API NUMBER: 073 26312

Oil & Gas

Horizontal Hole

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

Approval Date: 10/11/2018
Expiration Date: 04/11/2020

PERMIT TO DRILL

WELL LOCATION:	Sec:	05	Twp:	16N	Rge:	W8	County:	KINGFISHER
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SPOT LOCATION: NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST SECTION LINES: 240 980

Lease Name: SANTANA Well No: 1708 8H-29X Well will be 240 feet from nearest unit or lease boundary.

Operator NEWFIELD EXPLORATION MID-CON INC Telephone: 2816742521; 9188781 OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC 24 WATERWAY AVE STE 900

THE WOODLANDS. TX 77380-2764

KARON MCKINLEY 7701 SANDY LANE

EDMOND OK 73034

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

Depth Name Depth MISSISSIPPIAN (LESS CHESTER) 1 8468 6 2 7 3 8 4 9 10 644685 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201806086 Special Orders:

648447

Total Depth: 18981 Ground Elevation: 1210 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 290

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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

is deput to top of ground water greater than fort below base of pit:

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

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

H. SEE MEMO

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 29 Twp 17N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NW NW Feet From: NORTH 1/4 Section Line: 85
Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 7922 Radius of Turn: 477 Direction: 350

Total Length: 10310

Measured Total Depth: 18981

True Vertical Depth: 8477

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category Description

DEEP SURFACE CASING 9/13/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 9/13/2018 - 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 9/13/2018 - 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 9/13/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST,

WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO R360

587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR

Category Description

PENDING CD - 201806072 10/11/2018 - G58 - 29-17N-8W

X644685/648447 MSNLC

7 WELLS NO OP NAMED

REC 8/21/2018 (JACKSON)

PENDING CD - 201806073 10/11/2018 - G58 - 32-17N-8W

X644685 MSNLC 7 WELLS NO OP NAMED

REC 8/21/2018 (JACKSON)

PENDING CD - 201806086 10/11/2018 - G58 - (I.O) 29 & 32-17N-8W

EST MULTIUNIT HORIZONTAL WELL

X644685/648447 MSNLC

50% 32-17N-8W 50% 29-17N-8W NO OP. NAMED

REC 8/21/2018 (JACKSON)

PENDING CD - 201806087 10/11/2018 - G58 - (I.O) 29 & 32-17N-8W

X644685/648447 MSNLC

COMPL. INT. 32-17N-8W NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 29-17N-8W NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

NO OP. NAMED

REC 8/21/2018 (JACKSON)

PENDING CD - 201806088 10/11/2018 - G58 - (I.O.) 29 & 32-17N-8W

X165:10-3-28(C)(2)(B) MSNLC (SANTANA 1708 8H-29X)

MAY BE CLOSER THAN 600' FROM THE SANTANA 1H-29X WELL MAY BE CLOSER THAN 600' FROM THE KRAUS 20-1 WELL MAY BE CLOSER THAN 600' FROM THE FISHER 1-32 WELL MAY BE CLOSER THAN 600' FROM PROPOSED WELL

REC 8/21/2018 (JACKSON)

