<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico Energy, Minerals & Natural Resources
HOBBS OCD
Submit of

Form C-104 Revised August 1, 2011

Oil Conservation Division

Submit one copy to appropriate District Office

1220 South St. Francis Dr.AN 2 6 2017 Santa Fe, NM 87505

MENDED REPORT

	I.	RI	<b>EQUI</b>	EST FO	OR ALI	LOWABLE	AND AUT	HO	RIZATION	OT V	TRAN	SPORT
<sup>1</sup> Operator n									<sup>2</sup> OGRID Nu	mber		
COG Pr								-	3 p	E''' (	21795	
2208 W. Artesia,									<sup>3</sup> Reason for l	Filing C	NW	ective Date
<sup>4</sup> API Number		00210	<sup>5</sup> Pool	Name						6 P	ool Code	:
30 - 025-4	3212				WC-025	5 G-06 S25320	6M; Bone Sp	pring				97899
<sup>7</sup> Property C			8 Prop	perty Nan	ne					9 V	Vell Num	
398						Azores Fo	ederal					8H
II. 10 Su				-		T				- ·	*** . **	T
Ul or lot no. N	Section 29		nship 4S	Range 32E	Lot Idn	Feet from the 210	North/South South	Line	Feet from the 1780		West line West	e County Lea
						210	South		1700		rest	Lea
Ul or lot no.	Section	Hole L	ocatio nship	n Range	Lot Idn	Feet from the	North/South	Line	Fact from the	Foet/	West lin	e County
C	29		4S	32E	Lot Idii	77	North	Line	1671	1	West	Lea
12 Lse Code	13 Pro	ducing Me		14 Gas Co	onnection	<sup>15</sup> C-129 Perr		16 C	-129 Effective			-129 Expiration Date
F		Code F		12/1								
III Oll	1.0			-	4/10							
III. Oil a		as Ira	nspor	ters		19 Transpor	tor Name					<sup>20</sup> O/G/W
OGRID	lei					and Ad						0/0/11
												0
					Alpl	ha Crude Con	nector Pipeli	ine				
												G
						Lucid E	nergy					
	000000000000000000000000000000000000000											
IV. Well	l Com	pletion	Data	ı							,	
IV. Well			Data			<sup>23</sup> TD	<sup>24</sup> PBTD		<sup>25</sup> Perforal	/	<u>'</u>	<sup>26</sup> DHC, MC
		<sup>22</sup> I		Date	1	<sup>23</sup> TD 14035'	<sup>24</sup> PBTD 14033'		<sup>25</sup> Perforat <b>9290-1</b> 39	tions	, ,	<sup>26</sup> DHC, MC
<sup>21</sup> Spud Da 7/4/16		<sup>22</sup> I	Ready 1	Date	1	14035'			9290-139	tions		<sup>26</sup> DHC, MC
<sup>21</sup> Spud Da 7/4/16	ole Size	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing	& Tubin	14035'	14033' <sup>29</sup> Dep	oth Set	9290-139	tions		cks Cement
<sup>21</sup> Spud Da 7/4/16	ite	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing	1	14035'	14033'	oth Set	9290-139	tions		
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	& Tubin	14035'	14033' <sup>29</sup> Dep	oth Set	9290-139	tions		cks Cement
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	& Tubin	14035'	14033' <sup>29</sup> Dep	oth Set	9290-139	tions		cks Cement 660
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	& Tubin	14035'	14033' <sup>29</sup> Dep	0' 34'	9290-139	tions		cks Cement 660
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size 1/2" 1/4"	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	3 3/8" 9 5/8" 5 1/2"	14035'	14033' <sup>29</sup> Dep 81 453	34'	9290-139	tions		660 1470
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size 1/2" 1/4"	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	3 3/8" 9 5/8"	14035'	14033' <sup>29</sup> Dep 81 453	34'	9290-139	tions		660 1470
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17	ole Size 1/2" 1/4" 3/4"	<sup>22</sup> I	Ready 1	Date 6 <sup>28</sup> Casing 1	3 3/8" 9 5/8" 5 1/2"	14035'	14033' <sup>29</sup> Dep 81 453	34'	9290-139	tions		660 1470
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well	ole Size 1/2" 1/4" 3/4" Test I	Data <sup>32</sup> Gas	Ready   12/4/1	Date 6 28 Casing 1 29 ry Date/	3 3/8" 9 5/8" 5 1/2" 2 7/8"	14035' ng Size  Fest Date	14033' <sup>29</sup> Dep 81 453 140 858	0' 34' 035' 83'	9290-139	og. Pres	<sup>30</sup> Sa	2090  36 Csg. Pressure
<sup>21</sup> Spud Da 7/4/16 <sup>27</sup> Ho 17 12 8 3	ole Size 1/2" 1/4" 3/4" Test I	Data <sup>32</sup> Gas	Ready   12/4/1	Date 6 28 Casing 1 29 ry Date/	3 3/8" 9 5/8" 5 1/2" 2 7/8"	14035' ng Size	14033'  29 Dep  81  453  140	0' 34' 035' 83'	9290-139	tions 985'	<sup>30</sup> Sa	cks Cement 660 1470 2090
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16	ole Size 1/2" 1/4" 3/4" Test I	Data <sup>32</sup> Gas	Delive 2/14/1	Date 6  28 Casing 1  ry Date 16	3 3/8" 9 5/8" 5 1/2" 2 7/8"	14035' ng Size  Test Date 2/14/16	14033'  29 Dep  81  453  140  858	034' 035' 83' Length	9290-139	og. Pres	<sup>30</sup> Sa	2090  36 Csg. Pressure 550#
