

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

API NUMBER: 073 26315

Approval Date: 10/11/2018

Expiration Date: 04/11/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 16N Rge: 8W

County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 700 2400

Lease Name: SANTANA

Well No: 1708 3H-29X

Well will be 700 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 LANE
EDMOND OK 73034

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8432	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 644685
648447

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806072
201806073
201806088
201806076
201806077

Special Orders:

Total Depth: 19190

Ground Elevation: 1219

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 280

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

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498
H. 3112N08W KINGFISHER COUNTY R360

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 NE NW NE

Feet From: NORTH 1/4 Section Line: 85

Feet From: EAST 1/4 Section Line: 1711

Depth of Deviation: 8038

Radius of Turn: 536

Direction: 5

Total Length: 10309

Measured Total Depth: 19190

True Vertical Depth: 8695

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

Notes:

Category

Description

DEEP SURFACE CASING

9/11/2018 - 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

9/11/2018 - 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

9/11/2018 - 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

9/11/2018 - 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 26315 SANTANA 1708 3H-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	10/10/2018 - G58 - 29-17N-8W X644685/648447 MSNLC 7 WELLS NO OP NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806073	10/10/2018 - G58 - 32-17N-8W X644685 MSNLC 7 WELLS NO OP NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806076	10/10/2018 - 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 - 201806077	10/10/2018 - G58 - (I.O) 29 & 32-17N-8W X644685/648447 MSNLC COMPL. INT. 32-17N-8W NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. 29-17N-8W NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL NO OP. NAMED REC 8/21/2018 (JACKSON)
PENDING CD - 201806088	10/10/2018 - G58 - (I.O.) 29 & 32-17N-8W X165:10-3-28(C)(2)(B) MSNLC (SANTANA 1708 3H-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	10/10/2018 - G58 - (640)(HOR) 29 & 32-17N-8W EXT 637461 MSNLC POE TO BHL NCT 660' FB (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	10/10/2018 - 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.

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.

WELL LOCATION

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

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.

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

Lease Name: **SANTANA 1708 3H-29X**

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma
Elevation Good Location?

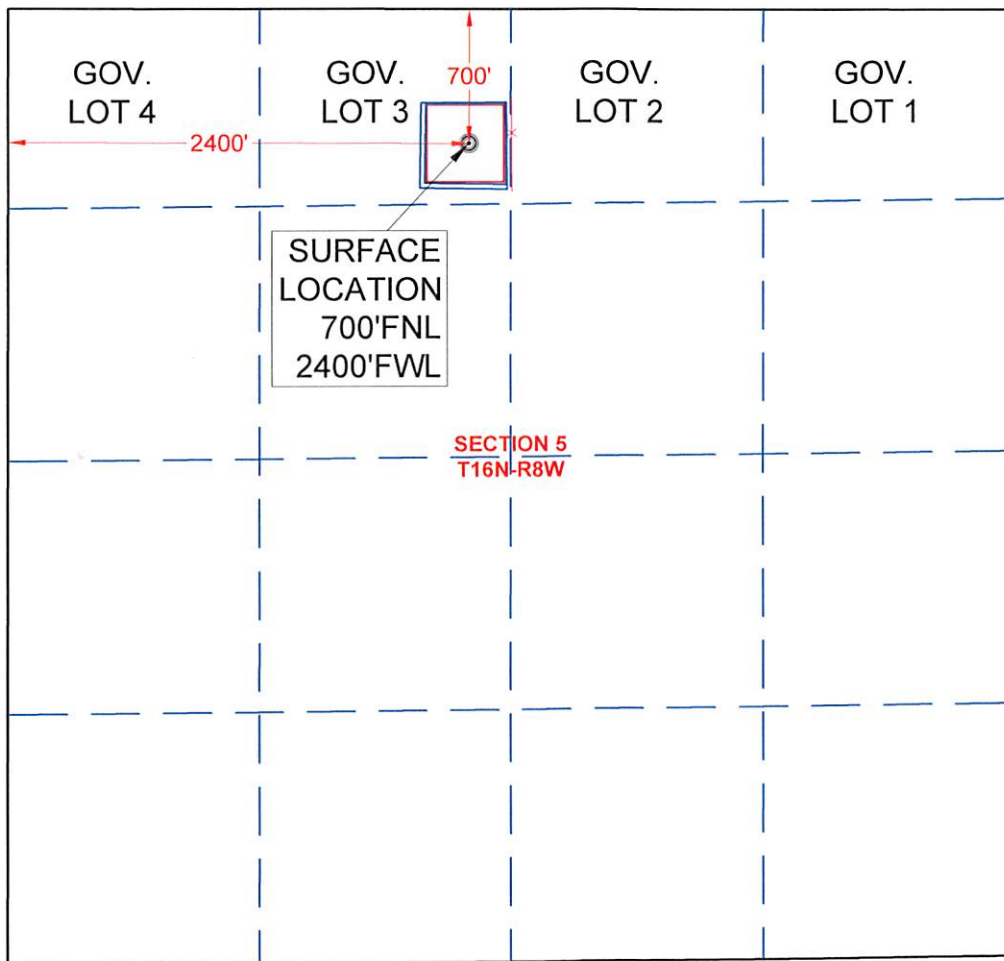
Original Location: 700'FNL - 2400'FWL 1219' GROUND YES

