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District I
1625 N. French Dr., Hobbs, NM 88240
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
June 19, 2008

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-35853
1. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other: HOBBS OCD		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No.
3. Address of Operator 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		7. Lease Name or Unit Agreement Name Mae F Curry <309145>
4. Well Location Unit Letter <u>D</u> : 660 feet from the North line and 660 feet from the West line Section 7 Township 21S Range 37E NMPM County Lea		8. Well Number 003
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3490' GL		9. OGRID Number 873
		10. Pool name or Wildcat Hardy; Blinebry (29710) & Hardy; T-D (29760)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input checked="" type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to DHC the following pools:

Pool Names:	Perforations:
Hardy; Blinebry 29710	Blinebry 5709'-6329' (proposed)
Hardy; Tubb-Drinkard 29760	Tubb/Drinkard 6420'-6810' (existing)

The allocation method will be as follows based on offset production. (See attached application for exception to Rule 303-C.)

	OIL	GAS	WATER
Blinebry	86%	57%	81%
Tubb/Drinkard	14%	43%	19%

DHC-HOB-533

Downhole commingling will not reduce the value of these pools. Ownership is the same for each of these pools.

Spud Date:

04/03/2002

Rig Release Date:

04/20/2002

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Reesa Fisher

TITLE Sr. Staff Regulatory Analyst

DATE 03/24/2015

Type or print name Reesa Fisher

E-mail address: ~~Reesa.Fisher@apachecorp.com~~

PHONE: 432/818-1062

For State Use Only

APPROVED BY:

[Signature]

TITLE

Petroleum Engineer

DATE

04/03/15

Conditions of Approval (if any):

APR 08 2015

[Signature]

Downhole Commingle Request



Date: Mach 16, 2015
From: Bret Shapot
Subject: Downhole Commingle Request
Mae F Curry #3 (API: 30-025-35853)
Lea County, New Mexico
(APA: 100% WI, 87.53% NRI)

Summary

The Mae F. Curry #3 is located at 660' FNL & 660' FWL of Section 7, Township 21S & Range 37E, Lea County, NM. The well was drilled in April 2002, and completed and placed on production from the Hardy Tubb-Drinkard in May 2002. An off-set well to the east, Mae F. Curry #5, was completed in the Hardy Blinebry pool in October 2014. It is now planned to complete the Mae F. Curry #3 in the Hardy Blinebry pool, and we request approval to downhole commingle the Hardy Tubb-Drinkard and the Hardy Blinebry pools in this well.

Discussion

The Hardy-Tubb Drinkard has been producing in the Mae F. Curry #3 since May 2002 and is currently producing at a rate of approximately 3 BOPD, 73 MCFD, and 13 BWPD. Estimated remaining recoverable reserves from the Hardy-Tubb Drinkard are 6.3 MBO, 200.0 MMCF, along with 35.4 MBW (see attachments). Remaining oil reserves were determined using decline curve analysis. Remaining gas reserves were forecasted using a gas-oil ratio of 31.7 MMCF/MBO (average over the last 12-months) and water production forecasted at a water-oil ratio of 5.6 MBW/MBO (average over the last 12-months).

The Hardy Blinebry has not been completed in the Mae F. Curry #3; however, it has been completed and produced commercially from several offset wells, with the average ultimate reserve recovery from the Hardy Blinebry for six of these offset wells estimated to be 46 MBO, 281.5 MMCF, along with 224.2 MBW. These offsets were chosen for evaluation due to their proximity to the Mae F. Curry #3 and availability of quality production data for the Hardy Blinebry. Based on well logs, the performance of the Hardy Blinebry in the Mae F. Curry #3 is expected to be comparable to these offsets.

An incremental rate and reserve profile for completing the Blinebry in this well was generated by fitting a production profile for both oil and gas to wells that have been completed in the Blinebry with allocations.