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well	ole Size 1/2" 1/4" 3/4" Test I	Data <sup>32</sup> Gas	Ready   12/4/1	Date 6  28 Casing 1  ry Date 16	3 3/8" 9 5/8" 5 1/2" 2 7/8"	14035' ng Size  Fest Date	14033' <sup>29</sup> Dep 81 453 140 858	oth Set 0' 34' 035' 83' Length Irs	9290-139	og. Pres	<sup>30</sup> Sa	2090  36 Csg. Pressure
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16 37 Choke Si 44/64"	lite lole Size 1/2" 1/4" 1/4" Test I Oji	22 I Data 32 Gas 1	Delive 2/14/1 38 Oil 197	Date 6  28 Casing 1  ry Date 16	3 3/8" 9 5/8" 5 1/2" 2 7/8"  33 7 12	Test Date / 2/14/16 Water / 3215	14033'  29 Dep  81  453  140  858  34 Test L  24 H	0' 34' 35' 83' Length Irs	9290-139	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550#  41 Test Method Flowing
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16 37 Choke Si 44/64"	lite lole Size 1/2" 1/4" 3/4" Test I Ojt i ize	Data  32 Gas 1	Delive 2/14/1 38 Oil 197 s of the	Date 6  28 Casing 1  ry Date 16	3 3/8" 9 5/8" 5 1/2" 2 7/8" 33 7 12 39 servation 1	Test Date / 2/14/16 Water / 3215 Division have	14033'  29 Dep  81  453  140  858  34 Test L  24 H	0' 34' 35' 83' Length Irs	9290-139	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550#  41 Test Method Flowing
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16 37 Choke Si 44/64" 42 I hereby cert been complied complete to the	Test I  Oit  ite	Data  32 Gas 1  t the rule and that the	Delive 2/14/1 38 Oil 197 s of the information of the control of th	Date 6  28 Casing 1  ry Date 6  Coil Consermation give	3 3/8" 9 5/8" 5 1/2" 2 7/8" 33 7 12 39 servation I	Test Date/2/14/16 Water 3215 Division have is true and	14033' 29 Dep 81 453 140 858 34 Test L 24 H	0' 34' 35' 83' Length Irs	9290-139	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550#  41 Test Method Flowing
21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16 37 Choke Si 44/64" 42 I hereby cert been complied	Test I  Oit  ite	Data  32 Gas 1  t the rule and that the	Delive 2/14/1 38 Oil 197 s of the information of the control of th	Date 6  28 Casing 1  ry Date 6  Coil Consermation give	3 3/8" 9 5/8" 5 1/2" 2 7/8" 33 7 12 39 servation I	Test Date/2/14/16 Water 3215 Division have is true and	14033'  29 Dep  81  453  140  858  34 Test L  24 H	0' 34' 35' 83' Length Irs	9290-139  i	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550#  41 Test Method Flowing
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21 Spud Da 7/4/16 27 Ho 17 12 8 3 V. Well 31 Date New 12/14/16 37 Choke Si 44/64" 42 I hereby cert been complied complete to the Signature	lite Size 1/2" 1/4" 3/4" Test I Oil ize with an e best o	Data  32 Gas 1  t the rule and that the	Delive 2/14/1 38 Oil 197 s of the information of the control of th	Date 6  28 Casing 1  ry Date 6  Coil Consermation give	3 3/8" 9 5/8" 5 1/2" 2 7/8" 33 7 12 39 servation I	Test Date / 2/14/16 Water / 3215 Division have is true and	14033'  29 Dep  81  453  140  858  34 Test L  24 H  40 Ga  504	oth Set 10' 34' 35' 83' Length Irs	9290-139  i	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550#  41 Test Method Flowing
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V. Well  31 Date New 12/14/16  37 Choke Si 44/64"  42 I hereby cert been complied complete to the Signature  Printed name: Stormi Davi Title: Regulatory E-mail Address sdavis@com	Test I Oit is Analys s:	Data  32 Gas  1  a the rule and that the f my known  st	Delive 2/14/1  38 Oil 197 s of the information of t	Date 6  28 Casing  1  ry Date 16  e Oil Consemation give and believed.	3 3/8" 9 5/8" 5 1/2" 2 7/8" 33 7 12 39 servation I	Test Date / 2/14/16 Water / 3215 Division have is true and	14033' 29 Dep 81 453 140 858 34 Test L 24 H 40 Ga 504	oth Set 10' 34' 35' 83' Length Irs	9290-139  i	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550# 41 Test Method Flowing ON
V. Well  To the signature of the signatu	Test I Oit is Analys s:	Data  32 Gas  1  a the rule and that the f my known  st	Delive 2/14/1  38 Oil 197 s of the information of t	Date 6  28 Casing  1  ry Date 16  e Oil Consemation give and believed.	3 3/8" 9 5/8" 5 1/2" 2 7/8"  33 7 12 39 servation I wen above ef.	Test Date / 2/14/16 Water / 3215 Division have is true and	14033' 29 Dep 81 453 140 858 34 Test L 24 H 40 Ga 504	oth Set 10' 34' 35' 83' Length Irs	9290-139  i	og. Pres 650#	30 Sac	cks Cement 660 1470 2090  36 Csg. Pressure 550# 41 Test Method Flowing ON

