KOLAR Document ID: 1646137

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R East West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	County: Permit #:
Troompletion Date	Ι ΟΠΙΙΚ π

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1646137

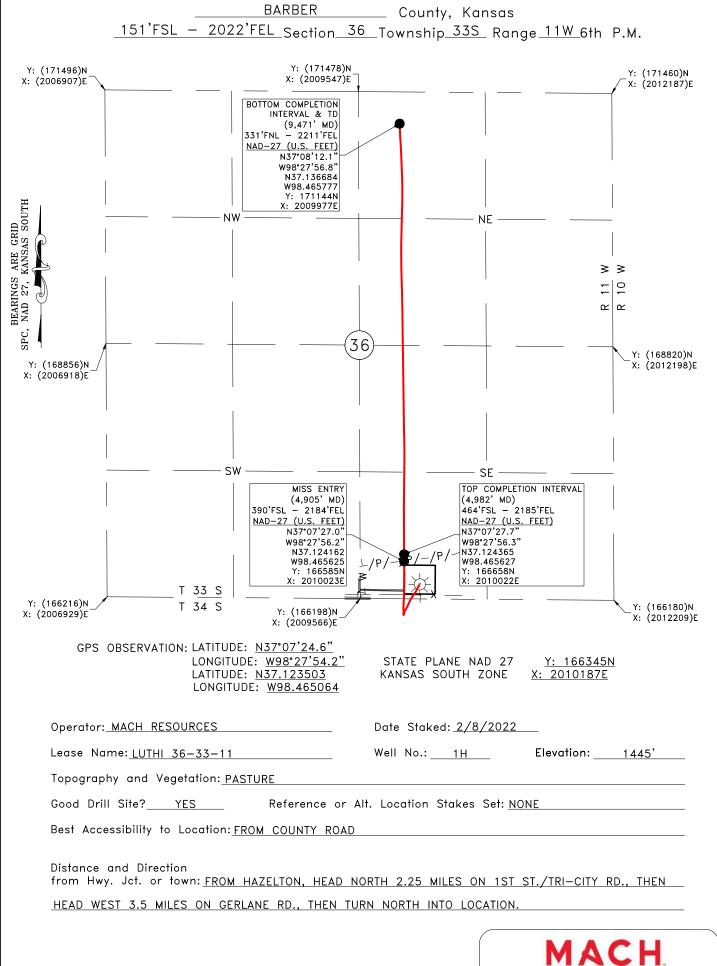
Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS	S. R	Eas	t West	County:					
	l, flowing an	d shut-in press	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit	Taken tional Sheets)			Yes No		☐ Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Logs	S		Yes No Yes No Yes No						
			Rep	CASING	RECORD [New		on, etc.		
Purpose of St	tring	Size Hole Drilled		ize Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	e of Cement	# Sacks Use	ed		Type and	Percent Additives	
Protect Ca										
Plug Off Z										
Did you perform Does the volume Was the hydraul	e of the total I	base fluid of the	hydraulic f	racturing treatment		-	Yes S? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	iction/Injection	n or Resumed Pr	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			ON INTERVAL:
Vented (//		Used on Lease		Open Hole		Dually (Submit A		nmingled	Тор	Bottom
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	ize:	Set At	:	Packer At:					

Form	ACO1 - Well Completion
Operator	BCE-Mach III LLC
Well Name	LUTHI 36-33-11 1H
Doc ID	1646137

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	9.625	40	292	Class A	170	
Intermedia te	8.75	7	26	4982	Class A	215	50/50 Poz
Liner	6.125	4.5	13.5	9471	NA	0	0



All as—drilled information that is shown is based upon information and instructions furnished by Mach Resources





BO E. 5TH ST., STE 400
EDMOND, OK 73034
OFF. (405) 285-5884
FAX (405) 285-5886
C.A. NO. 4091 (LS)
EXP. DATE 6-50-2022

EXHIBIT "A" AS-DRILLED

LUTHI 36-33-11 1H

151' FSL - 2022' FEL

SECTION 36, T 33 S - R 11 W, 6TH P.M.,
BARBER COUNTY, KANSAS

DRAW	N BY	: CLC	DATE: 4/13/22	2	снк'	D: KMC		
GATE	WAY 1	NO.: 22-0	1"=1000'					
LINE	NO.:			AFE	:			
REV.	DWN.		DESCRIPTION					
/						. ا		



Company: SB Directional Services Location: Hazelton

API or UWI: 15007244060000 **Job Number:** 322697

State: Kansas Operator: Mach Resources

County:BarberMagnetic Declination:0.00CommentProposed Azimuth:0.00

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	vs	DLS
131.00	0.62	29.07	131.00	0.62	0.34	29.07	0.71	0.62	0.47
221.00	0.66	25.81	220.99	1.51	0.81	28.08	1.71	1.51	0.06
404.00	0.79	352.37	403.98	3.71	1.10	16.48	3.87	3.71	0.24
495.00	1.49	222.34	494.97	3.46	0.22	3.60	3.47	3.46	2.29
585.00	3.65	215.57	584.87	0.26	-2.24	276.70	2.25	0.26	2.42
675.00	5.98	209.20	674.55	-6.16	-6.19	225.14	8.73	-6.16	2.65
765.00	8.88	208.28	763.78	-16.37	-11.77	215.71	20.16	-16.37	3.22
857.00	11.47	209.02	854.33	-30.63	-19.57	212.58	36.35	-30.63	2.82
952.00	10.37	205.20	947.61	-46.62	-27.80	210.80	54.28	-46.62	1.39
1043.00	9.10	203.40	1037.30	-60.64	-34.14	209.38	69.59	-60.64	1.43
1135.00	9.14	211.75	1128.14	-73.53	-40.88	209.07	84.13	-73.53	1.44
1224.00	9.27	216.14	1215.99	-85.33	-48.82	209.78	98.31	-85.33	0.80
1315.00	9.76	213.07	1305.74	-97.71	-57.36	210.41	113.30	-97.71	0.78
1404.00	10.77	215.48	1393.32	-110.81	-66.30	210.89	129.13	-110.81	1.23
1498.00	11.78	213.59	1485.50	-125.95	-76.71	211.34	147.47	-125.95	1.14
1593.00	12.44	213.72	1578.39	-142.54	-87.75	211.62	167.39	-142.54	0.70
1687.00	11.34	206.39	1670.37	-159.24	-97.48	211.47	186.71	-159.24	1.99
1782.00	9.76	204.67	1763.77	-174.93	-104.99	210.97	204.02	-174.93	1.70
1875.00	8.35	203.44	1855.60	-188.29	-110.97	210.51	218.56	-188.29	1.53

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	vs	DLS
1969.00	7.52	204.32	1948.70	-200.16	-116.22	210.14	231.45	-200.16	0.89
2063.00	7.30	205.81	2041.92	-211.14	-121.35	209.89	243.53	-211.14	0.31
2157.00	6.46	201.33	2135.24	-221.44	-125.87	209.62	254.71	-221.44	1.06
2250.00	5.27	201.77	2227.75	-230.28	-129.36	209.33	264.13	-230.28	1.28
2344.00	5.10	206.08	2321.37	-238.04	-132.80	209.16	272.58	-238.04	0.45
2439.00	5.89	214.87	2415.93	-245.83	-137.44	209.21	281.65	-245.83	1.21
2533.00	6.11	212.49	2509.42	-254.01	-142.89	209.36	291.44	-254.01	0.35
2628.00	5.32	215.13	2603.95	-261.88	-148.14	209.50	300.87	-261.88	0.88
2721.00	4.44	213.37	2696.61	-268.41	-152.60	209.62	308.75	-268.41	0.96
2816.00	5.14	202.21	2791.28	-275.42	-156.23	209.56	316.64	-275.42	1.22
2910.00	4.09	196.32	2884.97	-282.54	-158.76	209.33	324.09	-282.54	1.22
3004.00	3.21	192.68	2978.78	-288.32	-160.28	209.07	329.88	-288.32	0.97
3097.00	3.03	194.83	3071.64	-293.24	-161.48	208.84	334.76	-293.24	0.23
3191.00	2.90	188.28	3165.52	-297.99	-162.46	208.60	339.40	-297.99	0.39
3286.00	2.99	190.30	3260.39	-302.81	-163.25	208.33	344.01	-302.81	0.14
3380.00	3.12	185.78	3354.26	-307.76	-163.95	208.04	348.71	-307.76	0.29
3475.00	2.29	209.77	3449.15	-311.98	-165.15	207.89	353.00	-311.98	1.46
3569.00	1.63	202.43	3543.10	-314.85	-166.59	207.88	356.21	-314.85	0.75
3664.00	1.27	211.09	3638.07	-317.00	-167.65	207.87	358.60	-317.00	0.44
3758.00	0.62	233.10	3732.06	-318.20	-168.60	207.92	360.10	-318.20	0.78
3853.00	0.53	286.45	3827.05	-318.38	-169.43	208.02	360.66	-318.38	0.55
3943.00	0.84	259.25	3917.04	-318.39	-170.48	208.17	361.15	-318.39	0.49
3990.00	0.92	299.55	3964.04	-318.27	-171.14	208.27	361.36	-318.27	1.30
4036.00	5.32	0.68	4009.97	-315.95	-171.44	208.49	359.47	-315.95	10.74
4083.00	11.21	4.90	4056.46	-309.21	-171.02	208.95	353.36	-309.21	12.59
4131.00	16.35	3.31	4103.06	-297.81	-170.23	209.75	343.03	-297.81	10.74
4178.00	20.70	359.10	4147.62	-282.89	-169.98	211.00	330.03	-282.89	9.68
4225.00	24.22	356.64	4191.05	-264.96	-170.68	212.79	315.17	-264.96	7.75
4272.00	27.38	1.25	4233.36	-244.52	-171.01	214.97	298.39	-244.52	7.96
4319.00	31.82	2.48	4274.22	-221.33	-170.24	217.57	279.22	-221.33	9.53
4366.00	37.14	4.15	4312.95	-194.78	-168.67	220.89	257.66	-194.78	11.50
4413.00	41.63	3.23	4349.26	-165.02	-166.76	225.30	234.61	-165.02	9.63
4460.00	45.01	1.73	4383.45	-132.81	-165.38	231.23	212.11	-132.81	7.52
4507.00	48.75	2.30	4415.57	-98.54	-164.17	239.03	191.47	-98.54	8.01
4554.00	52.09	2.00	4445.52	-62.34	-162.81	249.05	174.34	-62.34	7.12

