

API No. <u>42-475-37229</u> Drilling Permit # <u>825229</u> SWR Exception Case/Docket No. _____	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	FORM W-1 07/2004 Permit Status: Approved				
1. RRC Operator No. 020528	2. Operator's Name (as shown on form P-5, Organization Report) ANADARKO E&P ONSHORE LLC	3. Operator Address (include street, city, state, zip): ATTN FRANK A. DAVIS PO BOX 1330 HOUSTON, TX 77251-1330				
4. Lease Name LEAVENWORTH 34-139 UNIT		5. Well No. 1H				
GENERAL INFORMATION						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input checked="" type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth 11800	9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 08	12. County WARD	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore				
14. This well is to be located <u>6.2</u> miles in a <u>SE</u> direction from <u>Barstow</u> which is the nearest town in the county of the well site.						
15. Section 139	16. Block 34	17. Survey H&TC RR CO				
18. Abstract No. A-247	19. Distance to nearest lease line: 345 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 473.73				
21. Lease Perpendiculars: <u>24</u> ft from the <u>SW</u> line and <u>399</u> ft from the <u>SE</u> line.		22. Survey Perpendiculars: <u>2425</u> ft from the <u>SW</u> line and <u>399</u> ft from the <u>SE</u> line.				
23. Is this a pooled unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		24. Unitization Docket No: _____				
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No						
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	71052900	PHANTOM (WOLFCAMP)	Oil or Gas Well	11800	0.00	1
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [FILER Mar 13, 2018 3:08 PM]: Amending Permit to correct surface location lease line calls. Original permit plat referenced calls to the section line only. No change in lease configuration.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Betsy Luna, Staff Regulatory Analyst</u> <u>Mar 13, 2018</u> Name of filer Date submitted <u>(432)2473623</u> <u>betsy.luna@anadarko.com</u> Phone E-mail Address (OPTIONAL)		
RRC Use Only				Data Validation Time Stamp: Mar 15, 2018 5:40 PM ('As Approved' Version)		

**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

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Permit # **825229**
Approved Date: **Mar 15, 2018**

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 LEAVENWORTH 34-139 UNIT	4. Well No. 1H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)**

6. Section 138	7. Block 34	8. Survey H&TC RR CO/COVEY, G A	9. Abstract 600	10. County of BHL WARD
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11. Terminus Lease Line Perpendiculars 103 ft. from the NE line. and 389 ft. from the SE line
12. Terminus Survey Line Perpendiculars 103 ft. from the NE line. and 389 ft. from the SE line
13. Penetration Point Lease Line Perpendiculars 63 ft. from the SW line. and 364 ft. from the SE line

A-1271
(FILE: 137266)

A-248
(FILE: 3391)

A-640
(FILE: 83546)

142 137
138
141

S46°26'46"E-5321.06'

137 103'

Spike in
Stn. Mnd.
N43°30'39"E-5285.25'

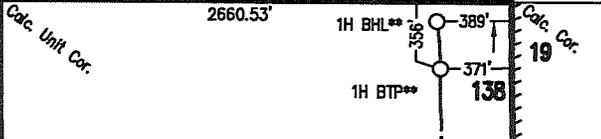
"LEAVENWORTH 34-139 UNIT" 1H
SURFACE LOCATION (CONDUCTOR)
TX-CENTRAL ZONE 4203
NAD 27 X=1,077,669.66'
NAD 27 Y=657,542.63'
NAD 27 LAT.=31°26'27.345"
NAD 27 LONG.=-103°17'28.258"
NAD 27 LAT.=31.4409293"
NAD 27 LONG.=-103.2911828"
NAD 83(2011) X=1,374,134.96'
NAD 83(2011) Y=10,500,117.73'
NAD 83 LAT.=31°26'27.831"
NAD 83 LONG.=-103°17'29.860"
NAD 83 LAT.=31.4410642"
NAD 83 LONG.=-103.2916277"
SL-2425' FSWL, 399' FSEL-SECTION 139
SL-24' FSWL, 399' FSEL-"LEAVENWORTH 34-139 UNIT"
ELEV.=2610.52'

"LEAVENWORTH 34-139 UNIT" 1H
PENETRATION POINT**
TX-CENTRAL ZONE 4203
NAD 27 X=1,077,721.63'
NAD 27 Y=657,547.78'
NAD 27 LAT.=31°26'27.410"
NAD 27 LONG.=-103°17'27.660"
NAD 27 LAT.=31.4409472"
NAD 27 LONG.=-103.2910167"
NAD 83(2011) X=1,374,186.92'
NAD 83(2011) Y=10,500,122.88'
NAD 83 LAT.=31°26'27.896"
NAD 83 LONG.=-103°17'29.262"
NAD 83 LAT.=31.4410821"
NAD 83 LONG.=-103.2914616"
PP-63' FSWL, 364' FSEL-"LEAVENWORTH 34-139 UNIT"

"LEAVENWORTH 34-139 UNIT" 1H
TOP TAKE POINT**
TX-CENTRAL ZONE 4203
NAD 27 X=1,078,141.89'
NAD 27 Y=657,981.23'
NAD 27 LAT.=31°26'31.831"
NAD 27 LONG.=-103°17'22.920"
NAD 27 LAT.=31.4421752"
NAD 27 LONG.=-103.2897000"
NAD 83(2011) X=1,374,609.25'
NAD 83(2011) Y=10,500,558.46'
NAD 83 LAT.=31°26'32.316"
NAD 83 LONG.=-103°17'24.522"
NAD 83 LAT.=31.4423101"
NAD 83 LONG.=-103.2901449"
TIP-670' FSWL, 350' FSEL-"LEAVENWORTH 34-139 UNIT"

