API NUMBER: 043 23730

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

Approval Date: 10/19/2021

Expiration Date: 04/19/2023

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 34 Township: 18N Range: 16W County	DEWEY
SPOT LOCATION: SW SE SW FEET FROM QUARTER: FROM SOUTH	FROM WEST
SECTION LINES: 220	1600
Lease Name: THE REPLACEMENT 18-16-34 Well No: 1H	Well will be 220 feet from nearest unit or lease boundary.
Operator Name: STAGHORN PETROLEUM II LLC Telephone: 918584	2558 OTC/OCC Number: 24056 0
OTAQUODNI DETDOLEUNALLU O	HIGHN FOX & PHOTY FOX
STAGHORN PETROLEUM II LLC	JUSTIN FOX & DUSTY FOX
1 W 3RD ST STE 1000	66972 N. 2280 ROAD
TULSA, OK 74103-3500	TALOGA OK 73667
Formation(s) (Permit Valid for Listed Formations Only):	
Name Code Depth	7
1 RED FORK 404RDFK 9020	
Specing Orders: ECC079	
Location Exception Ord	ers: 720545 Increased Density Orders: 720465
Pending CD Numbers: No Pending Working interest ow	ners' notified: *** Special Orders: No Special
•	: 1500 Depth to base of Treatable Water-Bearing FM: 160
Total Depth: 14830 Ground Elevation: 1821 Surface Casing	E 1500 Deptit to base of Treatable Water-Bearing FW. Too
	Deep surface casing has been approved
Under Federal Jurisdiction: No	Deep surface casing has been approved Approved Method for disposal of Drilling Fluids:
Fresh Water Supply Well Drilled: No	
	Approved Method for disposal of Drilling Fluids:
Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes	Approved Method for disposal of Drilling Fluids: D. One time land application (REQUIRES PERMIT) PERMIT NO: 21-37736 H. (Other) SEE MEMO
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HORIZONTAL HOLE 1

Section: 34 Township: 18N Range: 16W Meridian: IM Total Length: 5220

County: DEWEY Measured Total Depth: 14830

Spot Location of End Point: E2 NE NW NE True Vertical Depth: 9140

Feet From: NORTH 1/4 Section Line: 330 End Point Location from
Feet From: EAST 1/4 Section Line: 1334 Lease,Unit, or Property Line: 330

NOTES:						
Category	Description					
DEEP SURFACE CASING	[10/18/2021 - GC2] - 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	[10/18/2021 - GC2] - OCC 165:10-3-10 REQUIRES:					
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;					
	2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,					
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG					
INCREASED DENSITY - 720465	[10/19/2021 - G56] - 34-18N-16W X566973 RDFK 1 WELL STAGHORN PETROLEUM II, LLC 9/8/2021					
INTERMEDIATE CASING	[10/18/2021 - GC2] - 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					
LOCATION EXCEPTION - 720545	[10/19/2021 - G56] - (I.O.) 34-18N-16W X566973 RDFK COMPL INT NCT 330' FNL, NCT 330' FSL, NCT 660' FEL STAGHORN PETROLEUM II, LLC 9/13/2021					
МЕМО	[10/18/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT					
SPACING - 566973	[10/18/2021 - G56] - (640)(HOR) 34-18N-16W EST RDFK COMPL INT NCT 660' FB (COEXIST EXISTING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON- HORIZONTAL SPACING UNITS)					

Sec. 34-18N-16W I.M.

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: THE REPLACEMENT 18-16-34 1H

Surface Hole Location: 220' FSL - 1600' FWL Pad Elevation: 1821'

SW/4-SW/4-SE/4-SW/4 Section: 34 Township: 18N Range: 16W I.M.

