

Oklahoma Corporation Commission  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165: 10-3-25

Form 1002A

API No.: 35087221800000

**Completion Report**

Spud Date: October 21, 2018

OTC Prod. Unit No.:

Drilling Finished Date: November 11, 2018

1st Prod Date:

Completion Date: November 11, 2018

**Drill Type:** HORIZONTAL HOLE

Well Name: VAUGHN 6N 2W 29 1HX

Purchaser/Measurer:

Location: MCCLAIN 31 6N 2W  
NE NE NE NE  
246 FNL 185 FEL of 1/4 SEC  
Latitude: 34.95634047 Longitude: -97.44214912  
Derrick Elevation: 0 Ground Elevation: 1112

First Sales Date:

Operator: LIME ROCK RESOURCES IV-A LP 24419

1111 BAGBY ST STE 4600  
HOUSTON, TX 77002-2559

Completion Type		Location Exception		Increased Density	
	Single Zone	Order No		Order No	
	Multiple Zone	There are no Location Exception records to display.		There are no Increased Density records to display.	
	Commingled				

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20	94	X-42	110			
SURFACE	13 3/8	54.5	J-55	563		555	SURFACE
INTERMEDIATE	9 5/8	40	P-110	7086		825	1106

Liner								
Type	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
There are no Liner records to display.								

**Total Depth: 10252**

Packer	
Depth	Brand & Type
There are no Packer records to display.	

Plug	
Depth	Plug Type
6912	CEMENT TOP
7575	CEMENT BOTTOM

Initial Test Data
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Test Date	Formation	Oil BBL/Day	Oil-Gravity (API)	Gas MCF/Day	Gas-Oil Ratio Cu FT/BBL	Water BBL/Day	Pumpin or Flowing	Initial Shut- In Pressure	Choke Size	Flow Tubing Pressure
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There are no Initial Data records to display.

Completion and Test Data by Producing Formation

Formation Name: NONECode:Class: DRY

Spacing Orders		Perforated Intervals	
Order No	Unit Size	From	To
There are no Spacing Order records to display.		There are no Perf. Intervals records to display.	
Acid Volumes		Fracture Treatments	
N/A		N/A	

Formation	Top
GIBSON	6193
HOGSHOOTER	6281
HART	6314
WOODFORD	6604

Were open hole logs run? No  
Date last log run:  
  
Were unusual drilling circumstances encountered? Yes  
Explanation: THIS WELL WAS ORIGINALLY PERMITTED AND DRILLED BY BP AMERICA. DURING THE OPERATIONS, THE WELL EXPERIENCED DOWNHOLE COLLAPSE AND THE FISH WAS LEFT BELOW 7,575'. A CEMENT PLUG WAS SET FROM 6,912' - 7,575'. WE ARE EVALUATING THE WELL FOR FUTURE POTENTIAL.

Other Remarks
There are no Other Remarks.

Lateral Holes
Sec: 29 TWP: 6N RGE: 2W County: MCCLAIN  SE NW NW SW  2188 FSL 513 FWL of 1/4 SEC  Depth of Deviation: 7298 Radius of Turn: 8115 Direction: 1 Total Length: 2137  Measured Total Depth: 10252 True Vertical Depth: 7778 End Pt. Location From Release, Unit or Property Line: 513

FOR COMMISSION USE ONLY
<div>Status: Accepted</div> <div>1144774</div>

API NO. 35-087-22180  
OTC PROD.  
UNIT NO.

(PLEASE TYPE OR USE BLACK INK ONLY)

OKLAHOMA CORPORATION COMMISSION

Oil & Gas Conservation Division

Post Office Box 52000

Oklahoma City, Oklahoma 73152-2000

Rule 165:10-3-25

RECEIVED

Form 1002A

Rev. 2009

FEB 14 2020

☒ ORIGINAL  
☐ AMENDED (Reason)

COMPLETION REPORT

TYPE OF DRILLING OPERATION

☐ STRAIGHT HOLE ☐ DIRECTIONAL HOLE ☒ HORIZONTAL HOLE  
☐ SERVICE WELL

If directional or horizontal, see reverse for bottom hole location.

COUNTY McClain SEC 6N TWP 2W RGE 2S  
LEASE NAME Vaughn 6N 2W 29  
WELL NO. 1HX  
NE 1/4 NE 1/4 NE 1/4 NE 1/4 1/4 SEC 246FNL 1/4 SEC 185FEL  
ELEVATION Ground 1112 Latitude (if known) 34.9563405 Longitude (if known) -97.4421491  
OPERATOR NAME Lime Rock Resources IV-A, LP OTC / OCC OPERATOR NO. 24419  
ADDRESS 1111 Bagby St. Ste 4600 Attn: Regulatory  
CITY Houston STATE TX ZIP 77002

COMPLETION TYPE

☐ SINGLE ZONE  
☐ MULTIPLE ZONE  
☐ COMMINGLED  
☐ LOCATION EXCEPTION  
☐ ORDER NO.  
☐ INCREASED DENSITY  
☐ ORDER NO.

