# State of New Mexico

Form C-104

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mental Resources 4 2019
Submit one copy to appropriate District Office

Oil Conservation Division ECEIVED

1220 South St. Francis D. Santa Fe. NM 87505

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

	I.	KEUUI	LOITU	R ALI	OWABLE	AND AUTI	HOI	RIZATION	TO T	RANSI	PORT
Operator na	me and A	Address						<sup>2</sup> OGRID Nun	ıber	229137	• • • • • • • • • • • • • • • • • • • •
COG Ope 2208 W. N	Main Str	eet						<sup>3</sup> Reason for F		de/ Effect	tive Date
Artesia, N			l Name						6 Pag	NW ol Code	
30 – 025-44		F P001	i Name	Bobcat	Draw; Upper	Wolfcamp			ro		98094
<sup>7</sup> Property Co 3212	209		perty Nan		ominator 25 F	ederal Com			9 We	ell Numbe	er 712H
II. 10 Sur			-		1= -	1		<del></del>			
N	25	Township 25S	Range 33E	Lot Idn	reet from the 280	North/South I South	Line	Feet from the 1492		Vest line Vest	County Lea
		le Location Township 25S		Lot Idn	Feet from the 217	North/South I North	Line	Feet from the 1248		Vest line Vest	County Lea
12 Lse Code P	C	ing Method ode F	<sup>14</sup> Gas Co Da 2/12	ite	<sup>15</sup> C-129 Peri	nit Number	16 C	2-129 Effective	Date	<sup>17</sup> C-12	29 Expiration Date
III. Oil aı			<u></u>	11 11 /	L						
18 Transport					<sup>19</sup> Transpor						<sup>20</sup> O/G/W
						_					0
,					AC	C				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
298751					ET	C					G
										* 6; *	
	···									ا ا	yes exist a resistance
****	<u> </u>	4' D-4-				<u> </u>				1.4.50	
IV. Well (		Tion Data  22 Ready		1	<sup>23</sup> TD	<sup>24</sup> PBTD		<sup>25</sup> Perforat	ions		<sup>26</sup> DHC, MC
8/4/18		2/12/1			17563'	17370'		12,935-17,	465'		
<sup>27</sup> Hol	le Size		<sup>28</sup> Casing	& Tubir	ng Size	<sup>29</sup> Dep	th Se	t		<sup>30</sup> Sack	s Cement
14	4" ———			10 3/4"		117	76'			9	965
97	9 7/8"							7			-
6 3/4"				7 5/8"		118	29'			2	155
63			<del></del>	7 5/8" 5 1/2"		118					330
63							23'		·		
	./4"			5 1/2"		175	23'				
V. Well T  31 Date New (	Γest Dat			5 1/2" 2 7/8"	Test Date	175	23'	n 35 Th	g. Press	1	330
V. Well T  31 Date New ( 2/12/19	rest Data	Gas Delive 2/12/1	ery Date	5 1/2" 2 7/8"	2/12/19	175 113 34 Test L 24 H	23' 80' ength		g. Press 3800#	1	36 Csg. Pressure 3000#
V. Well T	rest Data	Gas Delive	ery Date	5 1/2" 2 7/8"		175 113 <sup>34</sup> Test L	23' 80' ength			1	330  36 Csg. Pressure
V. Well T  31 Date New 0 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied v	Fest Date  Oil 32  Ze fy that the with and the side of	Gas Delive 2/12/1  38 Oil 67  rules of the hat the infor	ery Date 19	5 1/2" 2 7/8"  2 7/8"  arration Deen above	Water 1024	175 113 <sup>34</sup> Test L 24 H	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New ( 2/12/19  37 Choke Siz 14/64"  42 I hereby certif been complied we complete to the Signature:	Fest Date Oil 32  Test Date Oil 32  Test Date  Test Dat	Gas Delive 2/12/1 38 Oil 67 rules of the hat the infor	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 7 2 2 revation Deen above f.	Water 1024 vivision have is true and	175 113 <sup>34</sup> Test L 24 H	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New C 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied we complete to the Signature:  Printed name:	Fest Date Oil 32  The st Date	Gas Delive 2/12/1  38 Oil 67  rules of the hat the infor	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 7 2 2 revation Deen above f.	Water 1024 vivision have is true and	175 113 <sup>34</sup> Test L 24 H <sup>40</sup> Ga 185	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New C 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied vicomplete to the Signature:  Printed name: Amanda Ave	Fest Date Oil 32  The st Date	Gas Delive 2/12/1 38 Oil 67 rules of the hat the infor	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 7 2 2 revation Deen above f.	Water 1024 division have is true and	175. 113. 34 Test L 24 H 40 Gs 185 Approved by: 1	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New C 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied we complete to the Signature:  Printed name:	Fest Date of my manuscry	Gas Delive 2/12/1 38 Oil 67 rules of the hat the infor	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 7 2 2 revation Deen above f.	Water 1024 division have is true and	175. 113. 34 Test L 24 H 40 Ga 185.	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New 0 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied vicomplete to the Signature:  Printed name: Amanda Ave Title: Regulatory A E-mail Address:	fy that the with and the best of my manuary	Gas Delive 2/12/1 38 Oil 67 rules of the hat the infor	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 7 2 2 revation Deen above f.	Water 1024 division have is true and	175. 113. 34 Test L 24 H 40 Gs 185 Approved by: 1	23' 80' ength		3800#	ure	36 Csg. Pressure 3000#  41 Test Method Flowing
V. Well T  31 Date New 0 2/12/19  37 Choke Siz 14/64"  42 I hereby certifibeen complied vicomplete to the Signature:  Printed name: Amanda Ave Title: Regulatory A	fy that the with and the best of my manuary	Gas Delive 2/12/1  38 Oil 67  rules of the hat the inforty knowledge Aa A	ery Date 9 Coil Consemation give	5 1/2" 2 7/8"  33 2  34 35 2  Ervation Deen above f.	Water 1024 division have is true and	Approved by: /  Approved Date:	ength rs		ATION  ALL  BIM a	DIVISIO	36 Csg. Pressure 3000#  41 Test Method Flowing N

Form 3160-5 (June 2015)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5. Lease Serial No.

NMNM114987	
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SUNDRY	NOTICES AND REPO	RTS ON WELLS		NMNM114987	
Do not use the abandoned we	is form for proposals to II. Use form 3160-3 (AP	drill or to re-entering BB (	OCE	6. If Indian, Allottee of	r Tribe Name
SUBMIT IN	TRIPLICATE - Other ins	tructions on page ZAR 1 1	^-	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well Gas Well Otl		RECEIV		8. Well Name and No. DOMINATOR 25	FEDERAL COM 712H
2. Name of Operator COG OPERATING LLC	Contact: E-Mail: aavery@c		50	9. API Well No. 30-025-44732	
3a. Address 2208 W MAIN STREET ARTESIA, NM 88210		3b. Phone No. (include area code) Ph: 575-748-6940		10. Field and Pool or I BOBCAT DRAV	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	n)		11. County or Parish,	State
Sec 25 T25S R33E Mer NMP 32.095023 N Lat, 103.529778		L		LEA COUNTY,	NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NATURE OF	NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
☐ Notice of Intent	☐ Acidize	Deepen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
1 Notice of linear	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclam	ation	■ Well Integrity
Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomp	olete	□ Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	☐ Tempor	arily Abandon	
	Convert to Injection	☐ Plug Back	<b>⊠</b> Water □	Disposal	
Attach the Bond under which the wo following completion of the involved	ally or recomplete horizontally, rk will be performed or provide doperations. If the operation re bandonment Notices must be fil	ent details, including estimated starting give subsurface locations and measur the Bond No. on file with BLM/BIA. sults in a multiple completion or reconded led only after all requirements, includi	ed and true ve Required sub inpletion in a r	ertical depths of all pertin bsequent reports must be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once
11/1/18 Test annulus to 1500	# Set CBP @ 17,480' an	d test csg to 11,075#. Good te	st.		
12/5/18 to 12/21/18 Perf 12,93 &7,816,491 gal fluid 1/14/19 to 1/15/19 Drilled out		/38,052 gal 7 1/2%; frac w/ 9,0 BTD @17,370'.	23,252# sa	ind	
1/22/19 -1/23/19 Set 2 7/8" 6.	5# L-80 tbg @ 11,380 ' p	acker @ 11,372'. Installed gas	s lift system	i <b>.</b>	
2/12/19 Began flowing back 8	k testing and date of first	production.			