Bottom Hole Location: 330' FNL - 1334' FEL

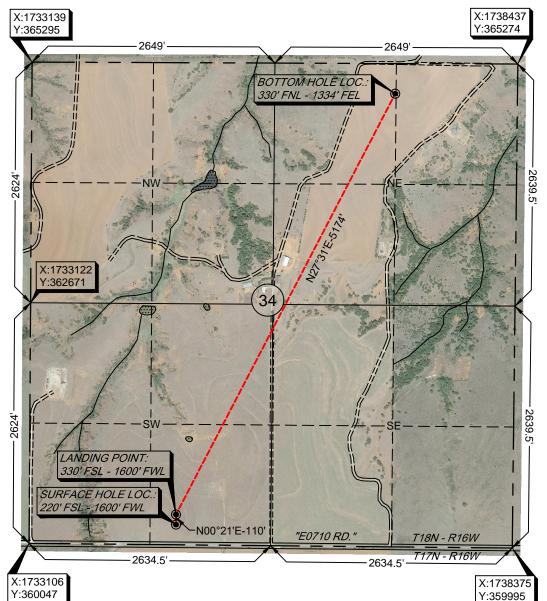
SE/4-NE/4-NW/4-NE/4 Section: 34 Township: 18N Range: 16W I.M.

County: Dewey State of Oklahoma

Terrain at Loc.: Location fell on existing level pad site.



1" = 1000'



GPS DATUM NAD 27 OK NORTH ZONE

Surface Hole Loc.: Lat: 35°59'10.73"N Lon: 98°53'48.15"W Lat: 35.98631525 Lon: -98.89670878 X: 1734708 Y: 360251

Landing Point: Lat: 35°59'11.82"N Lon: 98°53'48.16"W Lat: 35.98661745 Lon: -98.89670990 X: 1734708

Y: 360361 Bottom Hole Loc.: Lat: 35°59'57.42"N Lon: 98°53'19.58"W Lat: 35.99928229 Lon: -98.88877180

X: 1737099 Y: 364949

I rease note that his boundary was assessed in the ground under the his survey; it of a Licensede Professional Land Surveyor, but the accuracy of this survey; of a Licensed Professional Land Surveyor, and Mapping promptly any inconsistency; is determined. CPS data is observed from RTK - CPS - AVOTE: x and Y data shown hereon for Section Corners may NOT have be surveyed on-the-ground, and further, does NOT represent at the Boundary. Outside the section of the section

Survey and plat by:

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578

Expires June 30, 2022 V F Y | N G B M A P P | N G

Ph. 918-465-5711 Fax 918-465-5030 Certificate of Authorization No. 5348

Invoice #9453-A

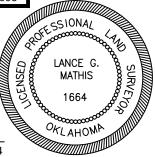
Date Staked: 10/14/2021 By: D.W. Date Drawn: 10/13/2021 By: R.M.

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

LANCE G. MATHIS

10/14/2021 OK LPLS 1664



Sec. 34-18N-16W I.M.

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: THE REPLACEMENT 18-16-34 1H

Surface Hole Location: 220' FSL - 1600' FWL Pad Elevation: 1821'

SW/4-SW/4-SE/4-SW/4 Section: 34 Township: 18N Range: 16W I.M.

Bottom Hole Location: 330' FNL - 1334' FEL

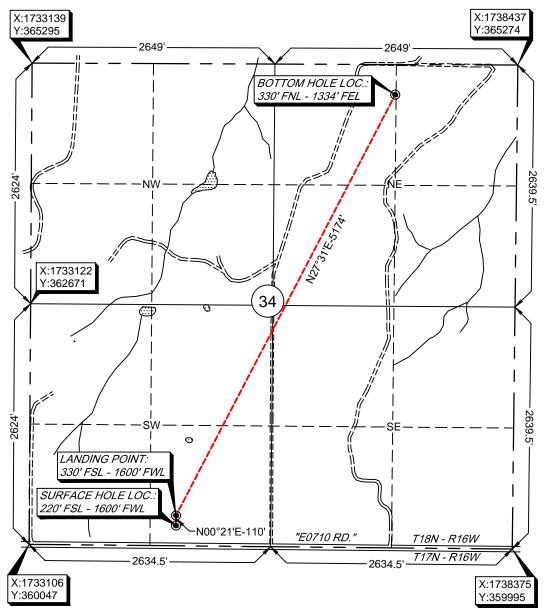
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County: Dewey State of Oklahoma

Terrain at Loc.: Location fell on existing level pad site.







