

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

API NUMBER: 009 21951

Approval Date: 09/03/2014
Expiration Date: 03/03/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 10N Rge: 25W County: BECKHAM
SPOT LOCATION: NE NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 180 575

Lease Name: HEINSOHN 33-11-25 Well No: 16H Well will be 180 feet from nearest unit or lease boundary.

Operator Name: LINN OPERATING INC Telephone: 4052412200; 4052412 OTC/OCC Number: 22182 0

LINN OPERATING INC
14000 QUAIL SPRINGS PKWY STE 5000
OKLAHOMA CITY, OK 73134-2619

DARRELL D HEINSOHN AND KATHY HEINSOHN
17563 E. 1130 RAOD
SAYRE OK 73662

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

Name	Depth	Name	Depth
1 GRANITE WASH LOW	12400	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 67733

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201405661
201406262

Special Orders:

Total Depth: 17700

Ground Elevation: 2045

Surface Casing: 410

Depth to base of Treatable Water-Bearing FM: 290

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 30000 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: 1B

Liner required for Category: 1B

Pit Location is OTHER HSA

Pit Location Formation: DOXEY

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-27911

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: ON SITE
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: 3

Liner required for Category: 3

Pit Location is OTHER HSA
Pit Location Formation: DOXEY

HORIZONTAL HOLE 1

Sec 33 Twp 11N Rge 25W County BECKHAM
Spot Location of End Point: NE NW NW NE
Feet From: NORTH 1/4 Section Line: 230
Feet From: EAST 1/4 Section Line: 2000
Depth of Deviation: 12200
Radius of Turn: 575
Direction: 24
Total Length: 5300
Measured Total Depth: 17700
True Vertical Depth: 12600
End Point Location from Lease,
Unit, or Property Line: 230

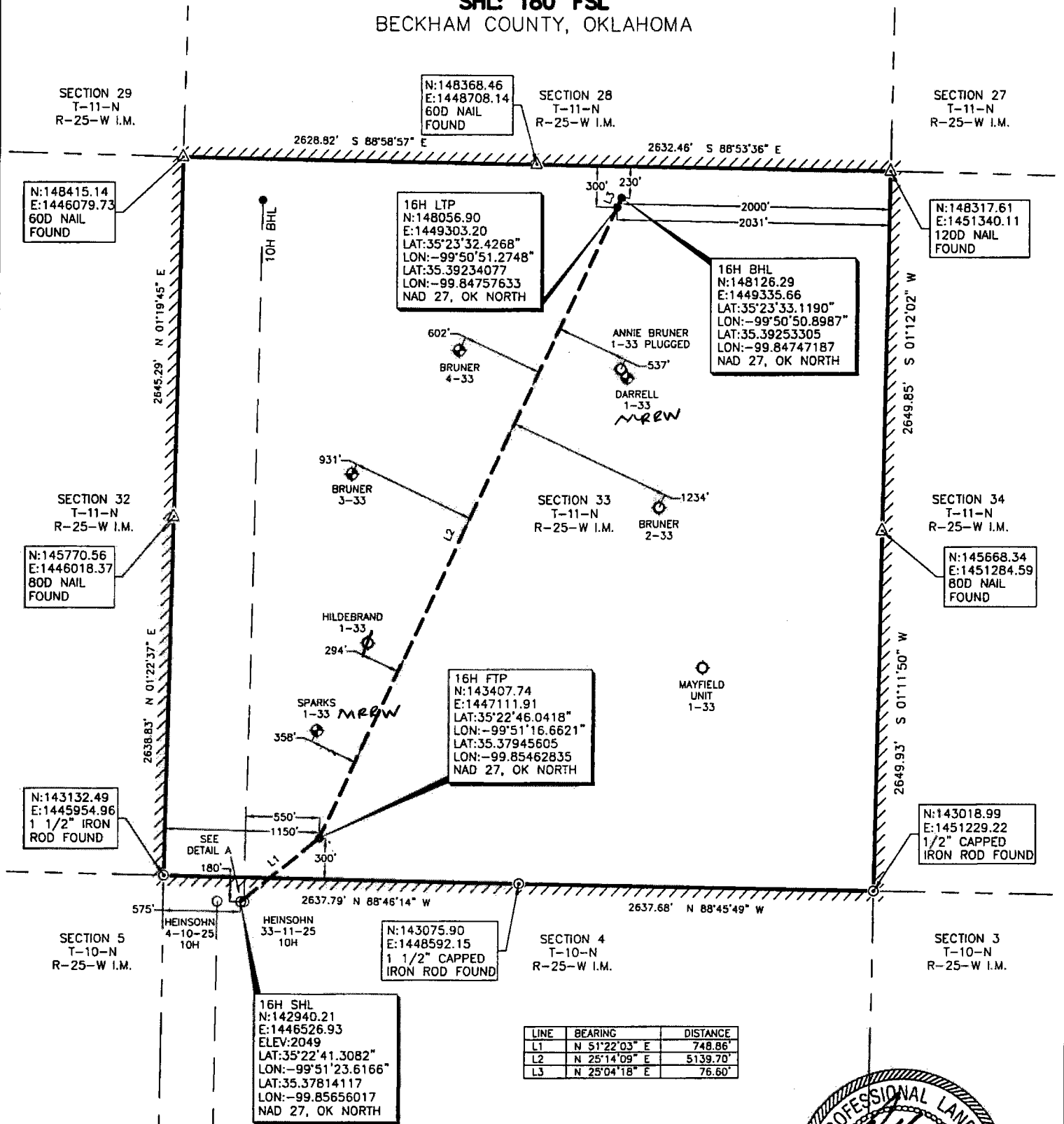
Notes:

