PI NUMBER: 043 23640 izontal Hole Oil & Gas	OIL & GAS	CORPORATIO CONSERVAT P.O. BOX 520 DMA CITY, OK (Rule 165:10-3	00 73152-2000	Approval Date: 07/09/2018 Expiration Date: 01/09/2019
		PERMIT TO DE	RILL	
WELL LOCATION: Sec: 23 Twp: 16N Rge	: 15W County: DEWE	ΞY		
SPOT LOCATION: SW NW SW SW	FEET FROM QUARTER: FROM	SOUTH FROM	WEST	
	SECTION LINES:	675	311	
Lease Name: CALDERWOOD FIU	Well No:	1-23-14XHW	Well will	be 311 feet from nearest unit or lease boundary.
Operator CONTINENTAL RESOURCES Name:	INC	Telephone: 40	52349020; 4052349	OTC/OCC Number: 3186 0
CONTINENTAL RESOURCES INC			RICHARD L & EV	A J. JOHNSON TRUST
PO BOX 269000			7545 HWY 75	
OKLAHOMA CITY, OK	73126-9000			01/ 74040
			HOLDENVILLE	OK 74848
2 WOODFORD 3 HUNTON 4 5 Spacing Orders: No Occurrent	12995 13145 Location Exception (	7 8 9 10 Drders:		Increased Density Orders:
No Spacing				
Pending CD Numbers: 201801701 201801700				Special Orders:
Total Depth: 22625 Ground Elevation	n: 1721 Surface C	Casing: 1500	De	epth 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		App	proved Method for disposal of E	Drilling Fluids:
	ans Steel Pits	_	One time land application (P	EQUIRES PERMIT) PERMIT NO: 18-3426
Type of Pit System: CLOSED Closed System Me Type of Mud System: WATER BASED				
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000			SEE MEMO	
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft belo				
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft belo Within 1 mile of municipal water well? N				
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below Within 1 mile of municipal water well? N Wellhead Protection Area? N	w base of pit? Y			
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft belo Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit <b>is</b> located in a Hydrologically Sensitive Are	w base of pit? Y			
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft belo Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Are Category of Pit: C	w base of pit? Y			
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft belo Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit <b>is</b> located in a Hydrologically Sensitive Are	w base of pit? Y			

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: RUSH SPRINGS

#### HORIZONTAL HOLE 1

Sec 14	Twp	16N	Rge	15W	County	DEWEY		
Spot Location of End Point: N2 NW NW NW								
Feet From:	NOF	RTH	1/4 Seo	ction Lir	ne: 50	)		
Feet From:	WE:	ST	1/4 Se	ction Lir	ne: 33	30		
Depth of Dev	iation:	11986	6					
Radius of Tu	rn: 47	7						
Direction: 5								
Total Length:	9890							
Measured To	tal Dep	oth: 22	625					
True Vertical	Depth	1314	15					
End Point Location from Lease,								
Unit, or Property Line: 50								

Notes:	
Category	Description
DEEP SURFACE CASING	6/22/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	6/22/2018 - G71 - OCC 165:10-3-10 REQUIRES:
	1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;
	2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG
INTERMEDIATE CASING	6/22/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER- PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
МЕМО	6/22/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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. 043 23640 CALDERWOOD FIU 1-23-14XHW

PENDING CD - 201801700

PENDING CD - 201801701

Description

NO OP. NAMED

REC 6/13/2018 (M. PORTER)

7/6/2018 - G58 - (1280)(HOR) 14 & 23-16N-15W VAC 117758 CSTR VAC 144221 MSSSD, HNTN EST MSSP, HNTN, WDFD COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 6/13/2018 (M. PORTER) 7/9/2018 - G58 - (I.O.) 14 & 23-16N-15W X201801700 MSSP, WDFD,HNTN COMPL. INT. (23-16N-15W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (14-16N-15W) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL

Сс	)1	1	ti	r	16	21	11	ta	1
		S			R				

# COVER SHEET

## CONTINENTAL RESOURCES, INC.

P.O. BOX 26900 OKLAHOMA CITY, OK 73126 \* (T) 1-800-256-8955 (F) 405-234-9253

Section  $\_23$  Township  $\_16N$  Range  $\_15W$  I.M.

County \_\_\_\_\_DEWEY \_\_\_\_State \_\_\_OK\_\_\_

EXHIBIT: A (1 of 2) SHEET: \_\_\_\_\_8.5×11\_\_\_

SHL:

BHL:

23-16N-15W

14-16N-15W

Operator \_\_\_\_\_CONTINENTAL RESOURCES, INC.