Form 3160-4 (August 2007)

## **HOBBS OCD**

**UNITED STATES** DEPARTMENT OF THE INTERIOR

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

## BUREAU OF LAND MANAGEMENT JAN 2 6 2017 WELL COMPLETION OR RECOMPLETION REPORT AND LOG

	WELL (	COMPL	ETION O	R RE	CON	/IPLET	ION R	EPO	RT	AND L	.OG				ease Serial I			
la. Type of	f Well	Oil Well	☐ Gas \	Well		ry [	Other	R	E	CEN	/EL	)		6. If	Indian, Alle	ottee	or Tribe N	Vame
	f Completion		_	☐ Wor			Deepen		Plug	Back	☐ Dif	f. Re	svr.					
		Oth	er											7. Uı	nit or CA A	green	nent Nam	e and No.
2. Name of COG P	Operator RODUCTIO	N LLC	E	-Mail: s		Contact: @conch	STORM lo.com	IDAVI	IS						ase Name a			
3. Address	2208 WES									o. (include 8-6946	e area co	ode)		9. Al	PI Well No.		30-02	5-43212
4. Location	Sec 29	T24S R	ion clearly an	d in acc	ordano	ce with F	ederal rec	uireme	ents	)*					ield and Po /C; BONE			ory
At surfa			. 1780FWL											11. S	Sec., T., R., r Area Sec	M., o	r Block a	nd Survey 2E Mer NMF
At total		29 T245	S R32E Mer NL 1671FWL											12. C	County or P		13.	State NM
14. Date Sp 07/04/2	oudded		15. Da	ate T.D. /15/201		ned	/		8	Complete A 🔀	ed Ready	to Pro	od.		Elevations (	DF, K 95 Gl	B, RT, G	
18. Total D	epth:	MD TVD	14035 9120	5	19. F	Plug Bac	k T.D.:	MD TV			033,	T	20. Dep	oth Brid	dge Plug Se	et:	MD TVD	
21. Type E NONE	lectric & Oth	er Mecha	nical Logs R	un (Sub	mit co	py of eac	eh)				22. W W D	as w as D irecti	ell corec ST run? onal Su	d? rvey?	No No No No No	☐ Ye	es (Submi	it analysis) it analysis) it analysis)
23. Casing ar	nd Liner Reco	ord (Repo	ort all strings	set in w	ell)													
Hole Size	Size/G	rade	Wt. (#/ft.)	Toj (MI		Botton (MD)		Cemer Depth	nter		f Sks. & of Ceme		Slurry (BB		Cement	Гор*	Amo	ount Pulled
17.500	13.	375 J55	54.5		0	8	10					660				(		
12.250	9.	625 J55	40.0		0	45	34				1	470				(		
8.750	5.5	00 P110	17.0		0	140	35				2	090				1740		
					_													
24. Tubing						_						_				_		
	Depth Set (N		acker Depth		Siz	e D	epth Set (	MD)	P	acker Dep	oth (MD	)	Size	De	pth Set (M)	D)	Packer	Depth (MD)
2.875		8583		8564			26 P 6	t' P		1								
25. Produci						_	26. Perfor					_	22	_				
	ormation		Тор			tom	]	Perfora		Interval		$\vdash$	Size		No. Holes		Perf.	Status
A)	BONE SPI	RING		9290		13985				9290 TC	13985	-	0.4	30	1364	OPE	EN	
B)		$\rightarrow$		$\rightarrow$		-			_			╀		+		_		
C)		$\overline{}$		$\rightarrow$		_						$\vdash$		+		$\vdash$		2
D)	metrus Tuest		C	Eta														
			ment Squeeze	, Etc.					Α.		1 T	CM	41-1			_		
	Depth Interva		985 SEE AT	TACHE					Ai	mount and	1 Type (	or Ma	iteriai					
	929	0 10 13	905 SEE AT	TACHEL							_	_						
28 Product	ion - Interval	A							_									
Date First	Test	Hours	Test	Oil	G	Gas	Water	O	Oil Gr	ravity	G	as		Producti	ion Method			
Produced	Date	Tested	Production	BBL	N	MCF	BBL	C	Corr.			ravity						
12/14/2016	12/14/2016	24		197.	_	504.0	3215	_							FLOV	VS FF	ROM WEL	L
Choke Size 44/64	Tbg. Press. Flwg. 650 SI	Csg. Press. 550.0	24 Hr. Rate	Oil BBL 197	N	Gas MCF 504	Water BBL 321	R	Gas:O Ratio	nl	l w	ell Sta	tus					
	tion - Interva								_									
Date First	Test	Hours	Test	Oil	G	Gas	Water	0	il Gr	ravity	G	as		Producti	on Method			
Produced	Date	Tested	Production	BBL		ИСБ	BBL		Corr.			avity						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL		Gas:O Latio	ril	W	ell Sta	tus		,			

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #364520 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Prod	luction - Interv	val C									
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity		Gas	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API		Gravity		
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status	-	
Size	SI	11033.			Mei	l bbc	Rano				
28c. Prod	luction - Interv	val D									
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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status		
29. Dispo	osition of Gas	Sold, use	d for fuel, ven	ted, etc.)							
	nary of Porous	Zones (	nclude Aquife	erc).					31 F	formation (Log) Markers	
Show tests,	all important	zones of	porosity and c	ontents there	eof: Cored e tool oper	intervals and	d all drill-stem d shut-in press	ures			
	Formation		Тор	Bottom		Descripti	ons, Contents,	etc.		Name	Top Meas. Depth
BRUSHY BONE SF	NYON CANYON CANYON PRING LM	(include stimulatio	4594 4619 5530 6897 8511	4618 5529 6896 8510 9135					E L E	RUSTLER OS OS AMAR BELL CANYON CHERRY CANYON BRUSHY CANYON SONE SPRING LM	772 1076 4368 4594 4619 5530 6897 8511
33. Circle	e enclosed atta	chments:									
	ectrical/Mecha					2. Geologi	-		3. DST I		onal Survey
5. Su	andry Notice fo	or pluggi	ng and cement	verification		6. Core An	alysis		7 Other:		
34. I here	eby certify that	t the fores	oing and attac	ched informs	tion is co	mplete and co	orrect as determ	nined from	m all availal	ble records (see attached instruc	tions):
	,,			ronic Subm	ission #36	4520 Verifie	ed by the BLM N LLC, sent	I Well In	formation :		,
Name	e (please print)	STORM	// DAVIS				Title	e PREP	ARER		
Signa	ature	(Electro	onic Submiss	ion)			Date	e <u>01/23/</u>	2017		
Title 18 U	U.S.C. Section nited States any	1001 and y false, fi	d Title 43 U.S. ctitious or frac	C. Section 1 lulent statem	212, make ents or rep	e it a crime for oresentations	or any person k as to any matt	nowingly er within	and willful its jurisdicti	ly to make to any department or on.	agency

