

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

API NUMBER: 073 26517

Approval Date: 03/26/2019

Expiration Date: 09/26/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 16N Rge: 8W

County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 245 2070

Lease Name: YOST

Well No: 1608 2H-18X

Well will be 245 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2812105100; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
4 WATERWAY SQUARE PL STE 100
THE WOODLANDS, TX 77380-2764

KAREN SUE YOST AND KENNETH L YOST
7847 E. 840 RD
KINGFISHER OK 73750

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8775	6	
2	WOODFORD	9355	7	
3			8	
4			9	
5			10	

Spacing Orders: 614033
687618

Location Exception Orders: 687619
686483

Increased Density Orders: 686484
686485

Pending CD Numbers:

Special Orders:

Total Depth: 19415

Ground Elevation: 1112

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 170

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

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: FLOWERPOT

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36244

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

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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 18 Twp 16N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 1634

Depth of Deviation: 8350

Radius of Turn: 478

Direction: 355

Total Length: 10295

Measured Total Depth: 19415

True Vertical Depth: 9355

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

Notes:

Category	Description
DEEP SURFACE CASING	3/1/2019 - 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	3/1/2019 - 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
INCREASED DENSITY - 686484	3/25/2019 - G58 - 18-16N-8W X614033 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 11/9/2018
INCREASED DENSITY - 686485	3/25/2019 - G58 - 19-16N-8W X614033 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 11/9/2018

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073 26517 YOST 1608 2H-18X

Category	Description
INTERMEDIATE CASING	3/1/2019 - 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
LOCATION EXCEPTION - 686483	3/25/2019 - G58 - (I.O.) 18 & 19-16N-8W X165:10-3-28(C)(2)(B) MSSP (YOST 1608 2H-18X) MAY BE CLOSER THAN 600' TO THE YOST 1608 1H-18X MAY BE CLOSER THAN 600' TO PROPOSED WELL 11/9/2018
LOCATION EXCEPTION - 687618	3/25/2019 - G58 - (I.O.) 18 & 19-16N-8W X614033 MSSP, WDFD COMPL. INT. 19-16N-8W NCT 0' FNL, NCT 165' FSL, NCT 1320' FWL COMPL. INT. 18-16N-8W NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL NEWFIELD EXPLORATION MID-CONTINENT IC. 12/4/2018
MEMO	3/1/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS (REQUIRED - KINGFISHER CREEK), WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM CUTTINGS WILL BE SOIL FARMED, WBM & OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
SPACING - 614033	3/25/2019 - G58 - (640)(HOR) 18 & 19-16N-8W VAC 42491 MCSTR VAC 83896 MISS, MNNG VAC 131715 MSSNC, MNNG (SEC 18) VAC 195139 MSSNC, MNNG, WDFD (SEC 18) EST MSSP, WDFD POE TO BHL (MSSP)NCT 660' FB POE TO BHL (WDFD) NCT 165 FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)
SPACING - 687618	3/25/2019 - G58 - (I.O.) 18 & 19-16N-8W EST MULTIUNIT HORIZONTAL WELL X614033 MSSP, WDFD (WDFD IS ADJACENT CSS TO MSSP) 50% 18-16N-8W 50% 19-16N-8W NEWFIELD EXPLORATION MID-CONTINENT INC. 12/4/2018

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PERMIT PLAT

M & M Land Surveying, Inc.
Phone (580) 226-0446
520 E Street N.W.
Ardmore, OK 73401

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.