CASING & CEMENT (Attach Form 1002C)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
CONDUCTOR	20	94	X-42	110			
SURFACE	13 3/8	54.5	J-55	563		555	SURFACE
INTERMEDIATE	9 5/8	40	P-110	7,086		825	1,106
PRODUCTION							
LINER							

PACKER @ BRAND & TYPE PLUG @ 6912 TYPE cmt top PLUG @ 7575 TYPE cmt btm TOTAL DEPTH 10252 MD  
PACKER @ BRAND & TYPE PLUG @ TYPE PLUG @ TYPE

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Woodford						No Frac
SPACING & SPACING ORDER NUMBER	652167						
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc							
PERFORATED INTERVALS	NA Dry						
ACID/VOLUME	NA						
FRACTURE TREATMENT (Fluids/Prop Amounts)	NA						

Min Gas Allowable (165:10-17-7)

Gas Purchaser/Measurer

☐ OR  
Oil Allowable (165:10-13-3)

First Sales Date

NA

INITIAL TEST DATA

INITIAL TEST DATE	NA					
OIL-BBL/DAY						
OIL-GRAVITY (API)						
GAS-MCF/DAY						
GAS-OIL RATIO CU FT/BBL						
WATER-BBL/DAY						
PUMPING OR FLOWING						
INITIAL SHUT-IN PRESSURE						
CHOKE SIZE						
FLOW TUBING PRESSURE						

A record of the formations drilled through, and pertinent remarks are presented on the reverse. I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belief.

Deborah Marberry SIGNATURE NAME (PRINT OR TYPE) 2/12/2020 713-360-5834  
1111 Bagby St. Ste 4600 Attn: Regulatory Houston TX 77002 hc.dmarberry@limerockresources.com  
ADDRESS CITY STATE ZIP EMAIL ADDRESS

PLEASE TYPE OR USE BLACK INK ONLY  
FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

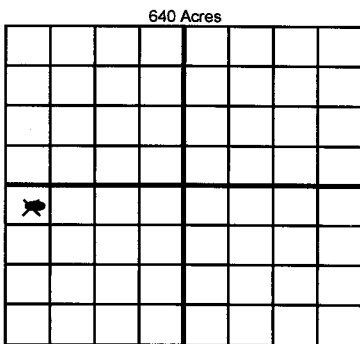
LEASE NAME Vaughn 6N 2W 29 WELL NO. 1HX

NAMES OF FORMATIONS	TOP
Hogshooter	6,281
Gibson	6,193
Hart	6314
Woodford	6,604

FOR COMMISSION USE ONLY	
ITD on file <input type="checkbox"/> YES <input type="checkbox"/> NO	
APPROVED _____	DISAPPROVED _____
2) Reject Codes	
_____	
_____	
_____	
_____	

Were open hole logs run?	_____ yes <input checked="" type="checkbox"/> no
Date Last log was run	_____
Was CO <sub>2</sub> encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Was H <sub>2</sub> S encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Were unusual drilling circumstances encountered?	_____ <input checked="" type="checkbox"/> yes _____ no
If yes, briefly explain below	

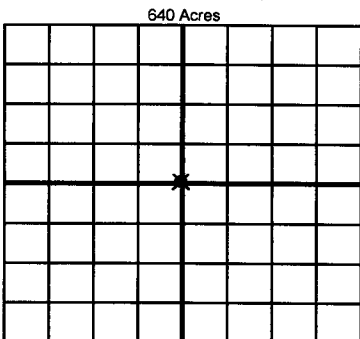
Other remarks: This well was originalled permitted and drilled by BP America. During the operations the well experienced downhole collapse and the fish was left below 7575'. A cement plug was set from 6912-7575'. We are evaluating the well for future potential.



If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth. Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.



BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

LATERAL #1			
SEC	TWP	RGE	COUNTY
29	6N	2W	McClain
Spot Location	SE 1/4	NW 1/4	SW 1/4
Depth of Deviation	7,298	Radius of Turn	8115
Measured Total Depth	10,252	True Vertical Depth	7,778
Direction		North	
Total Length		2,137	
BHL From Lease, Unit, or Property Line: 2188 FSL & 513 FWL			

LATERAL #2			
SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

LATERAL #3			
SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

Image @ 1002A



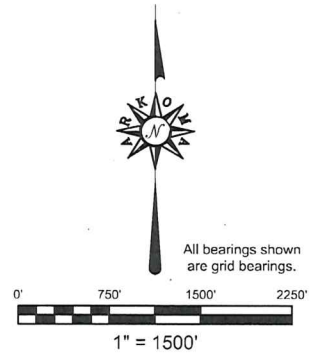
# Well Location Plat - As-Drilled

S.H.L. Sec. 31-6N-2W I.M.  
B.H.L. Sec. 29-6N-2W I.M.