Form 3160-5 (June 2015)

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

HOBBS OCD

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

SUNDRY	NOTICES AND REPO	RTS ON W	ELLS e-enter an		5. Lease Serial No. NMNM120908	
abandoned we	is form for proposals to II. Use form 3160-3 (AP	D) for such p	proposals. 2 6	.017	6. If Indian, Allottee of	r Tribe Name
SUBMIT IN	TRIPLICATE - Other ins	tructions on	Page ECEIV	VED	7. If Unit or CA/Agree	ement, Name and/or No.
Type of Well     Gas Well □ Oth	ner				8. Well Name and No. AZORES FEDER	AL 8H
2. Name of Operator COG PRODUCTION LLC	Contact: E-Mail: sdavis@co	STORMI DA	VIS		9. API Well No. 30-025-43212	
3a. Address 2208 WEST MAIN ARTESIA, NM 88210		3b. Phone No Ph: 575-74	o. (include area code) 48-6946		10. Field and Pool or WC; BONE SPR	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	)			11. County or Parish,	State
Sec 29 T24S R32E Mer NMP	SESW 210FSL 1780FW	L			LEA COUNTY,	NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE OF	NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
□ Notice of Intent	☐ Acidize	☐ Dee	epen	☐ Product	tion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hyo	draulic Fracturing	☐ Reclam	ation	■ Well Integrity
Subsequent Report	☐ Casing Repair	□ Nev	w Construction	☐ Recomp	plete	Other
☐ Final Abandonment Notice	☐ Change Plans	Plug	g and Abandon	☐ Tempor	rarily Abandon	
	☐ Convert to Injection	Plug	g Back	☐ Water I	Disposal	
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide I operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No. o sults in a multip	locations and measur on file with BLM/BIA le completion or reco	ed and true von Required sumpletion in a	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
8/24/16 Test 9 5/8" x 5 1/2" a	nnulus to 1500#. Good to	est. Ran CBI	L. TOC @ 1740'.			
11/1/16 to 11/9/16 Perforate 9 sand & 10,783,542 gal fluid. 12/1/16 to 12/2/16 Drilled out			al 7 1/2% acid; fra	ac w/9,242,	838#	
12/3/16 to 12/4/16 Set 2 7/8"	6.5# L-80 tbg @ 8583' &	pkr @ 8564'.	Installed gas-lift	system.		
12/11/16 Began flowing back	& testing.					
12/14/16 Date of 1st producti	on.					
14. I hereby certify that the foregoing is	Electronic Submission #		d by the BLM Well LLC, sent to the I		n System	
Name (Printed/Typed) STORMII	DAVIS		Title PREPAR	RER		
Signature (Electronic S	Submission)		Date 01/23/20	)17		
	THIS SPACE FO	OR FEDERA	AL OR STATE	OFFICE U	SE	
						D.
Approved By			Title			Date
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to condu-	uitable title to those rights in the		Office			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## AZORES FEDERAL #8H (30-025-43212)

	Perfs	7 1/2% Acid (Gal)	Sand (#)	Fluid (Gal)
	1	4032	296565	372414
	2	2982	300608	345534
HOBBS OCD	3	3024	300301	396648
	4	3024	304473	349356
JAN 26 2017	5	3024	300062	368382
	6	3024	253412	316890
RECEIVED	7	3024	301716	349020
	8	3024	300624	383082
	9	3024	301215	341922
	10	3024	297685	392112
	11	3066	301553	345702
	12	3024	300206	348852
	13	3024	301905	343476
	14	3024	302973	346584
	15	3024	299349	346332
	16	3024	299368	340620
	17	3024	300244	338394
	18	3024	300695	345576
	19	3024	299553	344358
	20	3024	300915	331590
	21	3024	300963	341628
	22	3024	301214	345240
	23	3150	300034	342594
	24	3024	281757	325038
	25	3024	298888	333438
	26	3276	298771	343056
	27	2982	298653	342216
	28	2982	298285	341754
	29	3024	300201	337596
	30	3024	300491	340704
	31	3024	300159	343434

