

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

API NUMBER: 073 26145

Approval Date: 07/12/2018

Expiration Date: 01/12/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 15N Rge: 7W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 270 2400

Lease Name: BURGESS

Well No: 1507 2H-18

Well will be 270 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

ELAINE F. JONES  
403 BUOY CIRCLE  
GEORGETOWN TX 78633

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	8395	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 646129

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804396  
201804395

Special Orders:

Total Depth: 13788

Ground Elevation: 1158

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 310

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 BED AQUIFER

Pit Location Formation: DUNCAN

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

## HORIZONTAL HOLE 1

Sec 18 Twp 15N Rge 7W County KINGFISHER

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 2610

Depth of Deviation: 8084

Radius of Turn: 425

Direction: 183

Total Length: 5037

Measured Total Depth: 13788

True Vertical Depth: 8555

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

Additional Surface Owner	Address	City, State, Zip
THOMAS A. TOMARO & MARY K. TO	1620 WILDHORSE PARKWAY DRIVE	CHESTERFIELD, MO 63005

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

6/29/2018 - 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

6/29/2018 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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)

#### MEMO

6/29/2018 - 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

#### PENDING CD - 201804395

7/10/2018 - G58 - 18-15N-7W  
X646129 MSNLC  
2 WELLS  
NO OP. NAMED  
REC 7/6/2018 (THOMAS)

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

073 26145 BURGESS 1507 2H-18

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 - 201804396	7/10/2018 - G58 - (E.O.) 18-15N-7W X646129 MSNLC COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1980' FEL NO OP. NAMED REC 7/6/2018 (THOMAS)
SPACING - 646129	7/10/2018 - G58 - (640)(HOR) 18-15N-7W EXT 641015 MSNLC, OTHER COMPL. INT. NLT 660' FB (EXIST CONCURRENTLY WITH NON-HORIZONTAL DRILLING AND SPACING UNITS)

# WELL LOCATION

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

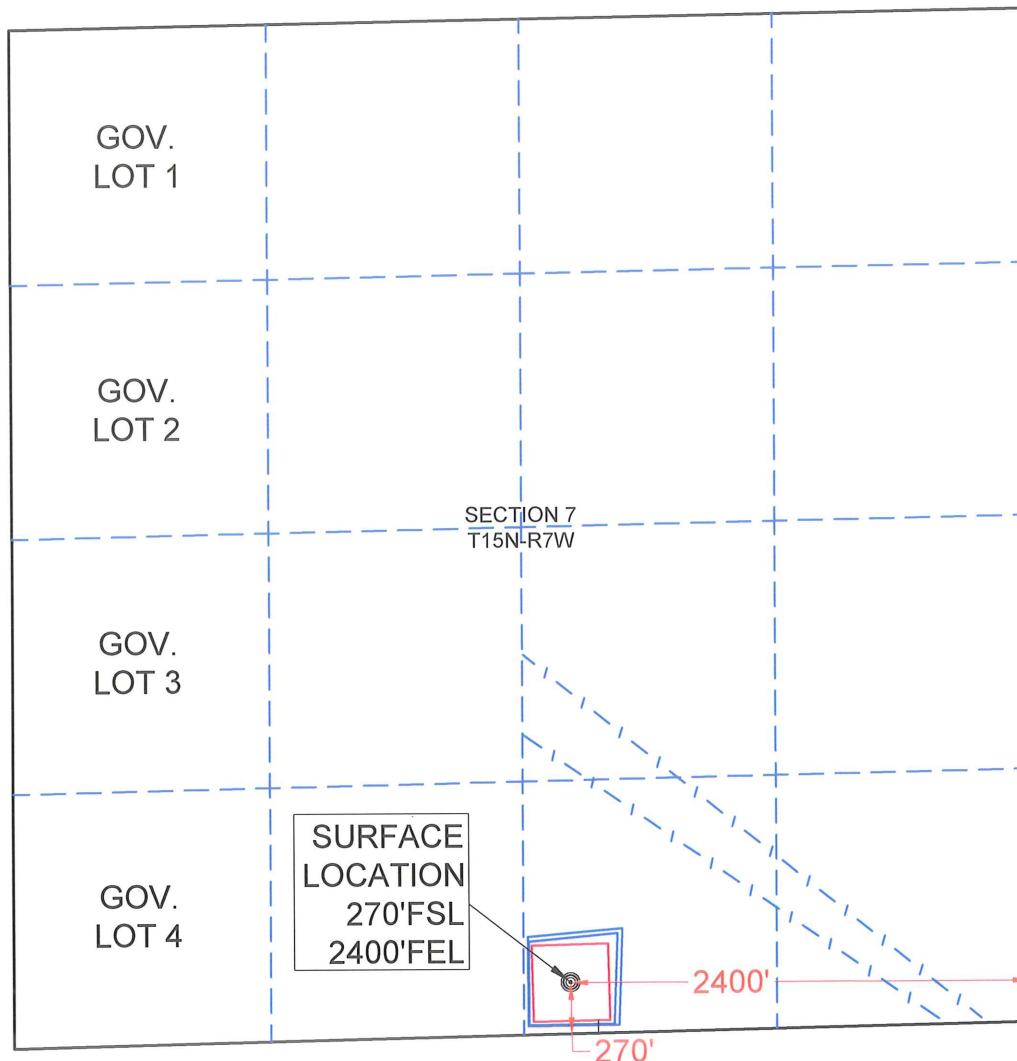
073-26145

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.  
Lease Name: BURGESS 1507 2H 18  
Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma  
Elevation Good Location?  
Original Location: 270'FSL - 2400'FEL 1158' GROUND YES

Topography: PASTURE

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.

