

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

API NUMBER: 117 23603

Approval Date: 05/19/2014
Expiration Date: 11/19/2014

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 21N Rge: 8E County: PAWNEE
SPOT LOCATION: E2 NE SW SW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 1650 1120

Lease Name: LOWRANCE Well No: 16 Well will be 1020 feet from nearest unit or lease boundary.

Operator Name: MID-CON ENERGY OPERATING LLC Telephone: 9187437575 OTC/OCC Number: 23271 0

MID-CON ENERGY OPERATING LLC
2431 E 61ST ST STE 850
TULSA, OK 74136-1236

KIRBY GRAY INVESTMENTS LLC
1262 SEAMIST DR
HOUSTON TX 77008

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

	Name	Depth	Name	Depth	
1	COTTAGE GROVE	1040	6	PRUE	2046
2	LAYTON	1298	7	SKINNER	2112
3	CLEVELAND	1660	8	BARTLESVILLE	2305
4	BIG LIME	1943	9	SIMPSON	2515
5	OSWEGO	1991	10	ARBUCKLE	2699

Spacing Orders: 609199

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3000

Ground Elevation: 824

Surface Casing: 280

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: VAMOOSA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

Notes:

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.

117 23603 LOWRANCE 16

Category	Description
FRAC FOCUS	5/14/2014 - G71 - THE REQUIREMENT FOR CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS WILL BE EXTENDED TO INCLUDE ALL NON-HORIZONTAL WELLS FOR HYDRAULIC FRACTURING OPERATIONS BEGINNING JANUARY 1, 2014. REFER TO OCC RULE 165:10-3-10 FOR COMPLIANCE REQUIREMENTS. PLEASE REPORT DIRECTLY TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ OR FOR OCC ASSISTANCE CONTACT DENNIS NISKERN AT 405-522-2977 OR D.NISKERN@OCCEMAIL.COM
SPACING - 609199	5/19/2014 - G72 - (UNIT) S2 17-21N-8E EST CLEVELAND FIELD UNIT TOP CGGV TO BASE ABCK

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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 11'123603

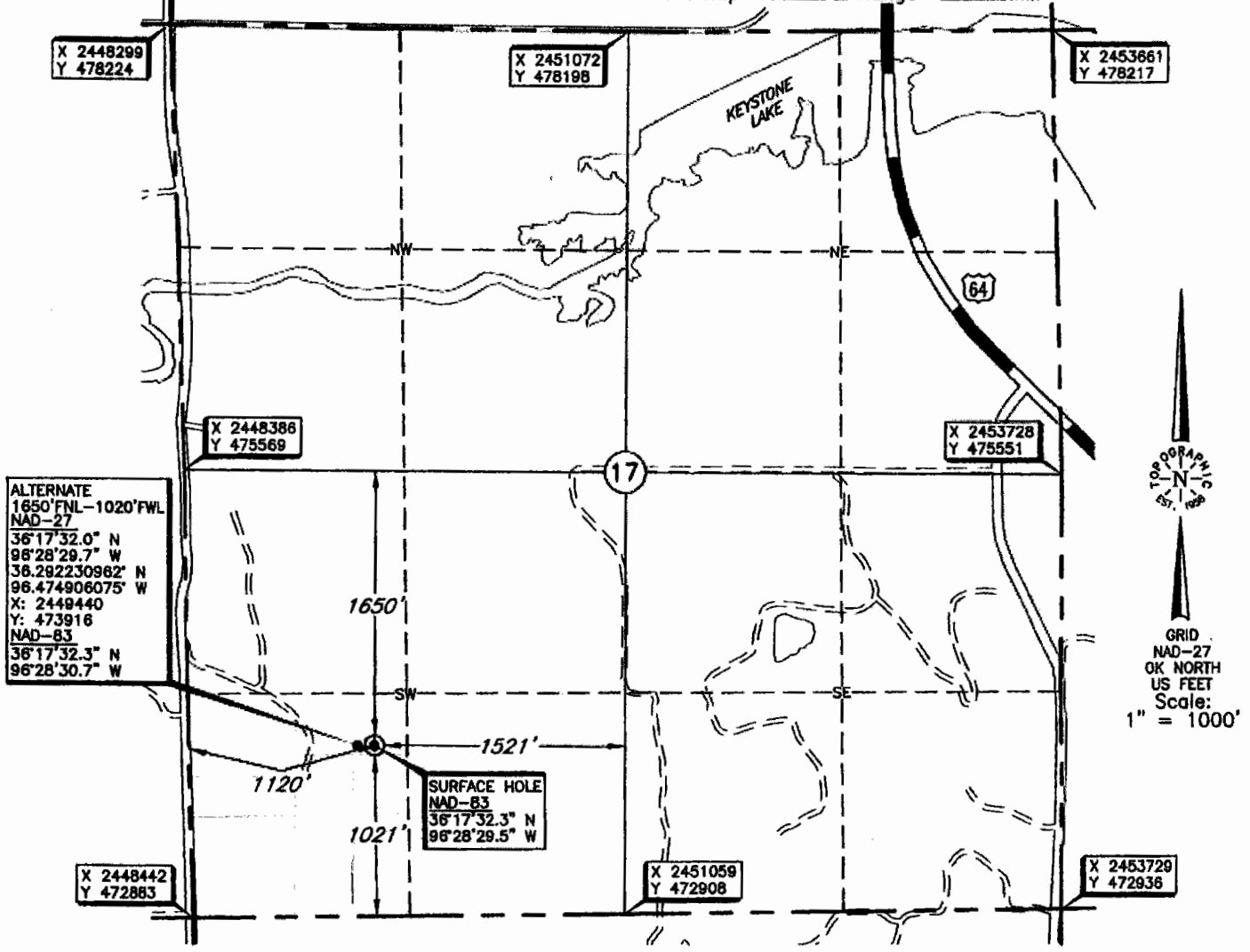
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293.

PAWNEE

County, Oklahoma

1650'FNL-1120'FWL-SW/4 Section 17 Township 21N Range 8E I.M.



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

ELEVATION:
 824' Gr. at Stake (NAVD 88)
 823' Gr. at Stake (NGVD 29)

Operator: MIDCON-ENERGY OPERATING, LLC.

Lease Name: LOWRANCE

Well No.: #16

Topography & Vegetation Loc. fell in rocky timber, 20' W. of creek; Alt. fell in sloping, rocky timber, 120' W. of creek

Good Drill Site? No; Alt.: Yes Reference Stakes or Alternate Location
Stakes Set 1650'FNL-1020'FWL-SW/4, ELEV: 838' Gr. (NGVD29 & NAVD88)

Best Accessibility to Location From West off county road

Distance & Direction
From Hwy Jct or Town From the junction of US Hwy 64 N-S & St. Hwy 99 West in Cleveland, Oklahoma, go
± 0.8 mile West on St. Hwy 99, then go ± 1.1 miles South to the Southwest Corner of Section 17, T21N - R8E.

DATUM: NAD-27
 LAT: 36°17'32.0"N
 LONG: 96°28'28.4"W
 LAT: 36.292225638° N
 LONG: 96.474566926° W
 STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2449540
 Y: 473915

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

Date of Drawing: Apr. 3, 2014
Invoice # 218761 Date Staked: Mar. 31, 2014

NMB

CERTIFICATE:

I, Thomas L. Howell a Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify to the information shown herein.

Thomas L. Howell
Oklahoma Reg. No. 1433