		NAD-	-83				
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION
W1	CALDERWOOD FIU 1-23-14-XHW	307726	1739365	35* 50' 34.28" -98* 46' 23.17"	35.842855 -98.773104	675' FSL / 311' FWL (SW/4 SEC 23)	675' FSL / 311' FWL (SW/4 SEC 23) 1721.33'
LP-1	LANDING POINT	307726	1739384	35* 50' 34.28" -98* 46' 22.95"	35.842855 -98.773041	675' FSL / 330' FWL (SW/4 SEC 23)	675' FSL / 330' FWL (SW/4 SEC 23)
BHL-1	BOTTOM HOLE LOCATION	317616	1739484	35* 52' 12.09" -98* 46' 22.68"	35.870026 -98.772968	50' FNL / 330' FWL (NW/4 SEC 14)	50' FNL / 330' FWL (NW/4 SEC 14)
X-1	CLINE A-1	316339	1743157	35° 51' 59.76" -98° 45' 37.94"	35.866600 -98.760539	14-16N-15W:NE4   TD: 13,221'   1,320' FSL / 1,320' FEL	
X-2	JOHNSON UNIT B-1	312982	1739745	35* 51' 26.29" -98* 46' 19.07"	35.857303 -98.771964	14-16N-15W:SW4SW4   TD: 10,742'   660' FSL / 660' FWL	
X-3	VANDIVER #1	310831	1740443	35* 51' 05.07" -98* 46' 10.38"	35.851408 -98.769550	23-16N-15W:NW4SE4NW4   TD: 10,630'   1,155' FSL / 1,375' FWL	
X-4	HUBER A-1	308587	1742750	35° 50' 43.06" -98° 45' 42.14"	35.845295 -98.761705	23-16N-15W:SE4NW4SE4   TD: 10,800'   1,600' FSL / 1,040' FWL	

		NAD	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	CALDERWOOD FIU 1-23-14-XHW	307700	1770968	35° 50' 34.11" -98° 46' 21.86"	35.842808 -98.772739	675' FSL / 311' FWL (SW/4 SEC 23)	1721.33'	1720.76'
LP-1	LANDING POINT	307700	1770986	35° 50' 34.11" -98° 46' 21.63"	35.842809 -98.772676	675' FSL / 330' FWL (SW/4 SEC 23)		
BHL-1	BOTTOM HOLE LOCATION	317590	1771087	35° 52' 11.93" -98° 46' 21.37"	35.869980 -98.772602	50' FNL / 330' FWL (NW/4 SEC 14)		
X-1	CLINE A-1	316314	1774759	35° 51' 59.59" -98° 45' 36.62"	35.866554 -98.760174	14-16N-15W:NE4   TD: 13,221'   1,320' FSL / 1,320' FEL		
X-2	JOHNSON UNIT B-1	312956	1771347	35° 51' 26.12" -98° 46' 17.75"	35.857257 -98.771598	14-16N-15W:SW4SW4   TD: 10,742'   660' FSL / 660' FWL		
X-3	VANDIVER #1	310805	1772046	35° 51' 04.90" -98° 46' 09.07"	35.851362 -98.769185	23-16N-15W:NW4SE4NW4   TD: 10,630'   1,155' FSL / 1,375' FWL		
X-4	HUBER A-1	308561	1774353	35° 50' 42.89" -98° 45' 40.83"	35.845248 -98.761341	23-16N-15W:SE4NW4SE4   TD: 10,800'   1,600' FSL / 1,040' FWL		