4602.00 4649.00 4696.00 4743.00 4790.00 4837.00 4882.00	54.77 58.46 59.52 59.69 59.69 60.75 66.11 69.67 75.43	0.94 0.55 0.37 359.93 358.70 358.30 359.14 359.23	4474.11 4499.97 4524.18 4547.96 4571.68 4595.03 4615.15	-23.81 15.43 55.71 96.25 136.82 177.60	-161.83 -161.32 -161.00 -160.90 -161.38	261.63 275.46 289.09 300.89 310.29	163.57 162.06 170.37 187.49	-23.81 15.43 55.71 96.25	5.86 7.88 2.28 0.88
4696.00 4743.00 4790.00 4837.00	59.52 59.69 59.69 60.75 66.11 69.67	0.37 359.93 358.70 358.30 359.14	4524.18 4547.96 4571.68 4595.03	55.71 96.25 136.82	-161.00 -160.90	289.09 300.89	170.37 187.49	55.71 96.25	2.28
4743.00 4790.00 4837.00	59.69 59.69 60.75 66.11 69.67	359.93 358.70 358.30 359.14	4547.96 4571.68 4595.03	96.25 136.82	-160.90	300.89	187.49	96.25	
4790.00 4837.00	59.69 60.75 66.11 69.67	358.70 358.30 359.14	4571.68 4595.03	136.82					0.88
4837.00	60.75 66.11 69.67	358.30 359.14	4595.03		-161.38	310.20	_		
	66.11 69.67	359.14		177.60		510.28	211.57	136.82	2.26
4882.00	69.67		4615.15		-162.45	317.55	240.69	177.60	2.37
		359.23		217.82	-163.34	323.13	272.26	217.82	12.03
4907.00	75.43		4624.56	240.97	-163.67	325.82	291.30	240.97	14.24
4947.00		359.45	4636.55	279.12	-164.11	329.55	323.79	279.12	14.41
4954.00	76.48	359.45	4638.25	285.91	-164.17	330.13	329.69	285.91	15.00
5003.00	83.21	0.11	4646.88	334.11	-164.36	333.81	372.35	334.11	13.80
5034.00	86.33	0.37	4649.71	364.98	-164.23	335.77	400.22	364.98	10.10
5065.00	87.65	359.80	4651.33	395.93	-164.18	337.48	428.62	395.93	4.64
5074.00	88.26	359.89	4651.65	404.93	-164.20	337.93	436.95	404.93	6.85
5083.00	89.19	359.36	4651.85	413.92	-164.26	338.35	445.33	413.92	11.89
5097.00	90.86	359.49	4651.85	427.92	-164.40	338.98	458.42	427.92	11.96
5117.00	92.48	0.19	4651.27	447.91	-164.46	339.84	477.15	447.91	8.82
5129.00	92.66	0.15	4650.73	459.90	-164.42	340.33	488.41	459.90	1.54
5160.00	92.88	359.89	4649.23	490.87	-164.41	341.48	517.67	490.87	1.10
5192.00	92.79	359.40	4647.65	522.83	-164.61	342.52	548.13	522.83	1.56
5223.00	93.01	359.62	4646.08	553.78	-164.88	343.42	577.81	553.78	1.00
5255.00	93.10	359.54	4644.37	585.74	-165.11	344.26	608.56	585.74	0.38
5301.00	91.52	359.93	4642.52	631.70	-165.32	345.33	652.97	631.70	3.54
5349.00	91.38	359.93	4641.30	679.68	-165.38	346.32	699.51	679.68	0.29
5396.00	91.74	359.80	4640.02	726.67	-165.49	347.17	745.27	726.67	0.81
5444.00	92.53	0.02	4638.24	774.63	-165.57	347.94	792.13	774.63	1.71
5491.00	93.45	0.02	4635.78	821.57	-165.55	348.61	838.08	821.57	1.96
5535.00	91.30	0.68	4633.96	865.53	-165.28	349.19	881.17	865.53	5.11
5582.00	89.01	0.50	4633.83	912.52	-164.80	349.76	927.28	912.52	4.89
5625.00	89.32	0.28	4634.46	955.51	-164.51	350.23	969.57	955.51	0.88
5716.00	90.20	0.81	4634.84	1046.51	-163.64	351.11	1059.23	1046.51	1.13
5808.00	90.90	0.81	4633.96	1138.50	-162.34	351.88	1150.01	1138.50	0.76
5899.00	91.91	0.99	4631.73	1229.46	-160.91	352.54	1239.94	1229.46	1.13
5989.00	89.23	359.84	4630.83	1319.44	-160.26	353.07	1329.14	1319.44	3.24
6079.00	89.14	359.49	4632.11	1409.43	-160.79	353.49	1418.57	1409.43	0.40

6109.00 89.10 359.10 4632.57 1439.42 -161.15 353.61 1448.42 1439.42 1.31 6123.00 89.19 358.96 4632.76 1453.42 -161.39 353.66 1462.35 1453.42 1.19 6139.00 89.99 358.96 4632.90 1468.42 -161.66 353.72 1477.29 1468.42 4.67 6170.00 90.37 358.92 4632.83 1500.41 -162.26 353.83 1509.16 1500.41 1.51 6216.00 90.77 358.52 4632.37 1546.40 -163.28 353.97 1554.99 1546.40 1.23 6261.00 91.16 358.66 4631.61 1591.38 -164.39 354.10 1599.84 1591.38 0.32 6307.00 90.64 358.83 4303.89 1637.36 -166.40 354.23 1645.99 1645.99 1657.36 1.19 6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.41 1728.34 -166.69 354.49 1736.36 1728.34 3.61 643.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.83 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1685.33 -166.23 354.85 1918.77 1911.32 1.84 6624.00 91.08 359.32 4630.40 1915.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 90.94 359.23 4629.69 1954.32 -168.84 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.69 1954.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4628.88 2045.30 -170.65 355.55 1961.64 1954.32 0.43 6694.00 91.16 359.23 4628.64 2091.29 -171.39 355.11 2098.31 2091.29 0.30 6804.00 91.16 359.23 4628.68 2045.30 -170.65 355.59 226.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.11 2098.31 2091.29 0.30 6804.00 91.16 359.23 4628.00 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6940.00 90.73 358.88 4627.03 2292.6 -173.53 355.55 2236.01 2229.26 2.63 6940.00 90.73 358.88 4627.03 2292.6 -173.53 355.55 2236.01 2229.26 2.63 6940.00 90.73 358.83 4628.00 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6940.00 90.93 359.40 4628.94 2250.22 26.6 -173.89 355.61 2628.99 274.24 246.22 212.24 246.20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.24 20 248.	MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	vs	DLS
6136.00 89.89 358.95 4632.90 1468.42 -161.66 353.72 1477.29 1468.42 4.67 6170.00 90.37 358.92 4632.83 1500.41 -162.26 353.83 1509.16 1500.41 1.51 6216.00 90.77 358.52 4632.37 1546.40 -163.28 353.87 1554.99 1546.40 1.23 6261.00 91.16 358.66 4631.61 1591.38 -164.39 354.10 1599.84 1591.38 0.32 6307.00 90.64 358.83 4630.89 1637.36 -165.40 354.23 1646.69 1637.36 1.19 6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 643.00 89.54 359.40 4630.58 1773.34 -166.69 354.49 1736.36 1728.34 3.61 6430.00 89.89 359.32 4630.60 1619.34 -167.99 354.74 1827.04 1819.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.99 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.99 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.67 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.32 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2184.27 172.81 355.65 2236.01 2229.26 2.63 6946.00 89.32 359.23 4628.40 2229.26 -173.89 355.57 2236.01 2229.22 2202.22 220.23 1736.00 89.93 359.05 4628.40 2370.25 -174.20 355.67 238.81 2091.29 0.30 6804.00 99.23 359.24 4629.00 2229.26 -175.89 355.67 2236.01 2229.22 22 22.2	6109.00	89.10	359.10	4632.57	1439.42	-161.15	353.61	1448.42	1439.42	1.31
6170.00 90.37 358.92 4632.83 1500.41 -162.26 353.83 1509.16 1500.41 1.51 6216.00 90.77 358.52 4632.37 1546.40 -163.28 353.97 1554.99 1546.40 1.23 6261.00 91.16 358.66 4631.61 1591.38 -164.39 354.10 1599.84 1591.38 0.92 6307.00 90.64 358.83 4630.89 1637.36 -165.40 354.23 1645.69 1637.36 1.19 6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 6443.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 654.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.46 670.00 90.24 359.23 4629.89 1954.32 -169.41 355.05 1961.64 1954.32 0.36 670.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4628.69 2229.26 -173.53 355.65 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.86 229.26 -173.53 355.65 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.67 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.53 355.56 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.53 355.59 2474.21 2134.28 1.39 6851.00 90.29 359.14 4629.20 2252.26 -173.53 355.95 2474.20 245.20 2475.20 0.46 2470.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 708.00 99.33 358.70 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 708.00 99.33 358.70 4628.04 2370.25 -174.71 355.67 236.01 2229.26 246.20 1.69 7371.00 99.12 359.74 4629.04 2559.21 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 251.22 1.774.81 356.40 2660.24 2654.20 1.69 7771.00 99.13 359.75 4628.84 2607.21 -179.83 356.00 2707.15 2701.19	6123.00	89.19	358.96	4632.78	1453.42	-161.39	353.66	1462.35	1453.42	1.19
6216.00 90.77 368.52 4632.37 1546.40 -163.28 353.97 1554.99 1546.40 1.23 6261.00 91.16 358.66 4631.61 1591.38 -164.39 354.10 1599.84 1591.38 0.32 6307.00 90.64 358.83 4630.89 1637.36 -165.40 354.23 1645.69 1637.36 1.19 6362.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 643.00 89.54 359.40 4630.58 17773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 173.9 355.51 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 175.33 355.55 2236.01 2229.26 0.86 694.00 89.32 359.47 4627.86 2323.26 1774.89 355.57 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 175.39 355.57 2262.41 2242.26 0.86 694.00 89.32 359.71 4627.85 2322.26 1773.89 355.55 226.01 2229.26 0.86 694.00 89.32 359.71 4627.85 2322.26 1773.89 355.60 2282.89 2276.26 0.86 694.00 89.32 359.74 4627.86 2323.26 174.20 355.79 2276.26 0.86 694.00 89.32 359.74 4627.85 2322.26 175.53 355.59 2474.60 2478.24 0.45 277.00 90.33 359.76 4628.44 2677.85 236.26 1774.20 355.90 2471.54 2465.23 1.33 1782.00 90.29 359.14 4629.02 2512.22 177.42 355.96 2518.48 2512.22 1.21 1220.00 90.15 358.70 4628.40 2370.25 1774.71 355.79 2471.54 2465.23 1.33 1782.00 90.29 359.14 4629.22 2512.22 1774.42 355.96 2518.48 2512.22 1.21 1220.00 90.15 358.70 4628.40 2670.21 178.95 366.00 2471.54 2465.23 1.33 1782.00 90.29 359.14 4629.02 2512.22 1777.42 355.96 2518.48 2512.22 1.21 1220.00 90.15 358.	6138.00	89.89	358.96	4632.90	1468.42	-161.66	353.72	1477.29	1468.42	4.67
6261.00 91.16 358.66 4631.61 1591.38 -164.39 354.10 1599.84 1591.38 0.92 6307.00 90.64 358.83 4630.89 1637.36 -165.40 354.23 1645.69 1637.36 1.19 6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 6443.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1964.32 -169.41 355.05 1961.64 1964.32 0.43 6670.00 90.24 359.23 4629.69 1964.32 -169.41 355.05 1961.64 1964.32 0.43 66710.00 90.46 369.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.67 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.53 359.54 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.32 359.54 4627.35 2276.26 -173.89 355.51 2236.01 2229.26 2.63 6946.00 89.32 359.74 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6940.00 89.43 359.54 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 6713.00 90.29 359.14 4629.20 2418.24 -175.52 355.85 2424.60 2418.24 0.85 6713.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.27 4624.60 2794.14 -180.69 356.30 2799.38 2794.14 1.22 7511.00 90.28 359.45 4626.17 2748.17 -180.69 356.30 2799.38 2794.14 1.22 7511.00 90.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7568.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6170.00	90.37	358.92	4632.83	1500.41	-162.26	353.83	1509.16	1500.41	1.51
6307.00 90.64 358.83 4630.89 1637.36 -165.40 354.23 1645.69 1637.36 1.19 6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 6443.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 369.32 4630.80 1819.34 -167.69 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.43 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.43 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.33 359.74 4627.85 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.33 359.74 4629.22 2512.22 -177.42 355.95 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.90 356.01 2565.42 2569.21 0.98 6777.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 366.35 2846.89 2841.10 0.94 7418.00 91.69 359.45 4626.80 2841.10 1.80.89 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 1.814.7 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6216.00	90.77	358.52	4632.37	1546.40	-163.28	353.97	1554.99	1546.40	1.23
6352.00 90.95 359.14 4630.27 1682.35 -166.19 354.36 1690.54 1682.35 0.97 6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 6443.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.59 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -1771.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.54 4628.40 2370.25 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.45 359.54 4628.80 2323.26 -174.20 355.71 2329.78 2323.26 0.46 6993.00 89.33 359.54 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7080.00 89.33 359.64 4629.00 2418.24 -175.52 356.85 2424.60 2418.24 0.85 7135.00 89.93 359.64 4629.04 2559.21 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.74 4629.20 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.31 2465.23 -176.53 356.00 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.07 2613.34 2607.21 2.24 7	6261.00	91.16	358.66	4631.61	1591.38	-164.39	354.10	1599.84	1591.38	0.92
6398.00 89.36 359.62 4630.14 1728.34 -166.69 354.49 1736.36 1728.34 3.61 6443.00 89.54 359.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.85 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 99.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 0.86 693.00 89.34 359.23 4628.40 2370.25 -174.71 355.63 2282.89 2276.26 0.86 693.00 89.34 359.24 4627.81 2134.24 -175.52 355.65 244.60 2418.24 0.85 7135.00 89.93 359.05 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7040.00 89.23 359.24 4627.80 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7040.00 89.23 359.24 4627.80 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7040.00 89.23 359.24 4629.00 2418.24 -175.52 355.60 2441.60 2418.24 0.85 7135.00 89.39 359.71 4627.35 2276.26 -174.20 355.71 239.78 2332.26 0.46 7040.00 89.23 359.74 4629.20 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.00 2418.24 -175.52 355.60 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7555.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6307.00	90.64	358.83	4630.89	1637.36	-165.40	354.23	1645.69	1637.36	1.19
6443.00 89.54 369.40 4630.58 1773.34 -167.08 354.62 1781.19 1773.34 0.63 6489.00 89.89 369.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 369.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.22 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.53 2282.89 2276.26 0.86 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.67 2329.78 2323.26 0.46 693.00 89.45 359.23 4628.40 2370.25 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4629.00 2418.24 -175.52 355.85 2446.00 2418.24 0.85 7135.00 89.93 359.74 4629.00 2418.24 -175.52 355.85 2446.00 2418.24 0.85 7135.00 89.33 359.74 4629.30 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.33 359.74 4629.30 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 359.74 4629.31 2465.23 -176.53 355.59 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.20 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 359.74 4629.31 2465.23 -176.53 355.59 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.01 2418.24 -175.52 355.86 2424.60 2418.24 0.85 7135.00 89.93 359.76 4628.84 2607.21 -178.95 366.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 366.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 366.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 366.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 366.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 366.00 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 751	6352.00	90.95	359.14	4630.27	1682.35	-166.19	354.36	1690.54	1682.35	0.97
6489.00 89.89 359.32 4630.80 1819.34 -167.59 354.74 1827.04 1819.34 0.78 6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.81 2329.78 2323.26 0.46 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 359.74 4629.02 229.26 1774.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 359.74 4629.02 229.26 1774.20 355.74 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.01 2559.21 -178.30 356.01 2565.42 2569.21 0.88 7277.00 90.33 359.76 4628.84 2607.21 -178.89 356.00 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2569.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.27 4626.37 2748.17 -180.18 356.40 2600.24 2654.20 1.69 7371.00 91.12 359.23 4628.17 2748.17 -180.18 356.02 2707.16 2701.19 0.94 7418.00 91.69 359.24 4626.17 2748.17 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 366.35 2846.89 2841.10 0.94 7555.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6398.00	89.36	359.62	4630.14	1728.34	-166.69	354.49	1736.36	1728.34	3.61
6535.00 90.07 359.10 4630.82 1865.33 -168.23 354.85 1872.90 1865.33 0.62 6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11	6443.00	89.54	359.40	4630.58	1773.34	-167.08	354.62	1781.19	1773.34	0.63
6581.00 90.90 359.27 4630.43 1911.32 -168.88 354.95 1918.77 1911.32 1.84 6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.59 355.63 2282.89	6489.00	89.89	359.32	4630.80	1819.34	-167.59	354.74	1827.04	1819.34	0.78
6624.00 91.08 359.32 4629.69 1954.32 -169.41 355.05 1961.64 1954.32 0.43 6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 359.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.23 4628.60 2794.14 -180.69 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.23 4628.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6535.00	90.07	359.10	4630.82	1865.33	-168.23	354.85	1872.90	1865.33	0.62
6670.00 90.24 359.23 4629.16 2000.31 -169.99 355.14 2007.52 2000.31 1.84 6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.33 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 356.00 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6581.00	90.90	359.27	4630.43	1911.32	-168.88	354.95	1918.77	1911.32	1.84
6715.00 90.46 359.10 4628.88 2045.30 -170.65 355.23 2052.41 2045.30 0.57 6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.93 358.70 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6624.00	91.08	359.32	4629.69	1954.32	-169.41	355.05	1961.64	1954.32	0.43
6761.00 90.59 359.05 4628.46 2091.29 -171.39 355.31 2098.31 2091.29 0.30 6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	6670.00	90.24	359.23	4629.16	2000.31	-169.99	355.14	2007.52	2000.31	1.84
6804.00 91.16 359.23 4627.81 2134.28 -172.03 355.39 2141.21 2134.28 1.39 6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.70 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.96 2518.48	6715.00	90.46	359.10	4628.88	2045.30	-170.65	355.23	2052.41	2045.30	0.57
6851.00 90.73 358.88 4627.03 2181.27 -172.81 355.47 2188.11 2181.27 1.18 6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.96 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48	6761.00	90.59	359.05	4628.46	2091.29	-171.39	355.31	2098.31	2091.29	0.30
6899.00 89.58 359.40 4626.90 2229.26 -173.53 355.55 2236.01 2229.26 2.63 6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.96 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.95 356.01 2565.42	6804.00	91.16	359.23	4627.81	2134.28	-172.03	355.39	2141.21	2134.28	1.39
6946.00 89.32 359.71 4627.35 2276.26 -173.89 355.63 2282.89 2276.26 0.86 6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.90 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25	6851.00	90.73	358.88	4627.03	2181.27	-172.81	355.47	2188.11	2181.27	1.18
6993.00 89.45 359.54 4627.86 2323.26 -174.20 355.71 2329.78 2323.26 0.46 7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16	6899.00	89.58	359.40	4626.90	2229.26	-173.53	355.55	2236.01	2229.26	2.63
7040.00 89.23 359.23 4628.40 2370.25 -174.71 355.78 2376.68 2370.25 0.81 7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16	6946.00	89.32	359.71	4627.35	2276.26	-173.89	355.63	2282.89	2276.26	0.86
7088.00 89.32 358.83 4629.00 2418.24 -175.52 355.85 2424.60 2418.24 0.85 7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.30 2799.98	6993.00	89.45	359.54	4627.86	2323.26	-174.20	355.71	2329.78	2323.26	0.46
7135.00 89.93 358.70 4629.31 2465.23 -176.53 355.90 2471.54 2465.23 1.33 7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98	7040.00	89.23	359.23	4628.40	2370.25	-174.71	355.78	2376.68	2370.25	0.81
7182.00 90.29 359.14 4629.22 2512.22 -177.42 355.96 2518.48 2512.22 1.21 7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.39 2893.82	7088.00	89.32	358.83	4629.00	2418.24	-175.52	355.85	2424.60	2418.24	0.85
7229.00 90.15 358.70 4629.04 2559.21 -178.30 356.01 2565.42 2559.21 0.98 7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82	7135.00	89.93	358.70	4629.31	2465.23	-176.53	355.90	2471.54	2465.23	1.33
7277.00 90.33 359.76 4628.84 2607.21 -178.95 356.07 2613.34 2607.21 2.24 7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7182.00	90.29	359.14	4629.22	2512.22	-177.42	355.96	2518.48	2512.22	1.21
7324.00 91.12 359.67 4628.25 2654.20 -179.18 356.14 2660.24 2654.20 1.69 7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7229.00	90.15	358.70	4629.04	2559.21	-178.30	356.01	2565.42	2559.21	0.98
7371.00 91.12 359.23 4627.33 2701.19 -179.63 356.20 2707.16 2701.19 0.94 7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7277.00	90.33	359.76	4628.84	2607.21	-178.95	356.07	2613.34	2607.21	2.24
7418.00 91.69 359.45 4626.17 2748.17 -180.18 356.25 2754.07 2748.17 1.30 7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7324.00	91.12	359.67	4628.25	2654.20	-179.18	356.14	2660.24	2654.20	1.69
7464.00 92.22 359.27 4624.60 2794.14 -180.69 356.30 2799.98 2794.14 1.22 7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7371.00	91.12	359.23	4627.33	2701.19	-179.63	356.20	2707.16	2701.19	0.94
7511.00 92.18 358.83 4622.80 2841.10 -181.47 356.35 2846.89 2841.10 0.94 7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7418.00	91.69	359.45	4626.17	2748.17	-180.18	356.25	2754.07	2748.17	1.30
7558.00 90.77 359.14 4621.59 2888.08 -182.30 356.39 2893.82 2888.08 3.07	7464.00	92.22	359.27	4624.60	2794.14	-180.69	356.30	2799.98	2794.14	1.22
	7511.00	92.18	358.83	4622.80	2841.10	-181.47	356.35	2846.89	2841.10	0.94
7605.00 91.25 359.18 4620.76 2935.06 -182.99 356.43 2940.76 2935.06 1.02	7558.00	90.77	359.14	4621.59	2888.08	-182.30	356.39	2893.82	2888.08	3.07
	7605.00	91.25	359.18	4620.76	2935.06	-182.99	356.43	2940.76	2935.06	1.02

