| API NUMBER: | 009 21985 |

| Approval Date: | 02/03/2017 |
| Expiration Date: | 08/03/2017 |

Horizontal Hole   Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34   Twp: 11N   Rge: 23W   County: BECKHAM

SPOT LOCATION: | SW | SE | SE | SE | FEET FROM QUARTER: FROM **SOUTH**   FROM **EAST**

SECTION LINES: **250**   **650**

Lease Name: DUNLAP   Well No: 1-34H   Well will be 250 feet from nearest unit or lease boundary.

Operator Name: **JMA ENERGY COMPANY LLC**   Telephone: 4059474322   OTC/OCC Number: 20475 0

JMA ENERGY COMPANY LLC
1021 NW GRAND BLVD
OKLAHOMA CITY,   OK   73118-6039

RONALD DUNLAP
18466 HWY 152
SAYRE   OK   73662

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

	Name	Depth		Name	Depth
1	DES MOINES UP	12280	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 509228   Location Exception Orders: 659461   Increased Density Orders: 659791

Pending CD Numbers: Special Orders:

Total Depth: 17970   Ground Elevation: 1978   **Surface Casing: 510**   Depth to base of Treatable Water-Bearing FM: 460

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   D. One time land application -- (REQUIRES PERMIT)   PERMIT NO: 17-32127

Chlorides Max: 8000 Average: 5000   H. SEE MEMO

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   OTHER HSA

Pit Location Formation: DOXEY

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   OTHER HSA

Pit Location Formation: DOXEY

 HORIZONTAL HOLE 1

Sec   34   Twp   11N   Rge   23W   County   BECKHAM

Spot Location of End Point: C   N2   N2   NE

Feet From: NORTH   1/4 Section Line: 330

Feet From: EAST   1/4 Section Line: 1320

Depth of Deviation: 12500

Radius of Turn: 573

Direction: 357

Total Length: 4177

Measured Total Depth: 17577

True Vertical Depth: 13070

End Point Location from Lease,
     Unit, or Property Line: 330

 Notes:

Category	Description
COMPLETION INTERVAL	2/3/2017 - G64 - WILL BE GREATER THAN 330' FSL, 330' FNL, 660' FEL PER OPERATOR
HYDRAULIC FRACTURING	2/3/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
INCREASED DENSITY - 659791	2/3/2017 - G64 - 34-11N-23W X509228 DSMNU, OTHER 1 WELL JMA ENERGY COMPANY, L.L.C. 1-11-2017
LOCATION EXCEPTION - 659461	2/3/2017 - G64 - (I.O.) 34-11N-23W XOTHER X509228 DSMNU, OTHER COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 660' FEL JMA ENERGY COMPANY, L.L.C. 12-30-2016
MEMO	2/3/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category	Description
SPACING - 509228	2/3/2017 - G64 - (640) 34-11N-23W VAC 230630 DSMN EXT OTHER EST DSMNU, OTHER