Topography: TALL GRASS AND SAND BURRS - 40' EAST OF SANTANA 1708 5H-29X
- 20' EAST OF SANTANA 1708 4H-29X

Best Accessibility to Location: From the North

Distance & Direction From Nearest Town: 8.4 miles Northwest of Kingfisher

From the town of Kingfisher and the intersection of U.S. Highway No. 81 (North Main Street) and State Highway No. 33 (West Broadway Avenue); Go West 7.7 miles on S.H. No. 33 (West Broadway Avenue); Then go North 2.9 miles on County Road N2770; Then go West 0.6 mile on County Road E0770 (Beebe Road) to location in SECTION 5-T16N-R8W, I.B.M., Kingfisher County, Oklahoma.



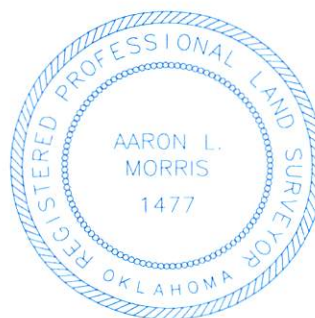
SCALE 1" = 1000'



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.

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)
18294	STAKING DATE: 07/17/2018
SHEET: 1 OF 10	DRAWING DATE: 07/26/2018



AA 08/13/2018

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

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: SANTANA 1708 3H-29X

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma
Elevation Good Location?

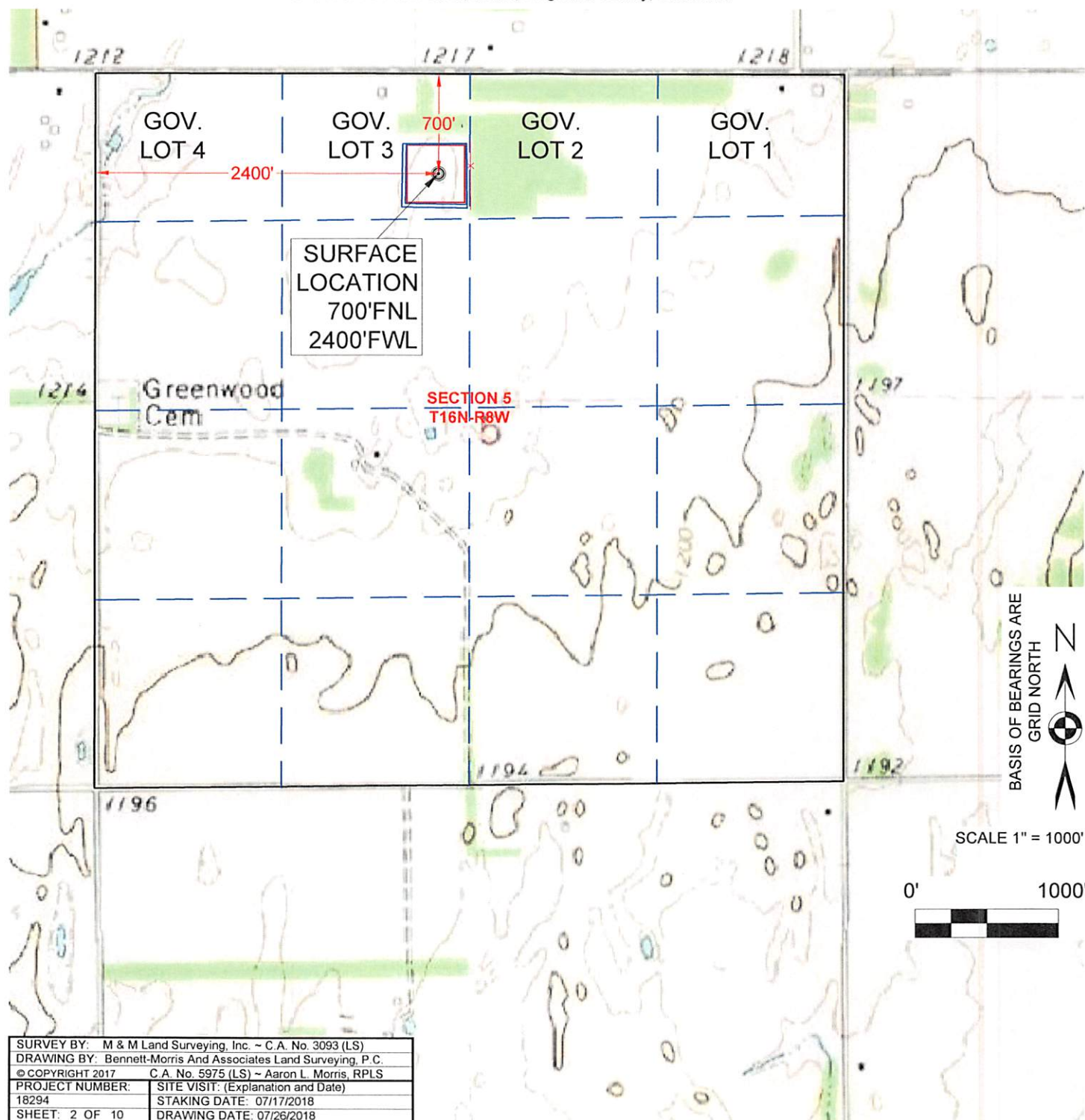
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FLOOD ELEVATION MAP