14. I hereby certify that the	ne foregoing is true and correct.  Electronic Submission #457670 verifie  For COG OPERATING		
Name (Printed/Typed)	AMANDA AVERY	Title	AUTHORIZED REPRESENTATIVE
Signature	(Electronic Submission)	Date	03/11/2019
	THIS SPACE FOR FEDERA		
certify that the applicant ho	ny, are attached. Approval of this notice does not warrant or dis legal or equitable title to those rights in the subject lease licant to conduct operations thereon.	Title	Documents pending BLM approvals will approval approvals will approval approvals will approval approvals will approval approval approvals will approval appro
	l and Title 43 U.S.C. Section 1212, make it a crime for any p or fraudulent statements or representations as to any matter w	erson kno ithin its j	wi Documently buris agency of the United

#### HOBBS OCD

Form 3160-4 (August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MAR 1 4 2019

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

15. Type of Well   Qui Well   Qua Well   Dry   Queen   Plag Back   Diff. Resvr.		WELL (	COMPL	ETION C	R RE	COM	IPLET	ION R	EPORT	AND	.og V⊭n			ase Serial I MNM1149		
2. Name of Operator   Corollact   Add NDD   AVERY   Suppress   Corollact   Corolla	la. Type of	f Well	Oil Well	☐ Gas '	Well	☐ Dr	у 🛘	Other		****	<b>*</b>	•	6. If	Indian, All	ottee or	Tribe Name
Address 2209 MAIN STREET   3a. Phone No. (include area code)   Phi: 575-746-8040   9. AFI Well No.	b. Type o	f Completion	_		☐ Worl	k Over	r 🖸	Deepen	☐ Plu	g Back	☐ Diff.	Resvr.	7. Ut	nit or CA A	greem	ent Name and No.
3. Address   2208 W MAIN STREET   Pa. Phone No. (include area code)   Packer Depth (MD)   Packer Depth (	2. Name of COG C	Operator PERATING	LLC	E	-Mail: aa				A AVERY	<u> </u>						
At surface SESW Lot N 280FSL 1492FWL 32.095023 N Lat, 103.529778 W Lon At top prod interval reported below SESW Lot N 280FSL 1492FWL 32.095023 N Lat, 103.529778 W Lon At top prod interval reported below SESW Lot N 280FSL 1492FWL 32.095023 N Lat, 103.529778 W Lon At total depth NENW Lot D 217FML 1248FEL 32.109168 N Lat, 103.530970 W Lon  11. Sec., T.R. M., or Block and Survey or Area Sec 25 7258 R33E Mer fMMP 12. Date Syndded 09/27/2018		2208 W M	IAIN STR					3a. Ph	. Phone N n: 575-74	o. (include 8-6940	e area code	:)	9. Al	PI Well No.		30-025-44732
At surface SESW Lot N 280FSL 1482PWL 32 095023 N Lat, 103.529778 W Lon At top prod interval reported below SESW Lot N 280FSL 1492FWL 32 095023 N Lat, 103.529778 W Lon At total depth NENW Lot D 217FNL 1248FEL 32.108168 N Lat, 103.530570 W Lon  15. Date T.D. Reached 09(2772018	4. Location	of Well (Re	port locati	on clearly an	d in acco	ordanc	e with Fo	deral rec	quirements	s)*			10. F	ield and Po	ol, or l	Exploratory
At total depth   NENWLot D 21/FNL 1248/EL 32.108168 N.Lat. 103.5305/70 W.On   L2. County or Parish   13. State   New York   O8/04/2018   15. Date T.D. Reached   O8/04/2018   15. Date T.D. Reached   O8/04/2018   16. Date Completed   O2/12/2019   17. Elevations (DP, KB, RT, GL)*   O3/339 GL   O8/04/2018   17. Elevations (DP, KB, RT, GL)*   O8/04/2018	At surfa	ice SESW	Lot N 28	30FSL 1492	FWL 32	.0950	)23 N La	t, 103.5	29778 W	Lon						
15. Date Spudded   15. Date T.D. Reached   16. Date Completed   17. Elevations (DP, KB, RT, GL)*   18. Total Depth:   MD   17563   19. Plug Back T.D.   MD   17368   12768   19. Plug Back T.D.   MD   12768	At top p	orod interval i	reported b	elow SES	W Lot N	1 280F	FSL 149	2FWL 3	2.095023	3 N Lat, 1	03.52977	B W Lon				. ,
18. Total Depth:   MD   17563   19. Plug Back T.D.:   MD   17762   12768   19. Plug Back T.D.:   MD   17768   12768   19. Plug Back T.D.:   MD   17768   12768   12768   12768   12768   19. Plug Back T.D.:   MD   17768   12768			NW Lot D					Lat, 103			a d				DE VI	
TVD				09	/27/2018		eu		□ D &	: A 🛚 🔯	Ready to			333	39 GL	5, K1, GL)*
23. Casing and Liner Record   Report all strings set in well	18. Total D	Depth:				19. P	lug Back	T.D.:				20. Dep	oth Brid	ige Plug Se		
An example   Contract   Contrac	21. Type E	lectric & Oth	ier Mechai	nical Logs R	un (Subn	nit cop	y of eacl	1)			Was	DST run?	i? rvev?	No No No	🗖 Yes	(Submit analysis)
14.000	23. Casing a	nd Liner Rec	ord (Repo	rt all strings	set in we	ell)										
9.875	Hole Size	Size/G	rade	Wt. (#/ft.)				-		9				Cement 7	Гор*	Amount Pulled
Color   Colo		<del> </del>				_		-								
24. Tubing Record		1				_			5109	9				<del></del>		
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth (MD)	0.750	5.5	001110	10.0		Ť	17.54				130					
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth (MD)			-			_										
2.875	24. Tubing	Record					· · · -·			1						
26. Perforation Record   Size   No. Holes   Perf. Status	Size			acker Depth	(MD)	Size	De	pth Set (	MD) I	Packer De	pth (MD)	Size	De	pth Set (MI	D)	Packer Depth (MD)
No. Holes			1380	<del></del>	11372		1 2	6. Perfor	ration Rec	ord	<del></del>	<u>L</u>	<u></u>			
B				Тор		Botte						Size	I	lo. Holes		Perf. Status
C)  D)  27. Acid, Fracture, Treatment, Cement Squeeze, Etc.    Depth Interval		WOLFO	AMP	1	2935	1	7465			12935 TC	17465		_	800	OPE	N
Dight   Digh					-+								╌			
Depth Interval																
12935 TO 17465   SEE ATTACHED				nent Squeeze	, Etc.						1.m. 61					
28. Production - Interval A  Date First Produced Date Tested Production BBL MCF BBL Corr. API Gravity GAS LIFT  Choke Tbg. Press. Size Flwg. 3800 14/64 SI 3000.0 67 185 1024  Date First Production - Interval B  Date First Production - Interval B  Date First Test Hours Tested Production BBL MCF BBL Gas. Water BBL Ratio POW  28. Production - Interval B  Date First Test Hours Tested Production BBL MCF BBL Gas Gravity Production Method Gravity Gas. Oil Ratio POW  28. Production - Interval B  Date First Test Hours Test Production BBL MCF BBL Gas Gravity Gas Gravity Production Method Production BBL MCF BBL Gravity Gas Gravity Production Method Gravity Production Method Gravity Gas Gravity Production Method Gravity Production Method Gravity Corr. API Gravity Production Method Gravity Production Method Gravity Corr. API Gravity Production Method Gravity Production Prod				165 SEE AT	TACHED				A	mount and	1 Type of I	Material			:	
Date First Produced Date Production Production Date Production	<del></del>															
Date First Produced Date Production Production Date Production					-					·-						
Produced   Date   Tested   Production   BBL   MCF   BBL   1024.0   Corr. API   Gravity   GAS LIFT	28. Product	ion - Interval	A						•	•	•	-				
Choke Tbg. Press. Size Flwg. 3800 Press. 3000.0 Csg. 14/64 Sl	Date First Produced											ty	Producti	on Method		
Size   Flwg. 3800   Press. 3000.0   Rate   BBL   MCF   BBL   Ratio   POW    28a. Production - Interval B  Date First   Test   Date   Tested   Production   BBL   MCF   BBL   Ratio   POW    Water   Gas   Gravity   Gas   Gravity   Gas   Gravity   Gr			<del></del>							~ "					GAS L	IFT
28a. Production - Interval B  Date First Test Hours Test Oil Gas Water Oil Gravity Gas Production Method Production BBL MCF BBL Corr. API Gravity	Choke Size	Flwg. 3800	Press.		BBL		CF	BBL	Ratio							
Date First Test Hours Test Oil Gas Water Oil Gravity Gas Production Method  Produced Date Tested Production BBL MCF BBL Corr. API Gravity		<u> </u>	<u> </u>		67		185	102	4			POW				
	Date First	Test	Hours										Producti	on Method		
Choke Tog. Press. Csg. Press. Csg. Press. Size Flwg. Press. Rate BBL Gas. Water BBL Gas.Oil Ratio  Size Instructions and spaces for additional data on reverse side)  Csg. Instructions and spaces for additional data on reverse side)	Produced	Date	Tested	Production	BBL	М	CF	BBL	Соп.	API	L	-				
(See Instructions and spaces for additional data on reverse side)	Choke Size										Well	p. ·		ו מתוג	3LM :	approvals will—
	(Saa Instruct	L	cas for ad	ditional data	or rever	sa sid	a)	<u> </u>			<u>а</u> —	ocume	nts P	enams ' , <sub>he</sub> revi	ewe	and scannes_

