

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

API NUMBER: 073 26228

Approval Date: 08/23/2018

Expiration Date: 02/23/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 17N Rge: 8W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 315 250

Lease Name: SANTANA

Well No: 1708 2H-29X

Well will be 250 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

KARON MCKINLEY  
7701 SANDY LAND  
EDMOND OK 73034

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8407	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 644685  
648447

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806075  
201806074  
201806072  
201806073  
201806088

Special Orders:

Total Depth: 18981

Ground Elevation: 1215

**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**

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 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

H. SEE MEMO

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

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 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: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1075

Depth of Deviation: 8002

Radius of Turn: 477

Direction: 10

Total Length: 10230

Measured Total Depth: 18981

True Vertical Depth: 8660

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

8/14/2018 - 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

8/14/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### INTERMEDIATE CASING

8/14/2018 - 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

8/14/2018 - 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

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

073 26228 SANTANA 1708 2H-29X

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
PENDING CD - 201806072	8/21/2018 - G58 - 29-17N-8W X644685/648447 MSNLC 7 WELLS NO OP NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806073	8/21/2018 - G58 - 32-17N-8W X644685 MSNLC 7 WELLS NO OP NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806074	8/21/2018 - 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 - 201806075	8/21/2018 - G58 - (I.O) 29 & 32-17N-8W X644685/648447 MSNLC COMPL. INT. 32-17N-8W NCT 165' FSL, NCT 0' FNL, NCT 990' FEL COMPL. INT. 29-17N-8W NCT 0' FSL, NCT 165' FNL, NCT 990' FEL NO OP. NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806088	8/21/2018 - G58 - (I.O.) 29 & 32-17N-8W X165:10-3-28(C)(2)(B) MSNLC (SANTANA 1708 2H-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)
SPACING - 644685	8/21/2018 - G58 - (640)(HOR) 29 & 32-17N-8W EXT 637461 MSNLC POE TO BHL NCT 660' FB (MSNLC) (COEXIST SP. ORDER #143505/168065 MSSLM SEC 29, SP. ORDER #501091 MSSLM SW4 SEC 32, SP.ORDER #143505 MSSLM N2 & SE4 SEC 32)
SPACING - 648447	8/21/2018 - G58 - SP. ORDER 644685 IS CONFIRMED THIS ORDER NOTIFIES RESPONDENTS IN THE LANDS MENTIONED IN SP ORDER 644685

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

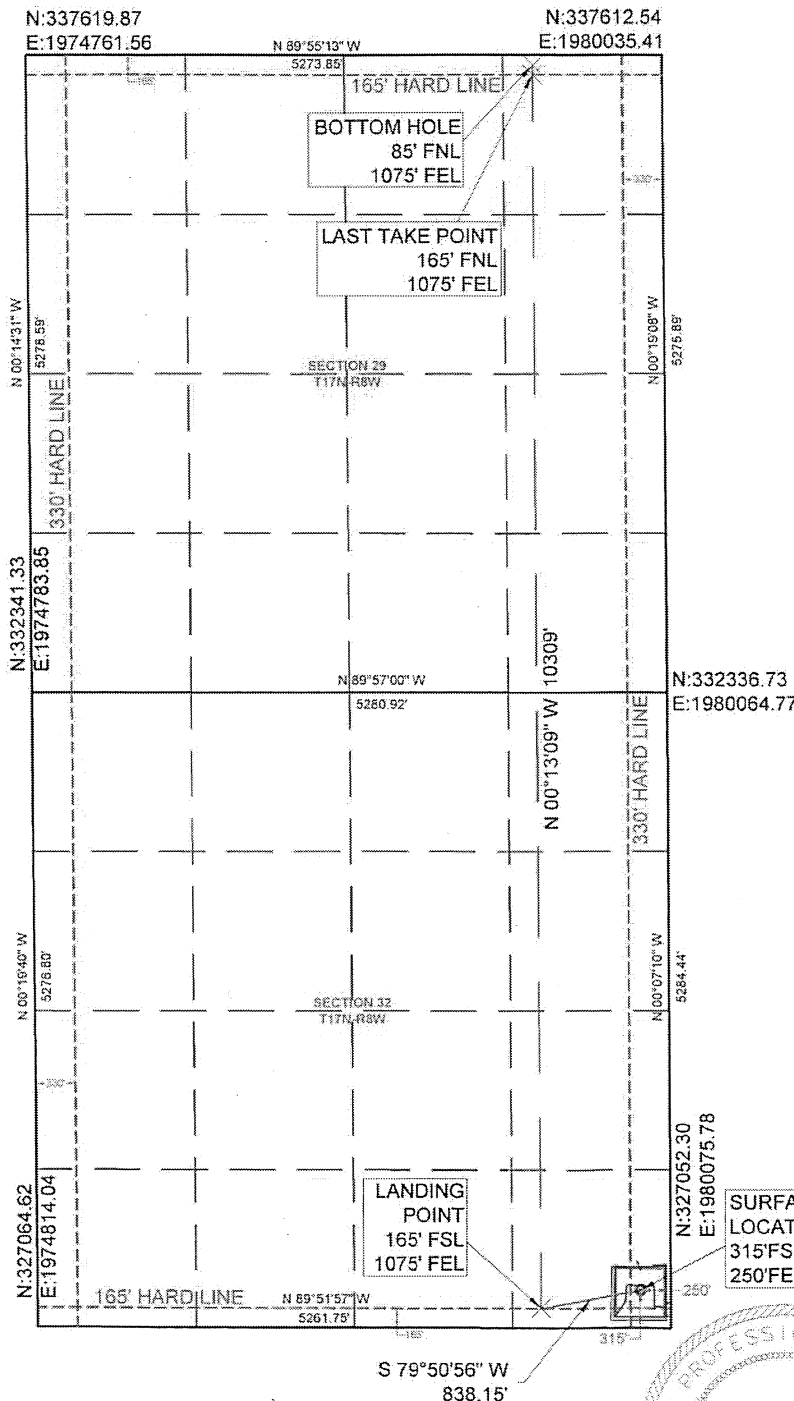
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M & M Land Surveying, Inc.  
Phone (580) 226-0446  
520 E Street N.W.  
Ardmore, OK 73401

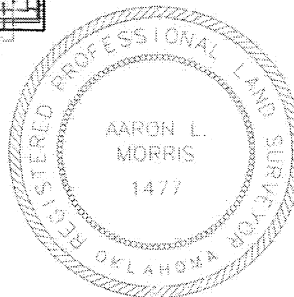

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.  
Lease Name: SANTANA 1708 2H-29X  
Section 32 Township 17 N Range 8 W , I.B.M. County of Kingfisher, State of Oklahoma  
Elevation Good Location?  
Original Location: 315'FSL - 250'FEL 1215' GROUND YES  
Distance & Direction From Nearest Town: 8.1 miles Northwest of Kingfisher

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



SCALE 1" = 1500'

0' 1500'



SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
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PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
18309	STAKING DATE: 07/24/2018
SHEET: 6 OF 10	DRAWING DATE: 07/26/2018