95046

9242838

10783542

**Totals** 

		Distance	01. 4		Distance			Distance	01.4	St	Distance	61		Distance	D1 4
	Stage 1	Between Perfs	Shots	Stage 2	Between Perfs	Shots	Stage 3	Between Perfs	Shots	Stage 4	Between Perfs	Shots	Stage 5	Between Perfs	Shots
	13,985	38	14	13,832	38	14	13,681	36	14	13,527	38	14	13,374	38	14
	13,947	38	12	13,794	. 38	12	13,641	38	12	13,486	35	12	13,336	38	12
From	13,909	39	10	13,756	39	10	13,603	38	10	13,451	39	10	13,298	31	10
Bottom to Top	13,870		8	13,717		8	13,565		8	13,412		8	13,267		8
to rop															
	Di Di	156		Di	152		DI	454	- 44	Di	158	44	Dhua ta Dhua	149	44
	Plug to Plug Frac Plug	14,007	44 Total Shots	Plug to Plug Frac Plug	13,851	44 Total Shots	Plug to Plug Frac Plug	151	44 Total Shots	Plug to Plug Frac Plug	13,548	44 Total Shots	Plug to Plug Frac Plug	13,390	Total Shots
	FracFlug	14,007	Total Shots	Tracring	13,031	Total Silots	rrac riug	13,000	Total Silots	reac rang	19,540	Total Silots	r rac r rag	10,550	Total Silots
		Distance			Distance			Distance			Distance			Distance	
	Stage 6	Between Perfs	Shots	Stage 7	Between Perfs	Shots	Stage 8	Between Perfs	Shots	Stage 9	Between Perfs	Shots	Stage 10	Between Perfs	Shots
	13,222	45	14	13,069	38	14	12,916	38	14	12,764	41	14	12,610	39	14
	13,183	38	12	13,035	42	12	12,878	38	12	12,725	38	12	12,574	39	12
From	13,145	38	10	12,993	39	10	12,840	35	10	12,687	38	10	12,535	39	10
Bottom	13,107	r e	8	12,954		8	12,805		8	12,649		8	12,496		8
to Top								-							
												_			
	Plug to Plug	153	44	Plug to Plug	160	44	Plug to Plug	145	44	Plug to Plug	153	44	Plug to Plug	164	44
	Frac Plug	13,241	Total Shots	Frac Plug	13,088	Total Shots	Frac Plug	12,928	Total Shots	Frac Plug	12,783	Total Shots	Frac Plug	12,630	Total Shots
,	riac riug	13,241	Total Shots	FracFlug	13,000	Total Shots	Frac Flug	12,320	Total anots	Frac Flug	12,703	Total Shots	Frac Flug	12,030	Total Shots
		Distance	7		Distance			Distance			Dieter		THE PERSON	Dieter	
	Stage 11	Distance Between Perfs	Shots	Stage 12	Distance Between Perfs	Shots	Stage 13	Distance Between Perfs	Shots	Stage 14	Distance Between Perfs	Shots	Stage 15	Distance Between Perfs	Shots
	40.450		44	12 205		44	40.400		41	44.005		44	44.047		- 11
	12,456 12,420	40	14	12,305 12,267	39 38	14	12,160 12,115	31	14	11,995 11,962	43 35	14	11,847 11,809	39 38	14
From	12,379	35	10	12,229	38	10	12,115	38	10	11,902	41	10	11,771	38	10
Bottom	12,344		8	12,191	- 00	8	12,038		8	11,886		8	11,733	- 00	8
to Top															
				-	470		BL .	107		BI.	100			180	
	Plug to Plug	141	44 T-1-1-01-1-1-	Plug to Plug	153	44 T-1-1-011	Plug to Plug	167	44 T-1-1-011	Plug to Plug	139	44	Plug to Plug	152	44 T-1-1-01-4-
	Frac Plug	12,466	Total Shots	Frac Plug	12,325	Total Shots	Frac Plug	12,172	Total Shots	Frac Plug	12,005	Total Shots	Frac Plug	11,866	Total Shots
							-								
	Stage 16	Distance Between Perfs	Shots	Stage 17	Distance Between Perfs	Shots	Stage 18	Distance Between Perfs	Shots	Stage 19	Distance Between Perfs	Shots	Stage 20	Distance Between Perfs	Shots
	11,695	38	14	11,542	38	14	11,389	39	14	11,240	35	14	11,084	38	14
	11,657	39	12	11,501	35	12	11,351	38	12	11,199 11,160	39 38	12	11,046 11,009	37 40	12
From	11 619	38	10		38	10	11 313								
Bottom	11,618	38	10	11,466	38	10	11,313	38	10		30			40	
	11,618	38	8	11,466 11,428	38	10	11,313 11,275	38	8	11,122	36	8	10,969	40	8
Bottom		38			38			38			30			40	
Bottom		38			38			38			30			40	
Bottom	11,580		8	11,428		8	11,275		8	11,122		8	10,969		8
Bottom	Plug to Plug	152	44	11,428 Plug to Plug	154	44	11,275 Plug to Plug	152	44	11,122 Plug to Plug	153	44	10,969 Plug to Plug	155	8
Bottom	11,580		8	11,428		8	11,275		8	11,122		8	10,969		8
Bottom	Plug to Plug	152 11,714	44	11,428 Plug to Plug	154 11,562	44	11,275 Plug to Plug	152 11,408	44	11,122 Plug to Plug	153 11,256	44	10,969 Plug to Plug	155 11,103	8
Bottom	Plug to Plug Frae Plug	152 11,714 Distance	44	11,428 Plug to Plug Frac Plug	154 11,562 Distance	44	Plug to Plug Frac Plug	152 11,408	44	Plug to Plug Frae Plug	153 11,256 Distance	44	Plug to Plug Frac Plug	155 11,103 Distance	8
Bottom	Plug to Plug	152 11,714	44 Total Shots	Plug to Plug Frac Plug Stage 22	154 11,562	8  44  Total Shots	Plug to Plug Frac Plug Stage 23	152 11,408	8  44  Total Shots	Plug to Plug Frac Plug Stage 24	153 11,256	44 Total Shots	Plug to Plug Frac Plug Stage 25	155 11,103	44 Total Shots
Bottom	Plug to Plug Frac Plug Stage 21	152 11,714 Distance Between Perfs	44 Total Shots Shots	Plug to Plug Frac Plug Stage 22	154 11,562 Distance Between Perfs	44 Total Shots Shots	Plug to Plug Frac Plug Stage 23	152 11,408 Distance Between Perfs	44 Total Shots Shots	Plug to Plug Frac Plug Stage 24	153 11,256 Distance Between Perfs	44 Total Shots Shots	Plug to Plug Frac Plug Stage 25	155 11,103 Distance Between Perfs	44 Total Shots Shots
Bottom to Top	Plug to Plug Frac Plug Stage 21 10,931 10,893	152 11,714 Distance Between Perfs 38 38	44 Total Shots Shots 14 12	Plug to Plug Frac Plug Stage 22 10,779 10,740	154 11,562 Distance Between Perfs 36 38	44 Total Shots Shots	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585	152 11,408 Distance Between Perfs 38 35	44 Total Shots Shots 14 12	11,122 Plug to Plug Frac Plug Stage 24 10,473 10,435	153 11,256 Distance Between Perfs 38 38	44 Total Shots Shots 14 12	Plug to Plug Frac Plug Stage 25 10,321 10,282	155 11,103 Distance Between Perfs 44 38	44 Total Shots Shots 14 12
Bottom	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855	152 11,714 Distance Between Perfs	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702	154 11,562 Distance Between Perfs	8  44  Total Shots  Shots  14  12  10	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550	152 11,408 Distance Between Perfs	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397	153 11,256 Distance Between Perfs	8  44  Total Shots  Shots  14  12  10	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244	155 11,103 Distance Between Perfs	44 Total Shots Shots 14 12 10
Bottom to Top	Plug to Plug Frac Plug Stage 21 10,931 10,893	152 11,714 Distance Between Perfs 38 38	44 Total Shots Shots 14 12	Plug to Plug Frac Plug Stage 22 10,779 10,740	154 11,562 Distance Between Perfs 36 38	44 Total Shots Shots	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585	152 11,408 Distance Between Perfs 38 35	44 Total Shots Shots 14 12	11,122 Plug to Plug Frac Plug Stage 24 10,473 10,435	153 11,256 Distance Between Perfs 38 38	44 Total Shots Shots 14 12	Plug to Plug Frac Plug Stage 25 10,321 10,282	155 11,103 Distance Between Perfs 44 38	44 Total Shots Shots 14 12