ELECTRONIC SUBMISSION #457671 VERIFIED BY THE BLM WELL INFORMATION SYST

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

subsequently

						•••				<del> </del>	<del></del>
	luction - Interv						,			· • · · · · · · · · · · · · · · · · · ·	<del> </del>
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API		Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status		
28c Prod	luction - Interv	al D		l	<u> </u>						
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity		Gas	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API		Gravity	Troduction Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status		
29. Dispo	osition of Gas(S	Sold, used	for fuel, vent	ed, etc.)	•	<del></del>					
30. Sumr	nary of Porous	Zones (Inc	clude Aquife	rs):	-	-			31. For	rmation (Log) Markers	•
tests,	all important including deptections	zones of po h interval t	orosity and contested, cushic	ontents there on used, time	of: Corec tool ope	d intervals and en, flowing an	d all drill-stem d shut-in press	sures			
	Formation		Тор	Bottom		Descript	ions, Contents	, etc.		Name	Top Meas. Depth
Jamar Bell Ca CHERRY BRUSHY BONE SF	SALT OF SALT	(include pl	0268 0861 1893	edure):					TC BC LA BE CH BR	JSTLER DP OF SALT DTTOM OF SALT MAR ELL CANYON HERRY CANYON RUSHY CANYON DNE SPRINGS LIME STONE	1044 1422 4893 5137 5184 6201 7889 9281
		<del>,</del>									
	enclosed attac		(1 6.D+	ald )		2 (01	a Dama		2 DOTE-	port 4. Direction	nal Cumi
	ectrical/Mecha ndry Notice fo	•	•	•		<ol> <li>Geologi</li> <li>Core Ar</li> </ol>	-		<ol> <li>DST Re</li> <li>Other:</li> </ol>	port 4. Direction	nai Survey
24 Than-	by cartify that	the force	ing and attac	had informs	tion is as	mnlate and a	orrant as data-	ningd from	a all available	e records (see attached instruction	ne).
34. I liere	by certify that	ine iorego	-	onic Submi	ssion #45	57671 Verific	ed by the BLN G LLC, sent	1 Well Inf	ormation Sy	,	ліs).
Name	(please print)	AMANDA	AVERY				Titl	e <u>AUTHC</u>	RIZED REF	PRESENTATIVE	
Signa	ture	(Electron	ic Submissi	on)			Dat	e <u>03/11/2</u>	019		
-											
Title 18 U	J.S.C. Section ited States any	1001 and 1 false, ficti	Title 43 U.S.0	C. Section 1	212, make	e it a crime for	or any person l	nowingly er within i	and willfully ts jurisdiction	to make to any department or a	gency

### **Dominator Federal Com #712H**

<u>Perfs</u>	7 1/2% Acid (Gal)	<u>Sand (#)</u>	Fluid (Gal)
1	1512	362170	297108
2	1512	360369	323022
3	1512	362190	328614
4	1512	360332	317604
5	1512	360160	318822
6	1512	360870	322476
7	1512	361440	317688
8	1512	360249	310170
9	1512	360251	307062
10	1512	360290	305004
11	1512	360675	326928
12	1512	361670	309876
13	1512	368952	326004
14	1512	360123	303030
15	1512	361499	313656
16	1512	361730	312858
17	1512	360191	304500
18	1512	360513	306255
19	1512	361590	303156
20	1512	360642	314076
21	1554	363353	302400
22	1512	361044	308070
23	1512	356961	337218
24	1554	357161	297360
25	1680	358827	303534
Totals	38,052	9,023,252	7,816,491