Best Accessibility to Location: From the South  
Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher  
From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.



SCALE 1" = 1000'



*ALM* 06/01/2018

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

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:	SITE VISIT: (Explanation and Date)
18225	STAKING DATE: 05/24/2018
SHEET: 1 OF 10	DRAWING DATE: 05/31/2018

# LOCATION AND ELEVATION VERIFICATION MAP

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: **BURGESS 1507 2H 18**

Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma  
Elevation Good Location?

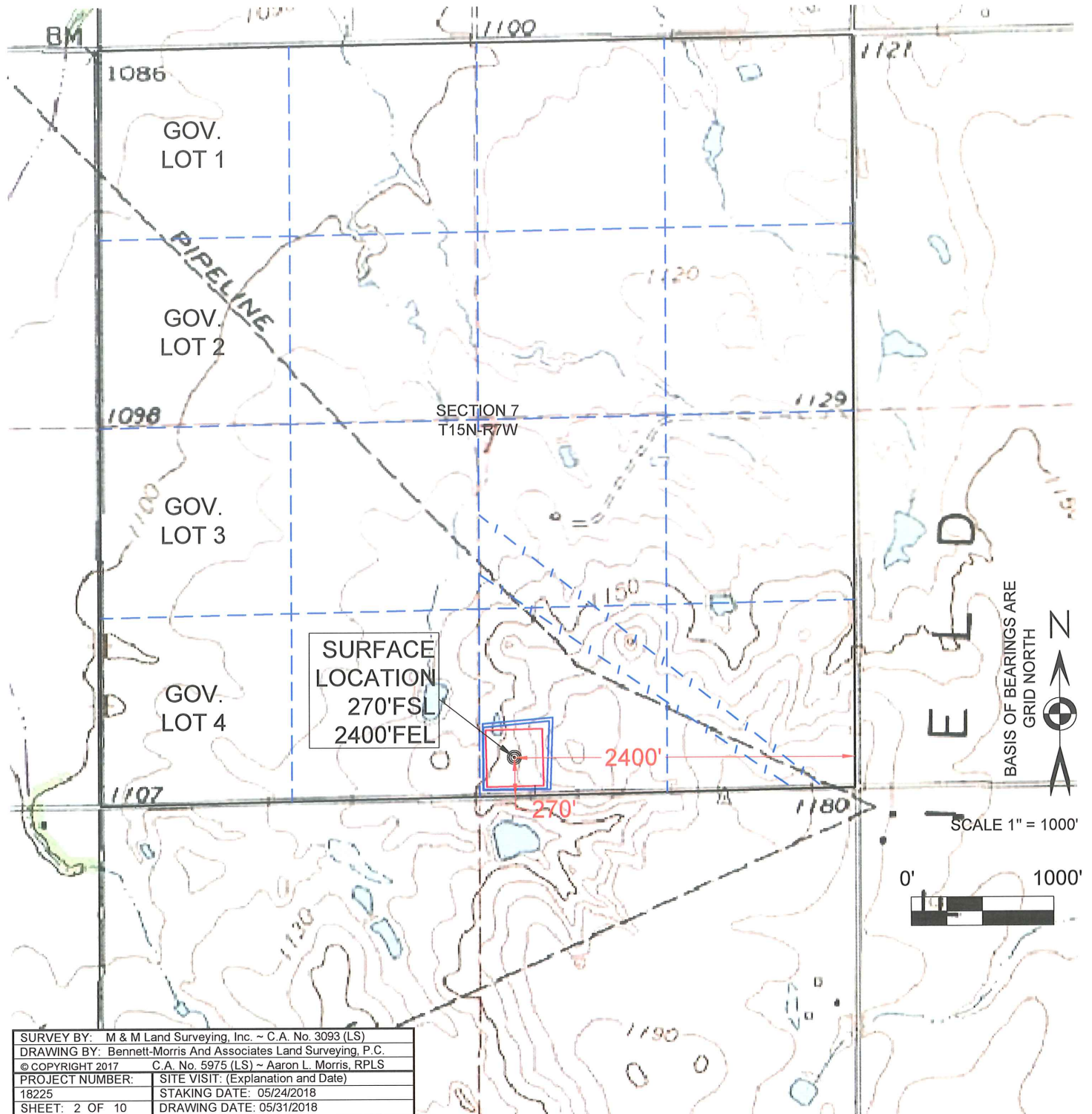
Original Location: 270'FSL - 2400'FEL 1158' GROUND YES

Topography: **PASTURE**

Best Accessibility to Location: From the South

Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher

From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.