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: SANTANA 1708 3H-29X

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma

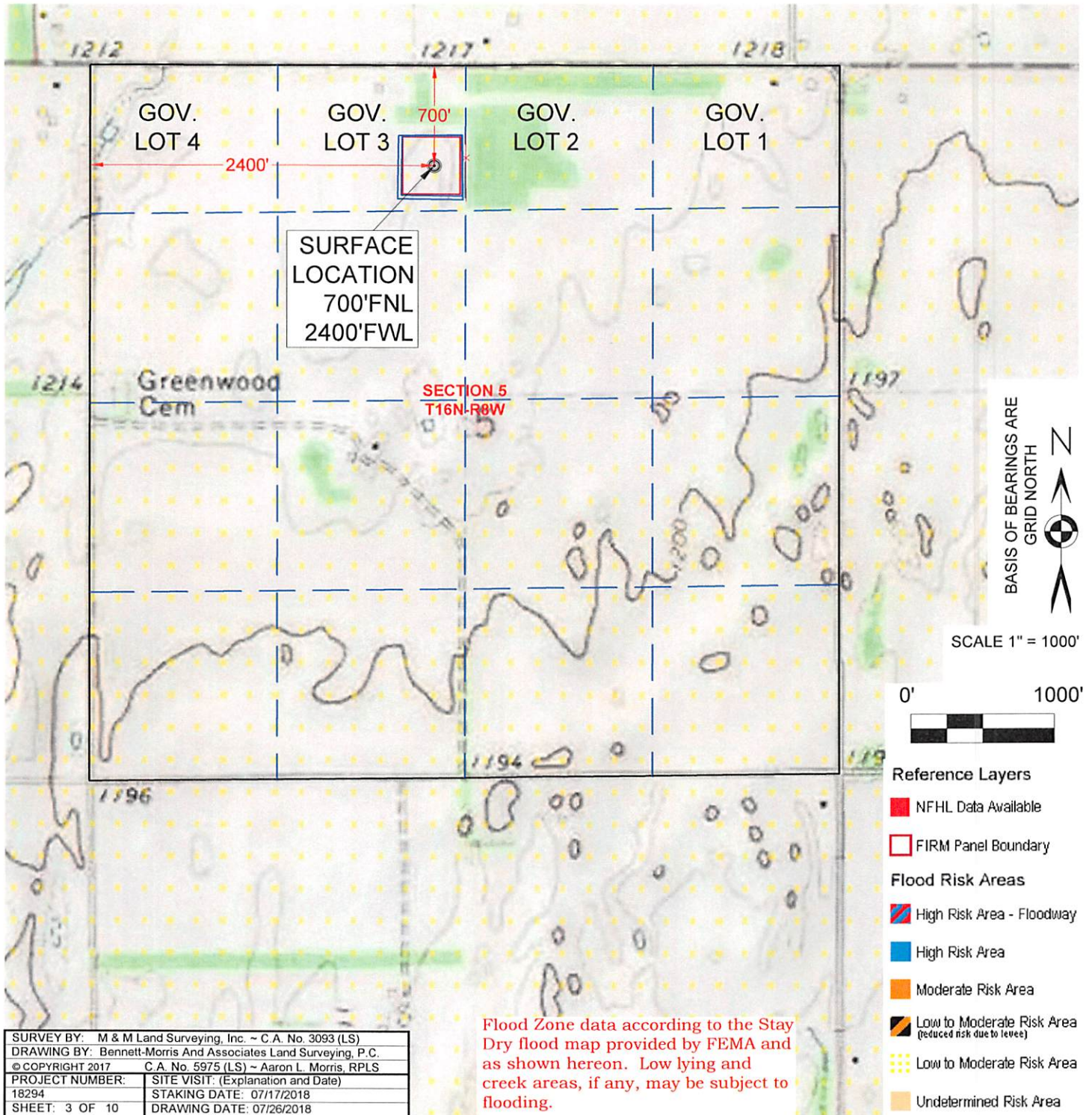
Original Location: 700'FNL - 2400'FWL Elevation 1219' Good Location? YES

Topography: TALL GRASS AND SAND BURRS - 40' EAST OF SANTANA 1708 5H-29X
- 20' EAST OF SANTANA 1708 4H-29X

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Distance & Direction From Nearest Town: 8.4 miles Northwest of Kingfisher

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Flood Zone data according to the Stay Dry flood map provided by FEMA and as shown hereon. Low lying and creek areas, if any, may be subject to flooding.