7700.00 89.23 358.39 4619.70 3030.03 -185.22 366.50 3035.68 3030.03 3.84 7747.00 89.10 358.13 4620.39 3077.00 -186.65 365.53 3082.66 3077.00 0.62 7794.00 89.63 358.30 4620.91 3123.97 -188.11 356.55 3129.63 3123.97 1.18 7642.00 90.46 358.48 4620.87 3171.95 -189.46 366.58 3177.61 3171.95 1.77 7889.00 90.95 358.66 4620.44 3218.94 -190.63 356.61 3224.58 3218.94 0.47 7980.00 89.93 358.52 4620.28 3312.90 -193.11 356.64 3312.90 0.28 8030.00 90.46 359.32 4620.12 3359.90 -193.11 356.73 3312.92 2.04 8077.00 91.67 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3408.88 194.37	MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	vs	DLS
7747,00 89,10 358,13 4620,39 3077,00 -186,65 365,53 3082,66 3077,00 0.62 7794,00 89,63 358,30 4620,91 3123,97 -188,11 356,55 3129,63 3123,97 1.18 7842,00 90,46 358,48 4620,87 3171,95 -189,46 356,58 3177,61 3171,95 1.77 7889,00 90,59 358,66 4620,43 3218,94 -190,63 356,61 3224,58 3218,94 0.47 7936,00 89,93 356,52 4620,28 3312,90 -193,11 356,66 3318,53 3312,90 0.28 8030,00 90,46 359,92 4620,12 3359,90 -193,99 356,70 3365,49 3359,90 2.04 8077,00 91,87 359,76 4619,17 306,88 -194,37 356,73 3412,42 3406,88 3,14 8171,00 91,03 0.50 4616,67 3500,85 -194,64 356,82 3560,25	7653.00	91.03	358.52	4619.81	2983.05	-183.95	356.47	2988.71	2983.05	1.45
7794.00 89.63 358.30 4620.91 3123.97 -188.11 356.55 3129.63 3123.97 1.18 7842.00 90.46 358.48 4620.87 3171.95 -189.46 356.58 3177.61 3171.95 1.77 7889.00 90.59 358.66 4620.44 3218.94 -190.63 356.61 3224.58 3218.94 0.47 7936.00 89.93 358.59 4620.28 3312.90 -193.11 356.66 3318.53 3312.90 0.28 8030.00 90.46 359.32 4620.12 3359.90 -193.11 356.66 3318.53 3312.90 0.28 8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.72 3459.34 3453.86 0.74 8171.00 91.52 0.77 4615.62 3500.85 -194.64 356.82 3506.25	7700.00	89.23	358.39	4619.70	3030.03	-185.22	356.50	3035.68	3030.03	3.84
7842.00 90.46 358.48 4620.87 3171.95 -189.46 356.58 3177.61 3171.95 1.77 7889.00 90.59 358.66 4620.44 3218.94 -190.63 356.61 3224.58 3218.94 0.47 7936.00 89.93 358.39 4620.23 3265.92 -191.84 356.64 3271.55 3265.92 1.52 7983.00 89.93 358.52 4620.28 3312.90 -193.11 356.66 3318.53 3312.90 0.28 8030.00 90.46 359.32 4620.12 3359.90 -193.99 356.70 3365.49 3359.90 2.04 8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8171.00 91.03 0.50 4616.67 3500.85 -194.66 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 <	7747.00	89.10	358.13	4620.39	3077.00	-186.65	356.53	3082.66	3077.00	0.62
7889.00 90.59 358.66 4620.44 3218.94 -190.63 356.61 3224.58 3218.94 0.47 7936.00 89.93 356.39 4620.23 3265.92 -191.84 356.64 3271.55 3265.92 1.52 7983.00 89.93 356.52 4620.28 3312.90 -193.11 356.66 3318.53 3312.90 0.28 8030.00 90.46 359.32 4620.12 3359.90 -193.99 356.70 3365.49 3359.90 2.04 8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3508.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 356.91 <t< td=""><td>7794.00</td><td>89.63</td><td>358.30</td><td>4620.91</td><td>3123.97</td><td>-188.11</td><td>356.55</td><td>3129.63</td><td>3123.97</td><td>1.18</td></t<>	7794.00	89.63	358.30	4620.91	3123.97	-188.11	356.55	3129.63	3123.97	1.18
7936.00 89.93 358.39 4620.23 3265.92 -191.84 356.64 3271.55 3265.92 1.52 7983.00 89.93 358.52 4620.28 3312.90 -193.11 356.66 3318.53 3312.90 0.28 8030.00 90.46 359.32 4620.12 3369.90 -193.99 356.70 3365.49 3359.90 2.04 8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3508.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 <td< td=""><td>7842.00</td><td>90.46</td><td>358.48</td><td>4620.87</td><td>3171.95</td><td>-189.46</td><td>356.58</td><td>3177.61</td><td>3171.95</td><td>1.77</td></td<>	7842.00	90.46	358.48	4620.87	3171.95	-189.46	356.58	3177.61	3171.95	1.77
7983.00 89.93 358.52 4620.28 3312.90 -193.11 356.66 3318.53 3312.90 0.28 8030.00 90.46 359.32 4620.12 3359.90 -193.99 356.70 3365.49 3359.90 2.04 8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3500.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 3594.81 2.00 8313.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.26 3	7889.00	90.59	358.66	4620.44	3218.94	-190.63	356.61	3224.58	3218.94	0.47
8030.00 90.46 359.32 4620.12 3359.90 .193.99 356.70 3365.49 3359.90 2.04 8077.00 91.87 359.76 4619.17 3406.88 .194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 .194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3500.85 .194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 .194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 .193.26 356.92 3600.01 3594.81 2.00 8313.00 90.95 1.07 4613.22 3689.78 .191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 190.10 357.09 3741.59 3736	7936.00	89.93	358.39	4620.23	3265.92	-191.84	356.64	3271.55	3265.92	1.52
8077.00 91.87 359.76 4619.17 3406.88 -194.37 356.73 3412.42 3406.88 3.14 8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3500.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 3594.81 2.00 8313.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.	7983.00	89.93	358.52	4620.28	3312.90	-193.11	356.66	3318.53	3312.90	0.28
8124.00 91.60 359.54 4617.74 3453.86 -194.66 356.77 3459.34 3453.86 0.74 8171.00 91.03 0.50 4616.67 3500.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.20 356.92 3600.01 3594.81 2.00 8313.00 90.90 1.43 4613.98 3642.80 -192.10 356.98 3647.86 3642.80 0.33 8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8501.00 86.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74	8030.00	90.46	359.32	4620.12	3359.90	-193.99	356.70	3365.49	3359.90	2.04
8171.00 91.03 0.50 4616.67 3500.85 -194.64 356.82 3506.25 3500.85 2.37 8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 3594.81 2.00 8313.00 90.90 1.43 4613.98 3642.80 -192.10 356.98 3647.86 3642.80 0.33 8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4016.57 -183.49 357.36 3991.81 3987.57 1.68 8669.00 90.68 0.90 4617.30 4016.57 -183.49 357.36 3991.81 3987.57 1.68 8669.00 90.68 0.90 4615.36 4155.54 -183.19 357.48 4155.54 4155.54 3.56 8865.00 89.98 359.10 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.83 4113.55 -182.79 357.48 4155.54 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.03 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4235.52 -185.18 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4235.50 -185.68 357.50 4225.55 4255.50 9.84	8077.00	91.87	359.76	4619.17	3406.88	-194.37	356.73	3412.42	3406.88	3.14
8218.00 91.52 0.77 4615.62 3547.83 -194.12 356.87 3553.14 3547.83 1.19 8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 3594.81 2.00 8313.00 90.90 1.43 4613.98 3642.80 -192.10 356.98 3647.86 3642.80 0.33 8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.88 8689.00 90.68 0.68 4616.92 4050.56 -183.05 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 358.44 4615.62 4194.53 -184.03 357.50 4226.56 4222.52 5.47 8893.00 89.98 358.48 4615.62 4194.53 -184.72 357.50 4226.56 4222.52 5.47 8893.00 89.98 358.48 4615.62 4194.53 -184.72 357.50 4226.56 4222.52 5.47 8890.00 90.86 358.26 4615.79 4207.53 -185.68 357.50 4226.56 4222.52 5.47 8890.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4226.56 4225.52 5.47	8124.00	91.60	359.54	4617.74	3453.86	-194.66	356.77	3459.34	3453.86	0.74
8265.00 90.77 1.34 4614.68 3594.81 -193.26 356.92 3600.01 3594.81 2.00 8313.00 90.90 1.43 4613.98 3642.80 -192.10 356.98 3647.86 3642.80 0.33 8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 </td <td>8171.00</td> <td>91.03</td> <td>0.50</td> <td>4616.67</td> <td>3500.85</td> <td>-194.64</td> <td>356.82</td> <td>3506.25</td> <td>3500.85</td> <td>2.37</td>	8171.00	91.03	0.50	4616.67	3500.85	-194.64	356.82	3506.25	3500.85	2.37
8313.00 90.90 1.43 4613.98 3642.80 -192.10 356.98 3647.86 3642.80 0.33 8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8595.00 89.89 1.51 4617.81 3924.58 -185.91 357.30 3928.94 3924.58 </td <td>8218.00</td> <td>91.52</td> <td>0.77</td> <td>4615.62</td> <td>3547.83</td> <td>-194.12</td> <td>356.87</td> <td>3553.14</td> <td>3547.83</td> <td>1.19</td>	8218.00	91.52	0.77	4615.62	3547.83	-194.12	356.87	3553.14	3547.83	1.19
8360.00 90.95 1.07 4613.22 3689.78 -191.07 357.04 3694.72 3689.78 0.77 8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3892.08 3877.61 4.15 8595.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.26	8265.00	90.77	1.34	4614.68	3594.81	-193.26	356.92	3600.01	3594.81	2.00
8407.00 90.86 1.29 4612.48 3736.76 -190.10 357.09 3741.59 3736.76 0.51 8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 </td <td>8313.00</td> <td>90.90</td> <td>1.43</td> <td>4613.98</td> <td>3642.80</td> <td>-192.10</td> <td>356.98</td> <td>3647.86</td> <td>3642.80</td> <td>0.33</td>	8313.00	90.90	1.43	4613.98	3642.80	-192.10	356.98	3647.86	3642.80	0.33
8454.00 88.48 1.64 4612.75 3783.74 -188.90 357.14 3788.46 3783.74 5.12 8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.49 357.39 4022.75 4018.57 </td <td>8360.00</td> <td>90.95</td> <td>1.07</td> <td>4613.22</td> <td>3689.78</td> <td>-191.07</td> <td>357.04</td> <td>3694.72</td> <td>3689.78</td> <td>0.77</td>	8360.00	90.95	1.07	4613.22	3689.78	-191.07	357.04	3694.72	3689.78	0.77
8501.00 86.68 1.60 4614.73 3830.68 -187.57 357.20 3835.27 3830.68 3.83 8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.34 4022.75 4018.57 </td <td>8407.00</td> <td>90.86</td> <td>1.29</td> <td>4612.48</td> <td>3736.76</td> <td>-190.10</td> <td>357.09</td> <td>3741.59</td> <td>3736.76</td> <td>0.51</td>	8407.00	90.86	1.29	4612.48	3736.76	-190.10	357.09	3741.59	3736.76	0.51
8532.00 87.47 1.78 4616.32 3861.63 -186.66 357.23 3866.13 3861.63 2.61 8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 </td <td>8454.00</td> <td>88.48</td> <td>1.64</td> <td>4612.75</td> <td>3783.74</td> <td>-188.90</td> <td>357.14</td> <td>3788.46</td> <td>3783.74</td> <td>5.12</td>	8454.00	88.48	1.64	4612.75	3783.74	-188.90	357.14	3788.46	3783.74	5.12
8548.00 87.87 1.25 4616.97 3877.61 -186.24 357.25 3882.08 3877.61 4.15 8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55	8501.00	86.68	1.60	4614.73	3830.68	-187.57	357.20	3835.27	3830.68	3.83
8562.00 88.66 1.43 4617.39 3891.60 -185.91 357.26 3896.03 3891.60 5.79 8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.	8532.00	87.47	1.78	4616.32	3861.63	-186.66	357.23	3866.13	3861.63	2.61
8595.00 89.89 1.51 4617.81 3924.58 -185.06 357.30 3928.94 3924.58 3.74 8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8878.00 89.19 358.44 4615.79 4207.53 -184.03 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90	8548.00	87.87	1.25	4616.97	3877.61	-186.24	357.25	3882.08	3877.61	4.15
8627.00 90.07 0.81 4617.82 3956.58 -184.42 357.33 3960.87 3956.58 2.26 8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.50 4226.56 4	8562.00	88.66	1.43	4617.39	3891.60	-185.91	357.26	3896.03	3891.60	5.79
8658.00 90.59 0.85 4617.64 3987.57 -183.97 357.36 3991.81 3987.57 1.68 8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 <td< td=""><td>8595.00</td><td>89.89</td><td>1.51</td><td>4617.81</td><td>3924.58</td><td>-185.06</td><td>357.30</td><td>3928.94</td><td>3924.58</td><td>3.74</td></td<>	8595.00	89.89	1.51	4617.81	3924.58	-185.06	357.30	3928.94	3924.58	3.74
8689.00 90.68 0.90 4617.30 4018.57 -183.49 357.39 4022.75 4018.57 0.33 8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 <	8627.00	90.07	0.81	4617.82	3956.58	-184.42	357.33	3960.87	3956.58	2.26
8721.00 90.68 0.68 4616.92 4050.56 -183.05 357.41 4054.70 4050.56 0.69 8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8658.00	90.59	0.85	4617.64	3987.57	-183.97	357.36	3991.81	3987.57	1.68
8784.00 91.30 359.80 4615.83 4113.55 -182.79 357.46 4117.61 4113.55 1.71 8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8689.00	90.68	0.90	4617.30	4018.57	-183.49	357.39	4022.75	4018.57	0.33
8826.00 89.98 359.10 4615.36 4155.54 -183.19 357.48 4159.58 4155.54 3.56 8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8721.00	90.68	0.68	4616.92	4050.56	-183.05	357.41	4054.70	4050.56	0.69
8865.00 89.27 358.44 4615.62 4194.53 -184.03 357.49 4198.57 4194.53 2.49 8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8784.00	91.30	359.80	4615.83	4113.55	-182.79	357.46	4117.61	4113.55	1.71
8878.00 89.19 358.70 4615.79 4207.53 -184.35 357.49 4211.57 4207.53 2.09 8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8826.00	89.98	359.10	4615.36	4155.54	-183.19	357.48	4159.58	4155.54	3.56
8893.00 89.98 358.48 4615.90 4222.52 -184.72 357.50 4226.56 4222.52 5.47 8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8865.00	89.27	358.44	4615.62	4194.53	-184.03	357.49	4198.57	4194.53	2.49
8909.00 90.86 358.26 4615.78 4238.52 -185.18 357.50 4242.56 4238.52 5.67 8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8878.00	89.19	358.70	4615.79	4207.53	-184.35	357.49	4211.57	4207.53	2.09
8926.00 92.53 358.35 4615.28 4255.50 -185.68 357.50 4259.55 4255.50 9.84	8893.00	89.98	358.48	4615.90	4222.52	-184.72	357.50	4226.56	4222.52	5.47
	8909.00	90.86	358.26	4615.78	4238.52	-185.18	357.50	4242.56	4238.52	5.67
8941.00 93.10 357.65 4614.54 4270.47 -186.20 357.50 4274.53 4270.47 6.01	8926.00	92.53	358.35	4615.28	4255.50	-185.68	357.50	4259.55	4255.50	9.84
	8941.00	93.10	357.65	4614.54	4270.47	-186.20	357.50	4274.53	4270.47	6.01

