

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

API NUMBER: 051 24497

Approval Date: 10/09/2018

Expiration Date: 04/09/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 7N Rge: 7W

County: GRADY

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 242 443

Lease Name: ASH

Well No: 1-1-36XHM

Well will be 242 feet from nearest unit or lease boundary.

Operator Name: CONTINENTAL RESOURCES INC

Telephone: 4052349020; 4052349

OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC  
PO BOX 269000  
OKLAHOMA CITY, OK 73126-9000

PAUL AND REGINALD KEYS  
1026 N. LAUREL AVE  
WEST HOLLYWOOD CA 90046

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

	Name	Depth	Name	Depth
1	SPRINGER	12493	6	
2	MISSISSIPPIAN	13693	7	
3	WOODFORD	13875	8	
4			9	
5			10	

Spacing Orders: 683852

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800830  
201801789  
201801819

Special Orders:

Total Depth: 23761

Ground Elevation: 1225

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 510

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 3000 Average: 2000

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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

PERMIT NO: 18-35104

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

## HORIZONTAL HOLE 1

Sec 36 Twp 8N Rge 7W County GRADY

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 12728

Radius of Turn: 477

Direction: 2

Total Length: 10284

Measured Total Depth: 23761

True Vertical Depth: 13875

End Point Location from Lease,  
Unit, or Property Line: 50

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

8/8/2018 - 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

8/8/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### MEMO

8/8/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

#### PENDING CD - 201800830

8/17/2018 - G58 - (640)(HOR) 1-7N-7W  
EXT 671190 MSSP, WDFD, OTHER  
COMPL. INT. (MSSP) NLT 660' FB  
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL  
(COEXIST SP. ORDER 97146, OTHER)  
REC 9/25/2018 (NORRIS)

This permit does not address the right of entry or settlement of surface damages.

051 24497 ASH 1-1-36XHM

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.

Category	Description
PENDING CD - 201801789	8/17/2018 - G58 - (I.O.) 1-7N-7W & 36-8N-7W EST MULTIUNIT HORIZONTAL WELL X97146 SPRG 1-7N-7W & 36-8N-7W X201800830 MSSP, WDFD 1-7N-7W X201801789 MSSP, WDFD 36-8N-7W (SPRG, WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 1-7N-7W 50% 36-8N-7W NO OP. NAMED REC 9/25/2018 (NORRIS)
PENDING CD - 201801819	8/17/2018 - G58 - (I.O.) 1-7N-7W & 36-8N-7W X97146 SPRG 1-7N-7W & 36-8N-7W X201800830 MSSP, WDFD 1-7N-7W X201801789 MSSP, WDFD 36-8N-7W COMPL. INT. (1-7N-7W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (36-8N-7W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL NO OP. NAMED REC 9/25/2018 (NORRIS)
SPACING - 683852	8/17/2018 - G58 - (640) 36-8N-7W VAC OTHERS VAC 190267 MSSLM, OTHERS EXT 621422/VAR/632454 MSSP, WDFD, OTHERS

EXHIBIT: A (1 of 2)  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W



051-24497

## COVER SHEET

### CONTINENTAL RESOURCES, INC.

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

Section 01 Township 07N Range 07W I.M.

Well: ASH 1-1-36XHM

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

#### NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	ASH 1-1-36XHM	643982	2003396	35° 06' 10.09" -97° 53' 00.02"	35.102803 -97.883338	242' FSL / 443' FEL (SE/4 SEC 01)	1224.70	1225.17'
LP-1	LANDING POINT	643982	2003509	35° 06' 10.09" -97° 52' 58.66"	35.102802 -97.882960	242' FSL / 330' FEL (SE/4 SEC 01)	--	--
BHL-1	BOTTOM HOLE LOCATION	654266	2003508	35° 07' 51.81" -97° 52' 58.53"	35.131057 -97.882924	50' FNL / 330' FEL (NE/4 SEC 36)	--	--
X-1	COWAN #1-36	652992	2002514	35° 07' 39.22" -97° 53' 10.51"	35.127560 -97.886253	36-08N-07W:NE4   TD: 12,500'   1,320' FSL / 1,320' FWL	--	--
X-2	WAYNE HILL #1-36	650431	2002417	35° 07' 13.89" -97° 53' 11.71"	35.120524 -97.886587	36-08N-07W:SE4SE4NW4SE4   TD: 12,300'   1,400' FSL / 1,223' FWL	--	--
X-3	HILL #1-36	651011	2001859	35° 07' 19.63" -97° 53' 18.42"	35.122119 -97.888449	36-08N-07W:NW4SE4   TD: 12,100'   1,980' FSL / 1,980' FEL	--	--
X-4	REENTS #1	645051	1999525	35° 06' 20.70" -97° 53' 46.59"	35.105751 -97.896276	01-07N-07W:E2W2SW4   TD: 8,100'   1,320' FSL / 970' FWL	--	--

#### NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	ASH 1-1-36XHM	643940	2034993	35° 06' 09.86" -97° 52' 58.86"	35.102738 -97.883017	242' FSL / 443' FEL (SE/4 SEC 01)	1224.70	1225.17'
LP-1	LANDING POINT	643940	2035106	35° 06' 09.86" -97° 52' 57.56"	35.102738 -97.882640	242' FSL / 330' FEL (SE/4 SEC 01)	--	--
BHL-1	BOTTOM HOLE LOCATION	654224	2035105	35° 07' 51.58" -97° 52' 57.37"	35.130993 -97.882603	50' FNL / 330' FEL (NE/4 SEC 36)	--	--
X-1	COWAN #1-36	652950	2034111	35° 07' 38.98" -97° 53' 09.35"	35.127496 -97.885932	36-08N-07W:NE4   TD: 12,500'   1,320' FSL / 1,320' FWL	--	--
X-2	WAYNE HILL #1-36	650389	2034014	35° 07' 13.66" -97° 53' 10.56"	35.120460 -97.886266	36-08N-07W:SE4SE4NW4SE4   TD: 12,300'   1,400' FSL / 1,223' FWL	--	--
X-3	HILL #1-36	650969	2033456	35° 07' 19.40" -97° 53' 17.26"	35.122054 -97.888128	36-08N-07W:NW4SE4   TD: 12,100'   1,980' FSL / 1,980' FEL	--	--
X-4	REENTS #1	645009	2031121	35° 06' 20.47" -97° 53' 45.44"	35.105687 -97.895955	01-07N-07W:E2W2SW4   TD: 8,100'   1,320' FSL / 970' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 04-24-18  
Date Drawn: 04-25-18



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

#### REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	04-25-18	MJL	ISSUED FOR APPROVAL	--
01	05-01-18	TJW	REV. ACCESS AND FACILITIES	REV. EXHIBITS B,F,G,H & I

EXHIBIT: A (2 of 2)  
SHEET: 8.5x14  
SHL: 01-07N-07W  
BHL-1 36-08N-07W

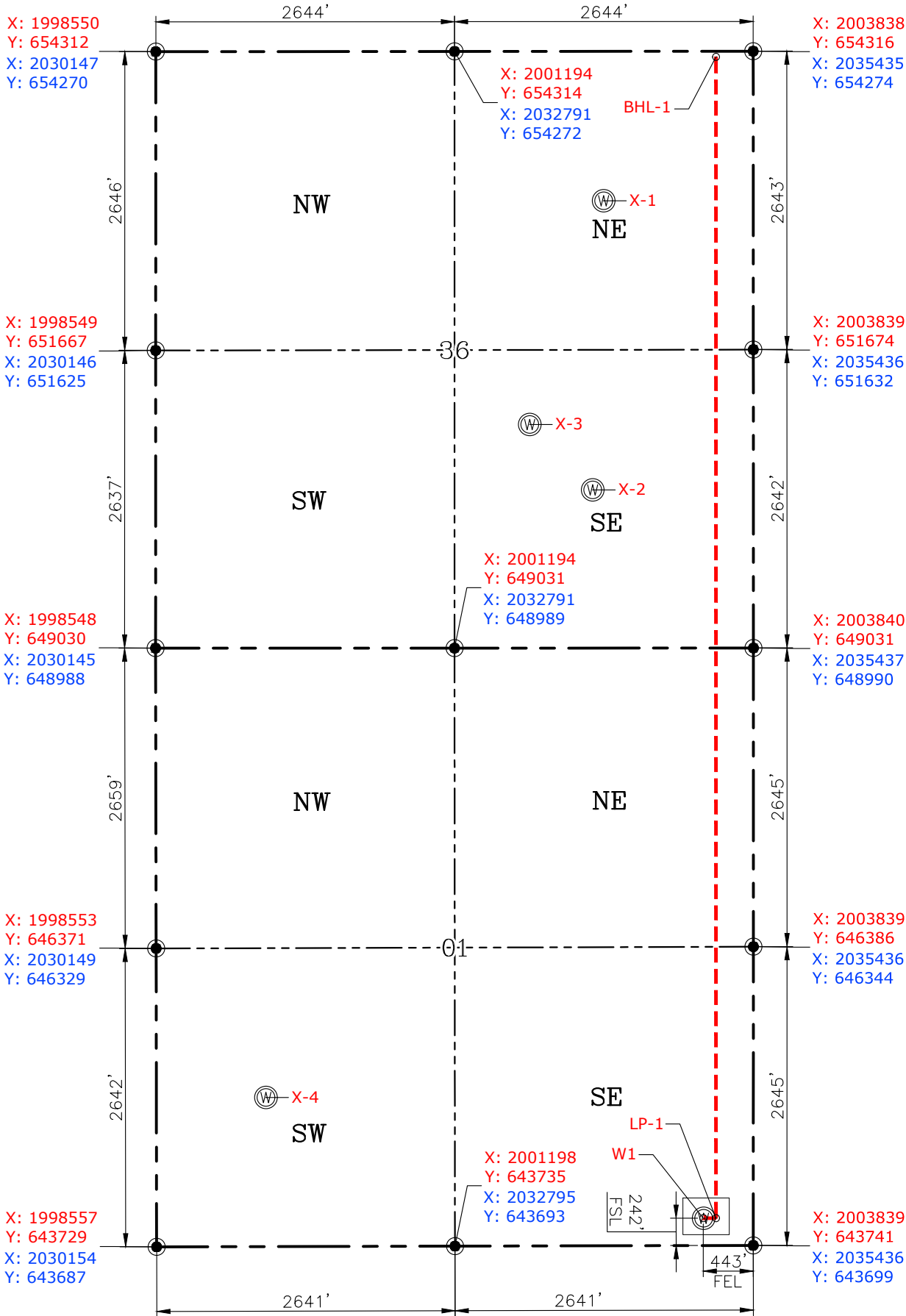
PETRO LAND SERVICES SOUTH, LLC  
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318