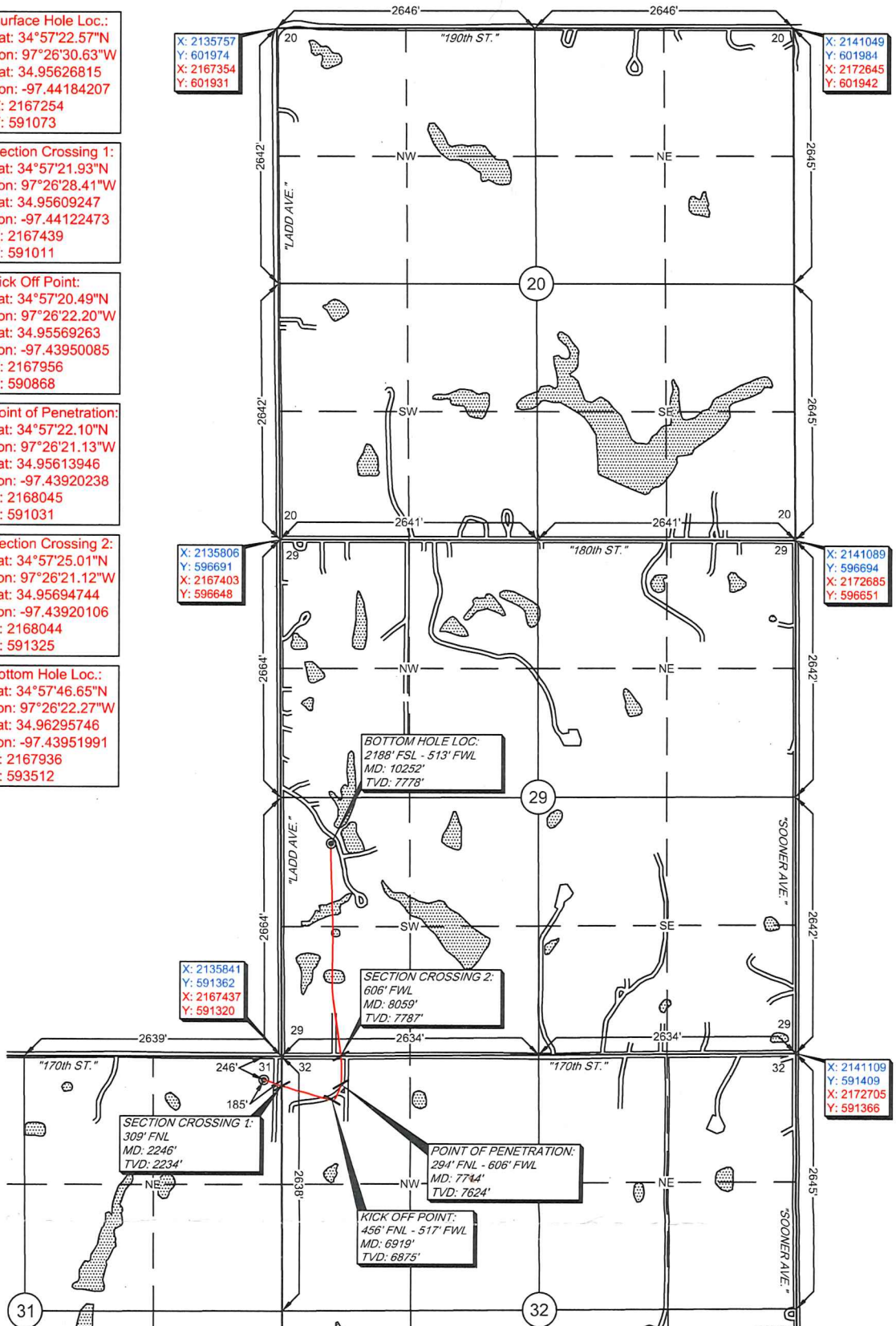
Operator: LIME ROCK RESOURCES  
Lease Name and No.: VAUGHN 6N 2W 29 1HX  
Footage: 246' FNL - 185' FEL Gr. Elevation: 1112'  
Section: 31 Township: 6N Range: 2W I.M.  
County: McClain State of Oklahoma  
Terrain at Loc.: Location fell in an open pasture, South and West of an existing fence and West of a two-track road.

GPS DATUM  
NAD 83  
NAD 27  
OK SOUTH ZONE

-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 Arkoma Surveying and Mapping 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.



Surface Hole Loc.: Lat: 34°57'22.83"N Lon: 97°26'31.74"W Lat: 34.95634047 Lon: -97.44214912 X: 2135658 Y: 591116	Surface Hole Loc.: Lat: 34°57'22.57"N Lon: 97°26'30.63"W Lat: 34.95626815 Lon: -97.44184207 X: 2167254 Y: 591073
Section Crossing 1: Lat: 34°57'22.19"N Lon: 97°26'29.51"W Lat: 34.95616479 Lon: -97.44153176 X: 2135843 Y: 591053	Section Crossing 1: Lat: 34°57'21.93"N Lon: 97°26'28.41"W Lat: 34.95609247 Lon: -97.44122473 X: 2167439 Y: 591011
Kick Off Point: Lat: 34°57'20.75"N Lon: 97°26'23.31"W Lat: 34.95576502 Lon: -97.43980787 X: 2136360 Y: 590911	Kick Off Point: Lat: 34°57'20.49"N Lon: 97°26'22.20"W Lat: 34.95569263 Lon: -97.43950085 X: 2167956 Y: 590868
Point of Penetration: Lat: 34°57'22.36"N Lon: 97°26'22.23"W Lat: 34.95621180 Lon: -97.43950938 X: 2136449 Y: 591074	Point of Penetration: Lat: 34°57'22.10"N Lon: 97°26'21.13"W Lat: 34.95613946 Lon: -97.43920238 X: 2168045 Y: 591031
Section Crossing 2: Lat: 34°57'25.27"N Lon: 97°26'22.23"W Lat: 34.95701976 Lon: -97.43950807 X: 2136448 Y: 591368	Section Crossing 2: Lat: 34°57'25.01"N Lon: 97°26'21.12"W Lat: 34.95694744 Lon: -97.43920106 X: 2168044 Y: 591325
Bottom Hole Loc.: Lat: 34°57'46.91"N Lon: 97°26'23.38"W Lat: 34.96302963 Lon: -97.43982698 X: 2136340 Y: 593555	Bottom Hole Loc.: Lat: 34°57'46.65"N Lon: 97°26'22.27"W Lat: 34.96295746 Lon: -97.43951991 X: 2167936 Y: 593512