a de la companya de l												1.1.1.			
	Stage 1	Distance Between	Shots	Stage 2	Distance Between	Shots	Stage 3	Distance Between	Shots	Stage 4	Distance Between	Shots	Stage 5	Distance Between	Shots
	ouge .	Perfs	0,,,,,,	Clage	Perfs	0.100		Perfs	٠٠٠	Jungo 4	Perfs	00	0	Perfs	0
	17,465	23	5 +	17,263	43	5	17,098	26	5	16,919	22	5	16,737	22	5
6	17,442	23	8	17,248	16	5	17.078	28	5 2	16,896	23	. 5	16,714	23	< <b>5</b>
From [			5	17.232	17	5		18	<b>3</b>	Control of the Control of Control	. 23	. 5	16,691	23	
Bottom to	17,419	22	Company of the Contract of the	Control of the Contro		the way of the same	17,050		to be not a Discount of the last	16,873		SOUR SHALL COME TO A SECOND			. 5.
Тор	17,397	23	4	17,215	23	4	17,032	18	4	16,850	: 22	4	16,668	23 .	. 4
	17,374	23	4	17,192	23	4	17,014		4	16,828	23	. 4	16,645	22	4
l [	17,351	23	7 . 3	17,169	23	3	16,987	20	3 3 · s	16,805	23	- 3	16,623	23	3
:	17,328	22	3	17,146	22	3	16,967	26	3 .	16,782	. 23	3 -	16,600	23	. 3
	17,306		. 3	17,124		* 3	16,941		3	16,759		3	16,577		<b>3</b> * 9
:	Plug to Plug	83	32	Plug to Plug	61	32	Plug to Plug	· 80	32	Plug to Plu	80	32	lug to Plu	80	32
	Frac Plug	17,480	Total Shot	Frac Plug	17,276	Total Shot	Frac Plug	17,112	Total Shot	Frac Plug	16,930	Total Shots	Frac Plug	16,748	Total Shot
7															
		Distance			Distance			Distance			Distance			Distance	
	Stage 6	Between	Shots	Stage 7	Between	Shots	Stage 8	Between	Shots	Stage 9	Between	Shots	Stage 10	Between	Shots
ł <u></u>	-	Perfs	. ,	-	Perfs		·	Perfs			Perfs			Perfs	
	16,554	23 :	5 - 5 -	16,372	23	. 5	16,196	23	- 5	16,008	: 23	< <b>€</b>	15,826	. 23	5
	16,532	23: :	. 5	16,350	23	5	16,167	22	. 5	15,985	22	. 5	15,803	23	. 5
From	16,509	23	6	16,327	23	. 5	16,145	23	5	15,963	23	5	15,780	22	5
Bottom to	16,486	23	4	16,304	23	-4	16,122	23	- 4	15.940	23	4	15,758	23	4
Тор	7. 30.00		the second secon	and antimote greater to					The second second			The state of the state of	The second second second second	<del></del>	Control of the Control
	16,463	22	4	16,281	22	. 4	16,099:	23	. 4	15,917	23	. 4	15,735	23	4
	16,441	23 :	. 3	16,259	23	7.3	16,076	22	3.	15,894	. 22	3	15,712	23	-3.*
1::	16,418	23	3	16,236	23	3	16,054	23	- 3	15,872	23	3	15,689	22	3
1	16,395		3 -	16,213		. 3 ⋅	- 16.031		3	15,849		″ 3	15.667		-3
1 '	Plug to Plug	80	32	lug to Plu	80	32	Plug to Plu	80	32	Plug to Plu	79	32	lug to Plu	79	32
	Frac Plug	16,566	Total Shot	Frac Plug	16,384	Total Shots	Frac Plug	16,202	Total Shot	Frac Plug	16,019	Total Shots	Frac Plug	15,837	Total Shot
			*	· · · · · · · · · · · · · · · · · · ·	- 12 SW . C	<u> </u>	<u></u>			· · · · ·		<del> </del>			
		Distance		Γ	Distance		1	Distance	r	T	Distance			Distance	
i	Stage 11	Between	Shots	Stage 12	Between	Shots	Stage 13	Between	Shots	Stage 14	Between	Shots	Stage 15	Between	Shots
	omac	Perfs	0	0.0.50 .2	Perfs	0,,000	0	Perfs	0	0	Perfs		0	Perfs	
1 1	15,644	23	~ 5	15,462	23	<b>5</b> /	15.280	22	- 5	15,098	30	° 5	14,915	29	5
	16,621	23	5.	15,439	23	5	15,257	23	5	15,070	20	5	14,894	24	- 5
From						and the second second						the second second		23	5
Bottom to	15,598	22	. 5	15,416	23	. 5	15,234	23	\$	15,050	22	· 5	14,870		
Top	15,576	23	<b>4</b>	15,393	22	* 4	15,211	22	√4	15,028	22	<b>4</b> r.	14,847	23	· 4
	15,553	23	4	15,374	25	- 4	15,189	25	4	-15,006	-26	100 <b>4</b> 5	14,824	22	4
i l	15,530	23	3	15,346	21	3	15,164	21	3	14,980	19	. 3	14,802	23	∗ 3⊹
1 · [	15,507	22	3	15,325	23	3	15,143	15	3	14,961	. 17	3	14,779	23	3
	15,485 ~		3.3	15,302		3.	15.128		1 3 T .	14,944		. 3	14,756		s <3°s
, 1	Plug to Plug									Water Street		Access and a property of			32
<b>!</b>		79	The state of the s	lug to Plu	80		Plug to Plus	80	32	Plug to Plug	. 81	1: 32	Plug to Plus	80	
		79 15 655	32	Plug to Plug	80 15 473	32	Plug to Plug	80 15 291	32 Total Shots	Plug to Plug	81 15.109	32 Total Shots	Plug to Plug	80 14.927	
	Frac Plug	NAME OF TAXABLE PARTY.	The state of the s		80 15,473				32 Total Shot				Plug to Plug Frac Plug		32 Total Shot
		15,655	32		15,473	32		15,291			15,109			14,927	
	Frac Plug	15,655 Distance	32 Total Shots	Frac Plug	15,473 Distance	32 Total Shot	Frac Plug	15,291 Distance	Total Shot	Frac Plug	15,109 Distance	Total Shots	Frac Plug	14,927 Distance	Total Shot
		15,655 Distance Between	32		15,473 Distance Between	32		15,291 Distance Between			15,109 Distance Between			14,927 Distance Between	
	Frac Plug Stage 16	15,655 Distance Between Perfs	32 Total Shots Shots	Frac Plug Stage 17	15,473 Distance Between Perfs	32 Total Shots Shots	Frac Plug Stage 18	15,291 Distance Between Perfs	Total Shots	Frac Plug Stage 19	15,109 Distance Between Perfs	Total Shots	Frac Plug Stage 20	14,927 Distance Between Perfs	Total Shot
	Stage 16	Distance Between Perfs 23	32 Total Shots Shots	Frac Plug Stage 17	Distance Between Perfs 23	32 Total Shots Shots	Frac Plug Stage 18	Distance Between Perfs 29	Fotal Shots	Stage 19	Distance Between Perfs 33	Total Shots Shots	Frac Plug Stage 20 13,994	Distance Between Perfs 34	Shots
	Stage 16	Distance Between Perfs 23 23	32 Fotal Shots Shots	Frac Plug  Stage 17  14,551  14,528	Distance Between Perfs 23 22	32 Total Shots Shots	Frac Plug  Stage 18  14,363	Distance Between Perfs 29 22	Shots	Stage 19	Distance Between Perfs 33 19	Shots	Stage 20 13.994 13.980	Distance Between Perfs 34 21	Shots
From	Stage 16  14,733  14,711  14,688	Distance Between Perfs 23 23 23	32 Fotal Shots Shots	Stage 17  14,551  14,528	Distance Between Perfs 23 22 23	32 Total Shots Shots 5 5	Stage 18 14,363 , 14,346	Distance Between Perfs 29 22 23	Shots	Stage 19 14,177 14,160 14,141	Distance Between Perfs 33 19 22	Shots 5 5 5 5	Stage 20 13.994 13.980	Distance Between Perfs 34 21 22	Shots