CONTINENTAL  
RESOURCES, INC  
(OPERATOR)

GRADY County Oklahoma  
242' FSL-443' FEL Section 01 Township 07N Range 07W I.M.

WELL: ASH 1-1-36XHM



GPS DATUM  
NAD-83  
NAD-27  
OK SOUTH ZONE  
US FEET  
SCALE:  
1" = 1250'

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact PLS promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true Boundary Survey.

CERTIFICATE:

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.

Date Staked: 04-24-18  
Date Drawn: 04-25-18

CURRENT REV.: 1



*Randall J. Bilyeu*

Oklahoma PLS No.1196 DATE

EXHIBIT: B  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W

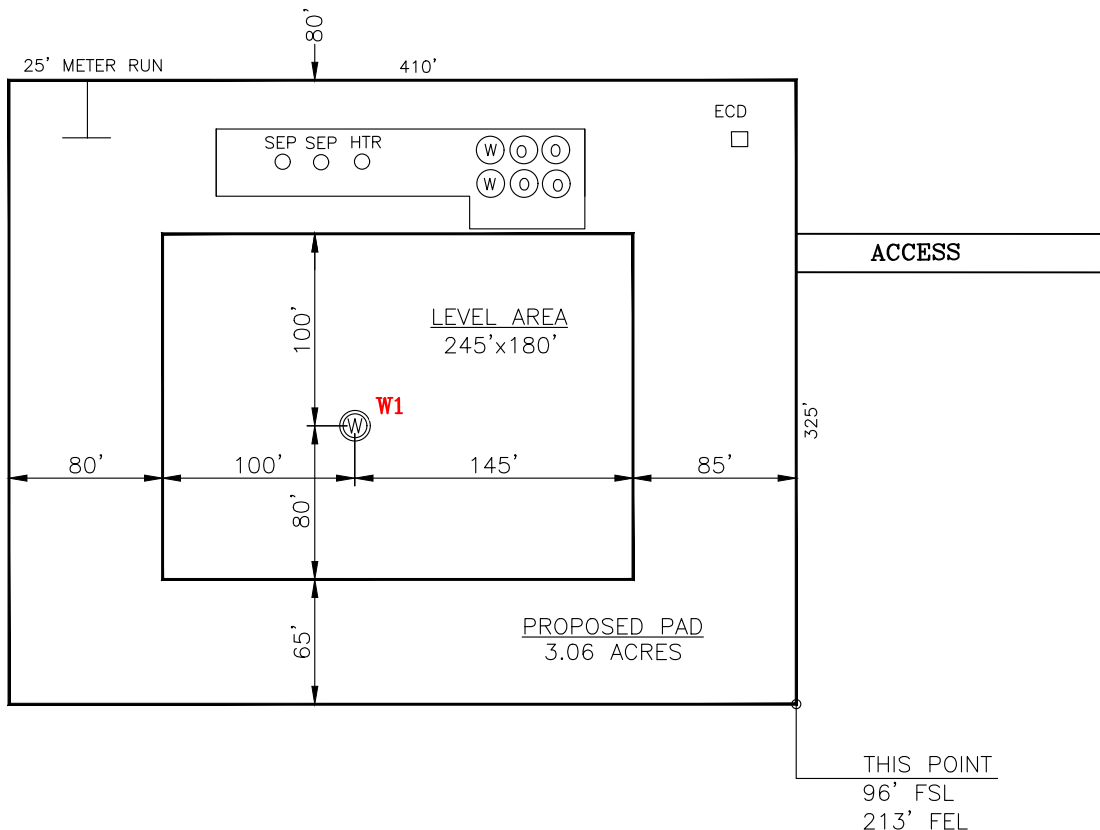
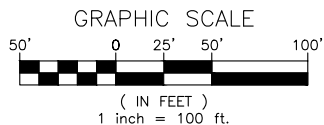
# PETRO LAND SERVICES SOUTH, LLC

10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318



CONTINENTAL  
RESOURCES, INC  
(OPERATOR)

GRADY County Oklahoma  
242' FSL-443' FEL Section 01 Township 07N Range 07W I.M.