# FLOOD ELEVATION MAP

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: BURGESS 1507 2H 18

Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma

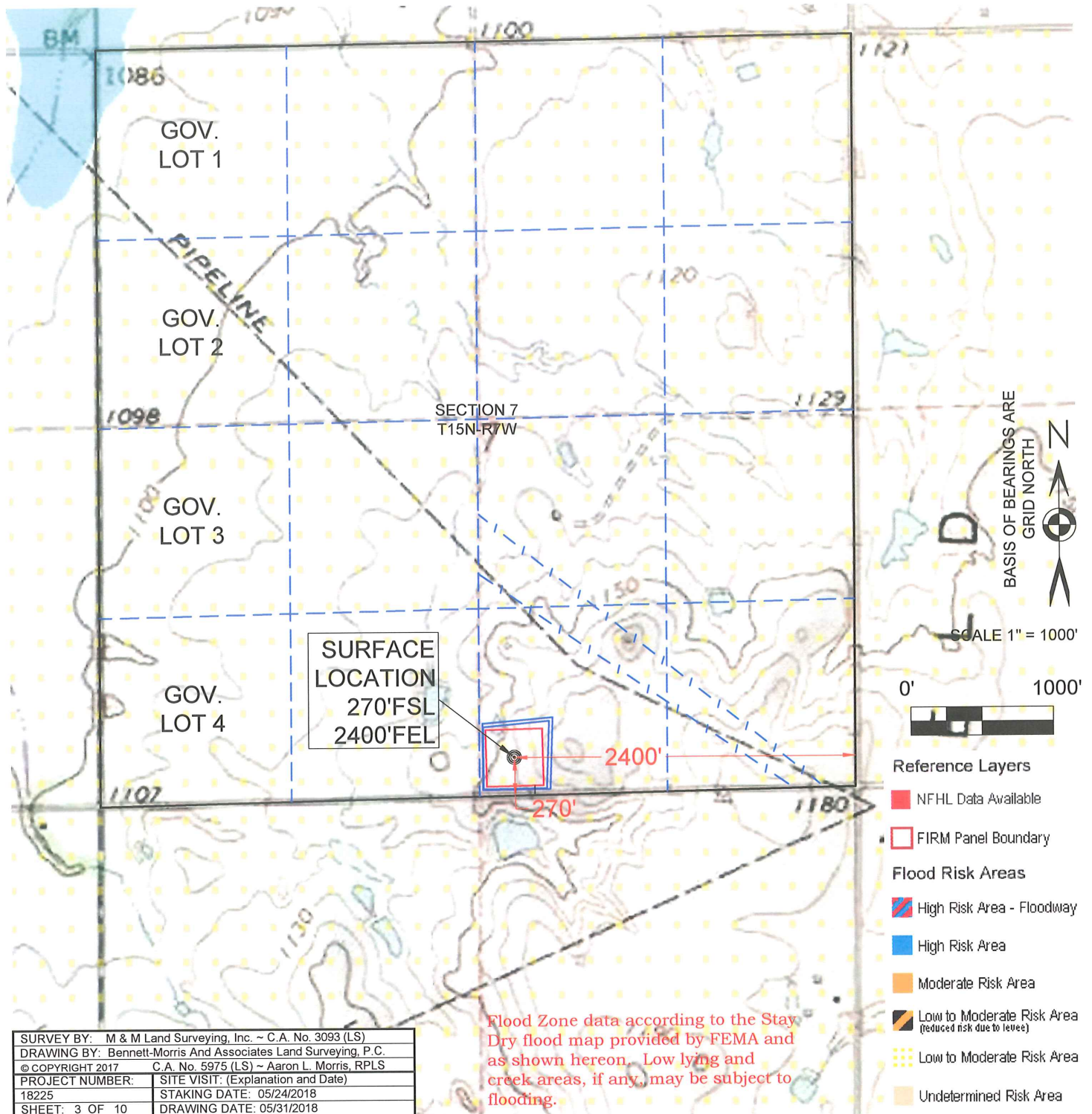
Original Location: 270'FSL - 2400'FEL Elevation 1158' Good Location? YES

Topography: PASTURE

Best Accessibility to Location: From the South

Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher

From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.





# AERIAL PHOTO

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: **BURGESS 1507 2H 18**

Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma  
Elevation Good Location?

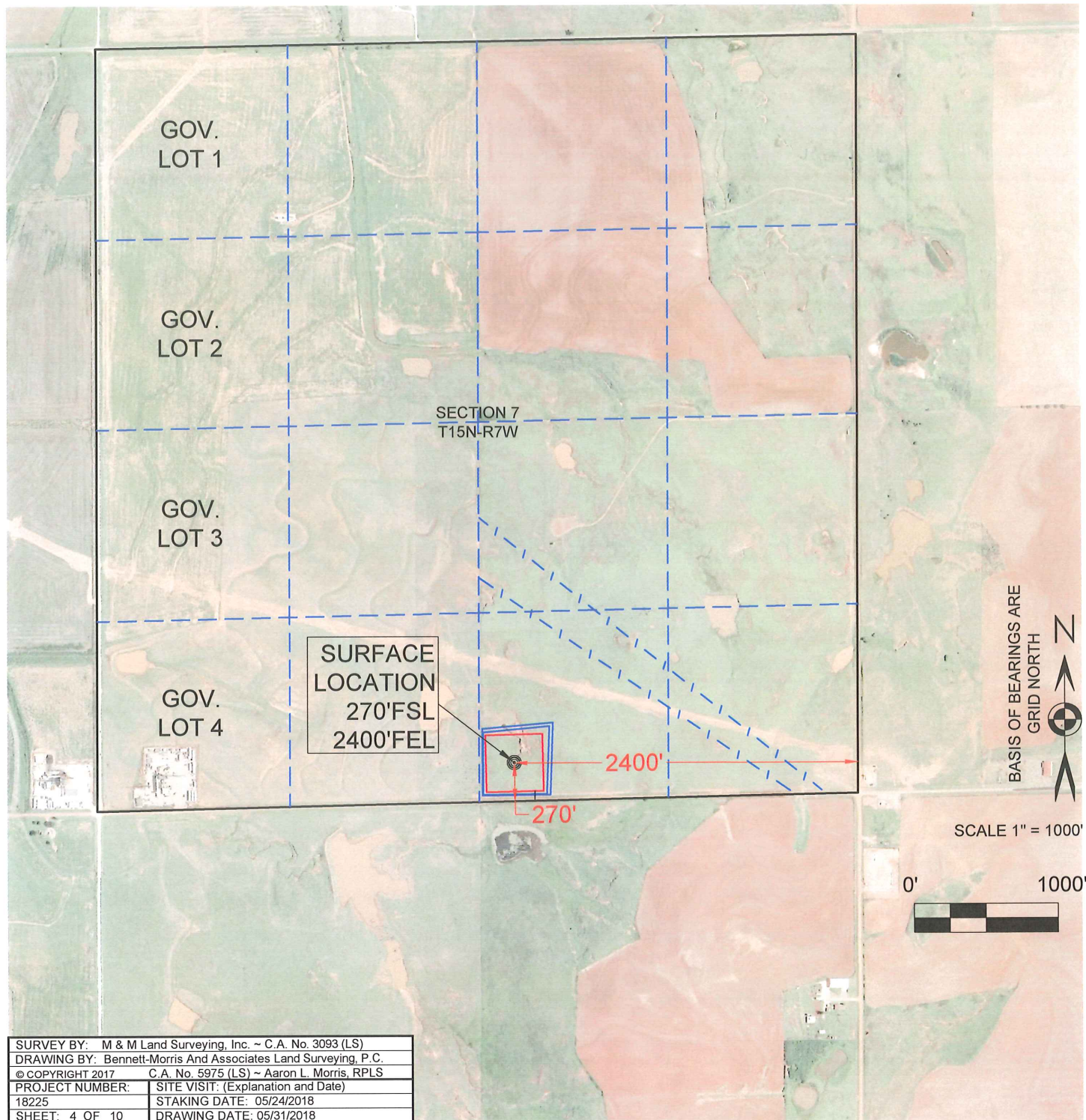
Original Location: 270'FSL - 2400'FEL 1158' GROUND YES