From Bottom to	Stage 16 44,733 14,711 14,688 14,665	Distance Between Perfs 23 23 23 23	32 Total Shots Shots 5 5	Stage 17  14,551 14,528 14,506 14,483	Distance Between Perfs 23 22 23 23	32 Total Shots Shots 5 5	Stage 18 14,363 14,346 14,324 14,301	Distance Between Perfs 29 22 23 23	Shots 5 5 4	Stage 19 14,177 14,160 14,141 14,119	Distance Between Perfs 33 19 22 23	Shots 5 5 5 4	Stage 20 13,994 13,980 13,989 13,937	Distance Between Perfs 34 21 22 23	Shots
From Bottom to	Stage 16  14,733 14,711 14,688 14,665 14,642	Distance Between Perfs 23 23 23 23 23 22	32 Total Shots Shots 5 5	Stage 17 14.551 14.528 14.508 14.483 14.480	Distance Between Perfs 23 22 23 23 23 23	32 Total Shots Shots 5 5 4	Stage 18 14,363 14,346 14,324 14,301 14,278	Distance Between Perfs 29 22 23 23 23	Shots 5 5 4	Stage 19 14,177 14,160 14,141 14,119 14,096	Distance Between Perfs 33 19 22 23 23	Shots 5 5 4	Stage 20 13,994 13,980 13,959 13,937	Distance Between Perfs 34 21 22 23 23	Shots
From Bottom to	Stage 16 44,733 14,711 14,688 14,665	Distance Between Perfs 23 23 23 23	32 Total Shots Shots 5 5	Stage 17  14,551 14,528 14,506 14,483	Distance Between Perfs 23 22 23 23	32 Total Shots Shots 5 5	Stage 18 14,363 14,346 14,324 14,301	Distance Between Perfs 29 22 23 23 23 23 22	Shots 5 5 4 4 4 3	Stage 19 14,177 14,160 14,141 14,119	Distance Between Perfs 33 19 22 23 23 23	Shots 5 5 4 4 4 3	Stage 20 13,994 13,980 13,989 13,937	Distance Between Perfs 34 21 22 23 23 23	Shots 5 5 4 4 4 3
From Bottom to	Stage 16  14,733 14,711 14,688 14,665 14,642	Distance Between Perfs 23 23 23 23 23 22	32 Total Shots Shots 5 5	Stage 17 14.551 14.528 14.508 14.483 14.480	Distance Between Perfs 23 22 23 23 23 23	32 Total Shots Shots 5 5 4	Stage 18 14,363 14,346 14,324 14,301 14,278	Distance Between Perfs 29 22 23 23 23	Shots 5 5 4	Stage 19 14,177 14,160 14,141 14,119 14,096	Distance Between Perfs 33 19 22 23 23	Shots 5 5 4	Stage 20 13,994 13,980 13,959 13,937	Distance Between Perfs 34 21 22 23 23	Shots
From Bottom to	Stage 16  14,733 14,711 14,688 14,665 14,642 14,620 14,620	Distance Between Perfs 23 23 23 23 23 23 23 23 22 23	32 Total Shots Shots 5 5 4 4	Stage 17 14.551 14.528 14.508 14.483 14.460 14.437	Distance Between Perfs 23 22 23 23 23 22 23	32 Total Shots Shots 5 5 4 4	Stage 18 14,363 , 14,346 14,324 14,301 14,278 14,255	Distance Between Perfs 29 22 23 23 23 23 22	Shots 5 5 4 4 4 3	Stage 19 14,177 14,160 14,141 14,119 14,096 14,073	Distance Between Perfs 33 19 22 23 23 23	Shots 5 5 4 4 4 3	Stage 20 13,994 13,980 13,959 13,937 13,914 13,891	Distance Between Perfs 34 21 22 23 23 23	Shots 5 5 4 4 3 3
From Bottom to Top	Stage 16  14,733 14,711 14,688 14,665 14,642 14,620 14,697 14,597	Distance Between Perfs 23 23 23 23 23 23 22 23 22	32 Total Shots Shots 5 5 4 3	Stage 17  14.551  14.556  14.506  14.483  14.480  14.437  14.415  14.392	15,473 Distance Between Perfs 23 22 23 23 22 23 22 23	32 Total Shots Shots 5 5 4 4 4 3 3	Stage 18 14,363 14,346 14,324 14,301 14,278 14,255 14,233 314,210	Distance Between Perfs 29 22 23 23 23 23 23 22 23	Shots 5 5 4 4 4 3 3	Stage 19 14.177-14.160-14.141 14.159-14.090-14.073-14.050-14.028	Distance Between Perfs 33 19 22 23 23 23 22	Shots 5 5 4 4 3 3	Stage 20 13.994 13.980 13.959 13.914 13.891 13.868 13.846	Distance Between Perfs 34 21 22 23 23 23 23	Shots 5 4 4 5 3
From Bottom to Top	Stage 16 44,733 14,711 14,688 14,665 14,642 14,697 14,597	15,655%  Distance Between Perfs 23 23 23 23 23 22 23 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots Shots 5 5 4 4 3 3 3 3 3	Stage 17  14,551  14,558  14,508  14,483  14,480  14,437  14,415  14,392  Plug to Plug	15,473 Distance Between Perfs 23 22 23 23 23 23 27 77	32 Total Shots Shots 5 5 4 4 4 3 3 3	Stage 18 14,363 14,346 14,324 14,30 14,278 14,255 14,233 14,210 Plug to Plu	Distance Between Perfs 29 22 23 23 23 23 23 23 27 27	Shots 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Stage 19 14.177-14.160-14.141-14.159-14.090-14.073-14.050-14.028-Plug to Plug	Distance Between Perfs 33 19 22 23 23 23 23 22	Shots 5 5 4 4 4 3 3 3 3 3 3 3 2	Stage 20 13,994 13,960 13,959 13,914 13,984 13,868 13,868	Distance Between Perfs 34 21 22 23 23 23 23 22	Shots 5 5 4 4 4 3 3 3 3 3 3 2
From Bottom to Top	Stage 16  14,733 14,711 14,688 14,665 14,642 14,620 14,697 14,597	15,655%  Distance Between Perfs 23 23 23 23 23 22 23 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots Shots 5 5 4 4 3 3 3 3 3	Stage 17  14,551  14,558  14,508  14,483  14,480  14,437  14,415  14,392  Plug to Plug	15,473 Distance Between Perfs 23 22 23 23 23 23 27 77	32 Total Shots Shots 5 5 4 4 4 3 3 3	Stage 18 14,363 14,346 14,324 14,30 14,278 14,255 14,233 14,210 Plug to Plu	Distance Between Perfs 29 22 23 23 23 23 23 23 27 27	Shots 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Stage 19 14.177-14.160-14.141 14.159-14.090-14.073-14.050-14.028	Distance Between Perfs 33 19 22 23 23 23 23 22	Shots 5 5 4 4 4 3 3 3 3 3 3 3 2	Stage 20 13,994 13,960 13,959 13,914 13,984 13,868 13,868	Distance Between Perfs 34 21 22 23 23 23 23	Shots 5 5 4 4 4 3 3 3 3 3 3 2
From Bottom to Top	Stage 16 44,733 14,711 14,688 14,665 14,642 14,697 14,597	15,655* Distance Between Perfs 23 23 23 23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots Shots 5 5 4 4 3 3 3 3 3	Stage 17  14,551  14,558  14,508  14,483  14,480  14,437  14,415  14,392  Plug to Plug	Distance Between Perfs 23 22 23 23 22 23 77 14,560	32 Total Shots Shots 5 5 4 4 4 3 3 3	Stage 18 14,363 14,346 14,324 14,30 14,278 14,255 14,233 14,210 Plug to Plu	Distance Between Perfs 29 22 23 23 22 23 72	Shots 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Stage 19 14.177-14.160-14.141-14.159-14.090-14.073-14.050-14.028-Plug to Plug	Distance Between Perfs 33 19 22 23 23 23 24 69	Shots 5 5 4 4 4 3 3 3 3 3 3 3 2	Stage 20 13,994 13,960 13,959 13,914 13,984 13,868 13,868	Distance Between Perfs 34 21 22 23 23 23 24 25 68	Shots 5 5 4 4 4 3 3 3 3 3 3 2