The results predict a differential production increase from the Blinebry to be 26.2 BOPD and 75.0 MCF with an EUR of 37.5 MBO and 268 MCF. Using the estimated remaining reserve recovery for the Hardy Tubb-Drinkard and the expected reserve recovery for completing the Hardy Blinebry, a fixed allocation percentage allocation is recommended for the Mae F. Curry #3 as shown in Table 1 below:

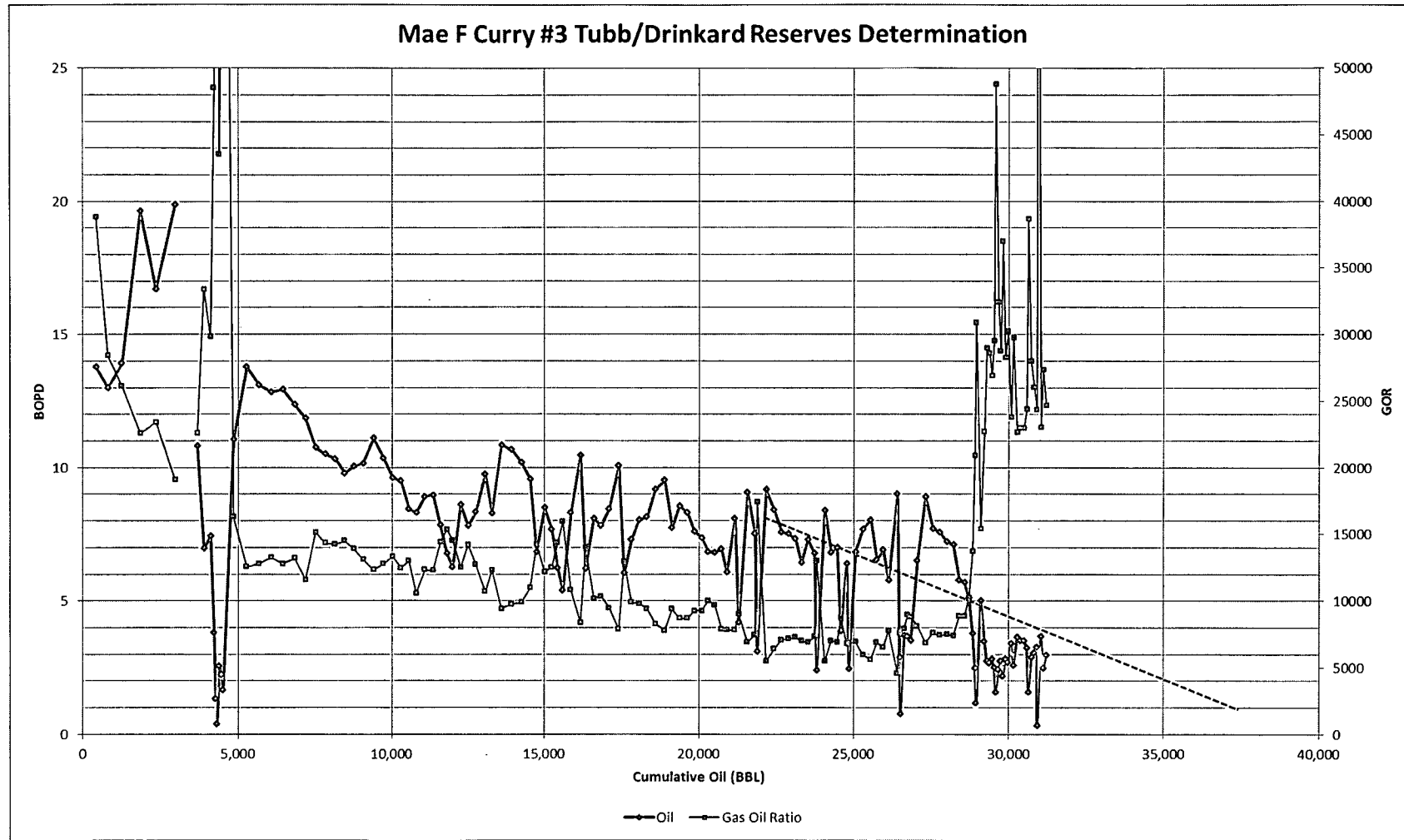
Table 1: Mae F Curry #3 Allocations

Pool	Fluid	Expected Recovery	Percent Allocation
Hardy Blinebry	Oil (MBO)	37.5	85.6%
	Gas (MMCF)	268	57.2%
	Water (MBW)	153.2	81.2%
Hardy Tubb-Drinkard	Oil (MBO)	6.3	14.4%
	Gas (MMCF)	200.0	42.8%
	Water (MBW)	35.4	18.8%

List of Attachments

- A1. Mae F. Curry #3 Production Plot and Remaining Reserve Determination
- A2. Hardy Blinebry Reserve Determination for Offset Wells
- A3. Mae F. Curry #3 Area Map
- A4. Proposed Wellbore Diagram