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, 2020

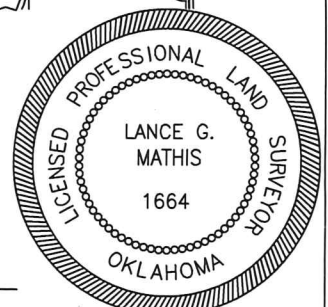
Invoice #8078-B-AD  
Date Staked: 09/19/18 By: M.G.  
Date Drawn: 09/21/18 By: J.K.  
Added As-Drilled: 02/07/2020 By: S.S.

## 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 OK LPLS 1664

02/12/20



# CEMENTING REPORT

Form 1002C  
Rev. 2012

API No.  
**087-22180**

OKLAHOMA CORPORATION COMMISSION  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
OAC 165:10-3-4(i)

This form shall be filed with the Completion Report, (Form 1002A). The signature on this statement must be that of qualified employees of the cementing company and operator to demonstrate compliance with OAC 165:10-3-4(i). It may be advisable to take a copy of this form to location when cementing work is performed.

## TYPE OR USE BLACK INK ONLY

*Operator <b>BP AMERICA PROD CO - NAG</b>		OCC/OTC <b>24419</b>
*Well Name/No. <b>VAUGHN 6N 2W 29 1HX</b>		County <b>MCCLAIN</b>
*Location <b>NE 1/4 NE 1/4 NE 1/4 NE 1/4</b>	Sec <b>31</b> <del>8N</del>	Twp <b>2W (6N)</b> Rge <b>28 (2W)</b>

Cement Casing Data	Conductor Casing	Surface Casing	Alternative Casing	Intermediate Casing	Production String	Liner
Cementing Date		10/22/18				
*Size of Drill Bit (Inches)		17.5"				
*Estimated % wash or hole enlargement used in calculations		80%				
*Size of Casing (inches O.D.)		13.375"				
*Top of Liner (if liner used) (ft.)		N/A				
*Setting Depth of Casing (ft.) from ground level		533'	563' KB Elevation			
Type of Cement (API Class)		CLASS A				
In first (lead) or only slurry						
In second slurry		N/A				
In third slurry		N/A				
Sacks of Cement Used		555 SACKS				
In first (lead) or only slurry						
In second slurry		N/A				
In third slurry		N/A				
Vol of slurry pumped (Cu ft)(14.X15.)		740.37 FT3				
In first (lead) or only slurry						
In second slurry		N/A				
In third slurry		N/A				
Calculated Annular Height of Cement behind pipe (ft)		533'				
Cement left in pipe (ft)		43.08'				

\*Amount of Surface Casing Required (from Form 1000) \_\_\_\_\_ ft.

*Was cement circulated to Ground Surface? <u>  X  </u> Yes <u>      </u> No	*Was Cement Staging Tool (DV Tool) used? <u>      </u> Yes <u>  X  </u> No
*Was Cement Bond Log run? <u>      </u> Yes <u>  X  </u> No (If so, Attach Copy)	*If Yes, at what depth? <u>      </u> N/A <u>      </u> ft

**CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE OF FORM**

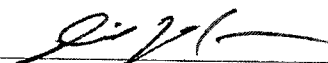
\* Designates items to be completed by Operator.  
Items **not** so designated shall be completed by the Cementing Company.

Remarks
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*Remarks
----------

### CEMENTING COMPANY

I declare under applicable Corporation Commission rule, that I am authorized to make certification, that the cementing of casing in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.



Signature of Cementor or Authorized Representative

### OPERATOR

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented herein.



Signature of Operator or Authorized Representative

Name & Title (Printed or Typed)		RICHARD IVAN MAURER SERVICE SUPERVISOR	
Cementing Company		Halliburton Energy Services	
Address		215 E. BOIS D'ARC	
City		DUNCAN	
State	OK	Zip	73533
Telephone (AC) Number		580-251-2800	
Date		OCT. 22, 2018	

Name & Title (Printed or Typed)			
*Operator		BP AMERICA PROD CO - NAG	
*Address		PO BOX 696494	
*City		SAN ANTONIO	
*State	TX	*Zip	78269-6494
Telephone (AC) Number			
*Date		OCT. 22, 2018	

### INSTRUCTIONS

1. A) This form shall be filed by the operator, at the O.C.C. office in Oklahoma City, with the Completion Report (Form 1002A) for a producing well or a dry hole.  
 B) An original of this form shall be filed with the Completion Report, (Form 1002A), for each cementing company used on a well.  
 C) The cementing of different casing strings on a well by one cementing company may be consolidated on one form.
2. Cementing Company and Operator shall comply with the applicable portions of OAC 165:10-3-4.
3. Set surface casing 50 feet below depth of treatable water to be protected and cement from casing shoe to ground surface or as allowed by OAC 165:10-3-4.