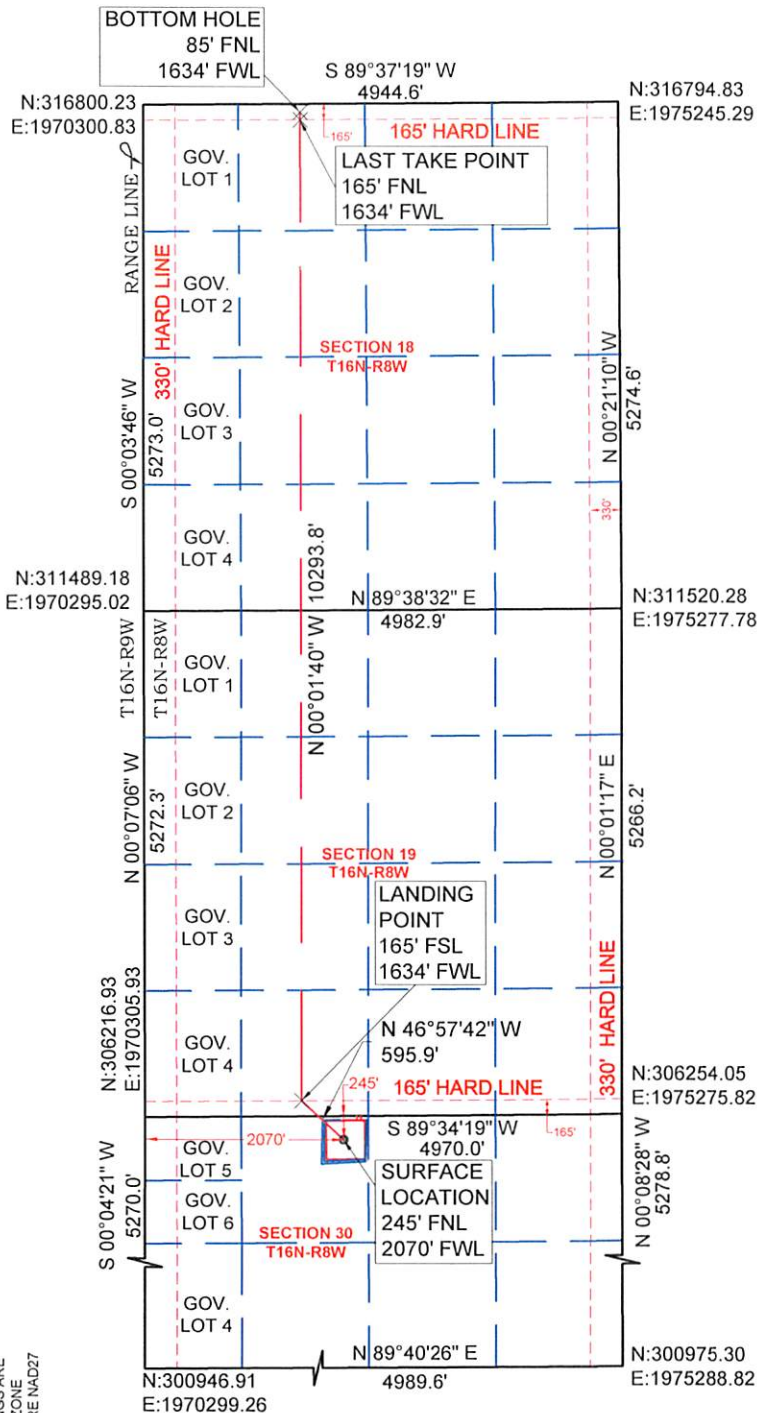
Lease Name: YOST 1608 2H-18X

Section 30 Township 16 N Range 8 W, I.B.M., County of Kingfisher, State of Oklahoma

Original Location: 245' FNL - 2070' FWL Elevation 1112' GROUND Good Location? YES

Distance & Direction From Nearest Town: 9.1 miles West of Kingfisher.

073-26517



SURFACE LOCATION	LANDING POINT
DATUM: NAD27	DATUM: NAD27
LAT: 35° 50' 26.06"N	LAT: 35° 50' 30.08"N
LONG: 98° 05' 35.52"W	LONG: 98° 05' 40.82"W
LAT: 35.840571°N	LAT: 35.841688°N
LONG: 98.093200°W	LONG: 98.094671°W
Y (N): 305987.31	Y (N): 306394.13
X (E): 1972375.42	X (E): 1971939.77
DATUM: NAD83	DATUM: NAD83
LAT: 35° 50' 26.21"N	LAT: 35° 50' 30.23"N
LONG: 98° 05' 36.73"W	LONG: 98° 05' 42.03"W
LAT: 35.840614°N	LAT: 35.841730°N
LONG: 98.093536°W	LONG: 98.095008°W
Y (N): 306011.03	Y (N): 306417.85
X (E): 1940776.31	X (E): 1940340.64

LAST TAKE POINT	BOTTOM HOLE
DATUM: NAD27	DATUM: NAD27
LAT: 35° 52' 11.09"N	LAT: 35° 52' 11.88"N
LONG: 98° 05' 40.99"W	LONG: 98° 05' 41.00"W
LAT: 35.869747°N	LAT: 35.869967°N
LONG: 98.094721°W	LONG: 98.094721°W
Y (N): 316607.98	Y (N): 316687.98
X (E): 1971934.94	X (E): 1971934.91
DATUM: NAD83	DATUM: NAD83
LAT: 35° 52' 11.24"N	LAT: 35° 52' 12.03"N
LONG: 98° 05' 42.21"W	LONG: 98° 05' 42.21"W
LAT: 35.869789°N	LAT: 35.870009°N
LONG: 98.095058°W	LONG: 98.095059°W
Y (N): 316631.69	Y (N): 316711.69
X (E): 1940335.67	X (E): 1940335.64

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified.

CERTIFICATE:

I Aaron Morris a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

1/18/2019

Aaron L. Morris R.P.L.S. No.1477
Bennett-Morris & Associates Land
Surveying P.C. ~ C.A. No. 5795 (LS)
Phone (580) 226-5108
Fax (888) 662-7778
1010 Northwest Boulevard
Ardmore, OK 73401



COORDINATES ARE AS SHOWN ARE
DERIVED FROM OPUS SOLUTION.
PROJECTION: OKLAHOMA NORTH
ZONE, LAMBERT CONFORMAL
HORIZONTAL: NAD27
VERTICAL: NAVD88
GEOID MODEL: GEOID 99
UNITS: US SURVEY FEET



SCALE 1" = 2000'
2000'

SURVEY BY: M & M Land Surveying, Inc. - C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2019 C.A. No. 5795 (LS) - Aaron L. Morris, RPLS	
PROJECT NUMBER: 18530	SITE VISIT: (Explanation and Date)
SHEET: 6 OF 9	STAKING DATE: 10/26/2018
	DRAWING DATE: 01/09/2019