From Bottom to Top	Frac Plug  Stage 16  14,733  14,711  14,888  14,682  14,620  14,527  14,574  Plug to Plug  Frac Plug	15,655; Distance Between Perfs 23 23 23 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Fotal Shots Shots 5 5 3 3 7 Total Shots	Frac Plug  Stage 17  14.551  14.528  14.508  14.480  14.487  14.475  14.475  14.392  Plug to Plug  Frac Plug	Distance Between Perfs 23 22 23 23 22 23 27 77 14,560 Distance	32 Total Shots Shots 5 5 5 4 4 3 3 3 3 7 Total Shots	Stage 18 14.363 14.346 14.324 14.324 14.233 14.210 Plug to Plug Frac Plug	Distance Between Perfs 29 22 23 23 23 22 23 25 25 Distance Distance Distance	Shots  5 5 4 3 3 3 7 Total Shots	Stage 19 14.177-14.160 14.141 14.199 14.050 14.073 14.050 14.028 Plug to Plug	Distance Between Perfs 33 19 22 23 23 23 24 69 Distance	Shots  5 5 5 4 4 3 3 3 7 7 Total Shots	Frac Plug  Stage 20  13,994 13,980 13,889 13,931 13,944 13,894 13,868 13,948 Plug to Plug  Frac Plug	Distance Between Perfs 34 21 22 23 23 23 24 68 44,005	Shots 5 5 3 3 3 32 Total Shot
From Bottom to Top	Stage 16 44,733 14,711 14,688 14,665 14,642 14,697 14,597	15,655: Distance Between Perfs 23 23 23 23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots Shots 5 5 4 4 3 3 3 3 3	Stage 17  14,551  14,558  14,508  14,483  14,480  14,437  14,415  14,392  Plug to Plug	15,473 Distance Between Perfs 23 22 23 23 23 27 77 14,560 Distance Between	32 Total Shots Shots 5 5 4 4 4 3 3 3	Stage 18 14,363 14,346 14,324 14,30 14,278 14,255 14,233 14,210 Plug to Plu	Distance Between Perfs 29 22 23 23 23 22 23 72 14,373	Shots 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Stage 19 14.177-14.160-14.141-14.159-14.090-14.073-14.050-14.028-Plug to Plug	15,109 d Distance Between Perfs 33 19 22 23 23 22 25 69 11,188	Shots 5 5 4 4 4 3 3 3 3 3 3 3 2	Stage 20 13,994 13,960 13,959 13,914 13,984 13,868 13,868	Distance Between Perfs 34 21 22 23 23 23 22 68 14,005	Shots 5 5 4 4 4 3 3 3 3 3 3 2
From Bottom to Top	Frac Plug  Stage 16  14,793 14,711 14,685 14,665 14,642 14,620 14,620 14,697 14,574 14,574 Stage 21	Distance Between Perfs 23 23 23 22 23 25 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	32 Total Shots Shots 5 5 4 4 3 3 3 3 7 Total Shots	Frac Plug  Stage 17  14,551 14,528 14,508 14,480 14,483 14,460 14,437 14,445 14,499 Plug to Plug  Frac Plug  Stage 22	Distance Between Perfs 23 22 23 23 22 23 77 14,560 Distance Between Perfs	32 Total Shots Shots 5 5 4 4 3 3 3 3 3 Total Shots	Frac Plug  Stage 18 14,363 14,346 14,324 14,301 14,278 14,235 14,233 14,210 Plug Frac Plug  Stage 23	Distance Between Perfs 29 22 23 23 22 23 72 14,373 Distance Between Perfs	Shots Shots Shots Shots Shots Shots Shots	Stage 19  14,177, 14,160, 14,161, 14,190, 14,073, 14,050, 14,050, 14,028, Plug to Plug Frac Plug	Distance Between Perfs 33 19 22 23 23 23 24 69 14,188  Distance Between Perfs	Shots Shots Signature Shots Signature Signature Signature Shots Shots	Frac Plug  Stage 20  13,994 13,969 13,959 13,914 13,868 13,868 13,868 13,868 Stage 25	Distance Between Perfs 34 21 22 23 23 24 68 14,005	Shots  Shots  5  5  4  4  3  3  3  Total Shots  Shots
From Bottom to Top	Frac Plug  Stage 16  44.733 14.771 14.685 14.685 14.620 14.597 14.574 Plug to Plug  Frac Plug  Stage 21	15,655*  Distance Between Perfs 23 23 23 22 23 23 25 25 14,740  Distance Between Perfs 34	32 Total Shots Shots 5 5 4 4 3 3 3 7 Total Shots	Frac Plug  Stage 17  14.551  14.528  14.480  14.487  14.475  14.492  Plug to Plug  Stage 22  13.628	Distance Between Perfs 23 22 23 23 27 77 14,560 Distance Between Perfs 35	32 Total Shots  Shots  5 5 4 4 3 3 3 3 7 Total Shots	Frac Plug  Stage 18  14.363 14.346 14.324 14.232 14.255 14.233 14.210 Plug to Plug  Frac Plug  Stage 23 -13.448	Distance Between Perfs 29 22 23 23 23 22 23 T2 14.373  Distance Between Perfs 38	Shots  Shots  Shots  Shots  Shots  Shots  Shots  Shots  Shots	Stage 19 14.177-14.160. 14.141-14.199. 14.096. 14.073-14.080. 14.028-Plug to Plug Frac Plug Stage 24 19.287-	Distance Between Perfs 33 19 22 23 23 22 69 14,168 Distance Between Perfs 32	Shots  Shots  5  5  4  4  3  3  7  Total Shots  Shots	Frac Plug  Stage 20  13,994 13,969 13,959 13,914 13,868 13,868 13,868 13,868 15,848 Plug to Plug  Stage 25	Distance Between Perfs 34 21 22 23 23 22 Distance Between Perfs 26 8	Shots  5  5  4  4  3  3  32  Total Shots  Shots
From Bottom to Top	Frac Plug  Stage 16  14,733 14,711 14,885 14,682 14,620 14,524 14	15,655*  Distance Between Perfs 23 23 23 23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Fotal Shots Shots 5 4 3 3 3 Total Shots Shots	Frac Plug  Stage 17  14.551  14.528  14.508  14.480  14.487  14.487  14.475  14.475  14.475  14.475  14.382  Plug to Plug  Stage 22  13.628  13.616	Distance Between Perfs 23 22 23 23 22 23 Distance Between Perfs 35 21	32 Total Shots  Shots  5 5 4 4 3 3 3 7 Total Shots  Shots	Frac Plug  Stage 18  14,363 , 14,346 , 14,324 , 14,324 , 14,255 , 14,233 , 14,210 Plug to Plug Frac Plug  Stage 23 , 13,448 , 13,432	Distance Between Perfs 29 22 23 23 23 22 23 Distance Between Perfs 38 19	Shots  Shots  5  5  4  4  3  3  3  Total Shots  Shots	Stage 19  14.177- 14.160 14.141 14.199 14.050 14.028 Plug to Plug Frac Plug  Stage 24 13.267 14.3252	Distance Between Perfs 33 19 22 23 23 22 69 14,188  Distance Between Perfs 32 21	Shots  5 5 5 4 4 4 3 3 3 7 Total Shots  Shots	Frac Plug  Stage 20  13,984 13,980 13,959 13,914 13,868 13,948 Plug to Plug  Frac Plug  Stage 25 13,091 13,072	Distance Between Perfs 34 21 22 23 23 23 22  Distance Between Perfs 468 14,005	Shots  5  5  3  3  32  Total Shots  Shots