GPS DATUM NAD 27 OK NORTH ZONE

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> or a Luchrised Protessional Land Surveyor, but the accuracy of it not guaranteed. Please contact Arkoma Surveying and Mapping any inconsistency is determined. GPS data is observed from RT -NOTE: X and Y data shown hereon for Section Conners may ke surveyed on-the-ground, and further, does NOT represent a true Quarter Section distances may be assumed from a Government assumed at a proportionate distance from poposing section comtrement a true boundance income.

Survey and plat by:

Arkoma Surveying and Mapping, PLLC P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348

Expires June 30, 2022

Invoice #9453-A

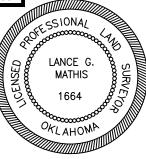
Date Staked: 10/14/2021 By: D.W. Date Drawn: 10/13/2021 By: R.M.

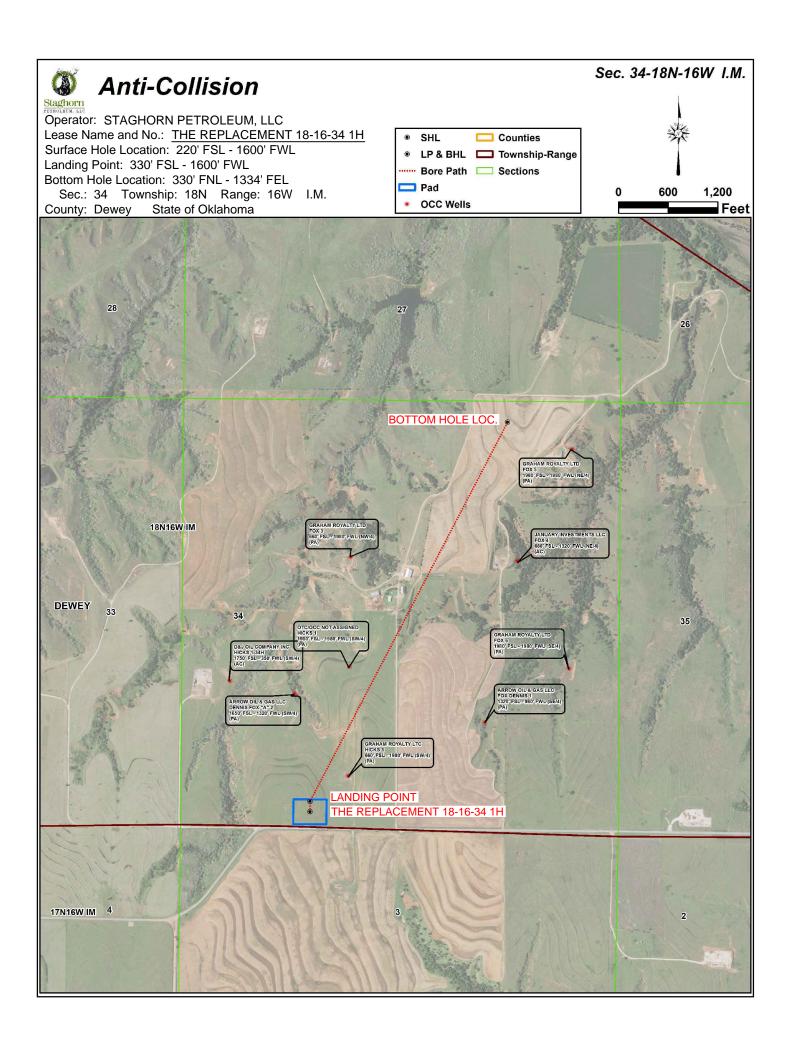
Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.