CURRENT REV.: 1  
REV-1 05-01-18

DATUM: NAD-83  
LAT: 35°06'10.09"  
LONG: -97°53'00.02"  
LAT: 35.102803°  
LONG: -97.883338°

STATE PLANE  
COORDINATES  
(US FEET): OK SOUTH

X: 2003396  
Y: 643982

Operator: CONTINENTAL RESOURCES, INC.  
Lease Name: --  
Topography & Vegetation: Pasture  
Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set: No  
Best Accessibility to Location: From The East Line  
Distance & Direction From Hwy. or Town: Head east out of Chicasha, OK on SH-9 for 3.0 miles. Turn left on SH-92 and head north for 4.1 miles to the proposed access road on the west side of SH-92.

THE INFORMATION SHOWN HEREIN IS FOR  
CONSTRUCTION PURPOSES ONLY

LANDING POINT, BOTTOM HOLE AND DRILL PATH  
INFORMATION PROVIDED BY OPERATOR LISTED,  
NOT SURVEYED.

Well W1: ASH 1-1-36XHM  
Well W2: --

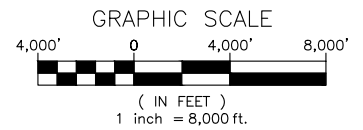
(This Information Was Gathered  
With a GPS Receiver With ±1  
Foot Horiz./Vert. Accuracy)

Certificate of Authorization No. 7318

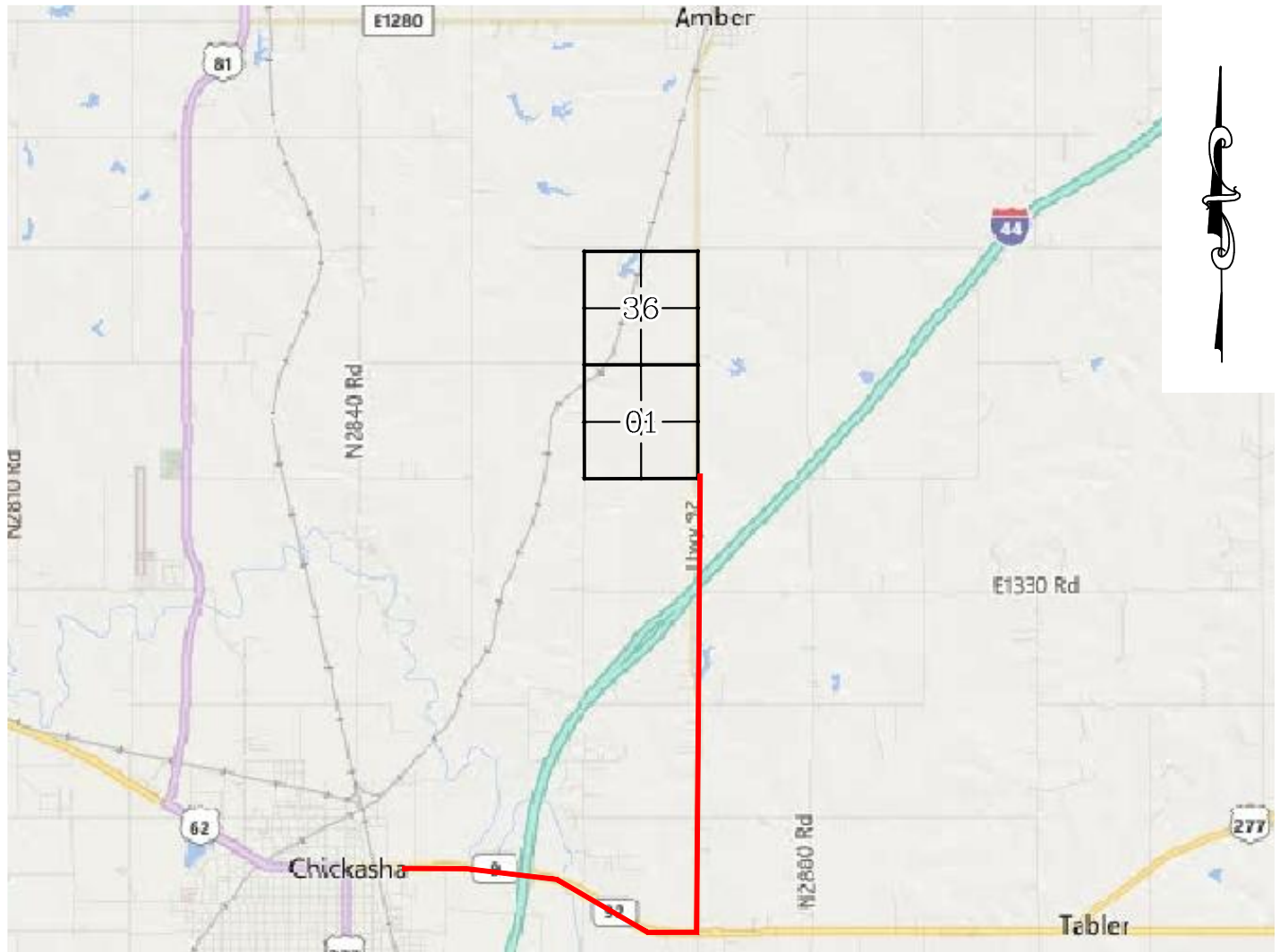


Prepared By:  
Petro Land Services South  
10400 Vineyard Blvd.  
Suite C  
Oklahoma City, OK 73120