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: SANTANA 1708 3H-29X

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma

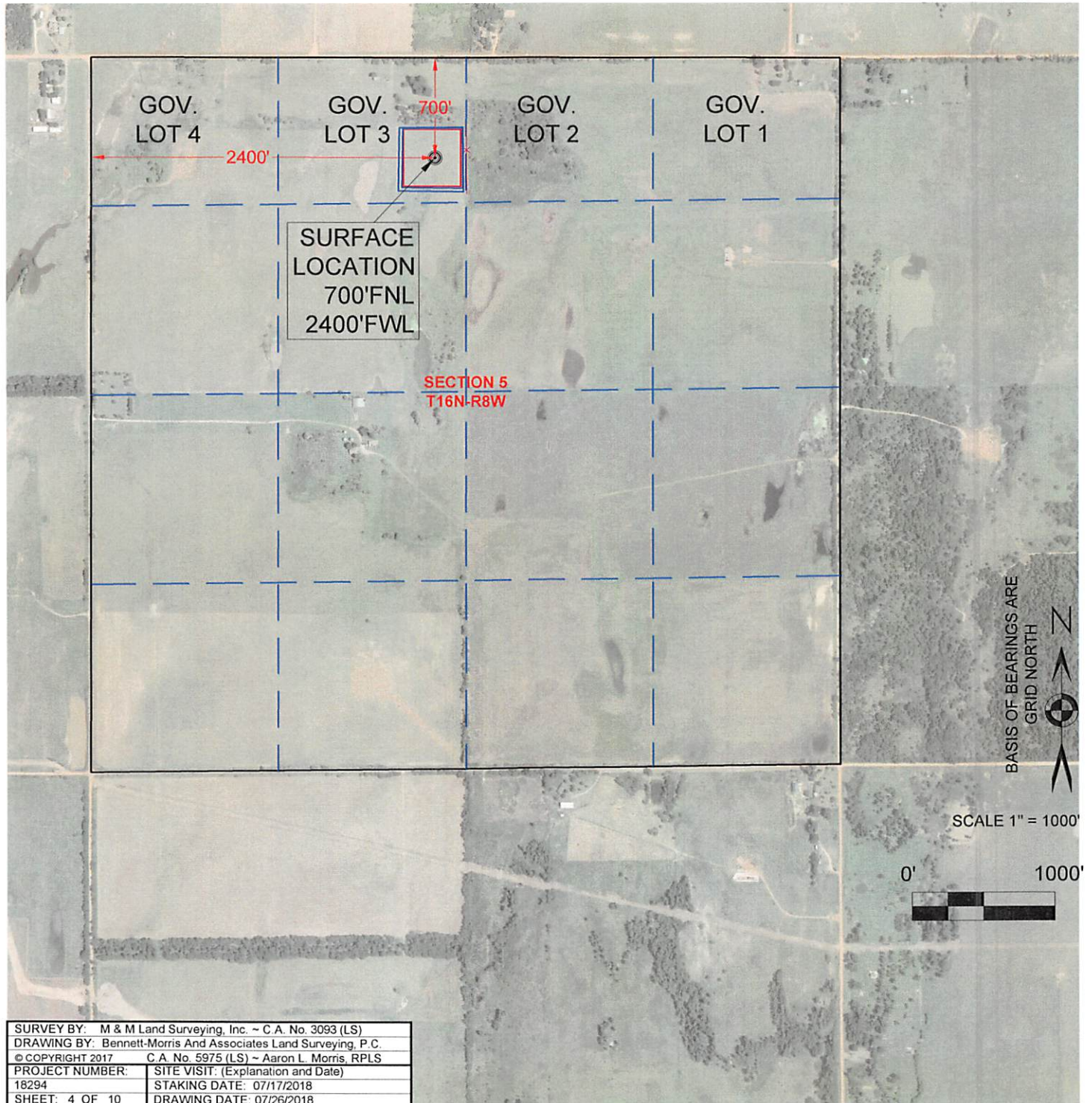
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LEASE ROAD PLAT