Certificate of Authorization No. 7318

Date Staked: 03-15-18 Date Drawn: 03-15-18



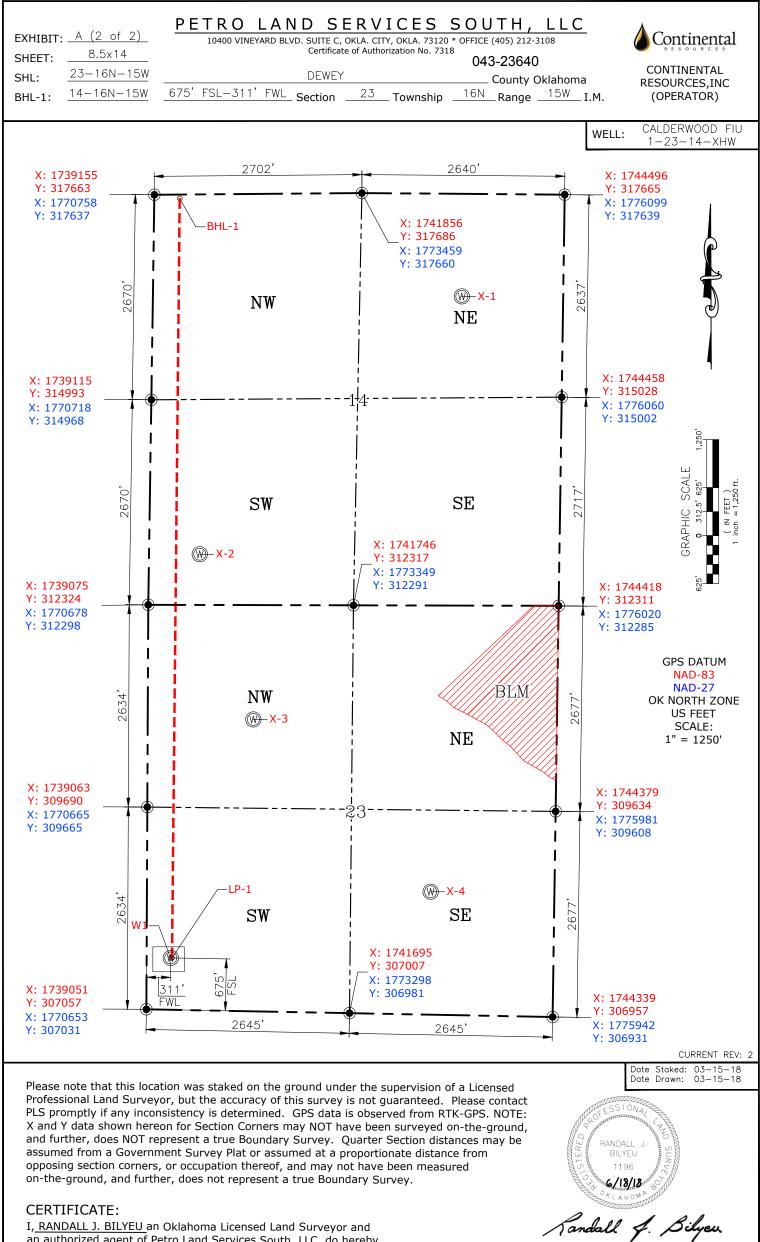
Prepared By: Petro Land Services South 10400 Vineyard Blvd. Suite C Oklahoma City, OK 73120

[	REVISIONS						
	No.	DATE	BY	DESCRIPTION	COMMENTS		
	00	03-15-18	MJL	ISSUED FOR APPROVAL			
	01	03-26-18	MJL	UPDATED GRADING PLAN	REV. THIS SHEET & EXHIBIT I		
	02	06-15-18	TJW	MOVED PAD 330' FWL	REV. ALL EXHIBITS		

043-23640

CALDERWOOD FIU 1-23-14-XHW

Well: \_\_\_\_\_



I, RANDALL J. BILYEU an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.

Oklahoma PLS No.1196 DATE

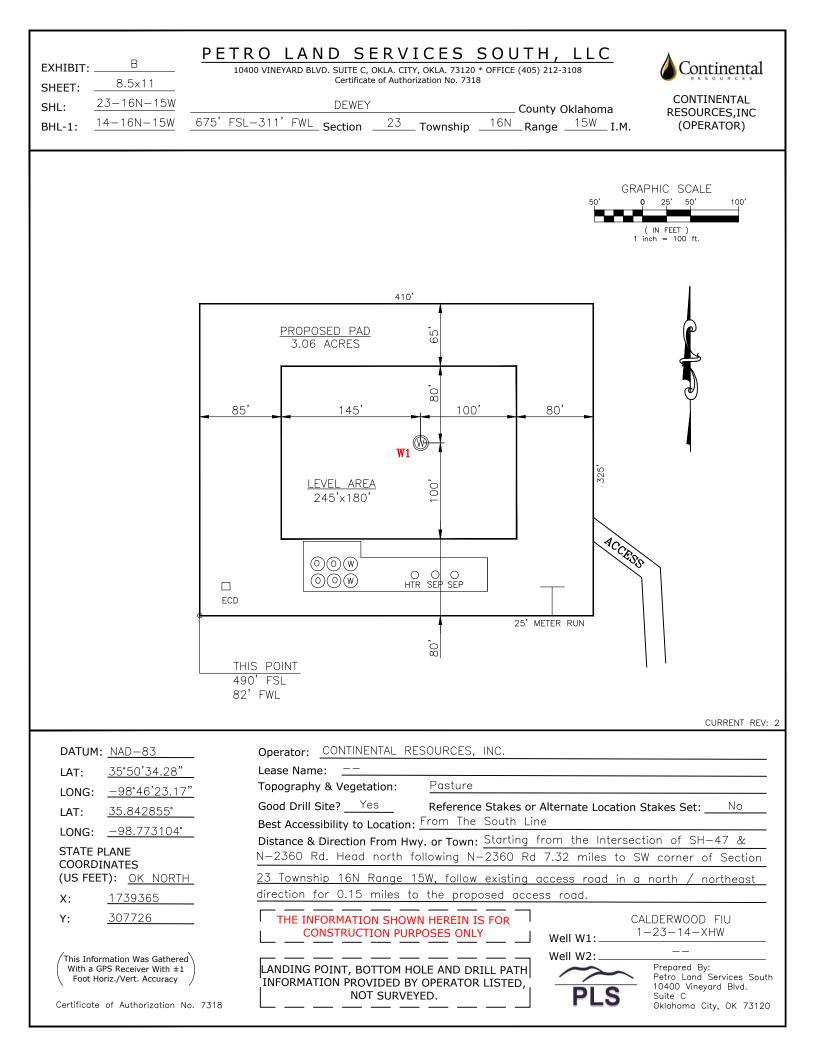
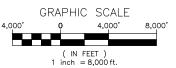