EXHIBIT: C  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W



## VICINITY MAP



HEAD EAST OUT OF CHICKASHA, OK ON SH-9 FOR 3.0 MILES. TURN LEFT ON SH-92 AND HEAD NORTH FOR 4.1 MILES TO THE PROPOSED ACCESS ROAD ON THE WEST SIDE OF SH-92.

### CONTINENTAL RESOURCES, INC.

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

Certificate of Authorization No. 7318

Section 01 Township 07N Range 07W I.M. Well W1: ASH 1-1-36XHM

Date Staked: 04-24-18

County GRADY State OK Well W2: --



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

Operator CONTINENTAL RESOURCES, INC.

CURRENT REV.: 1



EXHIBIT: D  
 SHEET: 8.5x11  
 SHL: 01-07N-07W  
 BHL-1 36-08N-07W



WELL W1: ASH 1-1-36XHM  
 WELL W2: --

## FACING NORTH



## FACING SOUTH



CURRENT REV.: 1



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-1
DATE ISSUED:	04-25-18	SHEET:	1 OF 2



EXHIBIT: E  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W

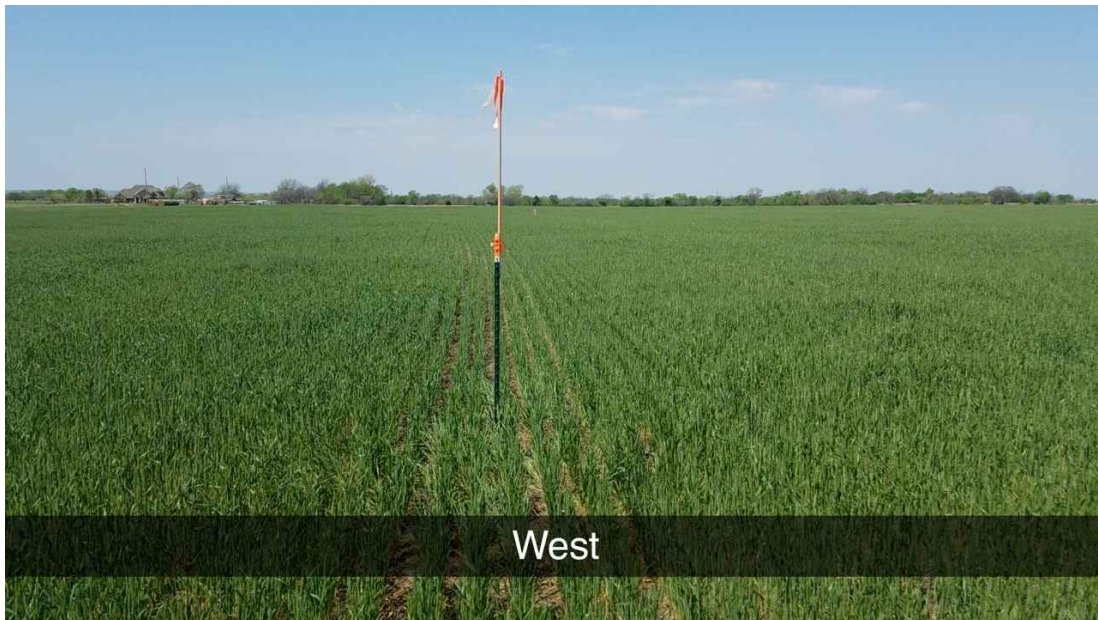


WELL W1: ASH 1-1-36XHM  
WELL W2: --

## FACING EAST



## FACING WEST



CURRENT REV.: 1



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:	04-25-18	SHEET:	2 OF 2

EXHIBIT: F  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W



WELL W1: ASH 1-1-36XHM  
WELL W2: --

PROPOSED ACCESS ROAD = 213' | 12.91 RODS (TOTAL)



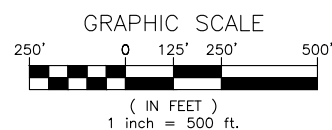
GPS DATUM - OK SOUTH ZONE  
US FEET SCALE: 1" = 500'

Section 01 Township 07N Range 07W I.M.

County GRADY State OK

Operator CONTINENTAL RESOURCES, INC.