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: SANTANA 1708 3H-29X

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma

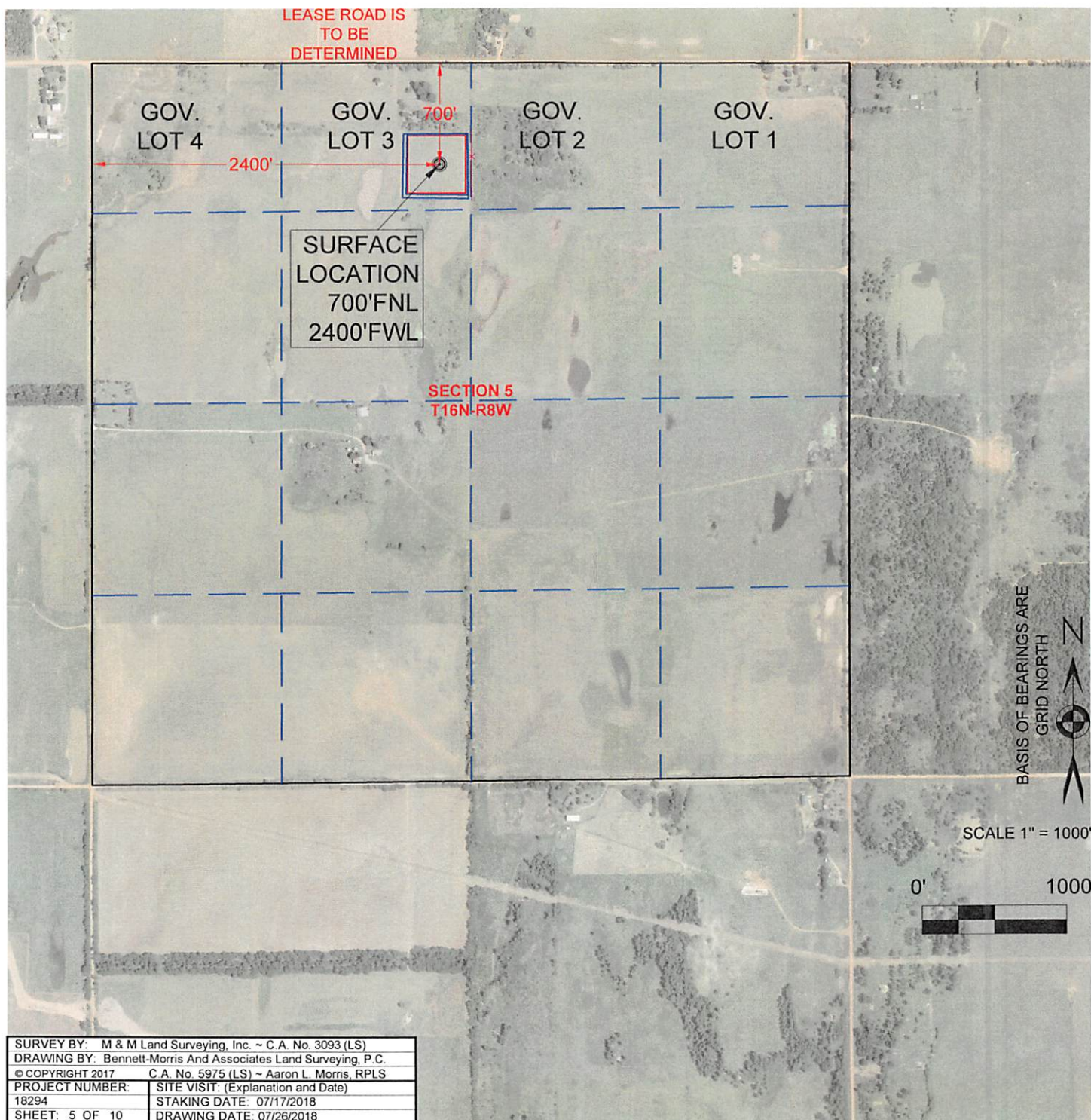
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PERMIT PLAT

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: **SANTANA 1708 3H-29X**
Section 5 Township 16 N Range 8 W ,I.B.M.,
County of Kingfisher, State of Oklahoma
Good Location? **YES**
Original Location: 700'FNL - 2400'FWL Elevation 1219' GROUND
Distance & Direction From Nearest Town: 8.4 miles Northwest of Kingfisher

SURFACE LOCATION

DATUM: NAD27
LAT: 35° 53' 47.54"N
LONG: 98° 04' 32.48"W
LAT: 35.896538°N
LONG: 98.075689°W
STATE PLANE
COORDINATES: (US
SURVEY FEET)
ZONE: NORTH ZONE
Y (N): 326355.15
X (E): 1977581.62

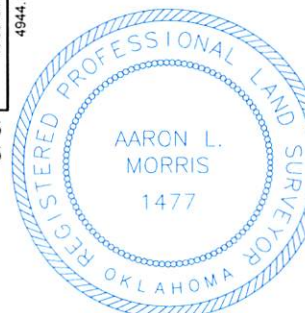
DATUM: NAD83
LAT: 35° 53' 47.69"N
LONG: 98° 04' 33.69"W
LAT: 35.896580°N
LONG: 98.076026°W
STATE PLANE
COORDINATES: (US
SURVEY FEET)
ZONE: NORTH ZONE
Y (N): 326378.87
X (E): 1945982.31

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.