From Bottom to Top	Frac Plug  Stage 16  44,733 14,711 14,888 14,685 14,642 14,620 14,574 Plug to Plug  Frac Plug  Stage 21  13,812 13,800 13,777	15,655; Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Fotal Shots  Shots  5 5 3 3 32 Fotal Shots  Shots  5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Frac Plug  Stage 17  14.551  14.528  14.508  14.480  14.483  14.481  14.415  14.332  Plug to Plug  Frac Plug  Stage 22  13.628  13.636  13.595	15,473 Distance Between Perfs 23 22 23 23 23 27 77 14,560 Distance Between Perfs 35 21 23	32 Total Shots  Shots  5 5 4 4 3 3 3 7 Total Shots  Shots	Frac Plug  Stage 18  14.363 .14.346 .14.324 .14.325 .14.233 .14.210 .14.20 .14.20 .14.233 .14.210 .14.20 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233	15,291   Distance   Between   Perfs   29   22   23   23   22   23     T2   24     T4,373   Distance   Between   Perfs   38   19   23   23	Shots  Shots  5  5  4  3  3  3  Total Shots  Shots	Stage 19  14.177- 14.160 14.141 14.139 14.050 14.073 14.050 14.028 Plug to Plug Frac Plug  Stage 24 13.267 43.252 13.231	Distance Between Perfs 33 22 23 23 22 69 14,188 Distance Between Perfs 22 21 23	Shots  5  5  4  4  3  3  3  7  Total Shots  Shots	Frac Plug  Stage 20  13,994 13,980 13,899 13,914 13,898 13,948 Plug to Plug Frac Plug  Stage 25 13,091 13,072 13,055	Distance Between Perfs 34 21 22 23 23 23 24 68 414,005 Distance Between Perfs 26 17 29	Shots
From Bottom to Top From Bottom to	Frac Plug  Stage 16  14,733 14,711 14,685 14,665 14,642 14,620 14,620 14,627 14,627 14,527 14,527 14,527 14,527 13,754	15,655 Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Total Shots Shots 5 5 4 4 3 3 32 Total Shots	Stage 17  14,551 14,508 14,460 14,437 14,415 14,437 14,415 14,392 Plug to Plug Frac Plug  Stage 22 13,628 13,535 13,572	15,473 Distance Between Perfs 23 22 23 23 22 23 77 14,560 Distance Between Perfs 35 21 23 24	32 Total Shots Shots 5 5 4 4 3 3 3 2 Total Shots Shots 5 4 4 4 5 5 4 4 4 5 5 4 4 4 5 5 6 6 6 6	Frac Plug  Stage 18 14.383 .14.346 .14.324 .14.324 .14.265 .14.233 .14.210 Plug to Plug  Frac Plug  Stage 23 .13.448 .13.433 .13.380	Distance Between Perfs 29 22 23 23 23 22 23 23 25 14,373 Distance Between Perfs 38 19 23 23 23	Shots  Shots  Shots  Shots  Shots  Shots  Shots	Stage 19  14,177, 14,160, 14,141 14,139, 14,096, 14,073, 14,080, 14,073, 14,080, 14,073, 14,080, 14,023, 14,028, Plug to Plug Frac Plug Stage 24 13,267, 13,267, 13,268, 13,208	Distance Between Perfs 33 22 23 23 23 22 Distance Between Perfs 32 23 23 23 23 23 23 23 23 23 23 23 23	Shots  5 5 4 3 3 3 7 Total Shots  Shots  5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Frac Plug  Stage 20  13,994 13,950 13,959 14,9314 13,894 13,868 13,946 13,956 13,951 13,051 13,051 13,051 13,051 13,051	Distance Between Perfs 34 21 22 23 23 23 22 68 14,005 Distance Between Perfs 26 17 29 21	Shots  Shots  Shots  Shots  Shots  Shots  Shots  Shots
From Bottom to Top	Frac Plug  Stage 16  44,733 14,711 14,888 14,685 14,642 14,620 14,574 Plug to Plug  Frac Plug  Stage 21  13,812 13,800 13,777	15,655; Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Fotal Shots Shots 5 4 4 3 3 3 3 7 Total Shots	Frac Plug  Stage 17  14,551 14,558 14,568 14,460 14,437 14,445 14,445 14,499 Plug to Plug Frac Plug  Stage 22 13,628 13,516 13,535 14,552 13,548	15,473 Distance Between Perfs 23 22 23 23 23 27 77 14,560 Distance Between Perfs 35 21 23	32 Total Shots  Shots  5 5 4 4 3 3 3 7 Total Shots  Shots	Frac Plug  Stage 18  14.363 .14.346 .14.324 .14.325 .14.233 .14.210 .14.20 .14.20 .14.233 .14.210 .14.20 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.210 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233 .14.233	15,291   Distance   Between   Perfs   29   22   23   23   22   23     T2   24     T4,373   Distance   Between   Perfs   38   19   23   23	Shots  Shots  5  5  4  3  3  3  Total Shots  Shots	Frac Plug  Stage 19  14,177, 14,163, 14,141, 14,199, 14,073, 14,050, 14,028, Plug to Plug  Frac Plug  Stage 24  13,287, 43,252, 13,238, 13,185,	Distance Between Perfs 33 22 23 23 22 69 14,188 Distance Between Perfs 22 21 23	Shots  5  5  4  4  3  3  3  7  Total Shots  Shots	Frac Plug  Stage 20 13,994 13,960 13,959 13,914 13,868 13,848 13,868	Distance Between Perfs 34 21 22 23 23 23 24 68 14,005 Distance Between Perfs 26 17 29 21 25	Shots 5 5 4 4 3 3 3 3 Total Shot  Shots 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
From Bottom to Top  From Bottom to Bottom to	Frac Plug  Stage 16  14,733 14,711 14,685 14,665 14,642 14,620 14,620 14,627 14,627 14,527 14,527 14,527 14,527 13,754	15,655 Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Total Shots Shots 5 5 4 4 3 3 32 Total Shots	Stage 17  14,551 14,508 14,460 14,437 14,415 14,437 14,415 14,392 Plug to Plug Frac Plug  Stage 22 13,628 13,535 13,572	15,473 Distance Between Perfs 23 22 23 23 22 23 77 14,560 Distance Between Perfs 35 21 23 24	32 Total Shots Shots 5 5 4 4 3 3 3 2 Total Shots Shots 5 4 4 4 5 5 4 4 4 5 5 4 4 4 5 5 6 6 6 6	Frac Plug  Stage 18 14.383 .14.346 .14.324 .14.324 .14.265 .14.233 .14.210 Plug to Plug  Frac Plug  Stage 23 .13.448 .13.433 .13.380	Distance Between Perfs 29 22 23 23 23 22 23 23 25 14,373 Distance Between Perfs 38 19 23 23 23	Shots  Shots  Shots  Shots  Shots  Shots  Shots	Stage 19  14,177, 14,160, 14,141 14,139, 14,096, 14,073, 14,080, 14,073, 14,080, 14,073, 14,080, 14,023, 14,028, Plug to Plug Frac Plug Stage 24 13,267, 13,267, 13,268, 13,208	Distance Between Perfs 33 22 23 23 23 22 Distance Between Perfs 32 23 23 23 23 23 23 23 23 23 23 23 23	Shots  5 5 4 3 3 3 7 Total Shots  Shots  5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Frac Plug  Stage 20  13,994 13,950 13,959 14,9314 13,894 13,868 13,946 13,956 13,951 13,051 13,051 13,051 13,051 13,051	Distance Between Perfs 34 21 22 23 23 23 22 68 14,005 Distance Between Perfs 26 17 29 21	Shots  Shots  Shots  Shots  Shots  Shots  Shots  Shots