Topography: PASTURE

Best Accessibility to Location: From the South

Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher

From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.



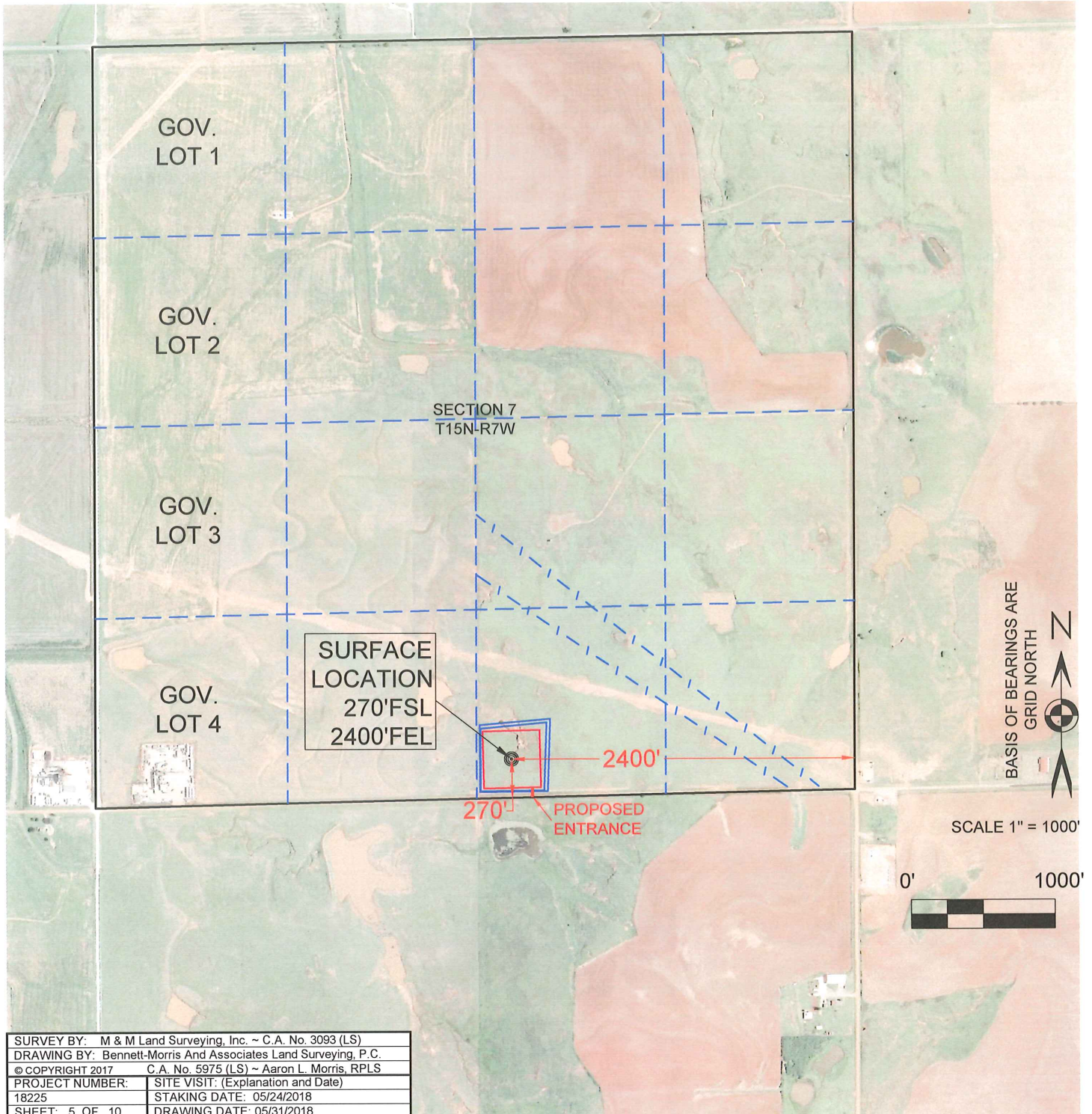


# LEASE ROAD PLAT

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: **BURGESS 1507 2H 18**  
Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma  
Elevation 1158' Good Location? YES  
Original Location: 270'FSL - 2400'FEL  
Topography: **PASTURE**

Best Accessibility to Location: From the South  
Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher  
From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.