A1. Mae F. Curry #3 Production Plot and Remaining Reserve Determination



	Oil (BBL)	Gas (MCF)	Water (BBL)
Cumulative Production	31,195	436,323	57,991
Estimated EUR	37,500	636,369	93,418
Remaining Recoverable	6,305	200,046	35,427

A2. Hardy Blinebry Reserve Determination for Offset Wells

Lease	Well No.	API	Hardy Blinebry Production Dates		Hardy Blinebry Cumulative Production to Date			Hardy Blinebry Estimated EUR*			Hardy Blinebry Peak IP30	
			Start	End	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil (BBL)	Gas (MCF)	Water (BBL)	(BOPD)	(MCFD)
Deck Estate 7	1	30-025-33677	Apr-05	Aug-14	42,150	140,993	36,486	135,000	275,000	107,026	23.6	67.5
H.T. Mattern NCT-C	12	30-025-25547	Mar-78	Sep-87	20,679	131,604	194,812	22,500	152,000	264,588	24.9	179.3
Oxy State F 1	1	30-025-35176	May-03	Aug-14	23,175	185,720	232,780	37,500	340,000	549,308	21.2	105.6
State F-1	10	30-025-27034	Sep-86	Nov-96	34,999	213,861	32,583	40,500	570,000	36,154	32.2	151.5
State F-1	11	30-025-35466	Jan-04	Aug-14	23,807	113,016	168,201	38,000	160,000	199,426	18.4	44.2
State F-1	17	30-025-38429	Sep-07	Aug-14	26,529	173,770	303,312	37,500	220,000	531,155	55.6	249.9
State F-1	15	30-025-35771	Jan-04	Aug-14	24,090	182,786	58,322	32,500	260,000	75,653	13.5	74.6
WBDU	25	30-025-26265	Jul-80	Feb-07	21,939	186,114	24,738	25,000	275,000	30,518	19.9	79.7
				Mean	27,171	165,983	131,404	46,063	281,500	224,228	26.2	119.1
				P50	23,949	178,278	113,262	37,500	267,500	153,226	22.4	92.7

*Oil and gas EUR forecast using decline curve analysis. Water forecast using last 12 months average WOR

Lease	Well No.	API	Notes
Deck Estate 7	1	30-025-33677	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard April 2005
H.T. Mattern NCT-C	12	30-025-25547	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard January 1979. No digital log
Oxy State F 1	1	30-025-35176	Well produced from the Blinebry only from May 2003 to Current
State F-1	10	30-025-27034	Well produced from the Blinebry only from September 1986 to November 1996. No digital log
State F-1	11	30-025-35466	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Tubb/Drinkard January 2004
State F-1	17	30-025-38429	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Tubb/Drinkard September 2007. No digital log
State F-1	15	30-025-35771	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Tubb/Drinkard January 2004. No digital log
WBDU	25	30-025-26265	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard February 1981

LEGEND

- Mae F Curry
- Evaluated Wells
- Cum. Oil Produced (BBL)
- Cum. Gas (MCF)

Map Labels and Data:

Section 6:

- STATE F-1 16: 558,806 (Oil), 11,471 (Gas)
- STATE F-1 25: 10,368 (Oil), 20,556 (Gas)
- STATE F-1 28: 9,099 (Oil), 24,189 (Gas)
- STATE F-1 23: 10,003 (Oil), 96,492 (Gas)
- STATE F-1 22: 10,222 (Oil), 49,203 (Gas)
- STATE F-1 26: 10,545 (Oil), 73,628 (Gas)
- STATE F-1 24: 11,876 (Oil), 23,093 (Gas)
- STATE F-1 18: 11,814 (Oil), 35,604 (Gas)
- STATE F-1 20: 13,055 (Oil), 34,560 (Gas)
- STATE F-1 10: 25,891 (Oil), 175,869 (Gas)
- STATE F-1 11: 24,485 (Oil), 116,823 (Gas)
- STATE F-1 17: 20,529 (Oil), 173,770 (Gas)
- OXY STATE F-1: 23,175 (Oil), 185,720 (Gas)
- STATE F-1 15: 24,060 (Oil), 182,786 (Gas)
- STATE F-1 9: 59,917 (Oil), 422,816 (Gas)
- STATE F-1 10: 34,999 (Oil), 213,861 (Gas)
- MCO MATTERS 5: 28,280 (Oil), 63,313 (Gas)