THIS POINT  
96' FSL  
213' FEL



CURRENT REV.: 1  
REV-1 05-01-18



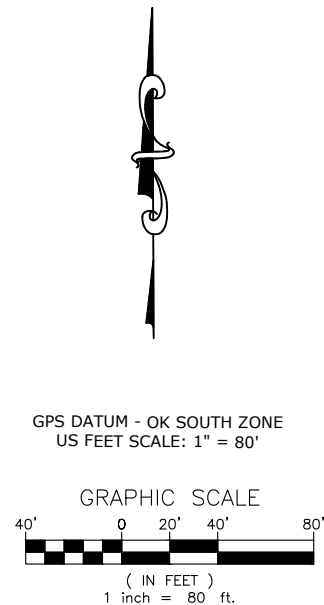
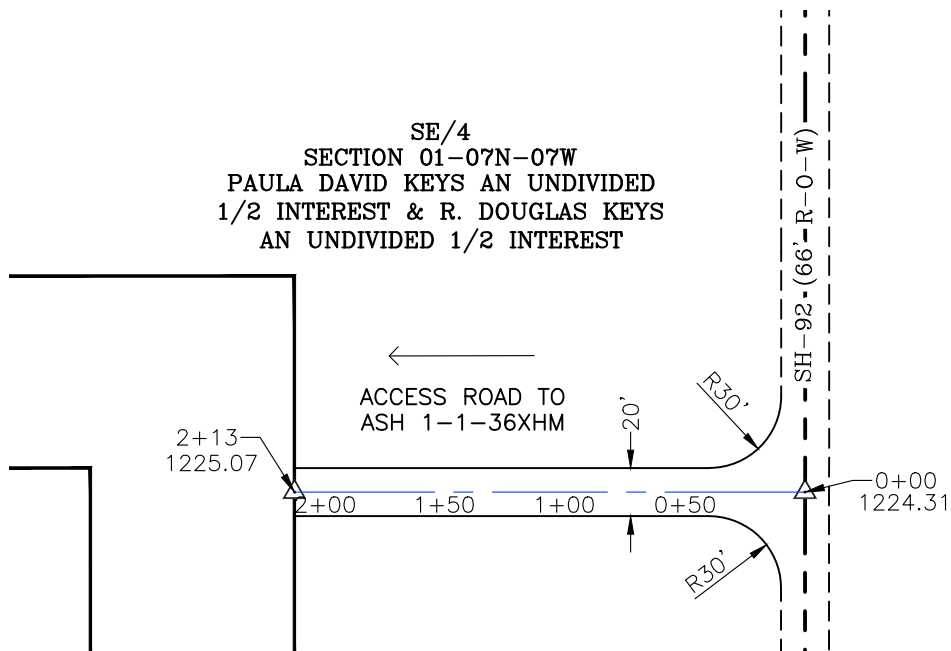
Prepared By:  
Petro Land Services South  
10400 Vineyard Blvd.  
Suite C  
Oklahoma City, OK 73120

## AERIAL PLAT

DRAWN BY:	TJW	SCALE:	1" = 500'
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	AERIAL-1
DATE ISSUED:	04-25-18	SHEET:	1 OF 4

EXHIBIT: G  
 SHEET: 8.5x11  
 SHL: 01-07N-07W  
 BHL-1 36-08N-07W

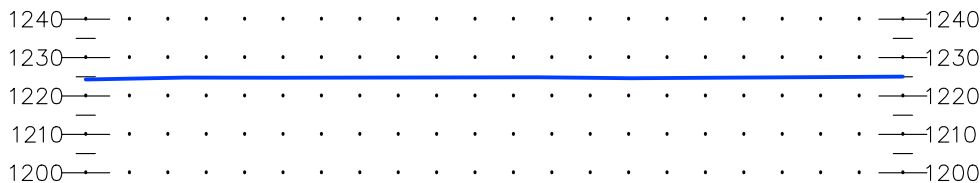
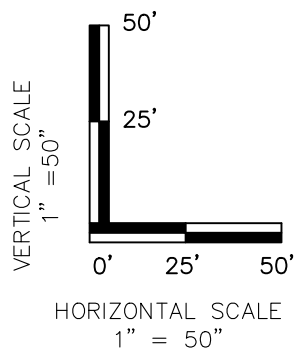
SE/4  
 SECTION 01-07N-07W  
 PAULA DAVID KEYS AN UNDIVIDED  
 1/2 INTEREST & R. DOUGLAS KEYS  
 AN UNDIVIDED 1/2 INTEREST



- \* THIS PROPOSED LEASE ROAD PLAT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.
- \* THE FOOTAGES AND TIES SHOWN HEREON ARE FROM LINES OF OCCUPATION AND MAY NOT BE FROM ACTUAL PROPERTY CORNERS.

