

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

Form W-1H 07/2004
Supplemental Horizontal Well Information

Permit Status: **Approved**
The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

*This facsimile W-1 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.*

Permit # **823074**
Approved Date: **Feb 17, 2017**

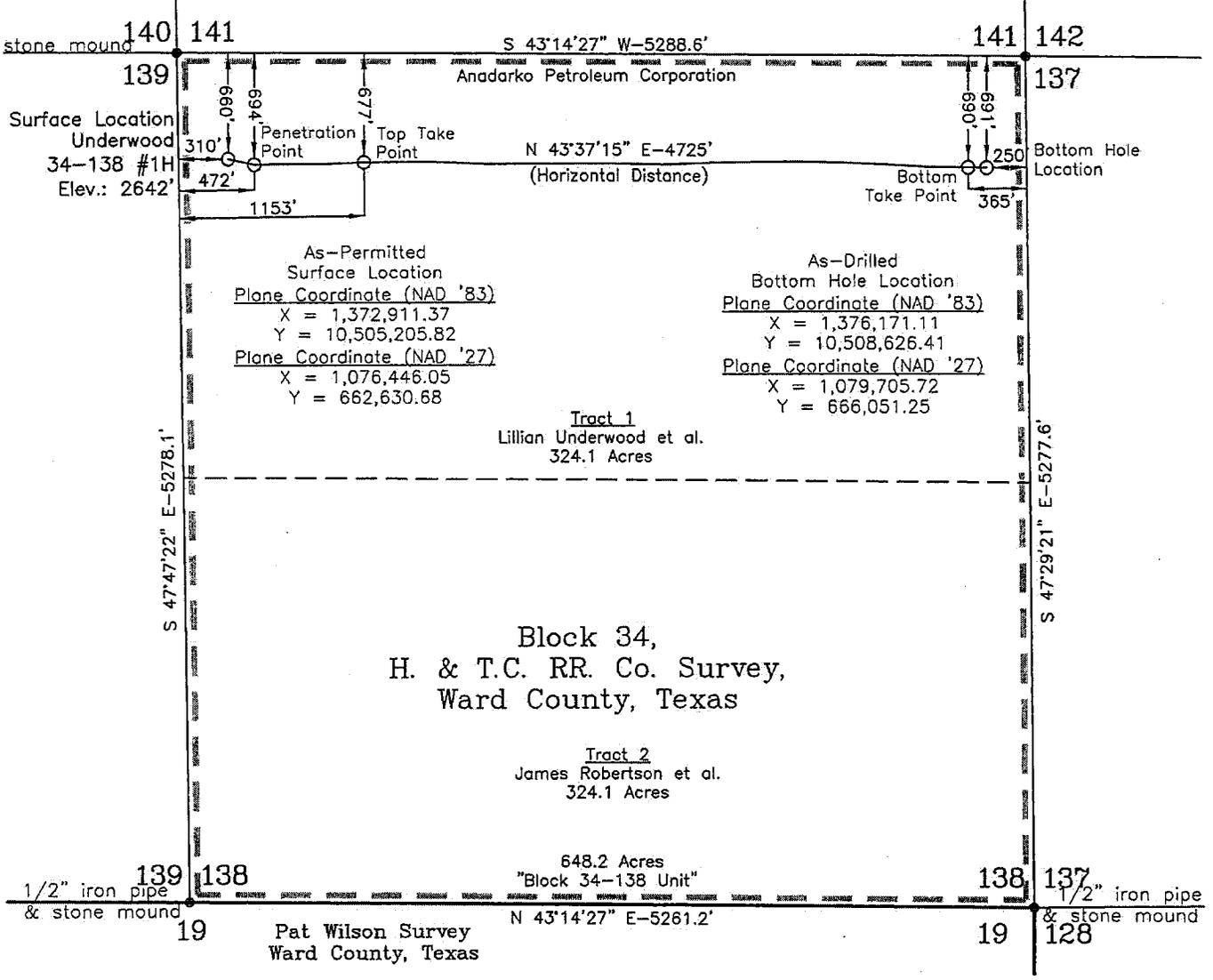
1. RRC Operator No. 020528	2. Operator's Name (exactly as shown on form P-5, Organization Report) ANADARKO E&P ONSHORE LLC	3. Lease Name UNDERWOOD 34-138 UNIT	4. Well No. 1H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **SANDBAR (BONE SPRING) (Field # 80544500, RRC District 08)**