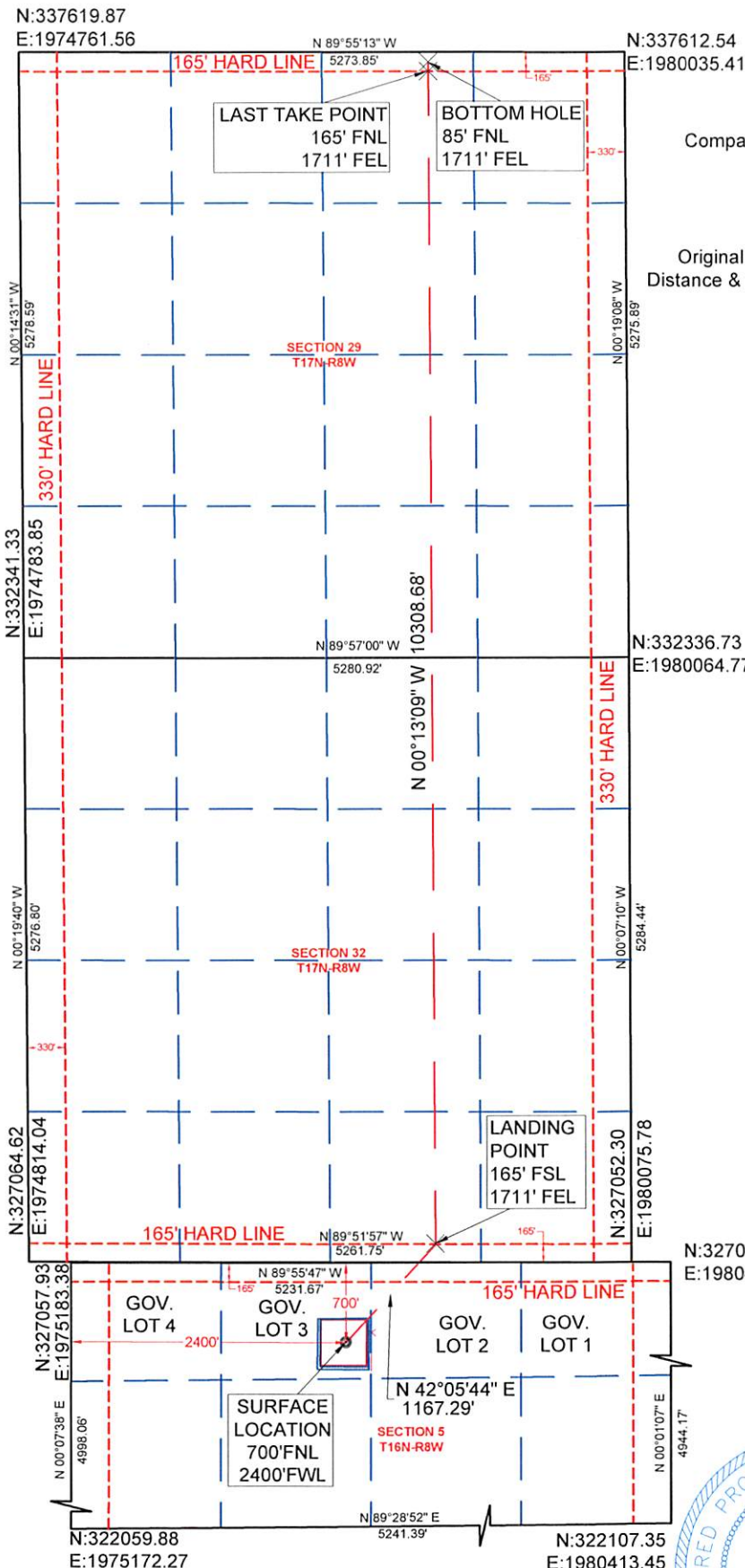
CERTIFICATE:

I Aaron Morris a Registered 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.



A.L.M. 08/13/2018

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)
18294	STAKING DATE: 07/17/2018
SHEET: 6 OF 10	DRAWING DATE: 07/26/2018

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: SANTANA 1708 3H-29X

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.	
© COPYRIGHT 2017 C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS	
PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
18294	STAKING DATE: 07/17/2018
SHEET: 7 OF 10	DRAWING DATE: 07/26/2018

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)
SANTANA 1708 3H-29X	326378.87	1945982.31	35° 53' 47.69"N	98° 04' 33.69"W	35.896580°N	98.076026°W	3972871.954	583385.332	326355.15	1977581.62	35° 53' 47.54"N	98° 04' 32.48"W	3972667.484	583417.775
SANTANA 1708 3H-29X LANDING POINT	327245.04	1946764.82	35° 53' 56.26"N	98° 04' 24.19"W	35.898961°N	98.073386°W	3973138.319	583621.062	327221.32	1978364.12	35° 53' 56.11"N	98° 04' 22.98"W	3972933.849	583653.505
SANTANA 1708 3H-29X LAST TAKE POINT	337473.64	1946725.72	35° 55' 37.42"N	98° 04' 24.76"W	35.927060°N	98.073544°W	3976254.878	583577.225	337449.92	1978325.17	35° 55' 37.27"N	98° 04' 23.54"W	3976050.409	583609.711
SANTANA 1708 3H-29X BOTTOM HOLE	337553.65	1946725.41	35° 55' 38.21"N	98° 04' 24.76"W	35.927280°N	98.073545°W	3976279.256	583576.881	337529.93	1978324.86	35° 55' 38.06"N	98° 04' 23.55"W	3976074.788	583609.368
SANTANA 1708 4H-29X	326378.75	1945962.24	35° 53' 47.69"N	98° 04' 33.94"W	35.896579°N	98.076094°W	3972871.855	583379.217	326355.03	19777561.58	35° 53' 47.54"N	98° 04' 32.72"W	3972667.385	583411.66
SANTANA 1708 4H-29X LANDING POINT	327246.53	1946129.83	35° 53' 56.27"N	98° 04' 31.91"W	35.898963°N	98.075530°W	3973136.792	583427.575	327222.81	1977729.15	35° 53' 56.12"N	98° 04' 30.69"W	3972932.322	583460.021
SANTANA 1708 4H-29X LAST TAKE POINT	337474.53	1946090.72	35° 55' 37.42"N	98° 04' 32.48"W	35.927061°N	98.075689°W	3976253.167	583383.736	337450.82	1977690.18	35° 55' 37.27"N	98° 04' 31.26"W	3976048.699	583416.226
SANTANA 1708 4H-29X BOTTOM HOLE	337554.53	1946090.41	35° 55' 38.21"N	98° 04' 32.48"W	35.927281°N	98.075690°W	3976277.542	583383.392	337530.82	1977689.87	35° 55' 38.06"N	98° 04' 31.27"W	3976073.074	583415.882
SANTANA 1708 5H-29X	326378.81	1945942.27	35° 53' 47.69"N	98° 04' 34.18"W	35.896579°N	98.076161°W	3972871.811	583373.132	326355.09	1977541.58	35° 53' 47.54"N	98° 04' 32.97"W	3972667.341	583405.575
SANTANA 1708 5H-29X LANDING POINT	327248	1945499.88	35° 53' 56.28"N	98° 04' 39.57"W	35.898966°N	98.077657°W	3973135.274	583235.623	327224.28	1977099.21	35° 55' 53.56"N	98° 04' 38.35"W	3972930.805	583268.073
SANTANA 1708 5H-29X LAST TAKE POINT	337475.42	1945449.05	35° 55' 37.42"N	98° 04' 40.28"W	35.927062°N	98.077856°W	3976251.435	583188.214	337451.71	1977048.52	35° 55' 37.28"N	98° 04' 39.07"W	3976046.967	583220.708
SANTANA 1708 5H-29X BOTTOM HOLE	337555.42	1945448.66	35° 55' 38.21"N	98° 04' 40.29"W	35.927282°N	98.077858°W	3976275.81	583187.846	337531.71	1977048.13	35° 55' 38.07"N	98° 04' 39.07"W	3976071.342	583220.34