# CEMENTING REPORT

Form 1002C  
Rev. 2012

API No.  
**35-087-22180-00**

OKLAHOMA CORPORATION COMMISSION  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
OAC 165:10-3-4(i)

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## TYPE OR USE BLACK INK ONLY

*Operator <b>BP AMERICA PROD CO - NAG</b>	OCC/OTC <b>24419</b>
*Well Name/No. <b>VAUGHN 6N 2W -29- 1HX</b>	County <b>MC CLAIN</b>
*Location <b>NE 1/4 NE 1/4 NE 1/4 NE 1/4</b>	Sec <b>31</b> Twp <b>6N</b> Rge <b>2W</b>

Cement Casing Data	Conductor Casing	Surface Casing	Alternative Casing	Intermediate Casing	Production String	Liner
Cementing Date				11/01/18		
*Size of Drill Bit (Inches)				12 1/4"		
*Estimated % wash or hole enlargement used in calculations				15		
*Size of Casing (inches O.D.)				9 5/8"		
*Top of Liner (if liner used) (ft.)						
*Setting Depth of Casing (ft.) from ground level				7056'	7086 KB	
Type of Cement (API Class)				A		
In first (lead) or only slurry				A		
In second slurry				A		
In third slurry						
Sacks of Cement Used				570		
In first (lead) or only slurry				255		
In second slurry						
In third slurry						
Vol of slurry pumped (Cu ft)(14.X15.)				1570		
In first (lead) or only slurry				329		
In second slurry						
In third slurry						
Calculated Annular Height of Cement behind pipe (ft)				5950'		
Cement left in pipe (ft)				96'		

\*Amount of Surface Casing Required (from Form 1000) \_\_\_\_\_ ft.


*Was cement circulated to Ground Surface?    Yes <input checked="" type="checkbox"/> No	*Was Cement Staging Tool (DV Tool) used?    Yes    No
*Was Cement Bond Log run?    Yes    No    (If so, Attach Copy)	*If Yes, at what depth? _____ ft

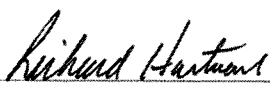
**CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE OF FORM**

\* Designates items to be completed by Operator.  
Items **not** so designated shall be completed by the Cementing Company.

Remarks
---------

*Remarks
----------

CEMENTING COMPANY
I declare under applicable Corporation Commission rule, that I am authorized to make certification, that the cementing of casing in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.
 Signature of Cementer or Authorized Representative

OPERATOR
I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented herein.
 Signature of Operator or Authorized Representative

Name & Title (Printed or Typed)	JASON MILLER, SERVICE SUPERVISOR		
Cementing Company	Halliburton Energy Services		
Address	6100 E. HWY. 66		
City	EL RENO		
State	OK	Zip	73036
Telephone (AC) Number	580-251-2800		
Date	11/01/18		

Name & Title (Printed or Typed)	Richard Hartman		
*Operator	BP AMERICA PROD CO - NAG		
*Address	PO BOX 696494		
*City	SAN ANTONIO		
*State	TX	*Zip	78269-6494
Telephone (AC) Number			
*Date	11/01/18		

#### INSTRUCTIONS

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3. Set surface casing 50 feet below depth of treatable water to be protected and cement from casing shoe to ground surface or as allowed by OAC 165:10-3-4.