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855	152 11,714 Distance Between Perfs 38 38	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702	154 11,562 Distance Between Perfs 36 38	8  44  Total Shots  Shots  14  12  10	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550	152 11,408 Distance Between Perfs 38 35	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397	153 11,256 Distance Between Perfs 38 38	8  44  Total Shots  Shots  14  12  10	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244	155 11,103 Distance Between Perfs 44 38	44 Total Shots Shots 14 12 10
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855	152 11,714 Distance Between Perfs 38 38	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702	154 11,562 Distance Between Perfs 36 38	8  44  Total Shots  Shots  14  12  10	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550	152 11,408 Distance Between Perfs 38 35	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397	153 11,256 Distance Between Perfs 38 38	8  44  Total Shots  Shots  14  12  10	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244	155 11,103 Distance Between Perfs 44 38	44 Total Shots Shots 14 12 10
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855	152 11,714 Distance Between Perfs 38 40	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702	154 11,562  Distance Between Perfs 36 38 38	8  44  Total Shots  Shots  14  12  10	11,275  Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550	152 11,408 Distance Between Perfs 38 35	8  44  Total Shots  Shots  14  12  10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397	153 11,256 Distance Between Perfs 38 38	8  44  Total Shots  Shots  14  12  10	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244	155 11,103 Distance Between Perfs 44 38 38	44 Total Shots Shots 14 12 10
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug	152 11,714 Distance Between Perfs 38 38 40	8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug	154 11,562 Distance Between Perfs 36 38 38	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug	152 11,408 Distance Between Perfs 38 35 39	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 24  10.473 10.435 10.397 10.365	153 11,256 Distance Between Perfs 38 38 32	8  44 Total Shots  Shots  14 12 10 8	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206	155 11,103 Distance Between Perfs 44 38 38	8 44 Total Shots Shots 14 12 10 8
Bottom to Top	Plug to Plug Frac Plug Stage 21 10,931 10,893 10,855 10,815	152 11,714 Distance Between Perfs 38 40	8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug Stage 22 10,779 10,740 10,702	154 11,562  Distance Between Perfs 36 38 38	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511	152 11,408 Distance Between Perfs 38 35 39	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug Stage 24 10.473 10.435 10.397 10.365	153 11,256 Distance Between Perfs 38 38 32	44 Total Shots Shots 14 12 10 8	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206	155 11,103 Distance Between Perfs 44 38 38	8 44 Total Shots Shots 14 12 10 8
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug	152 11,714 Distance Between Perfs 38 38 40	8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug	154 11,562 Distance Between Perfs 36 38 38	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug	152 11,408 Distance Between Perfs 38 35 39	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 24  10.473 10.435 10.397 10.365	153 11,256 Distance Between Perfs 38 38 32	8  44 Total Shots  Shots  14 12 10 8	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206	155 11,103 Distance Between Perfs 44 38 38	8 44 Total Shots Shots 14 12 10 8
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug	152 11,714 Distance Between Perfs 38 38 40	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 10,798	44 Total Shots Shots 14 12 10 8 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug	152 11,408 Distance Between Perfs 38 35 39 157 10,645	44 Total Shots Shots 14 12 10 8 Total Shots	Plug to Plug Frac Plug  Stage 24  10.473 10.435 10.397 10.305  Plug to Plug Frac Plug	153 11,256 Distance Between Perfs 38 38 32 148 10,488	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,208  Plug to Plug Frac Plug	155 11,103 Distance Between Perfs 44 38 38 38 10,340	44 Total Shots Shots 14 12 10 8 Total Shots
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug	152 11,714 Distance Between Perfs 38 38 40	8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug	154 11,562 Distance Between Porfs 36 38 38 38	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug	152 11,408 Distance Between Perfs 38 35 39	44 Total Shots Shots 14 12 10 8	Plug to Plug Frac Plug  Stage 24  10.473 10.435 10.397 10.365	153 11,256 Distance Between Perfs 38 38 32	8  44 Total Shots  Shots  14 12 10 8	10,989  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206	155 11,103 Distance Between Perfs 44 38 38 38	8 44 Total Shots Shots 14 12 10 8
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26	152 11,714 Distance Between Perfs 38 38 40	Shots  Shots  14 12 10 8  Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27	154 11,562  Distance Between Perfs 36 38 38 153 10,798  Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots	Plug to Plug Frac Plug Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug Stage 28	152 11,408 Distance Between Perfs 38 35 39 157 10,645	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs	44 Total Shots Shots 14 12 10 8 Total Shots Shots	Plug to Plug Frac Plug Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug Stage 30	155 11,103 Distance Between Perfs 44 38 38 38 10,340	44 Total Shots Shots 14 12 10 8 Total Shots Shots
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots	Plug to Plug Frac Plug Stage 23 10,626 10,585 10,550 10,511 Plug to Plug Frac Plug Stage 28 9,864 9,824	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,669	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,284 10,206  Plug to Plug Frac Plug  Stage 30  0,557 9,519	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots
Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,183 10,092	152 11,714 Distance Between Perfs 38 40 150 10,948 Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 10 11 11 11 11 11 11 11 11 11 11 11 11	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939	Distance Between Perfs  36  38  38  31  153  10,798  Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786	152 11,408 Distance Between Perfs 38 35 39 157 10,645	44 Total Shots Shots 14 12 10 8  444 Total Shots  Shots 14 12 10 10 11 11 12 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634	153 11,256  Distance Between Perfs 38 38 32  148 10,488  Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  Shots  14 12 10	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481	Distance Between Perfs 44 38 38 153 10,340  Distance Between Perfs	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 11 11 11 11 11 11 11 11 11 11
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots	Plug to Plug Frac Plug Stage 23 10,626 10,585 10,550 10,511 Plug to Plug Frac Plug Stage 28 9,864 9,824	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,669	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,284 10,206  Plug to Plug Frac Plug  Stage 30  0,557 9,519	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,183 10,092	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 10 11 11 11 11 11 11 11 11 11 11 11 11	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8  444 Total Shots  Shots 14 12 10 10 11 11 12 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  Shots  14 12 10	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 11 11 11 11 11 11 11 11 11 11
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,183 10,092	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 10 11 11 11 11 11 11 11 11 11 11 11 11	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8  444 Total Shots  Shots 14 12 10 10 11 11 12 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  Shots  14 12 10	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 11 11 11 11 11 11 11 11 11 11
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,183 10,092	152 11,714 Distance Between Perfs 38 38 40 150 10,948 Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 10 11 11 11 11 11 11 11 11 11 11 11 11	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8  444 Total Shots  Shots 14 12 10 10 11 11 12 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  Shots  14 12 10	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 11 11 11 11 11 11 11 11 11 11
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,183 10,092	152 11,714 Distance Between Perfs 38 38 40 150 10,948 Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 10 11 11 11 11 11 11 11 11 11 11 11 11	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38	44 Total Shots Shots 14 12 10 8  444 Total Shots  Shots 14 12 10 10 11 11 12 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  Shots  14 12 10	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38	44 Total Shots Shots 14 12 10 8 Total Shots Shots 14 12 10 10 10 11 11 11 11 11 11 11 11 11 11
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 39	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900	154 11,562  Distance Between Perfs 36 38 38 38 163 10,798  Distance Between Perfs 38 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  41 10 8 8  Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786 9,748	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38 38	444 Total Shots Shots 14 12 10 8 44Total Shots Shots 14 12 10 8 10 8 1 10	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,669 9,634 9,596	153 11,256  Distance Between Perfs 38 38 32  148 10,488  Distance Between Perfs 38 35 39	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30	44 Total Shots Shots 14 12 10 8  44 Total Shots  44 Total Shots  Shots 14 12 10 8
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,188 10,133 10,092 10,053	152 11,714 Distance Between Perfs 38 40 150 10,948 Distance Between Perfs 38 41 39	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900	154 11,562  Distance Between Perfs 36 38 38 153 10,798  Distance Between Perfs 38 38 39	44 Total Shots Shots 14 12 10 8  444 Total Shots  14 12 10 8 444 Total Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786 9,748  Plug to Plug	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 36 38 38	44 Total Shots Shots 14 12 10 8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,689 9,634 9,595	153 11,256  Distance Between Perfs 38 38 10,488  Distance Between Perfs 38 35 39	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44 44 44 44 44 44	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451	155 11,103  Distance Between Perfs 44 38 38 10,340  Distance Between Perfs 38 38 30 153	44 Total Shots Shots 14 12 10 8  44 Total Shots  14 12 10 8 44 Total Shots  14 12 10 8
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,188 10,133 10,092 10,053  Plug to Plug Frac Plug	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900	154 11,562  Distance Between Perfs 36 38 38 10,798  Distance Between Perfs 38 38 39  1444 10,026	44 Total Shots Shots 14 12 10 8  444 Total Shots  14 12 10 8 444 Total Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786 9,748  Plug to Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 36 38 38 151 151 9,882	44 Total Shots Shots 14 12 10 8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,689 9,634 9,595	153 11,256  Distance Between Perfs 38 32  148 10,488  Distance Between Perfs 38 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44 44 44 44 44 44	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451	155 11,103  Distance Between Perfs 44 38 38 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots  Shots  14 12 10 8  44 Total Shots  14 12 10 8  Shots
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,188 10,133 10,092 10,053	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38 38 39  1444 10,026	44 Total Shots Shots 14 12 10 8  444 Total Shots  14 12 10 8 444 Total Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786 9,748  Plug to Plug	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 38 38 38 38	44 Total Shots Shots 14 12 10 8  44 Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,689 9,634 9,595	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44  10 8  44 44 44 44 44 44 44 44 44 44 44 44	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots  Shots  14 12 10 8  44 Total Shots  14 12 10 8  Shots