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
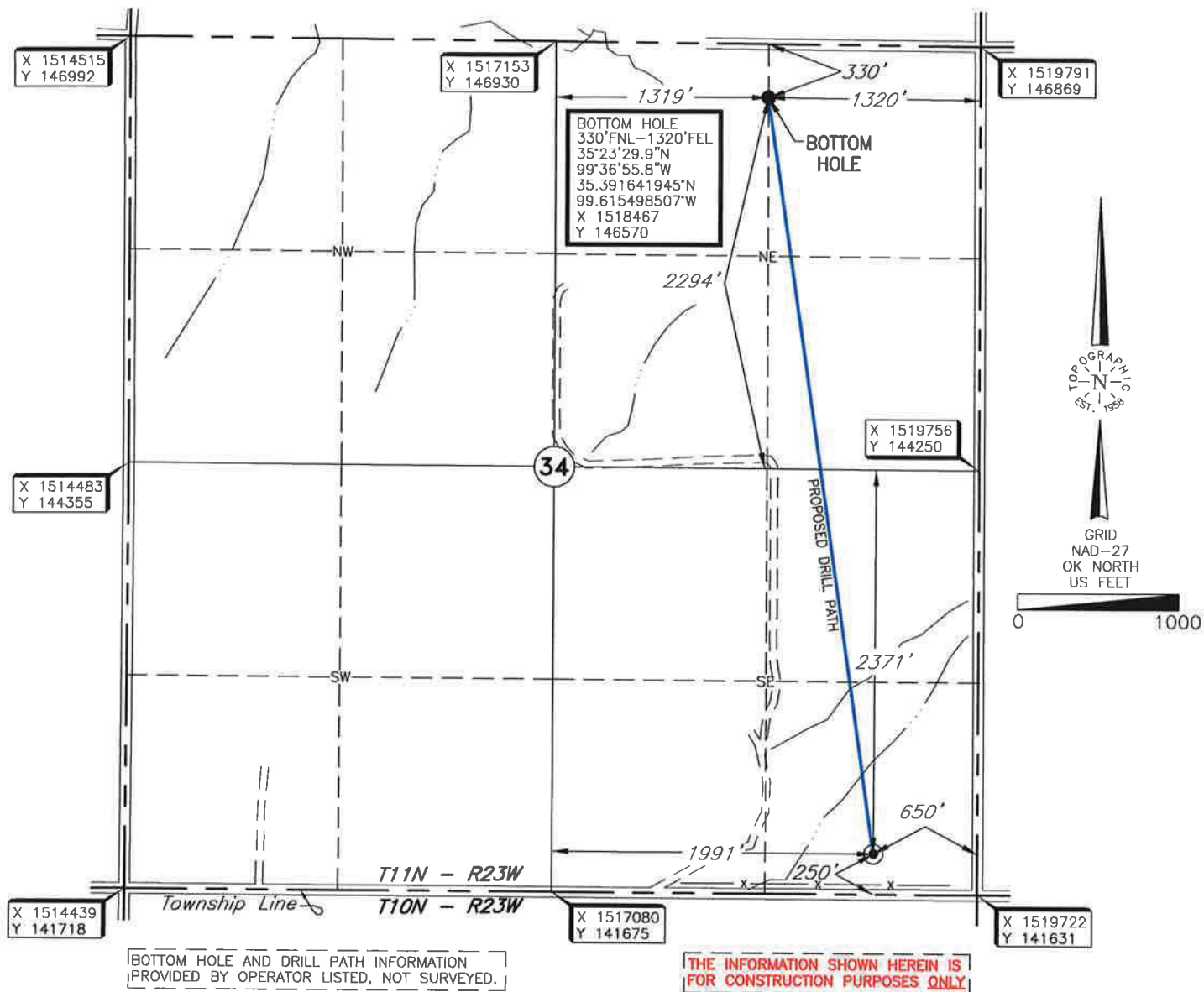Office of the Conservation Division as to when Surface Casing will be run.

API: 009 21985

BECKHAM ——————— County, Oklahoma

250'FSL — 650'FEL Section __34__ Township __11N__ Range __23W__ I.M.


```
X 1514515
Y 146992

X 1517153
Y 146930

330'
1319'                    1320'
BOTTOM HOLE
330'FNL−1320'FEL
35°23'29.9"N
99°36'55.8"W
35.391641945'N
99.615498507'W
X 1518467
Y 146570

BOTTOM HOLE

X 1519791
Y 146869

NW          2294'          NE

34

X 1514483
Y 144355

X 1519756
Y 144250

PROPOSED DRILL PATH

SW          SE          2371'

650'

X 1514439
Y 141718

T11N − R23W
Township Line       T10N − R23W

1991'       250'

X 1517080
Y 141675

X 1519722
Y 141631
```

GRID
NAD−27
OK NORTH
US FEET

0   1000

BOTTOM HOLE AND DRILL PATH INFORMATION
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: __JMA ENERGY CO., LLC__

Lease Name: __DUNLAP__   Well No.: __#1−34H__

ELEVATION:
__1978' Gr. at Stake__

Topography & Vegetation __Location fell in pasture, sloping north. N. R/W fence 215' south.__

Good Drill Site? __Yes__   Reference Stakes or Alternate Location
Stakes Set __None__

Best Accessibility to Location __From South off county road__

Distance & Direction
from Hwy Jct or Town __From Jct. of U.S. Hwy. 283 and St. Hwy. 6, ±8 miles North of Sayre, Ok., go ±2.5 miles East__
__on St. Hwy. 6, then ±2 miles South to the SE corner of Section 34, T11N − R23W.__

DATUM: __NAD−27__
LAT: __35°22'43.8"N__
LONG: __99°36'47.5"W__
LAT: __35.378820204'N__
LONG: __99.613197493'W__
STATE PLANE
COORDINATES (US FEET):
ZONE: __OK NORTH__
X: __1519075__
Y: __141892__

Revision ☒ A

Date of Drawing: __February 2, 2017__
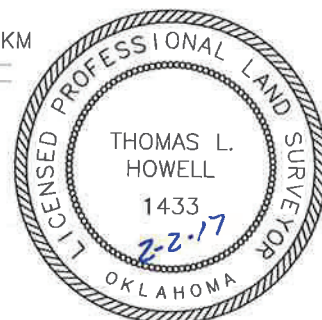Invoice # __269106__ Date Staked: __December 13, 2016__ RKM

CERTIFICATE:

I, __Thomas L. Howell__ an Oklahoma Licensed Land
Surveyor and an authorized agent of Topographic Land
Surveyors of Oklahoma, do hereby certify to the
information shown herein.

Thomas L. Howell

Oklahoma Reg. No. __1433__

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
2-2-17
OKLAHOMA