Section 5:

- HAWK A-5 5: 8,517 (Oil), 182 (Gas)
- HAWK A-4 4: 49,933 (Oil), 846 (Gas)
- WBDU 22: 47,448 (Oil), 275,292 (Gas)
- HAWK A-5 3: 18,597 (Oil), 190,655 (Gas)
- WBDU 10: 21,039 (Oil), 186,114 (Gas)
- WBDU 27: 51,697 (Oil), 57,131 (Gas)
- WBDU 23W: 0 (Oil), 0 (Gas)
- WBDU 28: 22,096 (Oil), 52,076 (Gas)
- WBDU 29: 492,861 (Oil), 0 (Gas)
- WBDU 24: 0 (Oil), 0 (Gas)
- WBDU 30: 0 (Oil), 0 (Gas)
- WBDU 55: 0 (Oil), 0 (Gas)
- WBDU 31: 0 (Oil), 0 (Gas)
- WBDU 44: 0 (Oil), 0 (Gas)
- WBDU 46: 0 (Oil), 0 (Gas)
- WBDU 48: 0 (Oil), 0 (Gas)
- WBDU 43 WSW: 0 (Oil), 0 (Gas)
- WBDU 36W: 0 (Oil), 0 (Gas)
- WBDU 40: 0 (Oil), 0 (Gas)
- WBDU 65: 0 (Oil), 0 (Gas)
- WBDU 70: 0 (Oil), 0 (Gas)
- WBDU 63: 0 (Oil), 0 (Gas)

Section 12:

- CURRY MAE F 3: 0 (Oil), 0 (Gas)
- CURRY MAE F 5: 0 (Oil), 0 (Gas)
- DECK ESTATE 7: 42,150 (Oil), 140,993 (Gas)
- GOINS ML 4: 7,302 (Oil), 95 (Gas)
- MATTERN H T NCT-C 12: 20,679 (Oil), 131,604 (Gas)
- MATTERN H T NCT-C 9: 18,123 (Oil), 79,299 (Gas)
- MATTERN H T NCT-C 8: 26,230 (Oil), 199,035 (Gas)
- MATTERN H T NCT-C 6: 54,564 (Oil), 630,298 (Gas)

Section 7:

- WBDU 25: 21,039 (Oil), 186,114 (Gas)
- WBDU 140: 0 (Oil), 0 (Gas)
- WBDU 24: 0 (Oil), 0 (Gas)
- WBDU 30: 0 (Oil), 0 (Gas)
- WBDU 55: 0 (Oil), 0 (Gas)
- WBDU 31: 0 (Oil), 0 (Gas)
- WBDU 44: 0 (Oil), 0 (Gas)
- WBDU 46: 0 (Oil), 0 (Gas)
- WBDU 48: 0 (Oil), 0 (Gas)
- WBDU 43 WSW: 0 (Oil), 0 (Gas)
- WBDU 36W: 0 (Oil), 0 (Gas)
- WBDU 40: 0 (Oil), 0 (Gas)
- WBDU 65: 0 (Oil), 0 (Gas)
- WBDU 70: 0 (Oil), 0 (Gas)
- WBDU 63: 0 (Oil), 0 (Gas)

Section 8:

- HAWK B-1 14: 78,996 (Oil), 1,295,378 (Gas)
- HAWK Fdl. B-1 12: 0 (Oil), 0 (Gas)
- WBDU 40: 0 (Oil), 0 (Gas)
- WBDU 65: 0 (Oil), 0 (Gas)
- WBDU 70: 0 (Oil), 0 (Gas)
- WBDU 63: 0 (Oil), 0 (Gas)

Apache Corporation

Mae F. Curry #3

WELL DIAGRAM (PROPOSED CONFIGURATION)

8-5/8" CSG. CMT. CIRC.

5-1/2" CSG.