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  9,405	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 10,187  Distance Between Perfs 46	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38  153 10,798  Distance Between Perfs 38 38 39  1444 10,026	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug	152 11,408 Distance Between Perfs 38 35 39 157 10,645 Distance Between Perfs 38 38 38 38	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 38 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  Plug to Plug Frac Plug	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  9,405 9,306 9,328	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 10,187  Distance Between Perfs 46	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  Plug to Plug Frac Plug	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  9,405 9,306 9,328	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  9,405 9,306 9,328	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frac Plug  Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug  Stage 28  9,864 9,748  Plug to Plug Frac Plug  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,596  Plug to Plug Frac Plug	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots	Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frac Plug	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 14 12 10 8
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  Stage 31  Plug to Plug Frac Plug	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs 46 38 38 38	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots	Plug to Plug Frac Plug Stage 22 10,779 10,740 10,702 10,604  Plug to Plug Frac Plug Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug Stage 32	154 11,562  Distance Between Perfs 36 38 38 153 10,798  Distance Between Perfs 38 39 144 10,026  Distance Between Perfs 9290	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots  Shots 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug Stage 28  9,864 9,824 9,786 9,748  Plug to Plug Frac Plug Stage 28  Plug to Plug Stage 33	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 36 38 38  151 9,882  Distance Between Perfs 0	## A44 ## Total Shots  Shots  14 12 10 8 ## A44 ## Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,595  Plug to Plug Frac Plug  Stage 34	153 11,256  Distance Between Perfs 38 39 10,488  Distance Between Perfs 38 35 39  157 9,731  Distance Between Perfs 0	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 Total Shots  Shots  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frae Plug  Stage 25  10,321 10,282 10,282 10,244 10,206  Plug to Plug Frae Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frae Plug  Stage 35	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30  150 9,574  Distance Between Perfs 0	44 Total Shots Shots 14 12 10 8  44 Total Shots  Shots 44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  Shots  Shots  Add Total Shots
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  9,405 9,366 9,328 9,290  Plug to Plug Plug to Plug	152 11,714  Distance Between Perfs 38 38 40  150 10,948  Distance Between Perfs 38 41 39  Distance Between Perfs 46 38 38 38	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  A4 Total Shots  Shots  14 12 10 8  44 Total Shots	Plug to Plug Frac Plug Stage 22  10,779 10,740 10,702 10,664  Plug to Plug Frac Plug  Stage 27  10,015 9,977 9,939 9,000  Plug to Plug Frac Plug  Stage 32	154 11,562  Distance Between Perfs 36 38 38 38 10,798  Distance Between Perfs 38 39  Distance Between Perfs 38 Distance Between Perfs 38 39	44 Total Shots  Shots  14 12 10 8  444 Total Shots  Shots  14 12 10 8  Shots  Shots  44 Total Shots	Plug to Plug Frac Plug Stage 23  10,626 10,585 10,550 10,551  Plug to Plug Frac Plug  Stage 28  9,864 9,824 9,786 9,748  Plug to Plug Frac Plug  Plug to Plug Frac Plug	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 38 38 38  Ustance Between Perfs 38 38 Distance Between Perfs	### A44 ### Total Shots  Shots  14 12 10 8 ### A44 ### Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,669 9,634 9,595  Plug to Plug Frac Plug  Stage 34	153 11,256  Distance Between Perfs 38 38 38 32  148 10,488  Distance Between Perfs 35 39  157 9,731	8  44 Total Shots  Shots  14 12 10 8  Total Shots  Shots  14 Total Shots  Shots  44 Total Shots	10,969  Plug to Plug Frac Plug  Stage 25  10,321 10,282 10,244 10,206  Plug to Plug Frac Plug  Stage 30  0.557 9,519 9,481 9,451  Plug to Plug Frac Plug  Stage 35	155 11,103  Distance Between Perfs 44 38 38 38 153 10,340  Distance Between Perfs 38 30  150 9,574	44 Total Shots Shots 14 12 10 8 Total Shots Shots Shots Shots Shots Shots 14 Total Shots Shots 0
From Bottom to Top  From Bottom to Top	Plug to Plug Frac Plug  Stage 21  10,931 10,893 10,855 10,815  Plug to Plug Frac Plug  Stage 26  10,168 10,133 10,092 10,053  Plug to Plug Frac Plug  Stage 31  Stage 31  Plug to Plug Frac Plug	152 11,714  Distance Between Perfs 38 40  150 10,948  Distance Between Perfs 38 41 39  161 10,187  Distance Between Perfs 46 38 38 38	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  14 12 10 8  44 Total Shots	Plug to Plug Frac Plug Stage 22 10,779 10,740 10,702 10,604  Plug to Plug Frac Plug Stage 27  10,015 9,977 9,939 9,900  Plug to Plug Frac Plug Stage 32	154 11,562  Distance Between Perfs 36 38 38 153 10,798  Distance Between Perfs 38 39 144 10,026  Distance Between Perfs 9290	44 Total Shots Shots 14 12 10 8 44 Total Shots  Shots 44 Total Shots  Shots 44 Total Shots  Shots 44 Total Shots	Plug to Plug Frac Plug Stage 23  10,626 10,585 10,550 10,511  Plug to Plug Frac Plug Stage 28  9,864 9,824 9,786 9,748  Plug to Plug Frac Plug Stage 28  Plug to Plug Stage 33	152 11,408  Distance Between Perfs 38 35 39  157 10,645  Distance Between Perfs 36 38 38  151 9,882  Distance Between Perfs 0	## A44 ## Total Shots  Shots  14 12 10 8 ## A44 ## Total Shots  Shots  14 12 10 8	Plug to Plug Frac Plug  Stage 24  10,473 10,435 10,397 10,365  Plug to Plug Frac Plug  Stage 29  9,710 9,680 9,634 9,595  Plug to Plug Frac Plug  Stage 34	153 11,256  Distance Between Perfs 38 39 10,488  Distance Between Perfs 38 35 39  157 9,731  Distance Between Perfs 0	8  44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  44 Total Shots  44 Total Shots  Shots  44 Total Shots	Plug to Plug Frae Plug  Stage 25  10,321 10,282 10,282 10,244 10,206  Plug to Plug Frae Plug  Stage 30  9,557 9,519 9,481 9,451  Plug to Plug Frae Plug  Stage 35	155 11,103  Distance Between Perfs 44 38 38 38  153 10,340  Distance Between Perfs 38 38 30  150 9,574  Distance Between Perfs 0	44 Total Shots Shots 14 12 10 8  44 Total Shots  Shots 44 Total Shots  Shots  14 12 10 8  44 Total Shots  Shots  Shots  Shots  Add Total Shots