Table with 2 columns: Category, Description. Contains notes for MEMO, PENDING CD - 201405661, PENDING CD - 201406262, and SPACING - 67733.

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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.

FILE 00121951

PLAT OF
 LINN OPERATING, INC
HEINSOHN 33-11-25 16H
 CARR GW (MARMATON B)
 OFFSITE IN SECTION 4
SHL: 180' FNL & 575' FWL
 SECTION 4, TOWNSHIP 10 NORTH, RANGE 25 WEST
 INDIAN MERIDIAN
LEASE LINES
SHL: 180' FSL
 BECKHAM COUNTY, OKLAHOMA



N:148368.46
 E:1448708.14
 60D NAIL
 FOUND

N:148415.14
 E:1446079.73
 60D NAIL
 FOUND

SECTION 27
 T-11-N
 R-25-W I.M.

16H LTP
 N:148056.90
 E:1449303.20
 LAT:35°23'32.4268"
 LON:-99°50'51.2748"
 LAT:35.39234077
 LON:-99.84757633
 NAD 27, OK NORTH

16H BHL
 N:148126.29
 E:1449335.66
 LAT:35°23'33.1190"
 LON:-99°50'50.8987"
 LAT:35.39253305
 LON:-99.84747187
 NAD 27, OK NORTH

N:148317.61
 E:1451340.11
 120D NAIL
 FOUND

SECTION 32
 T-11-N
 R-25-W I.M.

16H FTP
 N:143407.74
 E:1447111.91
 LAT:35°22'46.0418"
 LON:-99°51'16.6621"
 LAT:35.37945605
 LON:-99.85462635
 NAD 27, OK NORTH

N:145668.34
 E:1451284.59
 80D NAIL
 FOUND

N:143132.49
 E:1445954.96
 1 1/2" IRON
 ROD FOUND

N:143018.99
 E:1451229.22
 1/2" CAPPED
 IRON ROD FOUND

LINE	BEARING	DISTANCE
L1	N 51°22'03" E	748.86'
L2	N 25°14'09" E	5139.70'
L3	N 25°04'18" E	76.60'

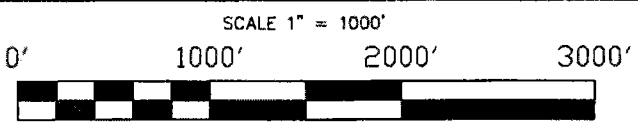
16H SHL
 N:142940.21
 E:1446526.93
 ELEV:2049
 LAT:35°22'41.3082"
 LON:-99°51'23.6166"
 LAT:35.37814117
 LON:-99.85656017
 NAD 27, OK NORTH

- NOTE:
1. COMBINED SCALE FACTOR: 0.999941
 2. SHL IS APPROXIMATELY 2.92 MILES N 23°21'50" E OF MAYFIELD, OKLAHOMA.