# PERMIT PLAT

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

073-26145

Company Name: **NEWFIELD EXPLORATION MID-CONTINENT INC.**

Lease Name: **BURGESS 1507 2H 18**

Section 7 Township 15 N Range 7 W , I.B.M, County of Kingfisher, State of Oklahoma

Elevation Good Location?

Original Location: 270'FSL - 2400'FEL 1158' GROUND YES

Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher

## SURFACE LOCATION

DATUM: NAD27

LAT: 35° 47' 04.00"N

LONG: 97° 59' 04.75"W

LAT: 35.784443°N

LONG: 97.984654°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 285543.59

X (E): 2004551.96

DATUM: NAD83

LAT: 35° 47' 04.16"N

LONG: 97° 59' 05.94"W

LAT: 35.784488°N

LONG: 97.984985°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 285567.37

X (E): 1972953.62

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.

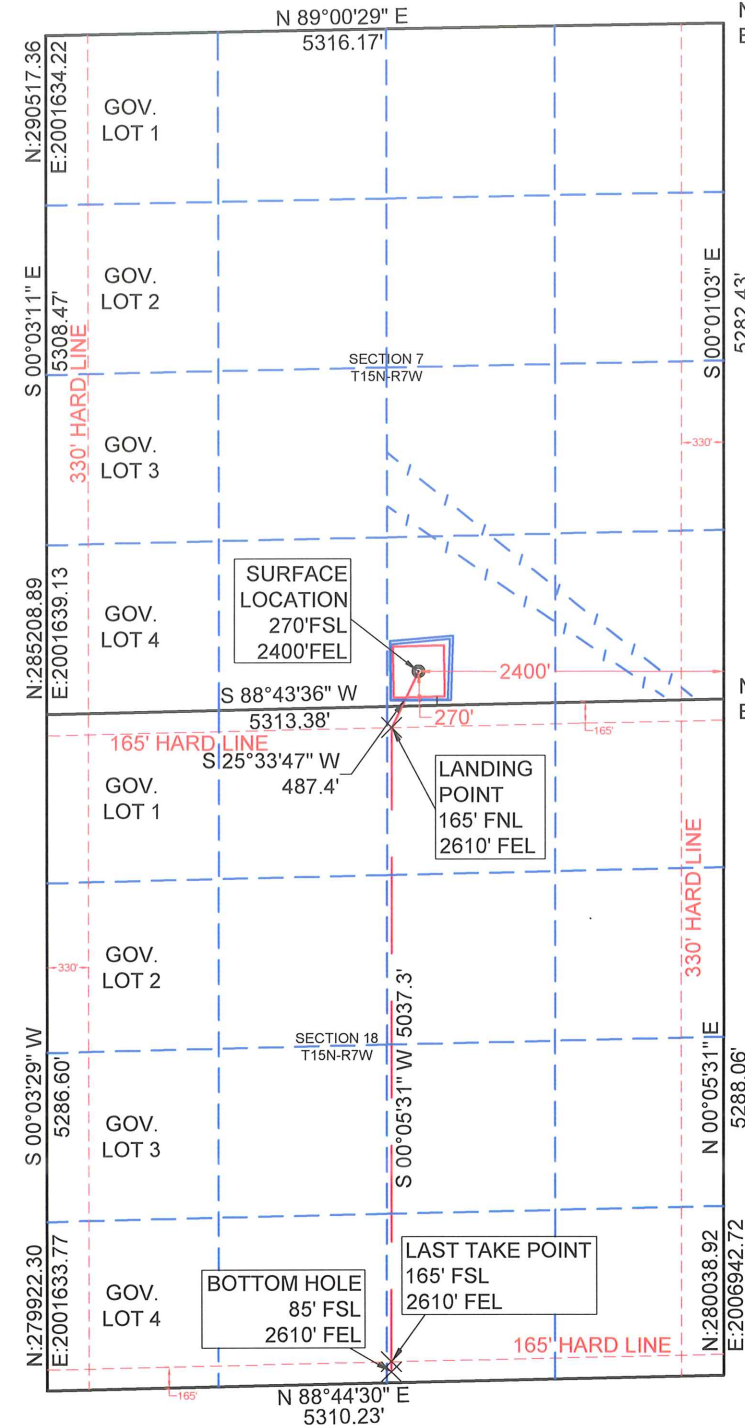
## CERTIFICATE:

I Aaron Morris a Registered Professional 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.



*Aaron L. Morris* 06/01/2018

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



N:290609.40  
E:2006949.60

N:285326.97  
E:2006951.20

N 00°05'31" E  
5288.06'

N:280038.92  
E:2006942.72

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:	SITE VISIT: (Explanation and Date)
18225	STAKING DATE: 05/24/2018
SHEET: 6 OF 10	DRAWING DATE: 05/31/2018

# COORDINATE REPORT

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: **BURGESS 1507 2H 18**

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

THE METRICAL DATA SHOWN  
HEREON IS FOR PERMITTING THE  
WELL LOCATION AND THE SECTION  
LOCATION MAY OR MAY NOT BE  
FIELD VERIFIED.