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8972.00	93.58	357.60	4612.74	4301.40	-187.49	357.50	4305.48	4301.40	1.56
9004.00	93.01	357.47	4610.90	4333.31	-188.86	357.50	4337.43	4333.31	1.83
9019.00	92.66	357.56	4610.15	4348.28	-189.51	357.50	4352.41	4348.28	2.41
9035.00	92.57	357.51	4609.42	4364.25	-190.20	357.50	4368.39	4364.25	0.64
9066.00	90.46	357.34	4608.61	4395.20	-191.59	357.50	4399.38	4395.20	6.83
9087.00	87.38	357.91	4609.00	4416.18	-192.46	357.50	4420.37	4416.18	14.92
9113.00	87.08	358.04	4610.26	4442.13	-193.38	357.51	4446.34	4442.13	1.26
9129.00	86.77	357.65	4611.12	4458.10	-193.98	357.51	4462.32	4458.10	3.11
9160.00	88.31	357.12	4612.45	4489.04	-195.39	357.51	4493.29	4489.04	5.25
9191.00	89.76	357.25	4612.97	4519.99	-196.91	357.51	4524.28	4519.99	4.70
9223.00	93.32	356.77	4612.11	4551.93	-198.58	357.50	4556.26	4551.93	11.23
9238.00	94.15	356.77	4611.13	4566.88	-199.42	357.50	4571.23	4566.88	5.53
9254.00	94.59	356.85	4609.91	4582.81	-200.31	357.50	4587.18	4582.81	2.79
9269.00	92.57	356.46	4608.98	4597.75	-201.19	357.49	4602.15	4597.75	13.71
9300.00	91.16	356.37	4607.97	4628.67	-203.12	357.49	4633.13	4628.67	4.56
9317.00	91.91	356.55	4607.51	4645.64	-204.17	357.48	4650.12	4645.64	4.54
9331.00	92.40	356.59	4606.99	4659.60	-205.01	357.48	4664.11	4659.60	3.51
9355.00	94.24	357.21	4605.60	4683.52	-206.30	357.48	4688.06	4683.52	8.09
9367.00	94.86	357.47	4604.64	4695.47	-206.86	357.48	4700.03	4695.47	5.60
9423.00	94.02	358.17	4600.31	4751.26	-208.98	357.48	4755.86	4751.26	1.95
9471.00	93.40	358.17	4597.20	4799.14	-210.51	357.49	4803.75	4799.14	1.29