BP America, Inc							
Vaughn 6N-2W-29 1HX							
Cactus 134							
API #: 35-087-22180							
Depth	Inc	Azi	TVD	N/S	E/W	Vertical Sec	DLS
607.00	0.72	103.23	606.98	-0.87	3.70	-0.87	0.12
699.00	2.37	103.23	698.95	-1.44	6.11	-1.44	1.79
792.00	4.45	104.53	791.78	-2.78	11.48	-2.78	2.24
883.00	5.68	109.34	882.42	-5.16	19.15	-5.16	1.43
978.00	6.62	107.75	976.87	-8.39	28.80	-8.39	1.00
1073.00	7.19	107.74	1071.18	-11.87	39.67	-11.87	0.60
1167.00	7.67	108.35	1164.39	-15.64	51.23	-15.64	0.52
1261.00	8.79	110.34	1257.43	-20.11	63.92	-20.11	1.23
1355.00	9.54	110.73	1350.22	-25.36	77.94	-25.36	0.79
1450.00	8.04	109.06	1444.11	-30.32	91.58	-30.32	1.60
1544.00	7.43	110.35	1537.25	-34.58	103.50	-34.58	0.67
1639.00	8.29	111.69	1631.36	-39.25	115.62	-39.25	0.93
1734.00	7.32	110.63	1725.47	-43.91	127.65	-43.91	1.04
1829.00	6.37	109.44	1819.80	-47.80	138.29	-47.80	1.01
1924.00	7.07	108.21	1914.14	-51.38	148.81	-51.38	0.76
2017.00	6.80	109.66	2006.46	-55.02	159.44	-55.02	0.35
2112.00	6.49	107.29	2100.82	-58.51	169.86	-58.51	0.43
2206.00	7.07	104.96	2194.17	-61.59	180.52	-61.59	0.69
2301.00	7.29	105.85	2288.42	-64.74	191.97	-64.74	0.26
2396.00	7.71	102.75	2382.61	-67.79	203.99	-67.79	0.61
2491.00	6.89	106.09	2476.84	-70.78	215.67	-70.78	0.97
2585.00	6.29	108.34	2570.22	-73.96	225.98	-73.96	0.69
2680.00	6.38	109.15	2664.64	-77.33	235.91	-77.33	0.13
2775.00	6.58	107.89	2759.03	-80.74	246.08	-80.74	0.25
2869.00	6.56	109.71	2852.41	-84.20	256.26	-84.20	0.22
2963.00	7.20	109.47	2945.73	-87.98	266.88	-87.98	0.68
3057.00	7.21	110.19	3038.99	-91.98	277.97	-91.98	0.10
3151.00	7.02	109.73	3132.27	-95.96	288.92	-95.96	0.21
3245.00	7.07	109.47	3225.56	-99.83	299.78	-99.83	0.06
3340.00	6.94	106.63	3319.85	-103.42	310.80	-103.42	0.39
3435.00	6.88	105.11	3414.16	-106.55	321.80	-106.55	0.20
3529.00	7.00	103.93	3507.47	-109.39	332.80	-109.39	0.20
3623.00	6.71	103.02	3600.79	-112.01	343.71	-112.01	0.33
3717.00	6.59	101.24	3694.16	-114.30	354.35	-114.30	0.26
3812.00	6.72	100.24	3788.52	-116.35	365.16	-116.35	0.19
3907.00	6.07	99.32	3882.93	-118.15	375.59	-118.15	0.69
4002.00	6.22	102.44	3977.38	-120.07	385.58	-120.07	0.39
4096.00	6.39	101.48	4070.81	-122.21	395.69	-122.21	0.21
4191.00	6.46	108.90	4165.22	-125.00	405.93	-125.00	0.88
4285.00	6.11	112.87	4258.65	-128.66	415.54	-128.66	0.59
4378.00	6.00	110.27	4351.14	-132.26	424.66	-132.26	0.32
4474.00	6.66	106.32	4446.55	-135.57	434.71	-135.57	0.82

4569.00	6.23	103.79	4540.95	-138.34	445.00	-138.34	0.54
4664.00	6.99	102.20	4635.32	-140.79	455.66	-140.79	0.83
4759.00	7.49	107.92	4729.56	-143.92	467.20	-143.92	0.92
4853.00	7.41	110.69	4822.77	-147.95	478.70	-147.95	0.39
4948.00	7.80	108.52	4916.93	-152.16	490.54	-152.16	0.51
5042.00	6.76	108.09	5010.17	-155.90	501.85	-155.90	1.10
5136.00	7.14	106.93	5103.48	-159.32	512.70	-159.32	0.43
5232.00	8.03	104.52	5198.64	-162.74	524.90	-162.74	0.99
5326.00	7.53	102.65	5291.78	-165.74	537.27	-165.74	0.60
5421.00	7.54	103.40	5385.96	-168.54	549.41	-168.54	0.10
5516.00	7.82	107.53	5480.10	-171.93	561.63	-171.93	0.65
5611.00	7.48	107.03	5574.26	-175.69	573.71	-175.69	0.36
5706.00	7.81	109.29	5668.41	-179.63	585.72	-179.63	0.47
5800.00	7.40	107.76	5761.59	-183.59	597.51	-183.59	0.49
5894.00	5.66	101.61	5854.97	-186.37	607.83	-186.37	1.99
5989.00	5.89	100.45	5949.49	-188.20	617.21	-188.20	0.27
6084.00	6.55	101.96	6043.93	-190.21	627.30	-190.21	0.71
6179.00	6.51	104.90	6138.32	-192.71	637.80	-192.71	0.35
6273.00	6.10	103.97	6231.75	-195.29	647.80	-195.29	0.45
6368.00	5.65	103.12	6326.25	-197.57	657.25	-197.57	0.48
6462.00	5.43	104.24	6419.81	-199.71	666.07	-199.71	0.26
6557.00	5.03	101.60	6514.41	-201.66	674.51	-201.66	0.49
6652.00	4.72	99.72	6609.07	-203.15	682.44	-203.15	0.37
6747.00	4.36	96.54	6703.77	-204.22	689.88	-204.22	0.46
6841.00	4.35	95.47	6797.50	-204.97	696.98	-204.97	0.09
6936.00	4.12	96.13	6892.24	-205.68	703.96	-205.68	0.25
7031.00	3.65	96.43	6987.02	-206.38	710.36	-206.38	0.50
7043.00	3.66	95.45	6999.00	-206.46	711.12	-206.46	0.53
7141.00	3.63	87.16	7096.80	-206.61	717.34	-206.61	0.54
7173.00	3.69	86.69	7128.72	-206.50	719.58	-206.50	0.53
7204.00	3.43	85.81	7159.67	-206.37	721.30	-206.37	0.87
7235.00	3.69	75.62	7190.61	-206.06	723.19	-206.06	2.21
7267.00	5.01	48.20	7222.53	-204.87	725.23	-204.87	7.58
7298.00	6.68	37.12	7253.36	-202.53	727.33	-202.53	6.48
7330.00	9.02	32.78	7285.06	-198.94	729.81	-198.94	7.53
7361.00	10.70	29.10	7315.60	-194.38	732.53	-194.38	5.80
7393.00	14.10	28.21	7346.85	-188.35	735.81	-188.35	10.62
7424.00	17.79	28.03	7376.65	-180.83	739.83	-180.83	11.93
7456.00	21.62	26.88	7406.78	-171.26	744.79	-171.26	12.00
7487.00	25.77	25.83	7435.16	-160.09	750.31	-160.09	13.47
7519.00	28.34	24.68	7463.65	-146.93	756.51	-146.93	8.19
7550.00	31.29	23.56	7490.55	-132.86	762.80	-132.86	9.69
7581.00	32.45	22.10	7516.87	-117.77	769.15	-117.77	4.50
7612.00	32.99	20.47	7542.95	-102.16	775.23	-102.16	3.33
7643.00	35.04	17.21	7568.65	-85.75	780.81	-85.75	8.84
7675.00	38.64	14.03	7594.26	-67.27	785.96	-67.27	12.75
7706.00	41.58	11.36	7617.97	-47.79	790.33	-47.79	10.96
7737.00	44.24	7.96	7640.67	-26.99	793.86	-26.99	11.37
7769.00	46.83	5.25	7663.09	-4.31	796.47	-4.31	10.11