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)
18225	STAKING DATE: 05/24/2018
SHEET: 7 OF 10	DRAWING DATE: 05/31/2018

Descriptor	Northing (NAD83 US Survey Feet)	Eastng (NAD83 US Survey Feet)	Latitude DMS (NAD83)	Longitude DMS (NAD83)	Latitude DD (NAD83)	Longitude DD (NAD83)	Northing Meters (NAD83 UTM)	Eastng Meters (NAD83 UTM)	Latitude DMS (NAD27)	Longitude DMS (NAD27)	Latitude DD (NAD27)	Longitude DD (NAD27)	Northing Meters (NAD27 UTM)	Eastng Meters (NAD27 UTM)
BURGESS 1507 2H 18	285567.37	1972953.62	35° 47' 04.16"N	97° 59' 05.94"W	35.784488°N	97.984985°W	3960520.57	591730.701	285543.59	2004551.96	35° 47' 04.00"N	97° 59' 04.75"W	35.784443°N	97.984654°W
BURGESS 1507 2H 18 LANDING POINT	285127.71	1972743.24	35° 46' 59.81"N	97° 59' 08.50"W	35.783280°N	97.985694°W	3960385.95	591667.964	285103.94	2004341.57	35° 46' 59.65"N	97° 59' 07.31"W	35.783323°N	97.985363°W
BURGESS 1507 2H 18 LAST TAKE POINT	280170.43	1972735.28	35° 46' 10.78"N	97° 59' 08.60"W	35.769662°N	97.985723°W	3958875.422	591680.951	280146.66	2004333.55	35° 46' 10.62"N	97° 59' 07.41"W	35.769617°N	97.985393°W
BURGESS 1507 2H 18 BOTTOM HOLE	280090.41	1972735.15	35° 46' 09.99"N	97° 59' 08.61"W	35.769442°N	97.985724°W	3958851.039	591681.16	280066.64	2004333.42	35° 46' 09.83"N	97° 59' 07.42"W	35.769397°N	97.985393°W
BURGESS 1507 3H 18	285579.55	1973953.24	35° 47' 04.27"N	97° 58' 53.81"W	35.784521°N	97.981614°W	3960527.39	592035.252	285555.77	2005551.58	35° 47' 04.11"N	97° 58' 52.62"W	35.784476°N	97.981283°W
BURGESS 1507 3H 18 LANDING POINT	285177.27	1974972.69	35° 47' 00.29"N	97° 58' 41.44"W	35.783415°N	97.978178°W	3960407.983	592347.134	285153.48	2006571.03	35° 47' 00.13"N	97° 58' 40.25"W	35.783370°N	97.977847°W
BURGESS 1507 3H 18 LAST TAKE POINT	280219.4	1974964.74	35° 46' 11.26"N	97° 58' 41.55"W	35.769795°N	97.978208°W	3958897.273	592360.124	280195.62	2006563.01	35° 46' 11.10"N	97° 58' 40.36"W	35.769750°N	97.977878°W
BURGESS 1507 3H 18 BOTTOM HOLE	280139.38	1974964.61	35° 46' 10.47"N	97° 58' 41.55"W	35.769575°N	97.978209°W	3958872.89	592360.333	280115.6	2006562.88	35° 46' 10.31"N	97° 58' 40.36"W	35.769530°N	97.977878°W



## VICINITY MAP

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: BURGESS 1507 2H 18

Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma

Original Location: 270'FSL - 2400'FEL Elevation 1158' Good Location? YES

Topography: PASTURE

WGS 84 LATITUDE AND LONGITUDE:

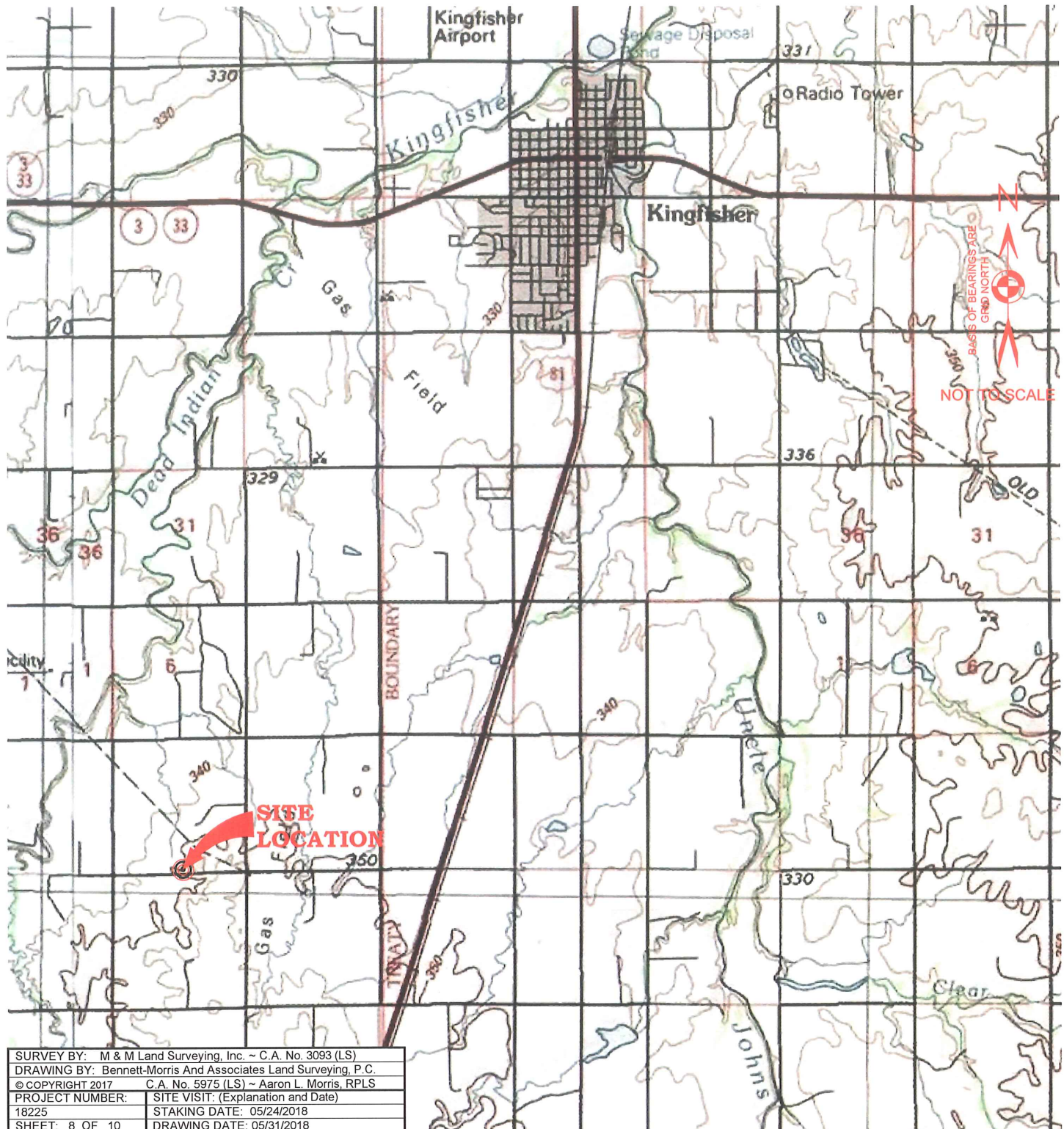
LAT: 35.784488°N

LONG: 97.984985°W

Best Accessibility to Location: From the South

Distance & Direction From Nearest Town: 6.0 miles Southwest of Kingfisher

From the town of Kingfisher and the intersection of State Highway No. 33 (West Broadway Avenue) and U.S. Highway No. 81 (South Main Street); Go South 5.5 miles on U.S. Highway No. 81 (South Main Street); Then go West 1.9 miles on County Road E0850 to location in SECTION 7-T15N-R7W, I.B.M., Kingfisher County, Oklahoma.