6. Section 138	7. Block 34	8. Survey H&TC RR CO / GLAZE, J B	9. Abstract 1472	10. County of BHL WARD
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11. Terminus Lease Line Perpendiculars 250 ft. from the EAST line. and 691 ft. from the NORTH line
12. Terminus Survey Line Perpendiculars 250 ft. from the EAST line. and 691 ft. from the NORTH line
13. Penetration Point Lease Line Perpendiculars 472 ft. from the WEST line. and 694 ft. from the NORTH line



As-Permitted
Surface Location
Plane Coordinate (NAD '83)
X = 1,372,911.37
Y = 10,505,205.82
Plane Coordinate (NAD '27)
X = 1,076,446.05
Y = 662,630.68

As-Drilled
Bottom Hole Location
Plane Coordinate (NAD '83)
X = 1,376,171.11
Y = 10,508,626.41
Plane Coordinate (NAD '27)
X = 1,079,705.72
Y = 666,051.25

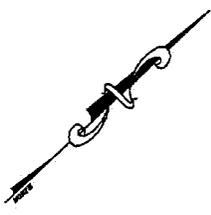
Tract 1
Lillian Underwood et al.
324.1 Acres

Tract 2
James Robertson et al.
324.1 Acres

Block 34,
H. & T.C. RR. Co. Survey,
Ward County, Texas

648.2 Acres
"Block 34-138 Unit"

Pat Wilson Survey
Ward County, Texas



AS-PERMITTED
SURFACE LOCATION
Geodetic Coordinate (NAD '83)
Latitude = 31°27'17.85" N
Longitude = 103°17'45.54" W
Geodetic Coordinate (NAD '27)
Latitude = 31°27'17.36" N
Longitude = 103°17'43.94" W
Decimal Degrees (NAD '27)
Latitude = 31.454823555° N
Longitude = 103.295539382° W

AS-DRILLED
BOTTOM HOLE LOCATION
Geodetic Coordinate (NAD '83)
Latitude = 31°27'52.55" N
Longitude = 103°17'08.97" W
Geodetic Coordinate (NAD '27)
Latitude = 31°27'52.07" N
Longitude = 103°17'07.37" W
Decimal Degrees (NAD '27)
Latitude = 31.464462656° N
Longitude = 103.285380306° W

THE UNDERWOOD 34-138 #1H IS LOCATED APPROXIMATELY 11 MILES NORTHEAST OF PECOS, TEXAS

Date Surveyed: March 18, 2011
Weather: Sunny, & Mild

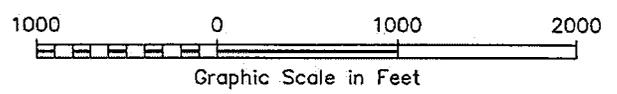
* As-Drilled survey data provided by Baker Huges report dated 7/4/2011
**Horizontal Distance is shown from surface location to bottom hole location

NOTE:

- Coordinates, Bearings, Distances and Areas shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983.
- See the Block 34-wardCo drawing filed in the office of this Surveyor which describes the reconstruction of this Section.

LEGEND

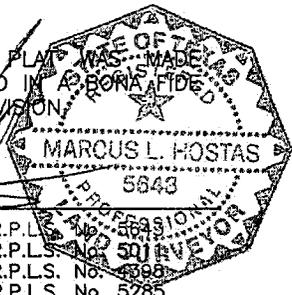
- ⊙ - Denotes Proposed Bottom Hole Location
- - Denotes Proposed Well Location
- ⊙ - Denotes Found Monument (As Described) (F-12345)
- - - - - Denotes General Land Office File No.
- — — — — Denotes Center Line of 15' Lease Road
- Denotes Existing Pipeline



I HEREBY CERTIFY THAT THIS PLAN WAS MADE FROM NOTES TAKEN IN THE FIELD IN ACCORDANCE WITH SURVEY MADE UNDER MY SUPERVISION.

MARCUS L. HOSTAS
J. FRANK NEWMAN
MACON McDONALD
R. CRAIG ALDERMAN

TEXAS R.P.L.S. No. 56931
TEXAS R.P.L.S. No. 50196
TEXAS R.P.L.S. No. 3899
TEXAS R.P.L.S. No. 5285



WEST COMPANY
of Midland, Inc.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX



As-Drilled Bottom Hole Location of the
UNDERWOOD 34-138 #1H
As-Permitted Surface Location
310' FSWL & 660' FNWL
Section 138, Block 34
H. & T.C. R.R. Company Survey
Ward County, Texas

Drawn By: LRM	Date: April 27, 2012
Scale: 1"=1000'	Field Book: A7 / 10-11
Revision Date: 4/7/11	Quadrangle: Soda Lake SE
W.O. No: 2011-0506-2	Dwg. No.: 2011-0506-AsDrilled.dwg