

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

API NUMBER: 129 23818 A

Approval Date: 05/14/2013
Expiration Date: 11/14/2013

Horizontal Hole Oil & Gas

Amend reason: CHANGE OPERATOR

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 14N Rge: 26W County: ROGER MILLS
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 235 541

Lease Name: MORNING STAR Well No: 1H-18 Well will be 235 feet from nearest unit or lease boundary.
Operator Name: ENERVEST OPERATING LLC Telephone: 7134956530 OTC/OCC Number: 19848 0

ENERVEST OPERATING LLC
1001 FANNIN ST STE 800
HOUSTON, TX 77002-6708

CHARLES L. HICKEY & DEBRA J. HICKEY, H/W
9111 N. 1680 ROAD
REYDON OK 73660

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

Name	Depth	Name	Depth
1 GRANITE WASH	11813	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 109157

Location Exception Orders: 611494

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 12765

Ground Elevation: 2465

Surface Casing: 700

Depth to base of Treatable Water-Bearing FM: 520

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 13-22920

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: OGALLALA

HORIZONTAL HOLE 1

Sec 18 Twp 14N Rge 26W County ROGER MILLS

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 561

Depth of Deviation: 12115

Radius of Turn: 1000

Direction: 360

Total Length: 4200

Measured Total Depth: 17315

True Vertical Depth: 12765

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

LOCATION

3/22/2013 - G30 - IRREGULAR FRACTIONAL SECTION
SHL 235 FSL, 541 FEL, 550 FWL OF SECTION
BHL: 165 FNL, 561 FEL, 550 FWL OF SECTION
PER SURVEY PLAT

LOCATION EXCEPTION - 611494

5/14/2013 - G30 - (I.O.) 17 & FRAC. 18-14N-26W
X109157 GRWS
1ST PERF NCT 330 FSL, NCT 500 FWL
LAST PERF NCT 330 FNL, NCT 500 FWL
BHL NCT 165 FNL, NCT 500 FWL
LAREDO PETROLEUM, INC.**
5/10/13

**NAME OF OPERATOR TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION
EXCEPTION

MEMO

3/22/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION,
CONCRETE LINED PIT FOR SOIL FARMING, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS
PERMITTED PER DISTRICT

SPACING - 109157

3/22/2013 - G30 - (640) 17 & FRAC. 18-14N-26W
EXT 96894/107697 DGSL, TNKW, CLVD, OTHERS
EXT 1065420 GRWS

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