From Bottom to Top  From Bottom to Bottom to	Frac Plug  Stage 16  44.793 14.771 14.685 14.642 14.620 14.697 14.574 Plug to Plug  Frac Plug  Stage 21 13.812 13.807 13.775 13.754 13.709	Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Fotal Shots  Shots  5 5 3 3 3 3 7 Total Shots  Shots  5 4 4 3 3 3 4 4 3 3 4 3 3 4 4 3 3 3 4 4 4 3 3 4 4 3 3 4 4 4 3	Frac Plug  Stage 17  14,551 14,558 14,460 14,483 14,446 14,437 14,415 14,392 Plug to Plug Frac Plug  Stage 22 13,636 13,535 13,548 13,527	Distance Between Perfs 23 22 23 23 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots  Shots  5 5 4 4 3 3 3 3 3 5 Total Shots  Shots  5 5 5 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Frac Plug  Stage 18  14.363 , 14.346 , 14.324 , 14.255 , 14.233 , 14.210 Plug to Plug  Frac Plug  Stage 23 , 13.48	Distance Between Perfs 29 22 23 23 22 23 Distance Between Perfs 38 19 23 23 23 22 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Shots  \$\frac{6}{5}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{2}\$ Total Shots  \$\frac{6}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{3}\$ \$\frac{3}{4}\$ \$\frac{4}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{4}\$ \$\frac{4}{3}\$ \$\frac{3}{3}\$	Frac Plug  Stage 19  14,177, 14,163, 14,141, 14,199, 14,073, 14,050, 14,028, Plug to Plug  Frac Plug  Stage 24  13,287, 43,252, 13,238, 13,185,	Distance Between Perfs 33 19 22 23 23 23 22 69 14,188 Distance Between Perfs 32 21 23 22 21 23 22 21 23 22 21 23 22 21 23 22 23 22	Shots  5 5 5 4 4 3 3 3 7 Total Shots  Shots  5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Frac Plug  Stage 20  13,994 13,980 13,959 13,914 13,868 13,868 13,868 13,868 13,068 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072	Distance Between Perfs 34 21 22 23 23 23 24 68 14,005 Distance Between Perfs 26 17 29 21 25	Shots 5 5 4 4 3 3 3 3 Total Shot  Shots 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
From Bottom to Top  From Bottom to Bottom to	Frac Plug  Stage 16  44,733 14,771 14,688 14,685 14,620 14,597 14,574 Plug to Plug  Frac Plug  Stage 21 13,812 13,777 13,752 13,752 13,759 13,686	Distance Between Perfs 23 23 23 23 23 25 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	32 Total Shots  Shots  5 5 4 4 3 3 3 32 Total Shots  Shots  5 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Frac Plug  Stage 17  14.551  14.528  14.480  14.483  14.481  14.437  14.415  14.392  Plug to Plug  Stage 22  13.628  13.516  13.555  13.572  13.527  13.502	Distance Between Perfs 23 22 23 23 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 Total Shots  Shots  5 5 4 4 3 3 3 3 3 Total Shots  Shots  5 5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Frac Plug  Stage 18  14.363 14.346 14.324 14.233 14.210 Plug to Plug Frac Plug  Stage 23 13.448 13.432 13.380 13.380 13.385 13.345 13.382	Distance Between Perfs 29 22 23 23 24 72 14,373 Distance Between Perfs 38 19 23 23 23	Shots  \$\frac{6}{5}\$ \$\frac{5}{5}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$  Total Shots  \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{3}\$ \$\frac{3}{3}\$	Stage 19 14.177-14.160, 14.141-14.139 14.096, 14.073-14.050, 14.028, Plug to Plug Stage 24 13.267-13.252, 13.231, 13.208, 13.185, 13.140, 13.140, 13.140, 13.140, 13.140,	Distance Between Perfs 33 22 23 23 22 21 23 23 22 21 23 23 22 21 23 23 23 22 21 23 23 22 23 23 22 23	Shots	Frac Plug  Stage 20  13,994 13,959 13,959 13,914 13,868 13,948 13,948 Plug to Plug  Stage 25 13,091 13,072 13,055 13,068 12,980 12,958	Distance Between Perfs 34 21 22 23 23 23 24 68 44,005 Distance Between Perfs 26 17 29 21 25 21 25 22	Shots
From Bottom to Top  From Bottom to Top	Frac Plug  Stage 16  44.793 14.771 14.685 14.642 14.620 14.697 14.574 Plug to Plug  Frac Plug  Stage 21 13.812 13.807 13.775 13.754 13.709	Distance Between Perfs 23 23 23 23 23 23 23 23 23 23 23 23 23	32 Fotal Shots  Shots  5 5 3 3 3 3 7 Total Shots  Shots  5 4 4 3 3 3 4 4 3 3 4 3 3 4 4 3 3 3 4 4 4 3 3 4 4 3 3 4 4 4 3	Frac Plug  Stage 17  14,551 14,558 14,460 14,483 14,446 14,437 14,415 14,392 Plug to Plug Frac Plug  Stage 22 13,636 13,535 13,548 13,527	Distance Between Perfs 23 22 23 23 24 21 23 24 21 25 16	32 Total Shots  Shots  5 5 4 4 3 3 3 3 3 5 Total Shots  Shots  5 5 5 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	Frac Plug  Stage 18  14.363 , 14.346 , 14.324 , 14.255 , 14.233 , 14.210 Plug to Plug  Frac Plug  Stage 23 , 13.48	Distance Between Perfs 29 22 23 23 22 23 Distance Between Perfs 38 19 23 23 23 22 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Shots  \$\frac{6}{5}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{2}\$ Total Shots  \$\frac{6}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{3}\$ \$\frac{3}{4}\$ \$\frac{4}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{3}{3}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{5}{4}\$ \$\frac{4}{3}\$ \$\frac{3}{3}\$	Stage 19 14.177. 14.160. 14.1419. 14.096. 14.073. 14.080. 14.028. Plug to Plug Frac Plug Stage 24 13.287. 13.282. 13.231. 13.085. 14.08.	Distance Between Perfs 33 22 23 22 25 23 22 23 23 23 23 23 23 23 23 23 23 23	Shots  5 5 5 4 4 3 3 3 7 Total Shots  Shots	Frac Plug  Stage 20  13,994 13,980 13,959 13,914 13,868 13,868 13,868 13,868 13,068 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072 13,072	Distance Between Perfs 34 21 22 23 23 22 Distance Between Perfs 44,005 Distance Between Perfs 26 17 29 21 25 22 23	Shots 5 5 4 4 3 3 3 3 Total Shot  Shots 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4