10/14/2021 OK LPLS 1664







Topographic Vicinity Map

Operator: STAGHORN PETROLEUM, LLC

Lease Name and No.: THE REPLACEMENT 18-16-34 1H

Surface Hole Location: 220' FSL - 1600' FWL

Landing Point: 330' FSL - 1600' FWL

Bottom Hole Location: 330' FNL - 1334' FEL

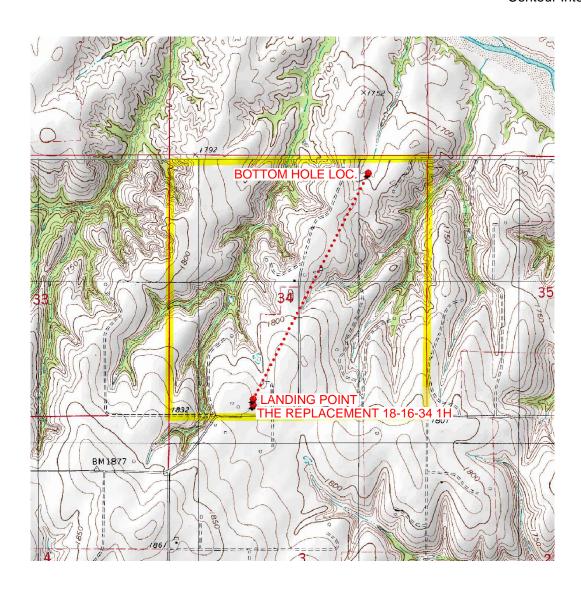
Sec.: 34 Township: 18N Range: 16W I.M.

County: Dewey State of Oklahoma

Ground Elevation at Surface Hole Location: 1821'



Scale 1" = 2000' Contour Interval: 10'



Provided by:

Arkoma Surveying and Mapping, PLLC

P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348

Expires June 30, 2022

Date Staked: 06/28/2021

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed.

Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined.

Coi	unty	High	way \	/icini	ty Ma	- ,	ghorn	18N15W IM	W IM	18N15W IM		IBN14W IM
Opera		AGHORN F and No.: <u>T</u>			NT 18-16-:	PETR	Note the state of					
Direction US Hig on US on "E0"	ons: From hway 270 Highway 2 710 Rd." 1	om the Sout the junction in Oakwood 270 for 4.0 m for 8.25 miles e of the road	n of"E740 f I, OK, go N niles, then (s, location	orthwest go West		provid Arkoma Surveying P.O. Box 238 Wil	burton, OK 74578 Fax 918-465-5030 orization No. 5348	17N16W IM	17N1SW IM	17WISW IM	Oak	Oakwo
9 395 Rd	10	11	12 F 6 70 F	7	8	9	10	11	12	7	8	9
16	15	14	13	18	17	16	15	14	13	18	17	16
Wilder.	22	18N16W I	М	E 680 Rd			1	7 11 2	- 4/6	E 680 Rd		-3
21	22	23	24	19	20	21	22	23	24	2	20 114W IM	21
12		The same of the sa	V	2	E 690 Rd	I8N15W II	И		* 410		- 1-44 1141	7
28 18N1	27 6W IM -	26	25	30	29	28 E 700	27	26 KM/FB	25	30	29	28
33	34 THE F	35 REPLACEME	36 NT 18-16-3	31 4 1H	32	33	34	35	25 SARTIS AG	31	32	33
4	3	ison 2	1	6	5	4	3	2	1	6	5	4
9	E 10 1750	11	12	7	8	9	10 1750 #	720 Rd	12	7	8	9
16 PA 2005	15	14	13	18	17	16	E 730 Rd	14	13	18	17	16
MY	Jane Daniel British	7N16W IM	18//2	TZA		1.4	17N1	5W IM	E74	Rd Rd		1
21	22	23	24	19	20	21	22	23	24	19 Rd	20 Oa 17N14W	kwo
28	27	26 ************************************	25	17N15 30	29	28	27	26	25	30	29	28
33	34	35	36	31	32	33	34	35	36	31	32	33
4	3	2	2-Rd	6	5	4	3	2	2 2 1	6	5	4
The same	1	6N16W IM	E-780 Rd		16N15V	V IM	1 1	0		161	114W IM	Rd
9	10	11	12	7	8	9	10	11	12	7	8	9
16	15	14	13	18	17	16	15	14	13	18	17	16