Luth Barl 3/3/2 Surf				Tick	et#	P-45			SPINI OILFIELD SERVICES	KER
COMP						PROJECT N	NUMBER	AFE/WORK		DATE
CONT	RACTOR	-			Owner	P-4519			DC22011 SCRIPTION	3/3/2022 API
	nnaker Oil	-				Sam ICOUNTY	ie	SEC	36, T33N, R11W IMILEAGE	15-007-24406
Luth	ni 36-33-11 1H					Barber	County	Kansas		300
	rom Hazelton,	KS - Hea	d North 2				City Rd., ther tion. Atlas 3	n head W	lest 3.5 miles on G	Gerlane Rd. Turn
	✓ Surface		Intermed	diate	Long	String	Plug Back			
	Squeeze		Acid		PTA	oung	Other			
umping Services	Casing Size	Casing Weig	Thread	Csng Grade	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
Ser	9 5/8	40.00	LTC	J-55		Yes	Yes	Yes	N/A	225%
ping	Number and Type Units Pump Truck, 1		Rulk Truc	·k			BHST - F 83	Casing Dep	Depth - TVD - FT	Hole Size - Inches
Į,	Remarks	ca. 000	Duik Truc	, K			BHCT - F		300 t Depth - MD - FT	12 1/4 Mud Weight/Type - PPG
"	0 E/0" To Di	Head	200 lb - C							mad vveigno rype i r o
	9 5/8" Top Plug	g, Head ,	200 lbs 5	bugar			80		300	
	Spacer BBL OF LEAD	30 # of Sacks	Туре Н2		SPACI	ER: CEMENT		н	20	
	39.3	75	Clas	s A	75	Sacks C	Class A. 3%	6 Gypsi	um, 0.5% SMS,	2.5% Calcium
	H2O REQUIRED		Yield Ft3/Sk	Water Gal/S					25 lb/sk Poly	2.0% Galolalli
	32.3	11.40	2.94	18.10				1140, 0.	20 Ib/3K I Oly	
w	BBL OF TAIL	# of Sacks	Туре		TAIL C	EMENT				
Materials	31.3	95	Clas	s A						
ate	H2O REQUIRED	Weight PPG	Yield Ft3/Sk	Water Gal/S	95	Sacks C			um, 0.5% S M S,	2.5% Calcium
Ž	22.5	13.20	1.85	9.95			Chlo	ride, 0.	25 lb/sk Poly	
		Qty - BBLS	Type		DISDI	ACEMEN	IT			
	Displace- ment	20	H2	0	DIOI L			H	20	
4		Variabl	le Densit		<u>Lead</u>				l cement in Fro	nt pot only.
is the	Casing Size	5/8		Casing Weig	tht 40.00		Thread		LTC	
1 3	Guide Shoe	0.0		Float Shoe	-0.00		Float Collar		Insert Float Valve	
шs	Centralizers - Number	-		Size			Туре			
te l										
Sales Items	Wall Cleaners - Number			Туре			MSC (DV Tool)			MSC Plug Set
တိ	Limit Clamps			Thread lock			Other		MANAGE TO SECTION ASSESSMENT OF THE SECTION	-
	Remarks	300 lbs	Sugar	L			L			

Ticket # P-4519



Customer: Mach III LLC

Customer Rep: Tim Mills

Mobile:

Well Name: Luthi 36-33-11 1H

Job Type: Surface Casing: 9 5/8

County: Barber County
State: Kansas

Field Supervisor: Scott Applebee

API #: 15-007-24406

Date: 3/3/2022

Legais:	Sec. 36-T33N-R11W Proposal #:	31580001			the same of the sa
Ref. #	Description	Quantity	Unit Price	Sub Total	Total
	Description ********** Cementing Services ********** Pickup Mileage 1 unit (roundtrip miles)				
MLPU1	i lokap miloago i anti (rounatip milos)	300	\$3.94	\$1,182.00	\$472.80
MLHE3	Heavy Vehicle Mileage 3 units (roundtrip miles)	300	\$20.34	\$6,102.00	\$2,440.80
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,274	\$2.73	\$3,478.02	\$1,391.21
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	170	\$3.03	\$515.10	\$206.04
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$758.00
PC1K	Pump Charge 0-1000' (Per 4 hrs)	1	\$1,887.60	\$1,887.60	\$755.04
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$532.40
FLSCG	Fuel Surcharge (per unit/per job)	3	\$605.00	\$1,815.00	\$726.00
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$84.70
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$320.00
CIRON	Circulation Equipment (40' of equipment per job)	1	\$1,512.50	\$1,512.50	\$605.00
	******** Cementing Materials ********	-	V ., O .	ψ1,012.00	4000.00
CSTD	Class A Type Standard Cement (per sack)	170	\$31.81	\$5,407.70	\$2,163.08
CEXTGYP	Gypsum (per lb)	480	\$0.54	\$259.20	\$103.68
CACCSMS	SMS (per lb)	80	\$3.86	\$308.80	\$123.52
CACCCC	Calcium Chloride (per lb)	400	\$1.45	\$580.00	\$232.00
CLCMPF	Poly Flake (per lb)	43	\$3.23	\$138.89	\$55.56
	Additional Items (As Required)				
PCADD	Primary Pump Unit Addl Hours	0.0	\$594.50	\$0.00	\$0.00
BKADD	Bulk Unit Additional Hours (per unit/per hour)	0.0	\$121.00	\$0.00	\$0.00
VALV12	1" to 2" valves	2	\$393.25	\$786.50	\$314.60
SG36	Swage, 4 1/2" - 13 3/8" (per day)	1	\$423.50	\$423.50	\$169.40
FTRP958	9 5/8" Top Rubber Plug	0	\$220.00	\$0.00	\$0.00
CSUGAR	Sugar (per lb)	0	\$1.47	\$0.00	\$0.00
CDFDIAL	ATF Cement Defoamer (per gal)	10	\$29.50	\$295.00	\$295.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$0.00
WTCMT	Waiting on Cement Head after job (per hours)	0	\$95.00	\$0.00	\$0.00
CACCCC	Calcium Chloride (per lb)	0	\$1.45	\$0.00	\$0.00
	Book Price			\$28,929.56	
	Estimated Job Cost (Exclusive of Sales Tax)				\$11,748.82

Signature: Field Supervisor:

Scott Applebee

Signature: Customer Rep:

Tim Mills

11748 82

Mach III LLC Luthi 36-33-11 1H Barber County 3/3/2022 Surface	Ticket#	P-4519	SP OILFIELD S	INN K	ER
COMPANY		PROJECT NUMBER	CUSTOMER REP:	D	ATE
Mach III LLC		P-4519	Tim !	Mills	3/3/2022
CONTRACTOR	Owner		LEGAL DESCRIPTION		
Spinnaker Oil		Same	Sec 36, T3	3N, R11W	
LEASE & WELL #	COUNTY		STATE	MILEAGE	
Luthi 36-33-11 1H	Barber Co	untv	ок	300	

Customer Job Satisfaction Sheet

We will greatly appreciate if you can fill out a short survey regarding our performance today. Safety and service quality are our top priorities and we want to ensure that we are continually providing the best service possible in the safest manner as possible. These surveys are regularly reviewed and we highly value your opinion. Thank you for your business.

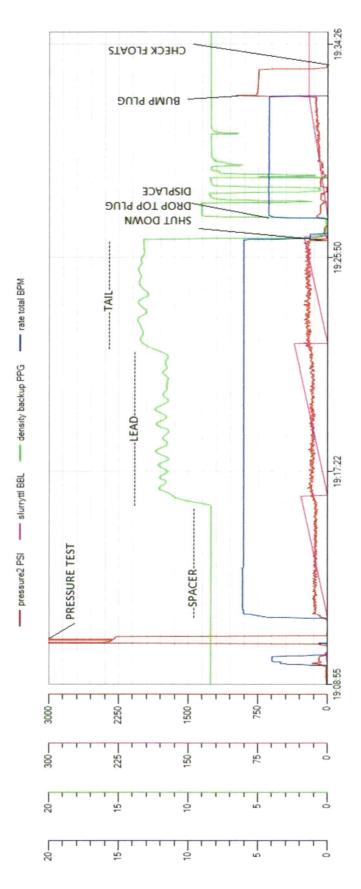
	Poor	Fair	Satisfactory	Great	Outstanding
HSE					
Performance of Crew					
Performance of Equipment					
Service Quality					
Job Completed as Agreed					

Customer Name (Printed)

Customer Signature:



Chart Report



Date:3/3/22 wellname:LUTHI 36:33-11 1H Location:BARBER COUNTY, KS Country:USA Operators:MACH Supervisor:SCOTT APPLEBEE Jobtype:CEMENT SURFACE Address: Comment.