FILE: S:\OK\BECKHAM\PROJECTS\111N, R25W\SEC 33 HEINSOHN\DRAWING\14-01129 HEINSOHN 33-11-25 16H FINAL 08-08-2014.dwg

ORIGINAL STAKE DATE: 07-21-2014
 PLAT UPDATE: 08-11-2014



REV: 1 JOB NO.: 14-01129 FIELD BOOK: 294/31 DRAWN BY: KEF

LEGEND	
●	POINT
○	EXISTING WELLHEAD
○	PROPOSED WELL LOCATION SET
○	SURFACE LOCATION OBTAINED FROM OCC
○	OKLAHOMA CORPORATION COMMISSION
---	AS-DRIILLED LATERAL
---	SUBJECT PROPOSED LATERAL
---	PROPOSED LATERAL
---	LEASE LINE
---	SURVEY LINE

- NOTE:
1. BEARINGS, DISTANCES & ACREAGE ARE GRID, HAD 27 US OK NORTH ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.
 2. ELEVATIONS ARE BASED ON NAVD 88.
 3. THIS SURVEY IS FOR AN OIL & GAS SUB-SURFACE LEASE AND IS NOT A BOUNDARY SURVEY.
 4. LOCATION OF ADJOINING WELLS OUTSIDE LEASE BOUNDARY ARE APPROXIMATED FROM OKLAHOMA CORPORATION COMMISSION DATA.
 5. DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.
 6. THIS SURVEY COMPLES WITH THE US PUBLIC LAND SURVEY SYSTEM AND MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, EFFECTIVE JULY 23, 2013.



CA#5856 EXPIRATION 6-30-2016
 7608 NW 39TH ST. 100 S MONROE AVE. #2
 BETHANY, OK 73008 ELK CITY, OK 73644
 (405) 388-4009 (325) 218-2976

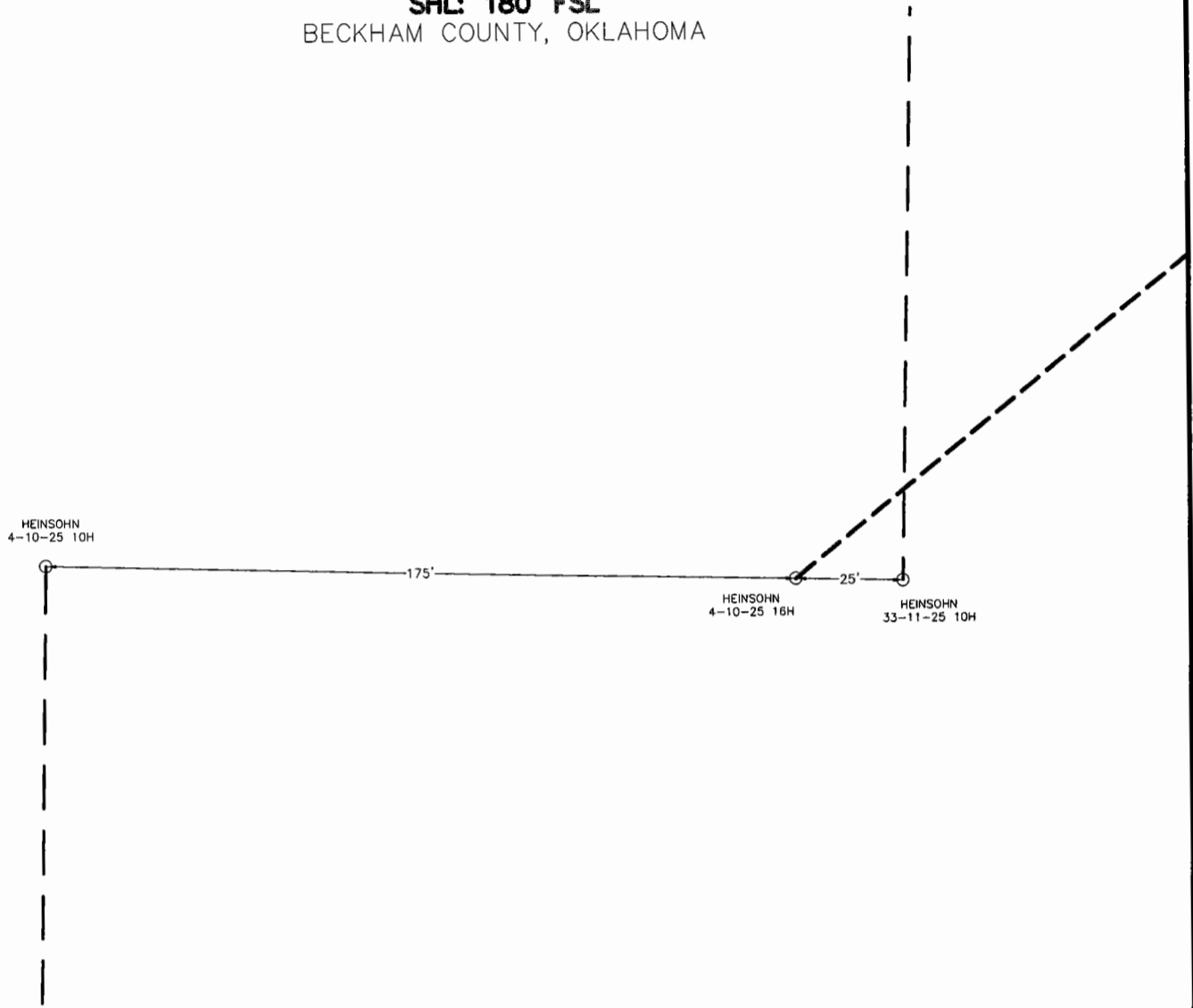
I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