Well W1: ASH 1-1-36XHM  
 Well W2: --

PROPOSED ACCESS ROAD = 213' | 12.91 RODS (TOTAL)



CURRENT REV.: 1  
 REV-1 05-01-18



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



P.O Box 26900  
 Oklahoma City  
 Oklahoma, 73126  
 (T) 1-800-256-8955  
 (F) 405-234-9253

LEASE ROAD  
 PLAN &  
 PROFILE

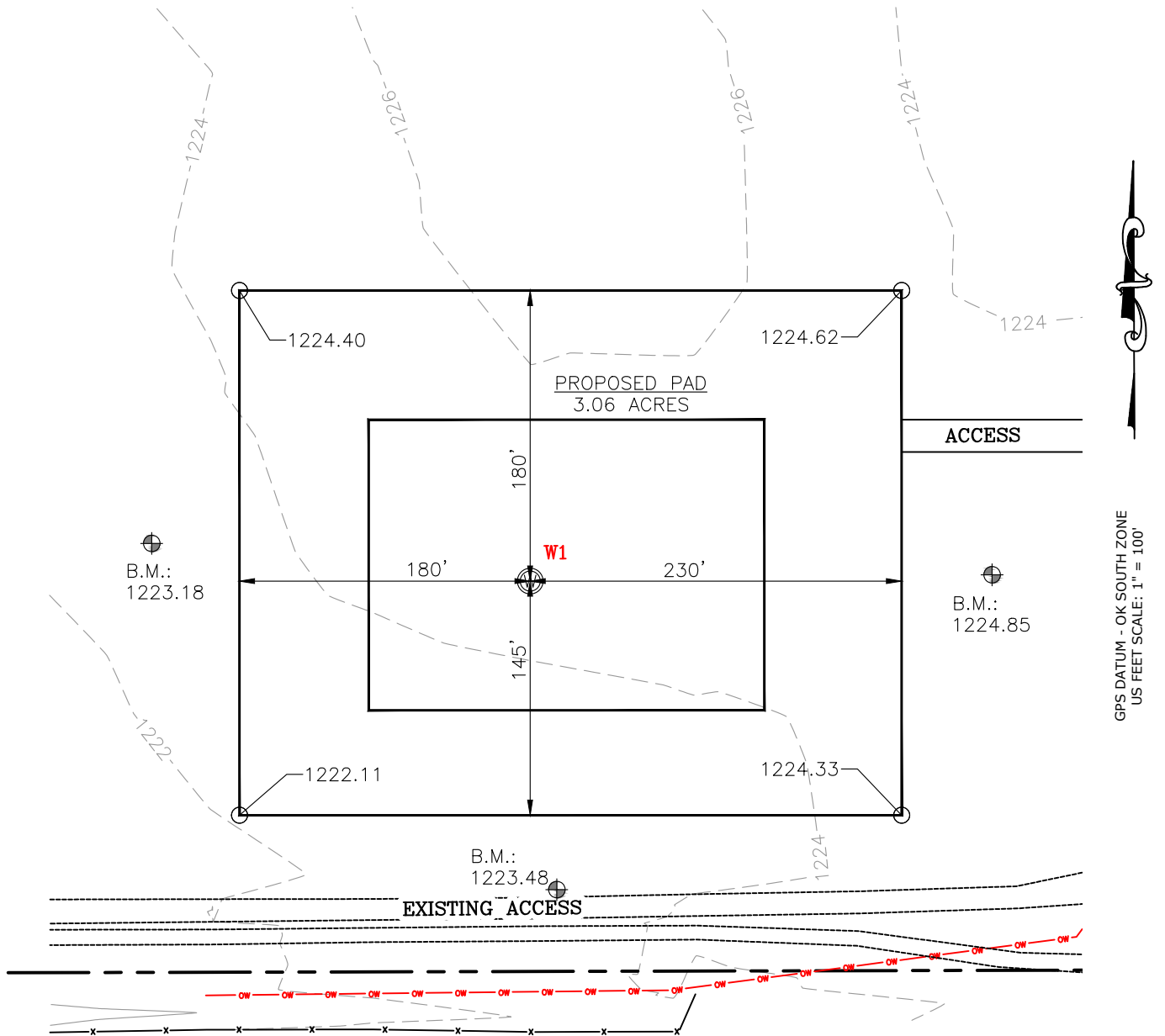
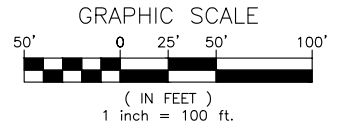
DRAWN BY:	TJW	SCALE:	AS NOTED
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	P&P
DATE ISSUED:	04-25-18	SHEET:	2 OF 4

EXHIBIT: H  
 SHEET: 8.5x11  
 SHL: 01-07N-07W  
 BHL-1 36-08N-07W



WELL W1: ASH 1-1-36XHM

WELL W2: --



CURRENT REV.: 1  
 REV-1 05-01-18



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

# EXISTING GRADING PLAN

DRAWN BY:	TJW	SCALE:	1" = 100'
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	EX-GR.
DATE ISSUED:	04-25-18	SHEET:	3 OF 4