SPIN OILFIELD SERVICES	KER	JOB LOG	Project number P-4519	03/03/22
COMPANY		COUNTRY	STATE	COUNTY
Mach III LLC		USA	KS	Barber County
LEASE NAME	Well No.	EMPLOYEE NAME	CUSTOMER REP	
Luthi 36-33-11 1H		Scott Applebee	Tim Mills	
FIELD		Sec 36, T33N, R11W	TICKET AMOUNT	
API/UWI #	·	JOB PURPOSE	WELL TYPE	
15-007-24406		Surface		
PUMP #1	313			
PUMP #2				
PUMP #3				

D-4-	Time	Rate	Volume	Volume Press.(PSI)		
Date	Time	(BPM)	(BBL)(GAL)	CSG.	Tbg	Job Description / Remarks
3-3				*		PRE DEPARTURE MEETING
3-3						DEPART FOR LOCATION, CUSTOMER REQUESTED ARRIVEL TIME SET AT 18:00
3-3						ARRIVE ON LOCATION- RIG STARTING TO RUN CASING
3-3			Andrew designation of the stage Apple			MEET WITH CUSTOMER AND SPOT ALL SPINNAKER EQUIPMENT
3-3						PRE RIG UP SAFETY MEETING
3-3						RIG UP ALL IRON ON GROUND AND HEAD SO RIG CAN CIRCULATE CAPACITY AND A HALF
3-3	19:00					SAFETY MEETING DISCUSS CEMENT PROCEDURE AND STOP WORK AUTHORITY
3-3	19:09			1500		PRIME LINES, DROP BOTTOM PLUG AND PRESSURE TEST TO 1500 PSI
3-3	19:10	6.0	30.0	150		PUMP 30 BBLS OF FRESH WATER SPACER
3-3	19:16	6.0	39.3	180		PUMP 75 SACKS OF CLASS A LEAD CEMENT @ 11.4 PPG (39.18 BBLS)
3-3	19:21	6.0	31.3	200		PUMP 95 SACKS OF CLASS A TAIL CEMENT @ 13.2 PPG (31.3 BBLS)
3-3	19:26					SHUT DOWN FROM PUMPING, LOAD TOP PLUG, DROP RUBBE TOP PLUG
3-3	19:27	4.0	19.0	70		WASH PUMP ON TOP OF PLUG AND BEGIN DISPLACEMENT

Supervisor Signature:

Print Name: Scott Applebee

SF	PINN D SERVICE	K	ER			JO	B L	OG	PROJECT NUMBER P-4519	03/03/22
COMPANY				COUNTRY					STATE	COUNTY
Mach III	LLC			USA					KS	Barber County
Luthi 36	-33-11 1F	Well No.		EMPLOYE	E NAME	Scott A	nnlehee		CUSTOMER REP	
FIELD				SEC / TWP					TICKET AMOUNT	
API/UWI #				Sec 3	6, T33	N, R11W	<u> </u>			
15-007-2	4406			Surfa					WELL TYPE	
		Rate	Volum	ne		Press	s.(PSI)			
Date	Time	(BPM)	(BBL)(G	AL)		CSG.	Tbg	1	Job Desc	cription / Remarks
3-3										
3-3								†		
3-3	19:32	4.0	19.0			750		BUMP		500 PSI OVER LIFT PRESSURE TO 100 HOLD FOR 1 MIN.
3-3	19:33		0.5					BLEEC		O CHECK FLOATS, FLOATS HELD 1/2 BBL BACK
3-3	19:45		The state of the s						PRE RIG DO	OWN SAFETY MEETING
3-3	20:00									L SPINNAKER EQUIPMENT
3-3	21:00								DEPAR	T FROM LOCATION
3-3									***ESTIMATED HO	OT = 268 FT TOT = 28 FT***
3-3									***ESTIMATED H	OL = 28 FT TOL = 0 FT***
3-3									30 BBS C	EMENT TO SURFACE
3-3										
3-3										

Supervisor Signature:

Print Name: Scott Applebee



EQUIPMENT CHECKLIST

UNIT # 313

1. BEFORE THE JOB - PREPARE

- Power up the unit, ensuring all electronics are functioning, and recalibrate all console pressure gauges to atmospheric pressure
- Check the cement head (visually inspect), vacuum breakers, and dry cement line.
- Prime the truck up and pressure test. Test for Global kick-out, and check martin decker gauges. Note any difference between console and martin decker pressures.
- Function test and pump through the entire plumbing, checking all lines as well as centrifugal and triplex pumps. Check for any packing leaks on the pumping unit. Chart the test.
- Check the bulk equipment; compressors, valves, pop-offs, to make sure it airs up and hold pressure.
- Check the casing cement head, O-rings, adapters (sizes and thread types).
- Check the bulk paperwork, ensuring all correct cement and volumes are on location.
- Check to make sure all chemicals and plugs are on location. Check the auxiliary boost pump, if any.
- Perform a Water Analysis.

2. DURING THE JOB

- Note any pumping issues or any discrepancies on outputs
- Check for any leaks and contain accordingly if any

3. AFTER THE JOB

Turn in the check list to customer, if requested, and include a copy with packet, and make detailed note of any issues

Supervisor Comments:

Good

(Supervisor Name and Signature)

Brennan Seamoin

(Operator Name and Signature)



SERVICE ORDER CONTRACT

Customer Name Mach III LLC Ticket Number P-4519

Lease & Well Number Luthi 36-33-11 1H Date 3/3/2022

As consideration, The Above Named customer Agrees:

Spinnaker Oilfield Services Company LLC ("Spinnaker") shall not be responsible for and customer shall secure Spinnaker against any liability for damage to property of customer and of the well owner (if different from customer),

unless caused by the willful misconduct or gross negligence of Spinnaker, this provision applying to

but not limited to subsurface damage and surface damage arising from subsurface damage, unless an MSA between Spinnaker and above named customer specifies otherwise.

Spinnaker makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Spinnaker personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to Spinnaker gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 10 days following the date on the invoice.

Upon customers default in payment of the customers account 15 days past due.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent:

Mach III LLC Luthi 36-33-11 1H Barber County 3/3/2022 Surface

Ticket # P-4519 LOCATION WATER TEST



				_		
Genera	l Information					
Customer:	Mach III LLC				Date:	3/3/2022
Ticket #:		P-4519			Time:	18:00
Lease Name	&#:</th><th>Luthi 36-33-11 1H</th><th></th><th></th><th>Water Source:</th><th>Rig Tank</th></tr><tr><th>Cementer:</th><th></th><th>Scott Applebee</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th>Test Results</th><th>Sam</th><th>ple #1</th><th></th></tr><tr><th></th><th></th><th></th><th>Test results</th><th>Jam</th><th>JIC # I</th><th></th></tr><tr><th>Temp
pH
Sulfates
Chlorides
Lignins & Ta</th><th>annins</th><th></th><th>62 ° F
7.0
Pass mg/L
Pass mg/L
No Yes/No</th><th></th><th>Standard Ran
50° to 100° F
6.0 - 8.0
Less Than 150
Less Than 300
No</th><th>0 mg/L</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th>Test Results</th><th>Sam</th><th>ple #2</th><th></th></tr><tr><th>Temp
pH
Sulfates
Chlorides
Lignins & Ta</th><th>annins</th><th></th><th>mg/L
mg/L
Yes/No</th><th></th><th>Standard Ran
50° to 100° F
6.0 - 8.0
Less Than 150
Less Than 300
No</th><th>0 mg/L</th></tr><tr><th>Remarks:</th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>A</th><th></th></tr><tr><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></tr></tbody></table>					

Mach III LLC Luthi 36-33-11 1H **Barber County** Ticket# P-4519 3/3/2022 Surface COMPANY PROJECT NUMBE CUSTOMER REP: Mach III LLC P-4519 **Tim Mills** 3/3/2022 CONTRACTOR

Same

Barber County

LEGAL DESCRIPTION

STATE

OK

Sec. 36-T33N-R11W

MILEAGE

300

Safety Meeting Attendance Sign-In Sheet

Owner

COUNTY

Date: 3/3/2022

Topic: DISCUSS CEMENT PROCEUDRE AND STOP WORK AUTHORITY

Spinnaker Oil

Luthi 36-33-11 1H

LEASE & WELL#

Date	Printed Name	Signature 1
3-Mar	Scott Applebee	Stoll
3-Mar	Brennan Seaman	12 Wh
3-Mar	Ian Roberts	and the second
3-Mar	Fame Non	
3-Mar	FRANCICO J AIPPINIANA	Francisa J Altangano
3-Mar	Fily Moreno	Q. come
3-Mar		
3-Mar		
3-Mar	AN	
3-Mar		
3-Mar	y. Is	
3-Mar		
3-Mar		* *
3-Mar		all n



JOB SAFETY ANALYSIS (JSA)

3/3/2022	P-4519	CUSTOMER Mach III				hi 3	o. 6-33-11 1H		
		evacuation, check boxes as employees	are acco	ounted for - use additiona	al paper if neede	ed)			
	Applebee		_=	<u> </u>		_			
	n Seaman		_	<u></u>		_			
lan F	Roberts		+			_			
	zards Found at the						设施的 。1995年1998年1995年1995年1997		
	s location of electrical li nt and lines. PSW, QA	nes and power sources in Light Plant.	X	Confined Spaces (e.g. cellars, tanks, pits			er.LGC Bldr.		
Chemicals , vapors,	radioactive materials,	to substances such as dusts, explosives, and Fla./combustible is Flammable gasses. SEE MSDS	X	Noise Discuss areas provide hearing protect		leve	s and avoid these areas or		
		g. guy wires, DME, chains, ler the rig floor).Rig guy wires.	X		rds, limestone, n	nud,	the terrain where the rig up and stairways, walkways, the derrick,		
X Cranes, Masts, E lifting devices. CRA		rds associated with overhead	X	X Lifting Discuss proper lifting techniques and ways to eliminate or reduce heavy lifting such as forklifts, cranes, and sharing the load. CRANE, BUDDY SYS.					
X Weather Discuss wind, dust, visibility,		g. heat, cold, ice, snow, rain,	X	Falling Discuss job p ft. (3.3 m). FALL PRO			work at heights greater than 10 tion for tanks.		
	& releases Tote tank mps. USE DIAPERS.	ks, frac tanks, drums, hose	X	Pressure Discuss pr 10.000 psi	ressure hazards	such	n as DME and bulk tanks.		
		tion sources (e.g. engines, , etc.) SMOKING, EQUIP, DIESEL.	X	LO / TO Discuss equ	ipment that has	bee	n locked or tagged out.		
X Well bore fluids lines and vent lines.		shale shaker, frac tanks, return		RA Handling Discus Restrict the work area to Procedures	ss hazards work to those with the	ing a	around different types of radiation. per training. Follow approved		
	Restrict the work area	of working with and around to those that have proaper							
3. Hazard Controls							。 第15章 1868年第15章 15章 15章 15章 15章 15章 15章 15章 15章 15章		
respirators, head pro		cuss required PPE such as tion, protective footwear, hand DPER PPE.	X	Vents Discuss vent li	nes for frac tank	s an	d bulk tanks.		
X Physical barriers guards, railings, and		as hose covers, line tiedowns,	X	Equipment monitor	red for leaks	duri	ng job and contained		
X Weather Discuss temperature, wind, i	control measures for w ce, rain, snow, etc.	eather factors such as	X	Equipment wash-u	p per customer	rs ins	structions.		
sources such as the	controls Discuss con use of spark arrestors, SMOKING rules.Equip		X	Equipment drain paragraphic location.	ans drained in	appr	roved containers prior to leaving		
per charts on equipr	ment and will not be ove		X	All empty contained pails, and drums.	rs must be retu	imed	I to facility l.e. empty sacks,		
extinguishers, and c	communication devices.	s such as pop-off valves, fire FIRE EXT. AIR PACKS.	X	Waste handling Disprocedures.	scussion of cher	mical	and waste handling		
4. Contingency Plan			ΓV	10		50.5			
		station Discuss the location ow to use it.PU, QA, PSW.	LX	Contaminated soil	Discuss proced	lures	tor spill / leak cleanup.		
X Assembly points emergency. LEASE		her in the event of an	X				cuss personnel responsibilities accident.NOTIFY IMMIDIATELY.		
	cuss fire fighting respor	sibilities with the appropriate only).	X	Rescue procedures personnel (trained and		ıe pr	ocedures with the appropriate		
contingency plan su	ch as the assembly are	on and how it may change the a location, and discuss how to ndsocks, streamers, etc.).	X	Emergency shut do shut down in the event			Discuss when, how, and what to		
	Point out the location of inistering first aid. PU, 0	of the first aid kit and who is QA, PSW.	X	Recovery procedur procedures after an em		w to	return to normal operating		
X Reporting Spills	Discuss measures use	ed for spill reporting.	X	Nearest hospital Ti understanding which ve					
X Spill Response I	(it Review location of	Spill Response Kit.		Head count Em Oth Tota					