EDWARD H. MEYERS
 PROFESSIONAL LAND SURVEYOR

08-11-2014 SHEET 1 OF 2



DETAIL A
 LINN OPERATING, INC
HEINSOHN 33-11-25 16H
 CARR GW (MARMATON B)
 OFFSITE IN SECTION 4
SHL: 180' FNL & 575' FWL
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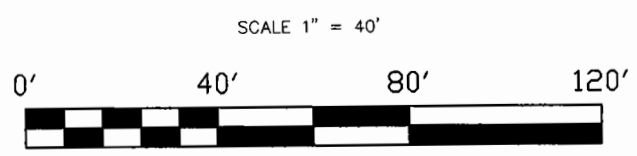
EXISTING AND PROPOSED WELLHEAD LOCATIONS

STATE PLANE, NAD 27	US OK NORTH ZONE		
DESCRIPTION	NORTHING	EASTING	ELEVATION
ANNIE BRUNER 1-33 PLUGGED	146866.40	1449335.38	0
BRUNER 2-33	145840.61	1449622.97	0
BRUNER 3-33	146084.90	1447345.01	2021
BRUNER 4-33	147002.56	1448141.05	2022
DARRELL 1-33	146799.80	1449384.15	2054
HEINSOHN 33-11-25 10H	142939.62	1446551.99	2048
HEINSOHN 33-11-25 16H	142940.21	1446526.93	2049
HEINSOHN 4-10-25 10H	142943.97	1446351.92	2049
HILDEBRAND 1-33	144850.46	1447466.68	0
MAYFIELD UNIT 1-33	144667.03	1449947.34	0
SPARKS 1-33	144202.44	1447091.17	2023

GEOGRAPHIC, NAD 27	DEGREES MINUTES SECONDS		
DESCRIPTION	NORTH LATITUDE	WEST LONGITUDE	ELEVATION
ANNIE BRUNER 1-33 PLUGGED	35 23 20.6609	99 50 50.6126	0
BRUNER 2-33	35 23 10.5718	99 50 46.9045	0
BRUNER 3-33	35 23 12.5581	99 51 14.4651	2021
BRUNER 4-33	35 23 21.7823	99 51 05.0649	2022
DARRELL 1-33	35 23 20.0116	99 50 50.0085	2054
HEINSOHN 33-11-25 10H	35 22 41.3072	99 51 23.3140	2048
HEINSOHN 33-11-25 16H	35 22 41.3082	99 51 23.6166	2049
HEINSOHN 4-10-25 10H	35 22 41.3123	99 51 25.7304	2049
HILDEBRAND 1-33	35 23 00.3747	99 51 12.7115	0
MAYFIELD UNIT 1-33	35 22 59.0282	99 50 42.7188	0
SPARKS 1-33	35 22 53.8961	99 51 17.0958	2023

LEGEND	
SHL SURFACE HOLE LOCATION	● POINT
PP PENETRATION POINT	⊙ EXISTING WELLHEAD
FTP FIRST TAKE POINT	○ PROPOSED WELL LOCATION SET
LTP LAST TAKE POINT	○ SURFACE LOCATION OBTAINED FROM RRC
BHL BOTTOM HOLE LOCATION	
OCC OKLAHOMA CORPORATION COMMISSION	

AS-DRILLED LATERAL
SUBJECT PROPOSED LATERAL
PROPOSED LATERAL
LEASE LINE
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