DV Tool @ 4896'
w/1075 sx

Blinebry Perfs
(Proposed)
5709'-6314'
45', 45 shots

Tubb Perfs
(Proposed)
6322' - 6329'
4', 4 shots

Tubb Perfs
(Active)
6420 - 6456'
36', 144 shots

Drinkard Perfs
(Active)
6790 - 6810'
20', 80 shots

PBTD (ft): 6,935.0

TD (ft): 6,985.0

WELL NAME: Mae F. Curry #3		API: 30-025-35853		
LOCATION: 660' FNL & 660' FWL, Unit D, Sec. 7, T-21S, R-37E		COUNTY: Lea Co., NM		
SPUD/TD DATE: 4/4/2002 - 4/17/2002		PREPARED BY: Bret Shapot		
COMP. DATE: 6/12/2002		UPDATED: 3/18/2015		
TD (ft): 6,985.0	KB Elev. (ft): 3500.0	KB ELEV: 10.0		
PBTD (ft): 6,935.0	Ground Elev. (ft): 3490.0			
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)
Surface Casing	8-5/8" (Cmt. w/600sx, circ)	24.00	J-55	0.00 1,295.00
Int. Casing				
Prod. Casing	5-1/2" (Cmt. w/450sx)	15.50	J-55	0.00 6,982.00
Tubing	2-7/8"	4.70	J-55	0.00 6,860.00

PRODUCTION TBG STRING

ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)
1	218 JTS 2-3/8" 4.7# J-55 TBG		
2	TAC		5500.00
3	SN		6860.00
4			
5			
6			
7			
8			
9			
10			

PRODUCTION ROD STRING

ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	92 JTS 7/8" KD RODS	2,000.00	
2	194 JTS 3/4" KD RODS	4,850.00	
3	6 JTS 1 1/2" K-BARS	300.00	
4	BHP: 2" X 1 1/4" X 20' RHBC	20.00	
5		6,850.00	
6			
7			
8			
9			
10			

SURFACE EQUIPMENT

PUMPING UNIT SIZE:	M-320-256-144	MOTOR HP:	
PUMPING UNIT MAKE:	Lufkin	MOTOR MAKE:	

PERFORATIONS

Form.	Intervals	FT	SPF
Blinebry	Proposed: 5709', 10', 31', 39', 45', 52', 53', 58', 59', 63', 64', 75', 76', 5830', 31', 66', 76'-78', 5915', 34', 35', 61', 90'-92', 6071', 73', 87', 92', 93', 6128', 50'-53', 62', 63', 71', 6216', 26', 65', 6314',	45	1
Tubb	Proposed: 6322', 23', 28', 29' Active: 6420'-6456'	4 36	1 4
Drinkard	Active: 6790'-6810'	20	4



Well Tests

3/24/2015 3:09:37 PM

Report Period: September 1, 2014 to March 24, 2015

Test		Chk	Tubing PSIG		Casing PSIG		Shut-In PSIG		Valid	Volumes						Fluid Level		Ratios						Density	
Date	Hrs	In.	High	Low	High	Low	Tubing	Casing	Test	TU Liq.	Oil	Frm Gas	TU Gas	Water	Lift	Level	Ovr Pump	GOR	WOR	GLR	IGLR	WGR	TGLR	Oil	Gas
Region: PERMIAN										Superintendent: NW DISTRICT (CARNES)						Foreman: EUNICE [HUNTER]									
CURRY, MAE F #3																									
District: NW DISTRICT																									
Status: Producing																									
10/03/14	24								True	17.00	3.00	83.00	83.00	14.00				27.667	4.667	4.882		0.169			
10/04/14	24								True	18.00	3.00	85.00	85.00	15.00				28.333	5.000	4.722		0.176			
10/05/14	24								True	18.00	3.00	81.00	81.00	15.00				27.000	5.000	4.500		0.185			
10/15/14	24								True	25.00	6.00	83.00	83.00	19.00				13.833	3.167	3.320		0.229			
10/16/14	24								True	21.00	6.00	83.00	83.00	15.00				13.833	2.500	3.952		0.181			
10/18/14	24								True	22.00	6.00	83.00	83.00	16.00				13.833	2.667	3.773		0.193			
10/19/14	24								True	21.00	5.00	83.00	83.00	16.00				16.600	3.200	3.952		0.193			
10/20/14	24								True	19.00	6.00	83.00	83.00	13.00				13.833	2.167	4.368		0.157			
10/21/14	24								True	22.00	6.00	83.00	83.00	16.00				13.833	2.667	3.773		0.193			
10/22/14	24								True	20.00	5.00	82.00	82.00	15.00				16.400	3.000	4.100		0.183			
12/25/14	24								True	23.00	3.00	83.00	83.00	20.00				27.667	6.667	3.609		0.241			
03/21/15	24								True	18.00	3.00	80.00	80.00	15.00				26.667	5.000	4.444		0.188			
Averages by Completion:										20.33	4.58	82.67	992.00	15.75											