7800.00	49.42	2.38	7683.78	18.71	797.99	18.71	10.83
7832.00	53.69	0.45	7703.68	43.76	798.60	43.76	14.16
7863.00	57.95	359.84	7721.09	69.40	798.66	69.40	13.83
7895.00	61.79	358.94	7737.15	97.07	798.36	97.07	12.26
7926.00	65.34	359.28	7750.95	124.82	797.93	124.82	11.47
7958.00	69.46	358.21	7763.24	154.35	797.28	154.35	13.25
7989.00	73.58	356.23	7773.07	183.71	795.84	183.71	14.60
8020.00	77.87	355.23	7780.71	213.66	793.61	213.66	14.19
8052.00	82.13	354.24	7786.27	245.03	790.71	245.03	13.66
8084.00	86.48	353.41	7789.44	276.68	787.29	276.68	13.84
8115.00	89.32	353.16	7790.58	307.45	783.66	307.45	9.21
8146.00	90.43	352.67	7790.64	338.21	779.84	338.21	3.91
8178.00	91.11	352.00	7790.21	369.92	775.57	369.92	2.98
8273.00	90.56	351.26	7788.83	463.90	761.74	463.90	0.97
8368.00	91.94	351.64	7786.77	557.82	747.62	557.82	1.51
8461.00	89.94	352.30	7785.24	649.89	734.63	649.89	2.27
8557.00	90.12	352.76	7785.19	745.07	722.15	745.07	0.51
8651.00	89.63	353.16	7785.39	838.36	710.63	838.36	0.68
8745.00	89.57	357.50	7786.05	932.02	702.97	932.02	4.61
8839.00	90.00	0.16	7786.41	1026.00	701.05	1026.00	2.87
8934.00	90.52	1.51	7785.97	1120.98	702.44	1120.98	1.53
9029.00	89.94	359.69	7785.59	1215.97	703.44	1215.97	2.02
9124.00	90.55	0.86	7785.19	1310.97	703.89	1310.97	1.39
9217.00	90.40	1.00	7784.41	1403.95	705.40	1403.95	0.22
9312.00	89.78	0.92	7784.25	1498.94	707.00	1498.94	0.66
9406.00	90.06	357.42	7784.38	1592.91	705.64	1592.91	3.74
9501.00	90.40	357.60	7784.00	1687.82	701.51	1687.82	0.40
9595.00	90.65	357.84	7783.14	1781.74	697.77	1781.74	0.36
9690.00	90.46	358.17	7782.22	1876.68	694.46	1876.68	0.40
9785.00	90.74	357.98	7781.23	1971.62	691.26	1971.62	0.35
9879.00	90.92	357.70	7779.86	2065.55	687.71	2065.55	0.36
9973.00	91.08	357.98	7778.22	2159.46	684.17	2159.46	0.35
10068.00	89.38	358.73	7777.84	2254.42	681.44	2254.42	1.95
10162.00	89.97	0.80	7778.37	2348.41	681.05	2348.41	2.29
10252.00	89.97	0.80	7778.41	2438.40	682.30	2438.40	0.00

API 35-087-22180  
NO.  
OTC PROD.  
UNIT NO.

(PLEASE TYPE OR USE BLACK INK ONLY)

OKLAHOMA CORPORATION COMMISSION

Oil & Gas Conservation Division

Post Office Box 52000

Oklahoma City, Oklahoma 73152-2000

Rule 165.10-3-25

RECEIVED

Form 1002A

Rev. 2009

FEB 14 2020

☒ ORIGINAL  
☐ AMENDED (Reason)

COMPLETION REPORT

TYPE OF DRILLING OPERATION

☐ STRAIGHT HOLE ☐ DIRECTIONAL HOLE ☒ HORIZONTAL HOLE  
☐ SERVICE WELL

If directional or horizontal, see reverse for bottom hole location.