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: SANTANA 1708 3H-29X

Section 5 Township 16 N Range 8 W , I.B.M., County of Kingfisher, State of Oklahoma

Elevation 1219' Ground YES

Original Location: 700'FNL - 2400'FWL

Topography: TALL GRASS AND SAND BURRS - 40' EAST OF SANTANA 1708 5H-29X
- 20' EAST OF SANTANA 1708 4H-29X

WGS 84 LATITUDE AND LONGITUDE:

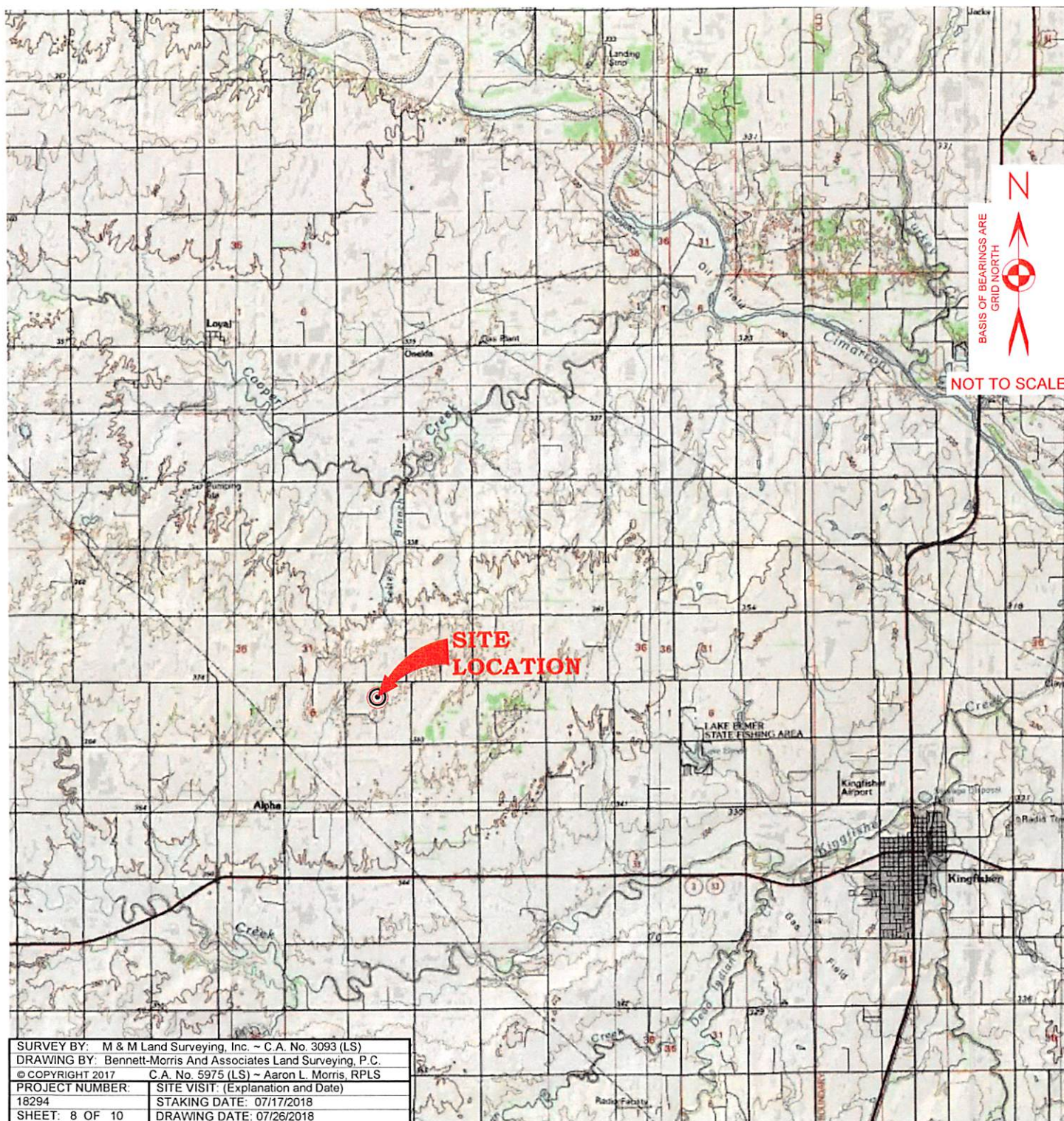
LAT: 35.896580°N

LONG: 98.076026°W

Best Accessibility to Location: From the North

Distance & Direction From Nearest Town: 8.4 miles Northwest of Kingfisher

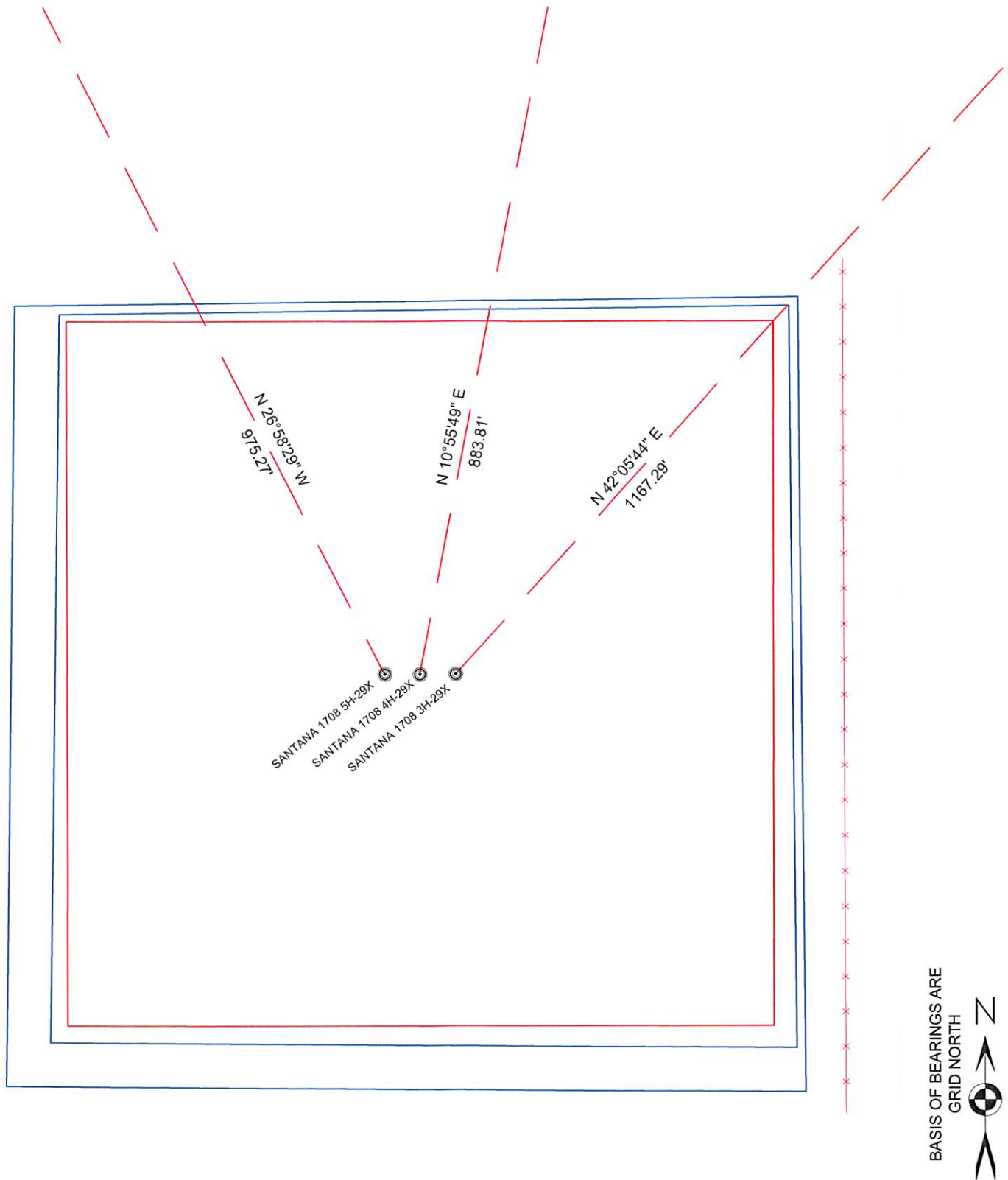
From the town of Kingfisher and the intersection of U.S. Highway No. 81 (North Main Street) and State Highway No. 33 (West Broadway Avenue); Go West 7.7 miles on S.H. No. 33 (West Broadway Avenue); Then go North 2.9 miles on County Road N2770; Then go West 0.6 mile on County Road E0770 (Beebe Road) to location in SECTION 5-T16N-R8W, I.B.M., Kingfisher County, Oklahoma.



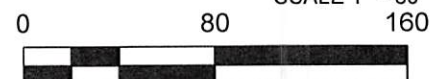
WELL PAD INTERFERENCE PLAT

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: SANTANA 1708 3H-29X
Section 5 Township 16 N Range 8 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: 18294	SITE VISIT: (Explanation and Date)
STAKING DATE: 07/17/2018	
SHEET: 9 OF 10	DRAWING DATE: 07/26/2018



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.
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