X Communicated X Assigned 5. Emergency Escape Procedures (Communicate the following information with all employees on location). Safe Refuge Area and / or Meeting Point: Entrance to Location Note: If wind direction changes do not proceed to gathering point, but rather proceed upwind after observing wind direction indicator. Evacuation may occur on site because of: Check appropriate boxes) Release of H2S above 10 ppm H2S monitors X Blowout Combustible gas monitors X Release of flammable gasses X Wind direction indicator (windsocks, streamers, etc.) X Release of other gasses X Escape respirators (one for each employee) X Fire X Full facepiece positive pressure SCBA 7. Emergency Telephone Numbers and / or Method of Contact Sheriff: Supervisor: Scott Applebee Customer: Mach III LLC Designated emergency vehicle & mobile phone # Supervisors of the stream of the following is required: (Check appropriate boxes) X Full facepiece SCBA (30 Minute) X Escape respirators	pervisor PU
Entrance to Location Content	pervisor PU
Entrance to Location Note: If wind direction changes do not proceed to gathering point, but rather proceed upwind after observing wind direction indicator. The following equipment is required on location: (Check appropriate boxes) Release of H2S above 10 ppm H2S monitors X Blowout Combustible gas monitors X Release of flammable gasses X Escape respirators (one for each employee) X Fire X Full facepiece positive pressure SCBA 7. Emergency Telephone Numbers and / or Method of Contact Sheriff: Hospital (Actual phone numbers other than 911): Supervisor: Scott Applebee Customer: Mach III LLC First Aid Responders on this site (Names): Rescue Procedures If emergency rescue is necessary, the following is required: (Check appropriate boxes)	pervisor PU
The following equipment is required on location: (Check appropriate boxes) Release of H2S above 10 ppm H2S monitors X Blowout Combustible gas monitors X Release of flammable gasses X Wind direction indicator (windsocks, streamers, etc.) X Release of other gasses X Fire X Full facepiece positive pressure SCBA Full facepiece positive pressure presure pressure	pervisor PU
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Sheriff: Hospital (Actual phone numbers other than 911): Customer: Mach III LLC First Aid Responders on this site (Names): Designated emergency vehicle & mobile phone # Supercusive S	pervisor PU
First Aid Responders on this site (Names): Designated emergency vehicle & mobile phone # Superscript	pervisor PU
Rescue Procedures If emergency rescue is necessary, the following is required: (Check appropriate boxes)	pervisor PU
	THE COLUMN
X Protective clothing: Monitoring Equipment:	
List: List:	
Hard Hat,Steel Toe Boots,Safety Glasses,Ear Plugs,Coveralls, & Gloves	
Site Plan (Draw the location, indicate the wind direction, and mark the safe area / meeting point.)	
530010	Meeting
South	
10. Postjob Safety Meeting (Note: Enter information into IJR) Date: Time:	
Check Appropriate box for each incident event Vehicle Accident X No Vehicle Ac	ccident
	No Near Miss
Location is as clean as when we arrived.	
Is follow up with customer needed? Yes X No	
COMMENTS	
Customer Representative Spinnaker Representative	
Tim Mills Scott Applebee	

Luti Bar 3/7/	ch III LLC hi 36-33-11 1H ber County 2022 rmediate			Tic	ket#	P-45	36		SPINA	KER
COMP						PROJECT	NUMBER	AFE/WORK		DATE
Mach III LLC CONTRACTOR					Owner	P-4536		LEGAL DES		3/7/2022
LEAS	nnaker Oil					Sam COUNTY		STATE	36, T33N, R11W MILEAGE	15-007-24406
	hi 36-33-11 1H					Barber	County	KS] 3	00
Fro	m Hazelton, KS	- Head N	lorth 2.25	miles o		Tri-City location		ead West	3.5 miles on Gerla	ne Rd. Turn North
	Surface		✓ Intermediat	e	☐ Long Strin	ng	☐ Plug Back			
1	Squeeze		Acid		□ PTA		Other			() H2S
seo	Casing Size	Casing Weig	Thre	ead	CSG Grade	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
Serv	7	26.00	TC	ВС	P-110	Yes	Yes	Yes	Yes	30%
Pumping Services	Number and Type Units	3					BHST - F	Casing Dept	Depth - TVD - FT	Hole Size - Inches
Pum	Pump Truck, 1 ea	ea. 660 Bulk					132	4908	4667	8 3/4
	Remarks 7" Top & Botton both adapters	Bottom Plugs, Head, manifold, circ				on &	105	Tubing Dept	Depth - MD - FT 4908	Mud Weight/Type - PPG WBM ~9.2
	BBL OF SPACER	Type			SPACER					
	40 Fresh Water			Fresh Water						
	BBL OF LEAD	# of Sacks	Тур	ре	LEAD CEMENT					
	63.6	65	Class /		T SA-2 () 3 In/sk Poly Flakes					12% SFA, 1.5%
	55.5	10.20	5.49	Water Gal/S 35.89						
	BBL OF TAIL	# of Sacks	Тур	-	TAIL CEN	MENT				
	37.1	150	Class /							
	H2O REQUIRED	Weight PPG		Water Gal/S	150 5	Sacks 5	0/50 A/PO	Z, 3% G	el, 2% Gypsum	0.35% SFL-5
	23.5	13.80	1.39	6.57						
Displacement 189.4 Water					Wat	ter				
				np time Lead:	: LEAD : 1270'-3	- 6:00+	TAIL - FR hrs. TAIL ail: 3643'-4	- 4:00 h		
SIII.	Casing Size 7			Casing Weig	26.00		Thread			
s te	Guide Shoe			Float Shoe			Float Collar		Insert Float Valve	
Sales Items	Remarks Defoamer, Plugs									

7.6

Mach III LLC Luthi 36-33-11 1H **Barber County** 3/7/2022 Intermediate

Ticket # P-4536



\$35,284.54

\$14,290.82

Customer: Mach III LLC

Customer Rep:

Mobile:

Well Name: Luthi 36-33-11 1H County: Barber County

Job Type: Intermediate

Casing: 7

State: Kansas

Field Supervisor:

API #: 15-007-24406 **Legals:** Sec 36, T33N, R11W

Date: 3/7/2022 Proposal #: 31580001

Ref. #	Description	Quantity	Unit Price	Sub Total	Total /
	******* Cementing Service and Materials *******			790	
MLPU1	Pickup Mileage 1 unit (roundtrip miles)	300	\$3.94	\$1,182.00	\$472.80
MLHE3	Heavy Vehicle Mileage 3 units (roundtrip miles)	300	\$20.34	\$6,102.00	\$2,440.80
MLTN	Bulk Cement Delivery/Return (per Ton-Mile)	1,581	\$2.73	\$4,316.13	\$1,726.45
MXBK	Bulk Material Mixing Service Charge (Per cu.ft.)	215	\$3.03	\$651.45	\$260.58
CMTHD	Cement Head with manifold (per Job)	1	\$1,895.00	\$1,895.00	\$758.00
PC6K	Pump Charge 5001-6000' (Per 5 hrs)	1	\$4,325.75	\$4,325.75	\$1,730.30
DAQ	Data Acquisition System	1	\$1,331.00	\$1,331.00	\$532.40
FLSCG	Fuel Surcharge (per unit/per job)	3	\$605.00	\$1,815.00	\$726.00
ENVFEE	Environmental Fee	1	\$211.75	\$211.75	\$84.70
DAMSS	Data Monitoring System/Supervisor	1	\$800.00	\$800.00	\$320.00
CIRON	Circulation Equipment (40' of equipment per job)	1	\$1,512.50	\$1,512.50	\$605.00
CSTD	Class A Type Standard Cement (per sack)	118	\$31.81	\$3,753.58	\$1,501.43
CPOZF	POZ (per sack)	98	\$17.35	\$1,700.30	\$680.12
CEXTGEL	GEL (per lb)	1,100	\$0.63	\$693.00	\$277.20
CEXTGYP	Gypsum (per lb)	931	\$0.54	\$502.74	\$201.10
CEXTSFA	SFA (per lb)	679	\$1.21	\$821.59	\$328.64
CFL5	SFL-5 (per lb)	45	\$18.56	\$835.20	\$334.08
CFWCSA1	SA-2 (per lb)	85	\$19.52	\$1,659.20	\$663.68
CLCMPF	Poly Flake (per lb)	20	\$3.23	\$64.60	\$25.84
	Additional Items if used				
PCADD	Primary Pump Unit Addl Hours	0.0	\$594.50	\$0.00	\$0.00
BKADD	Bulk Unit Additional Hours (per unit/per hour)	0.0	\$121.00	\$0.00	\$0.00
VALV12	1" to 2" valves	1	\$393.25	\$393.25	\$157.30
SG36	Swage, 4 1/2" - 13 3/8" (per day)	1	\$423.50	\$423.50	\$169.40
FTRP7	7" Top Rubber Plug	0	\$140.00	\$0.00	\$0.00
CACCCC	Calcium Chloride (per lb)	0	\$1.45	\$0.00	\$0.00
RADIO	Radios (per job)	0	\$135.00	\$0.00	\$0.00
CSUGAR	Sugar (per lb)	0	\$1.47	\$0.00	\$0.00
CDFDIAL	ATF Cement Defoamer (per gal)	10	\$29.50	\$295.00	\$295.00
DERKC	Derrick Charge (Cement Head Stabbing Above 8 ft)	0	\$726.00	\$0.00	\$0.00
WTCMT	Waiting on Cement Head after job (per hours)	0	\$95.00	\$0.00	\$0.00
				7	7 - 7 - 7

Signature:		
Field Supervisor:	Charles Spracklen	

Estimated Job Cost (Exclusive of Sales Tax)

Book Price

Signature: **Customer Rep:** Carlos Rendon
14,296 00

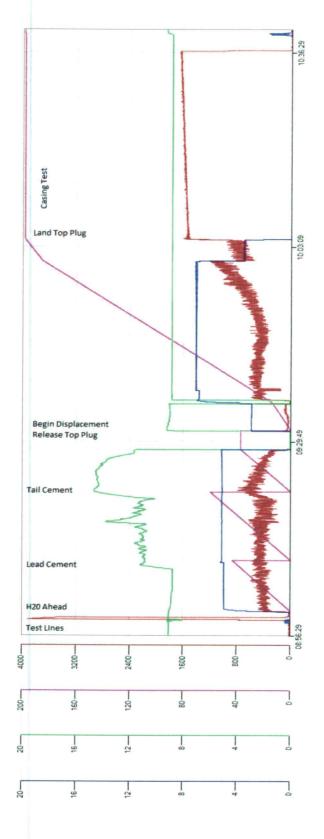
Mach III LLC Luthi 36-33-11 1H Barber County 3/7/2022 Intermediate	Ticket#	P-4536	SP OLFIELD S	INN I	(EIS
COMPANY		PROJECT NUMBER	CUSTOMER REP:		DATE
Mach III LLC		P-4536		ř	3/7/2022
CONTRACTOR	Owner		LEGAL DESCRIPTION		
Spinnaker Oil		Same	Sec 36, T3	3N, R11W	
LEASE & WELL#	COUNTY		STATE	MILEAGE	
Luthi 36-33-11 1H	Barber Co	untv	KS		300

Customer Job Satisfaction Sheet

We will greatly appreciate if you can fill out a short survey regarding our performance today. Safety and service quality are our top priorities and we want to ensure that we are continually providing the best service possible in the safest manner as possible. These surveys are regularly reviewed and we highly value your opinion. Thank you for your business.