"LEAVENWORTH 34-139 UNIT" 1H
BOTTOM TAKE POINT**
TX-CENTRAL ZONE 4203
NAD 27 X=1,082,745.08'
NAD 27 Y=662,990.95'
NAD 27 LAT.=31°27'22.584"
NAD 27 LONG.=-103°16'31.353"
NAD 27 LAT.=31.4562732"
NAD 27 LONG.=-103.2753759"
NAD 83(2011) X=1,379,210.48'
NAD 83(2011) Y=10,505,566.09'
NAD 83 LAT.=31°27'23.068"
NAD 83 LONG.=-103°16'32.953"
NAD 83 LAT.=31.4564077"
NAD 83 LONG.=-103.2758202"
BTP-356' FSWL, 371' FSEL-"LEAVENWORTH 34-139 UNIT"

"LEAVENWORTH 34-139 UNIT" 1H
BOTTOM HOLE LOCATION**
TX-CENTRAL ZONE 4203
NAD 27 X=1,082,904.20'
NAD 27 Y=663,188.48'
NAD 27 LAT.=31°27'24.580"
NAD 27 LONG.=-103°16'29.577"
NAD 27 LAT.=31.4568277"
NAD 27 LONG.=-103.2748825"
NAD 83(2011) X=1,379,369.61'
NAD 83(2011) Y=10,505,763.62'
NAD 83 LAT.=31°27'25.064"
NAD 83 LONG.=-103°16'31.176"
NAD 83 LAT.=31.4569622"
NAD 83 LONG.=-103.2753268"
BHL-103' FSWL, 389' FSEL-SECTION 138
BHL-103' FSWL, 389' FSEL-"LEAVENWORTH 34-139 UNIT"

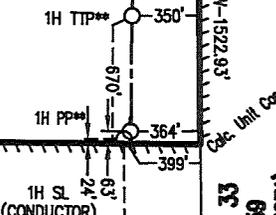


BLOCK 34, SECTION 138
H & T. C. RR CO.
A-600
(FILE: 82885)

ASDRILLED BORE SUMMARY
"LEAVENWORTH 34-139 UNIT" 1H WELL
SL TO PP**=N84°20'25"E-52.22'
SL TO TTP**=N47°06'04"E-647.46'
SL TO BTP**=N42°58'16"E-7446.18'
SL TO BHL**=N42°50'08"E-7699.20'
PP** TO TTP**=N44°06'56"E-606.71'
PP** TO BTP**=N42°42'15"E-7407.07'
PP** TO BHL**=N42°34'36"E-7660.17'
TTP** TO BTP**=N42°34'41"E-6800.56'
TTP** TO BHL**=N42°26'39"E-7053.70'
BTP** TO BHL**=N38°51'13"E-253.65'

②
"LEAVENWORTH 34-139 UNIT"
473.73 ACRES

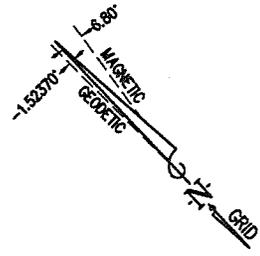
①
BLOCK 34, SECTION 139
H & T. C. RR CO.
A-247
(FILE: 3392)



PROPOSED STAKING AS-DRILLED
AFE#2130961.CMP, ID 10380
Surface location is approximately
6.2 miles SE of Barstow, Tx.
"QUITO DRAW" Quadrangle
* Called Acreage
** As-Drilled Information shown hereon
provided by Anadarko Petroleum Corp.

BLOCK 34
A-248
(FILE: 3393)

BLOCK 34
A-1091
(FILE: 124437)



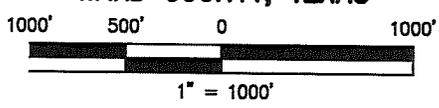
FOR THE EXCLUSIVE USE OF
ANADARKO E&P ONSHORE LLC
STATE OF TEXAS - - - COUNTY OF SMITH
I, Harrison Hrobar, Registered Professional Land
Surveyor, do hereby certify the above plat to be
true and correct to the best of my knowledge.
Date: November 1, 2017 Tyler, Texas
E.L.S. SURVEYING & MAPPING, INC.
HARRY L. JOHNSON & ASSOCIATES

Registered Professional Land Surveyor No. 6584
Location is staked from tract lines as evidenced by occupation,
information obtained from the General Land Office and provided
deed records. Distances shown are not intended to be definitive
in establishing actual title boundaries. The deed data, tract acreages
and unit data shown hereon was furnished by others. This is not
a title survey. Vesting documents may not have been provided.
Bearings and distances are based on the Texas State Plane Coordinate
System, N.A.D. 83 (2011) (Central Zone) Derived from GPS Observations.

"LEAVENWORTH 34-139 UNIT"

TRACT	ACREAGE	MINERAL OWNERSHIP
1	153.73	HILL COOPER LTD, ET AL
2	* 320.00	ROBERT B. HYMAN, ET AL
TOTAL	473.73	

ASDRILLED WELL LOCATION
ANADARKO E&P ONSHORE LLC
LEAVENWORTH 34-139 UNIT 1H WELL
H & T. C. RR CO. SURVEY, A-247
H & T. C. RR CO. SURVEY, A-600
WARD COUNTY, TEXAS



1" = 1000'
From the Office of E.L.S. Surveying & Mapping, Inc.
Harry L. Johnson & Associates - Tyler, Texas
2004 W. Grande Blvd. / 903-581-7759