EXHIBIT: $C$ SHEET: $\frac{8.5 \times 11}{23 - 16 N - 15 W}$ BHL-1: $\frac{14 - 16 N - 15 W}{14 - 16 N - 15 W}$	Continental RESOURCES
	VICINITY MAP
PU OPEEN EDB10 Rd	PH USEC

Oklahoma City, OK 73120



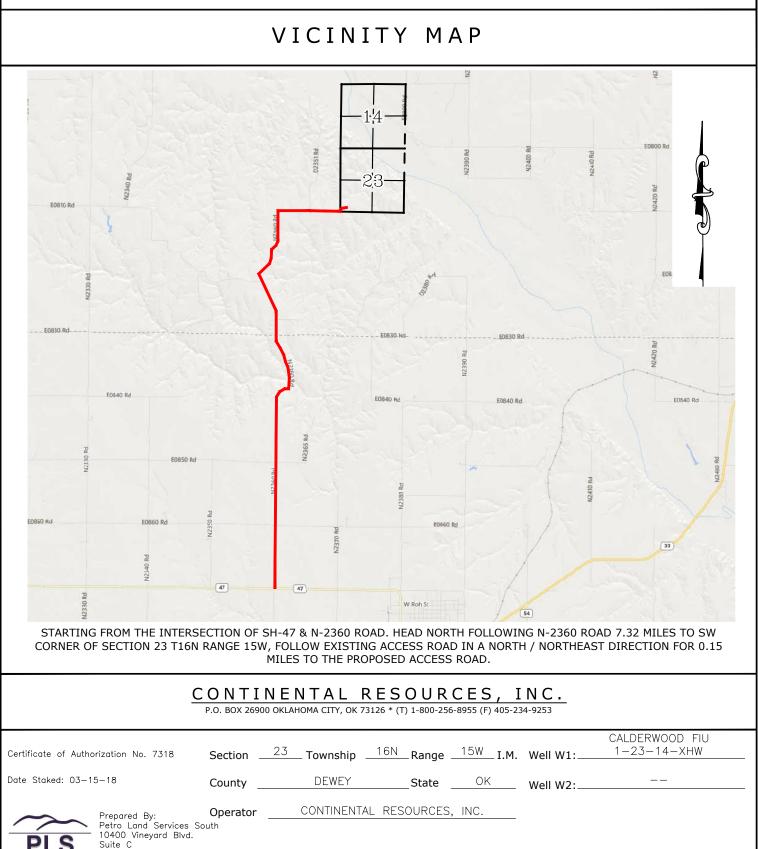


EXHIBIT:	D
SHEET:	8.5x11
SHL:	23-16N-15W
BHL-1:	14-16N-15W



CALDERWOOD FIU WELL W1: 1-23-14-XHW WELL W2: --

## FACING NORTH

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#### FACING SOUTH

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Т	E	R	R	Α	Ι	Ν

DRAWN BY:	TJW	SCALE:	N.T.S.
CHECKED BY:	MVA	JOB No.:	
APPROVED BY:		DWG. NO.:	TERRAIN-1
DATE ISSUED:	03-15-18	SHEET:	1 OF 2

CURRENT REV: 2

EXHIBIT:	E
SHEET:	8.5x11
SHL:	23-16N-15W
BHL-1:	14-16N-15W



LI W1:	CALDERWOOD FIU 1-23-14-XHW
LL W1:	

#### FACING EAST

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#### FACING WEST

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Prepared By:	
Petro Land Services South	
10400 Vineyard Blvd.	
Suite C	
Oklahoma City, OK 73120	

## TERRAIN

DRAWN BY:	TJW	SCALE:	N.T.S.
CHECKED BY:	MVA	JOB No.:	
APPROVED BY:		DWG. NO.:	TERRAIN-2
DATE ISSUED:	03-15-18	SHEET:	2 OF 2

CURRENT REV: 2

EXHIBIT:	F
SHEET:	8.5x11
SHL:	23-16N-15W
BHL-1:	14-16N-15W



	CALDERWOOD FIL
ELL W1:	1-23-14-XHW
ELL W2:	

FIU

#### PROPOSED ACCESS ROAD = 176' | 10.67 RODS (TOTAL) EXISTING ACCESS ROAD = 1748' | 109.94 RODS (TOTAL)