	Poor	Fair	Satisfactory	Great	Outstanding
HSE					6
Performance of Crew					
Performance of Equipment					~
Service Quality					
Job Completed as Agreed					

Λ /
Customer Name (Printed)
Customer Signature:Date:



Date 37/22 wellname Luthi 36-33-11 1H Location. Barber County, Kansas Country, MAGA Operators Mach III LLC. Supervisor Charles Spracklen Jobhype, 7' Intermediate Address. Comment A-Team

	PIN SERVICE	IAK	ER			JO	B LO	Project Number P-453	66 03/07/22
Mach III I	LI C			USA				STATE KS	Barber County
ASE NAME	33-11 1H	Well No.		EMPLOYEE	NAME			CUSTOMER REP	Darber County
ELD				SEC / TWP / I		N, R11W	,	TICKET AMOUNT	
PI/UWI #	4406			JOB PURPOS Interm	SE .			WELL TYPE	
PUMP	#1	30	9						
PUMP	#2								
PUMP	#3							1	
Date	Time	Rate (BPM)	Volum (BBL)(C			Press CSG.	s.(PSI)	Job D	escription / Remarks
3/6/22	2100							Arrive	in yard, Pre travel meeting
	0330							Arrive or	ı location, Pre rig up meeting
	0600								test pump 309
	0800							Safety	& Pump Procedure Meeting
0900			9.04 · · · · · · · · · · · · · · · · · · ·				4000		Test Lines
	0902	5.0	40.0)			400	Pump 40k	obl H20 Ahead 5bpm @ 400psi
	0910	5.0	63.0	,			460	Pump 63bb	ol Lead Cement, 5bpm @ 460psi

380

514

578

890

720

Supervisor Signature:

37.0

100.0

150.0

170.0

189.0

2.5

0920

0928

0930

0950

0957

1000

1004

1035

1200

3/7/2022

5.0

7.0

7.0

7.0

3.5

WD -

1520

Print Name: Charles Spracklen

830

Pump 37bbl Tail Cement, 5bpm @ 380

Shut Down, Release Top Plug

Begin Displacement, 7bpm @ 514psi

100bbl Pumped, 7bpm @ 578

150bbl Pumped, 7bpm @ 890psi

Slow Rate to 3.5bpm @ 720psi

Bump Plug, Final Pressure 830psi, bump to 1520psi hold for 30

min. Casing Test

Release Pressure, Floats held with 2.5bbl returns

Rig down, Leave location



EQUIPMENT CHECKLIST

UNIT # 309

1.	B	EFORE THE JOB – PREPARE
		Power up the unit, ensuring all electronics are functioning, and recalibrate all console pressure gauges to atmospheric pressure
		Check the cement head (visually inspect), vacuum breakers, and dry cement line.
		Prime the truck up and pressure test. Test for Global kick-out, and check martin decker gauges. Note any difference between console and martin decker pressures.
		Function test and pump through the entire plumbing, checking all lines as well as centrifugal and triplex pumps. Check for any packing leaks on the pumping unit. Chart the test.
		Check the bulk equipment; compressors, valves, pop-offs, to make sure it airs up and hold pressure.
		Check the casing cement head, O-rings, adapters (sizes and thread types).
		Check the bulk paperwork, ensuring all correct cement and volumes are on location.
		Check to make sure all chemicals and plugs are on location. Check the auxiliary boost pump, if any.
		Perform a Water Analysis.
2.	D	URING THE JOB
		Note any pumping issues or any discrepancies on outputs
		Check for any leaks and contain accordingly if any
3.	A	FTER THE JOB
		Turn in the check list to customer, if requested, and include a copy with packet, and make detailed note of any issues
		Supervisor Comments:
l	(:	Supervisor Name and Signature) (Operator Name and Signature)



SERVICE ORDER CONTRACT

Customer Name	Mach III LLC	Ticket Number	P-4536		
Lease & Well Number	Luthi 36-33-11 1H	Date	3/7/2022		

As consideration, The Above Named customer Agrees:

Spinnaker Oilfield Services Company LLC ("Spinnaker") shall not be responsible for and customer shall secure Spinnaker against any liability for damage to property of customer and of the well owner (if different from customer),

unless caused by the willful misconduct or gross negligence of Spinnaker, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage, unless an MSA between Spinnaker and above named customer specifies otherwise.

Spinnaker makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Spinnaker personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to Spinnaker gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 10 days following the date on the invoice.

Upon customers default in payment of the customers account 15 days past due.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent:

Mach III LLC Luthi 36-33-11 1H Barber County 3/7/2022

Ticket # P-4536



Intermediate			
	LOCATION WATE	R TEST	
General Information			
Customer: Mach III I	LLC	Date:	
Sales Order # :	P-4536	Time:	
Lease Name & # :	Luthi 36-33-11 1H	Water Source:	
Tested By :	Charles Spracklen		
	Test Results Sar	nple #1	
Temp pH Sulfates Chlorides Lignins & Tannins	6.0 500 mg/L 1500 mg/L NO Yes/No	Standard Range 50° to 100° F 6.0 - 8.0 Less Than 1500 mg/L Less Than 3000 mg/L No	
	Test Results Sar	nple #2	
Temp pH Sulfates Chlorides Lignins & Tannins	° F mg/L mg/L Yes/No	Standard Range 50° to 100° F 6.0 - 8.0 Less Than 1500 mg/L Less Than 3000 mg/L No	
Remarks:			
			_

Mach III LLC Luthi 36-33-11 1H Barber County 3/7/2022 Intermediate	Ticket	#	P-4536	A COLUMN TWO IS NOT THE OWNER.	PINN ELD SERVICES	4	(ER
COMPANY			PROJECT NUMB	ECUSTOMER	REP:		DATE
Mach III LLC			P-4536		0		3/7/2022
CONTRACTOR		Owner		LEGAL DES	CRIPTION		
Spinnaker Oil			Same				
LEASE & WELL #		COUNTY		STATE	MILEAGE		
Luthi 36-33-11 1H		Bar	ber County	KS		300	1

Safety Meeting Attendance Sign-In Sheet

Date:	3/7/2022	
Topic:	Slips Trips & Falls	

Date	Printed Name	Signature
	Charles Spracklen	All and a second a
	Troy Corley	
40	Tez Bell	2mg
	Carlos Rendón Lis Wangs	Lacka Fach
	lis Waren	X
	Solvedor Ordice	Sath
	File mororo	D. Meru
	be	
77		

SPINN KER

JOB SAFETY ANALYSIS (JSA)

DAT	3/7/2022	TICKET NUMBER 31580001	CUSTOMER	Mach III LLC				thi 3	86-33-11 1H	
屵		s on site (In case of	evacuation, check box	es as employees are	acc	ounted for - use add	itional paper if ne	eded	1)	
=		s Spracklen			_					
		y Corley			=			-		
] 16 1	ez Bell	=		_					
		azards Found at the								
X	X Electrical Discuss location of electrical lines and power sources in relation to equipment and lines. PSW, QA. Light Plant.					(e.g. cellars, tanks, p			ed entry into confined spaces ver.LGC Bldr.	
	Chemicals Discuss possible exposures to substances such as dusts, Chemicals , vapors, radioactive materials, explosives, and Fla./combustible materials. Provide MSDS sheets, H2S, Gas Flammable gasses. SEE MSDS				Noise Discuss areas with high noise levels and avoid these areas or provide hearing protection. EQUIP.					
Х	Overhead Discuss overhead hazards (e.g. guy wires, DME, chains, pulleys hazards while on the rig floor or under the rig floor). Rig guy wires.				Walking / working surfaces Discuss the terrain where the rig up and job will occur (e.g. boards, limestone, mud, stairways, walkways, the derrick, and the rig floor). HOSES, IRON, EQUIP.					
X	Cranes, Masts, Booms Discuss hazards associated with overhead lifting devices. CRANE TRUCK.				X Lifting Discuss proper lifting techniques and ways to eliminate or reduce heavy lifting such as forklifts, cranes, and sharing the load. CRANE, BUDDY SYS.					
X	Weather Discuss weather conditions (e.g. heat, cold, ice, snow, rain, wind, dust, visibility, etc.)			, rain,	Falling Discuss job procedures requiring work at heights greater than 10 ft. (3.3 m). FALL PROTECTION.Fall protection for tanks.					
X	Chemical spills & releases Tote tanks, frac tanks, drums, hose connections and pumps. USE DIAPERS.				Pressure Discuss pressure hazards such as DME and bulk tanks.					
X	Ignition Sources Discuss possible ignition sources (e.g. engines, electrical equipment, open flames, smoking, etc.) SMOKING, EQUIP, DIESEL.				X LO / TO Discuss equipment that has been locked or tagged out.					
X	Well bore fluids or gasses Discuss shale shaker, frac tanks, return lines and vent lines.				RA Handling Discuss hazards working around different types of radiation. Restrict the work area to those with the proper training. Follow approved Procedures					
	explosive materials	ndling Discuss hazards s. Restrict the work area oproved procedures.	s of working with and are a to those that have pro	round aper		rioscanos				
3. H	lazard Controls					The state of the s	Personal St.	galle ve		
X	respirators, head p	ctive equipment Disprotection, hearing protection, and fall protection. PR	ction, protective footwe	h as ar, hand	X	Vents Discuss ven	nt lines for frac ta	nks a	and bulk tanks.	
X	Physical barrie	ers Discuss items such and inert gas blankets.		downs,	X	Equipment moni	tored for leak	s dui	ring job and contained	
Х	Weather Discust temperature, wind,	s control measures for w , ice, rain, snow, etc.	veather factors such as	[X	Equipment wash	-up per custom	ners in	nstructions.	
X	Ignition source controls Discuss control measures for ignition sources such as the use of spark arrestors, emergency shutdown procedures, and NO SMOKING rules.Equip. & Smoking.				X Equipment drain pans drained in approved containers prior to leaving location.					
X	Crane, Masts, Booms Safe working capacities have been per charts on equipment and will not be overloaded.			lculated	All empty containers must be returned to facility I.e. empty sacks, pails, and drums.					
	extinguishers, and	ent Discuss safety items communication devices	. FIRE EXT. AIR PACK	s, fire S.	Waste handling Discussion of chemical and waste handling procedures.				al and waste handling	
		ns for Emergencies			V					Frank S
^	of the eyewash/saf	ewash/safety shower fety shower station and h	now to use it.PU, QA, P	sw.	A.	Contaminated so	Discuss proc	edure	es for spill / leak cleanup.	
X	Assembly point emergency. LEASE	ts Discuss where to gat E ROAD.	ther in the event of an						scuss personnel responsibilities r accident.NOTIFY IMMIDIATELY.	
X	Fire fighting Discuss fire fighting responsibilities with the appropriate personnel (trained and equipped personnel only).			ppriate	Rescue procedures Discuss rescue procedures with the appropriate personnel (trained and equipped).					
X	Wind direction Discuss the wind direction and how it may change the contingency plan such as the assembly area location, and discuss how to detect wind direction on the job site (e.g. windsocks, streamers, etc.).			how to	Emergency shut down procedures Discuss when, how, and what to shut down in the event of an emergency.					
X	First aid station Point out the location of the first aid kit and who is responsible for administering first aid. PU, QA, PSW.			ho is	Recovery procedures Discuss how to return to normal operating procedures after an emergency.					
X	Reporting Spills Discuss measures used for spill reporting.				Nearest hospital The best rout of travel along with everyone understanding which vehicle will be used as the ambulance.					
X	Spill Response	Kit Review location of	Spill Response Kit.				mployees	<u>3</u>		
						Т	otal 1	2		

Roles and Responsibilities						
X Communicated X As	signed					
Emergency Escape Procedures (Communicate th	e following information with a	Il employees on location).	The Property and the State of the Contract of			
fe Refuge Area and / or Meeting Point: Entra	nce to Location					
te: If wind direction changes do not proceed to gathering racuation may occur on site because of: neck appropriate boxes)	point, but rather proceed upw	ind after observing wind direction indicator. The following equipment is required (Check appropriate boxes)	on location:			
Release of H2S above 10 ppm		H2S monitors				
Blowout		Combustible gas monitors				
Release of flammable gasses		X Wind direction indicator (windsock	s, streamers, etc.)			
Release of other gasses		X Escape respirators (one for each e	mployee)			
Fire		X Full facepiece positive pressure S0	CBA			
Emergency Telephone Numbers and / or Metho	d of Contact					
eriff:		Hospital (Actual phone numbers other	than 911):			
pervisor:		Customer: Mach III LLC				
t Aid Responders on this site (Names):		Designated emergency vehicle & mobi	le phone # Supervisor PU			
scue Procedures If emergency rescue is neces	ary, the following is requ	ired: (Check appropriate boxes)				
Full facepiece SCBA (30 Minute)		X Escape respirators				
Protective clothing:		Monitoring Equipment:				
: rd Hat,Steel Toe Boots,Safety Glasses,Ea	r Pluge Coveralle &	List:				
oves	r riugs,coveralis, &					
e Plan (Draw the location, indicate the wind direction, a	nd mark the safe area / meet	ng point.)				
			SafetyMeeting			
Norub						
						
2000						
Postjob Safety Meeting (Note: Enter information in	o IJR) Date:	Time:				
eck Appropriate box for each incident event		Vehicle Accident	X No Vehicle Accident			
Injury X No Injury	Spill	Near Miss	X No Near Miss			
Location is as clean as when we arrived.						
	Yes X No					
Is follow up with customer needed?						
Is follow up with customer needed? MMENTS						
		Spinnaker Representative				