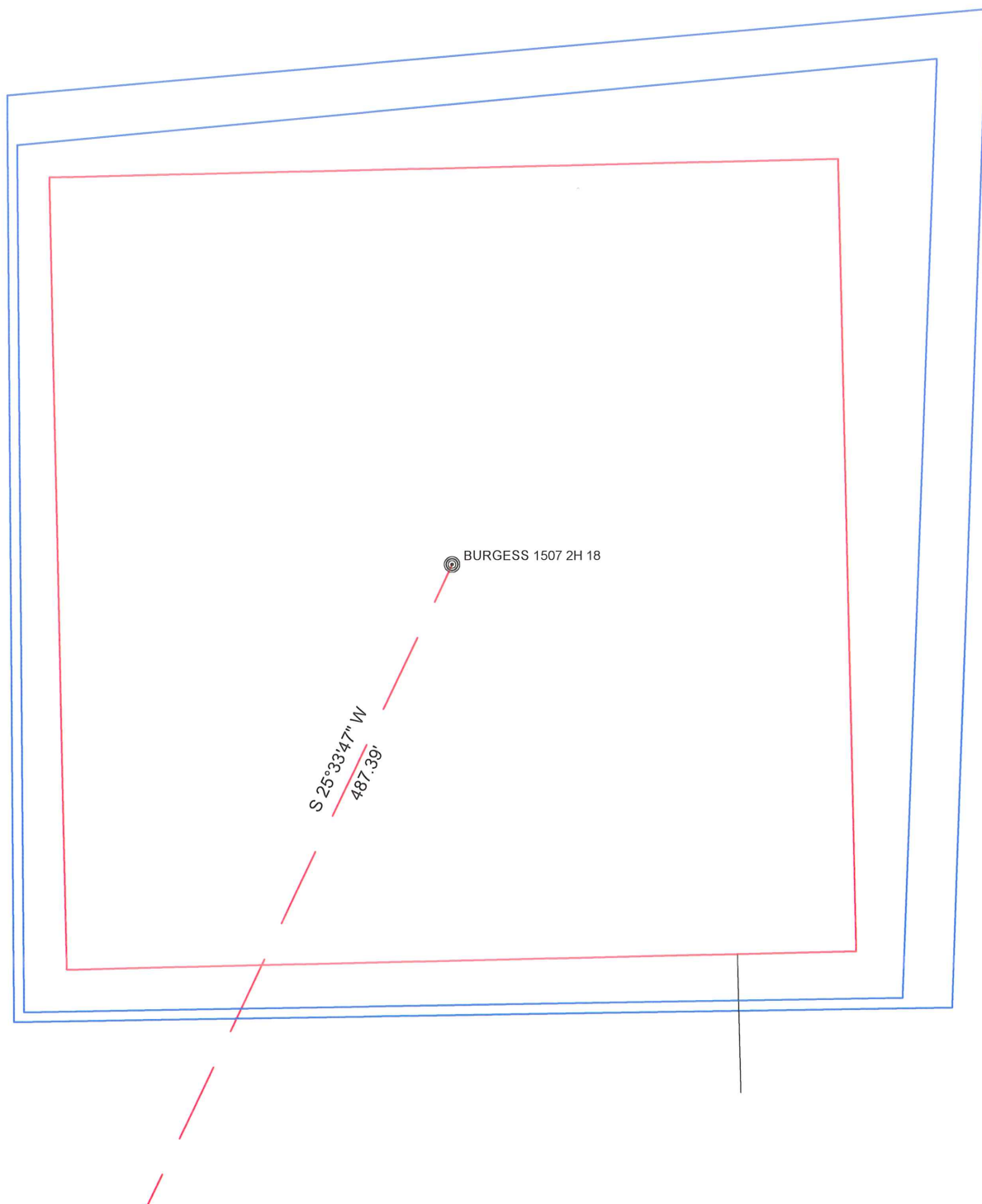




# WELL PAD INTERFERENCE PLAT

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: BURGESS 1507 2H 18  
Section 7 Township 15 N Range 7 W , I.B.M., County of Kingfisher, State of Oklahoma



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: 18225	SITE VISIT: (Explanation and Date)
STAKING DATE: 05/24/2018	
DRAWING DATE: 05/31/2018	



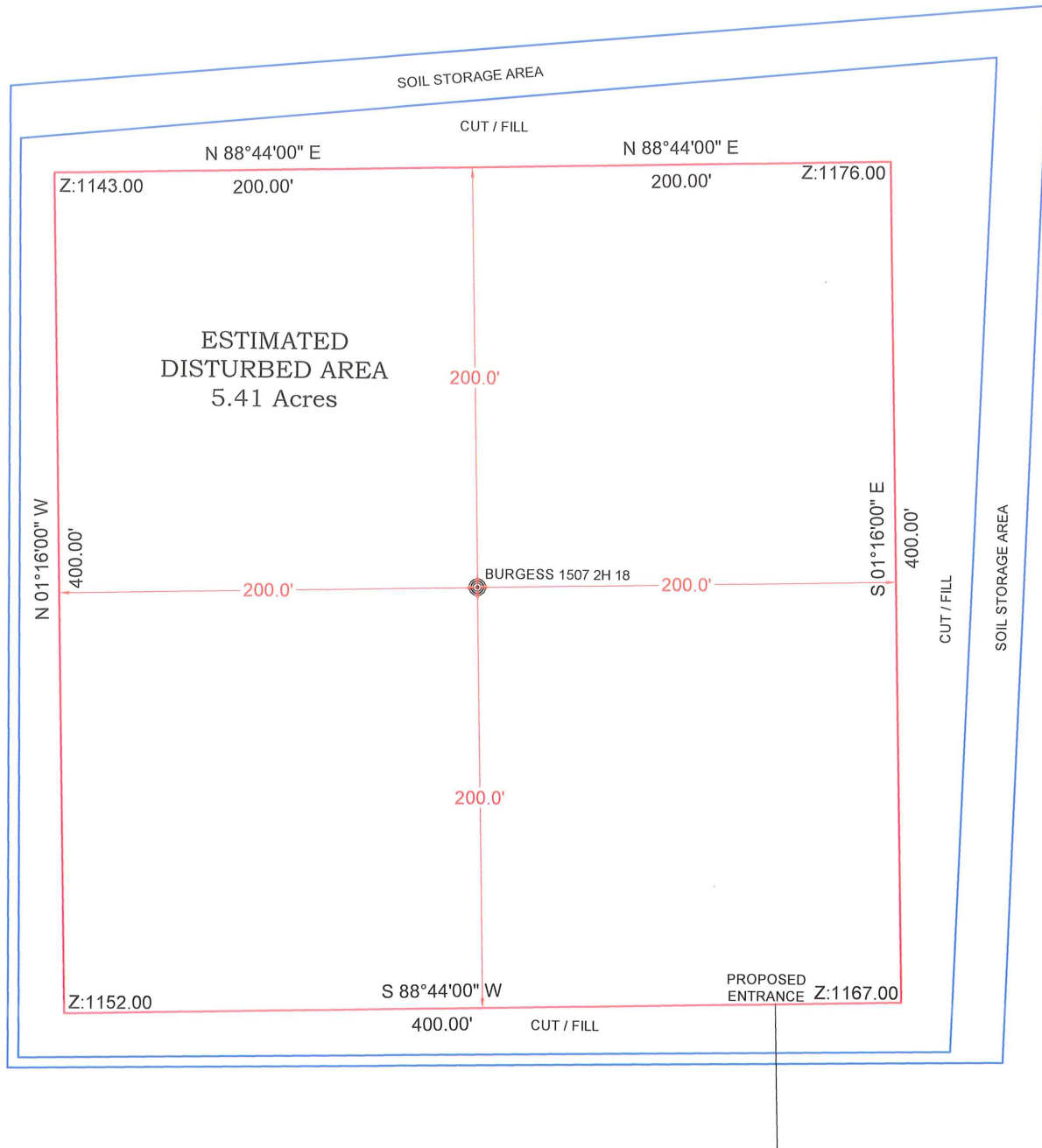
SCALE 1" = 80'

0 80 160

# WELL PAD DISTURBANCE BOUNDARY

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: **BURGESS 1507 2H 18**  
 Section 7 Township 15 N Range 7 W , I.B.M, County of Kingfisher, State of Oklahoma



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)
18225	STAKING DATE: 05/24/2018
SHEET: 10 OF 10	DRAWING DATE: 05/31/2018

TOPO POINTS AT PAD CORNERS  
 SHOWN HEREON ARE  
 INTERPOLATED FROM USGS  
 QUADRANGLE AND HAVE NOT  
 BEEN FIELD VERIFIED



SCALE 1" = 80'