

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

API NUMBER: 011 23949

Approval Date: 03/02/2018

Expiration Date: 09/02/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 15N Rge: 13W

County: BLAINE

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 300 470

Lease Name: CEDAR RANCH

Well No: 1513 1H-15

Well will be 300 feet from nearest unit or lease boundary.

Operator Name: 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

WILBUR DEAN DUNCAN
3425 N. IMO ROAD
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11920	6	
2	WOODFORD	12600	7	
3			8	
4			9	
5			10	

Spacing Orders: 666835

Location Exception Orders: 667912

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 17377

Ground Elevation: 1732

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: AIR

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: 4

Liner not required for Category: 4

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

G. Haul to recycling/re-use facility: Sec. 22 Twn. 16N Rng. 9W Cnty. 73 Order No: 647741

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: WATER BASED

Chlorides Max: 8000 Average: 5000

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

PIT 3 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 15 Twp 15N Rge 13W County BLAINE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 11064

Radius of Turn: 800

Direction: 175

Total Length: 5056

Measured Total Depth: 17377

True Vertical Depth: 12600

End Point Location from Lease,

Unit, or Property Line: 50

Notes:

Category

Description

COMPLETION INTERVAL

3/2/2018 - G57 - COMPLETION INTERVAL FOR THE WOODFORD WILL BE GREATER THAN 165' FNL AND FSL; GREATER THAN 330' FEL AND FWL OF 15-15N-13W PER SPACING ORDER #666835 PER OPERATOR

DEEP SURFACE CASING

2/27/2018 - 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

This permit does not address the right of entry or settlement of surface damages.

011 23949 CEDAR RANCH 1513 1H-15

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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
HYDRAULIC FRACTURING	<p>2/27/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
INTERMEDIATE CASING	2/27/2018 - 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 - 667912	<p>3/2/2018 - G57 - (I.O.) 15-15N-13W X666835 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL NEWFIELD EXPLORATION MID-CONTINENT, INC. 9-7-2017</p>
MEMO	2/27/2018 - G71 - PIT 2 & 3 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO BACKYARD ENERGY SERVICES 647741 (22-16N-9W), KINGFISHER CO); PIT 3 - OBM TO VENDOR
SPACING - 666835	<p>3/2/2018 - G57 - (640)(HOR) 15-15N-13W EST MSSP, WDFD, OTHERS POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL</p>

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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.

PERMIT PLAT

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

API: 011 23949

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.

Lease Name: CEDAR RANCH 1513 1H-15

Section 15 Township 15 N Range 13 W , I.B.M., County of Blaine, State of Oklahoma

Elevation Good Location?

Original Location: 300'FNL - 470'FEL 1732' GROUND YES

Distance & Direction From Nearest Town: 9.0 miles Southwest of Watonga

LANDING
POINT
165' FNL
380' FEL



SCALE 1" = 1000'

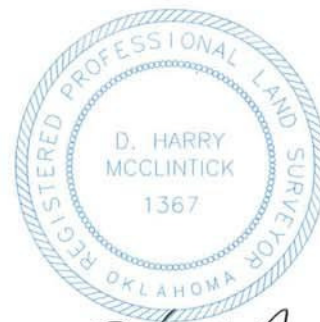


SURFACE LOCATION
DATUM: NAD27
LAT: 35° 46' 55.99"N
LONG: 98° 33' 44.88"W
LAT: 35.782220°N
LONG: 98.562466°W
STATE PLANE
COORDINATES: (US SURVEY
FEET)
ZONE: NORTH ZONE
Y (N): 285217.38
X (E): 1833161.88

DATUM: NAD83
LAT: 35° 46' 56.16"N
LONG: 98° 33' 46.16"W
LAT: 35.782267°N
LONG: 98.562821°W
STATE PLANE
COORDINATES: (US SURVEY
FEET)
ZONE: NORTH ZONE
Y (N): 285242.33
X (E): 1801560.62

DATA DERIVED FROM G.P.S.
WITH O.P.U.S. DATA.

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.



DH McClintick 2/15/18
D. Harry McClintick
PLS. No. 1367 CFEDS

CERTIFICATE:

I D. Harry McClintick 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.

SURVEY BY: M & M Land Surveying, Inc. - C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2017 C.A. No. 5975 (LS) - Aaron L. Morris, RPLS	
PROJECT NUMBER: 18041	SITE VISIT: (Explanation and Date)
	STAKING DATE: 01/25/2018
SHEET: 6 OF 10	DRAWING DATE: 02/06/2018