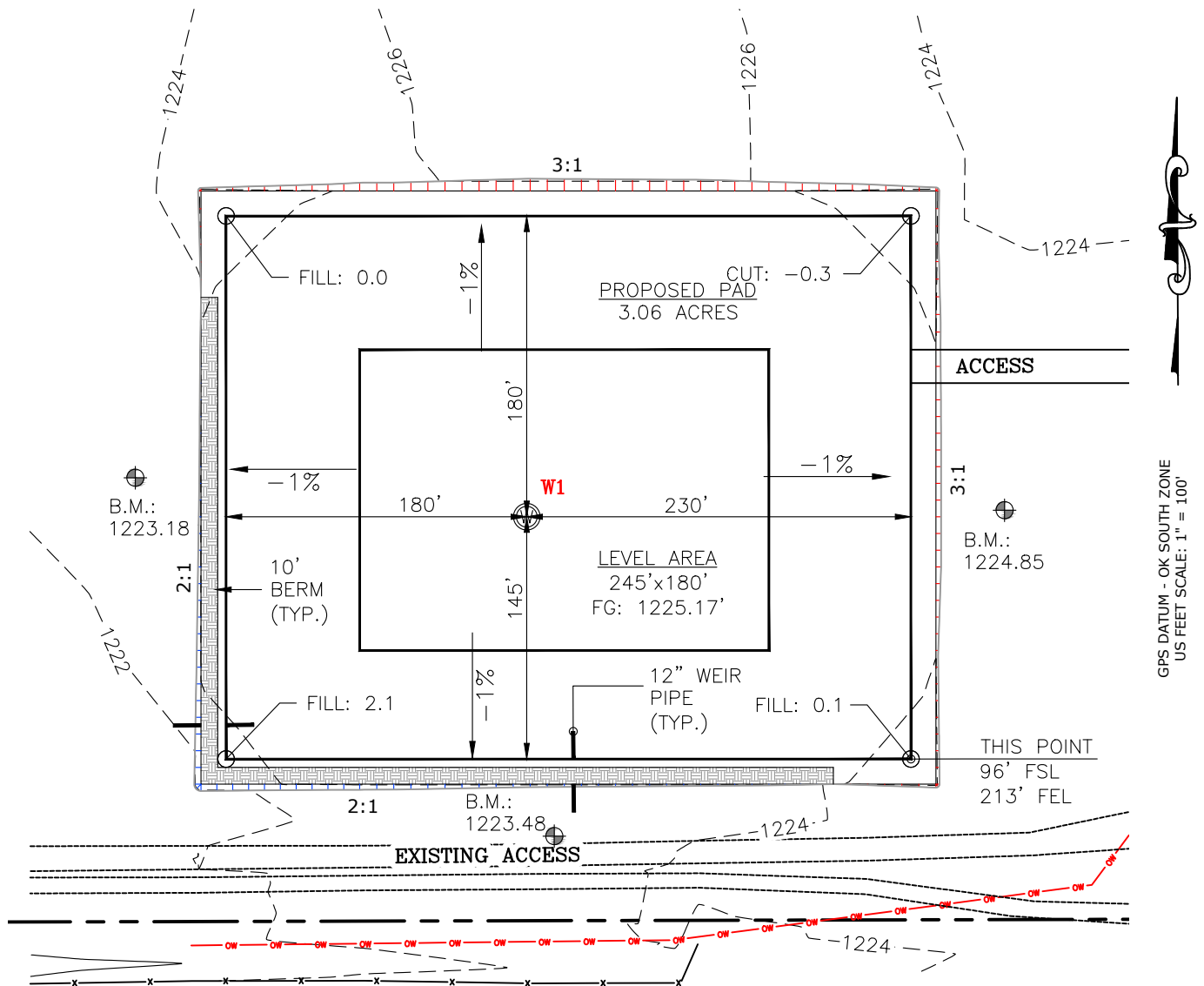


EXHIBIT: 1  
SHEET: 8.5x11  
SHL: 01-07N-07W  
BHL-1 36-08N-07W



WELL W1: ASH 1-1-36XHM  
WELL W2: --  
GRAPHIC SCALE  
50' 0 25' 50' 100'  
( IN FEET )  
1 inch = 100 ft.

TOTAL PROPOSED DISTURBED AREA: 3.69 ACRES



CUT VOLUME 4189.47 CU. YD. | 6" OF STRIPPED TOP SOIL: 2977.96 CU. YD.  
FILL VOLUME 4190.97 CU. YD. | BERM LENGTH: 660' (442.20 CU. YD.)  
(CUT/FILL VOLUMES INCLUDE 6" OF STRIPPED TOP SOIL)

CURRENT REV.: 1  
REV-1 05-01-18



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

## PROPOSED GRADING PLAN

DRAWN BY:	TJW	SCALE:	1" = 100'
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	PRO-GR.
DATE ISSUED:	04-25-18	SHEET:	4 OF 4