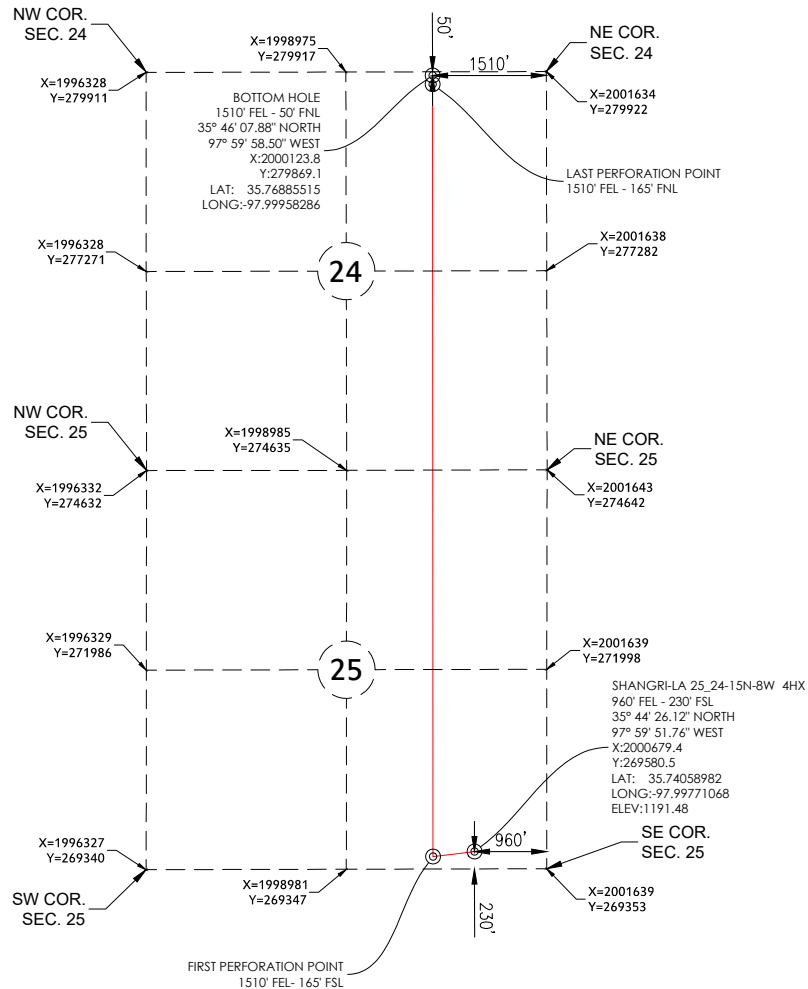
GPS DATUM: NAD83

LAT: 35.76890006

LONG: -97.99991408

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.

2018.05.03 09:23:42-05'00'



GRAPHIC SCALE IN FEET



REVISION		"SHANGRI-LA 25_24-15N-8W 4HX"	
R1	PAD CHANGE	PART OF THE SE/4 OF SECTION 25, T-15-N, R-8-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA	
SCALE: 1" = 2000'		PLOT DATE: 05-03-2018	
DRAWN BY: DW		SHEET NO.: 1 OF 6	