COUNTY McClain SEC 6N TWP 2W RGE 28  
LEASE NAME Vaughn 6N 2W 29 WELL NO. 1HX  
NE 1/4 NE 1/4 NE 1/4 NE 1/4 1/4 SEC 246FNL 1/4 SEC 185FEL  
ELEVATION Ground 1112 Latitude (if known) 34.9563405 Longitude (if known) -97.4421491  
OPERATOR Lime Rock Resources IV-A, LP OTC / OCC OPERATOR NO. 24419  
ADDRESS 1111 Bagby St. Ste 4600 Attn: Regulatory  
CITY Houston STATE TX ZIP 77002

SPUD DATE 10/21/18  
DRLG FINISHED DATE 11/11/18  
DATE OF WELL COMPLETION NA 11/11/18  
1st PROD DATE NA  
RECOMP DATE

OKLAHOMA CORPORATION COMMISSION

LOCATE WELL

COMPLETION TYPE

☐ SINGLE ZONE  
☐ MULTIPLE ZONE  
☐ COMMINGLED  
☐ LOCATION EXCEPTION  
☐ ORDER NO.  
☐ INCREASED DENSITY  
☐ ORDER NO.

CASING & CEMENT (Attach Form 1002C)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
CONDUCTOR	20	94	X-42	110			
SURFACE	13 3/8	54.5	J-55	563		555	SURFACE
INTERMEDIATE	9 5/8	40	P-110	7,086		825	1,106
PRODUCTION							
LINER							

PACKER @ \_\_\_\_\_ BRAND & TYPE \_\_\_\_\_ PLUG @ 6912 TYPE cmt top PLUG @ 7575 TYPE cmt btm TOTAL DEPTH 10252 MD  
PACKER @ \_\_\_\_\_ BRAND & TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	<u>Woodford</u>						<u>No Frac</u>
SPACING & SPACING ORDER NUMBER	<u>-652187</u>						
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc							
PERFORATED INTERVALS	<u>NA Dry</u>						
ACID VOLUME	<u>NA</u>						
FRACTURE TREATMENT (Fluids/Prop Amounts)	<u>NA</u>						

☐ Min Gas Allowable (165:10-17-7) OR ☐ Oil Allowable (165:10-13-3) Gas Purchaser/Measurer First Sales Date NA

INITIAL TEST DATA

INITIAL TEST DATE	<u>NA</u>					
OIL-BBL/DAY						
OIL-GRAVITY ( API)						
GAS-MCF/DAY						
GAS-OIL RATIO CU FT/BBL						
WATER-BBL/DAY						
PUMPING OR FLOWING						
INITIAL SHUT-IN PRESSURE						
CHOKE SIZE						
FLOW TUBING PRESSURE						

A record of the formations drilled through, and pertinent remarks are presented on the reverse. I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belief.

Deborah Marberry SIGNATURE NAME (PRINT OR TYPE) Deborah Marberry/Contract Regulatory Analyst DATE 2/12/2020 PHONE NUMBER 713-360-5834  
1111 Bagby St. Ste 4600 Attn: Regulatory Houston TX 77002 hc.dmarberry@limerockresources.com  
ADDRESS CITY STATE ZIP EMAIL ADDRESS

PLEASE TYPE OR USE BLACK INK ONLY  
FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

LEASE NAME Vaughn 6N 2W 29 WELL NO. 1HX

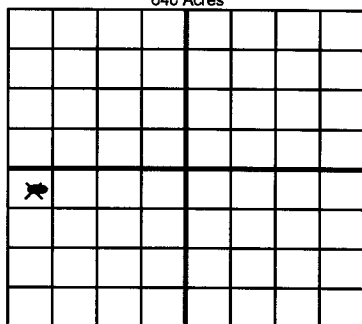
NAMES OF FORMATIONS	TOP
Hogshooter	6,281
Gibson	6,193
Hart	6314
Woodford	6,604

FOR COMMISSION USE ONLY	
ITD on file <input type="checkbox"/> YES <input type="checkbox"/> NO	
APPROVED _____	DISAPPROVED _____
2) Reject Codes	
_____	
_____	
_____	
_____	

Were open hole logs run?	_____ yes <input checked="" type="checkbox"/> no
Date Last log was run	_____
Was CO <sub>2</sub> encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Was H <sub>2</sub> S encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Were unusual drilling circumstances encountered?	<input checked="" type="checkbox"/> yes _____ no
If yes, briefly explain below	

Other remarks: This well was originalled permitted and drilled by BP America. During the operations the well experienced downhole collapse and the fish was left below 7575'. A cement plug was set from 6912-7575'. We are evaluating the well for future potential.

640 Acres

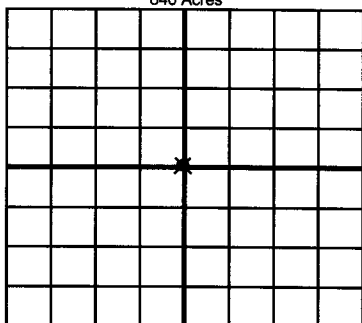


If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth. Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.

640 Acres



BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

LATERAL #1

SEC	TWP	RGE	COUNTY
29	6N	2W	McClain
Spot Location	SE 1/4 NW 1/4 SW 1/4	Feet From 1/4 Sec Lines	FSL 2188 FWL 513
Depth of Deviation	7,298	Radius of Turn	8115
Measured Total Depth	10,252	True Vertical Depth	7,778
BHL From Lease, Unit, or Property Line: 2188 FSL & 513 FWL			

LATERAL #2

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

LATERAL #3

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	