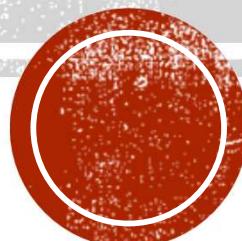


JORGE CASTELLANO

Deployed Dashboards and Data Quality Solutions

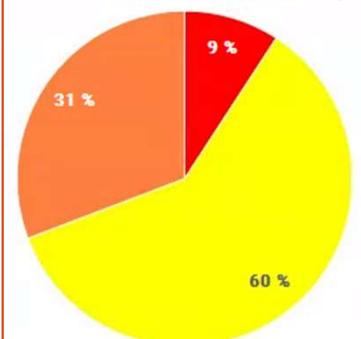


DRILLING SPOTFIRE DASHBOARDS

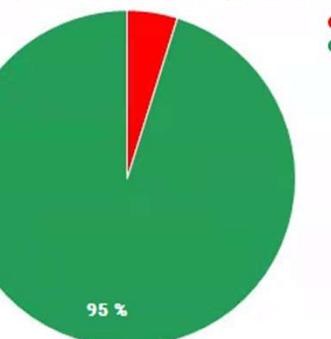


EDM Health Check 96 % Data Quality Indicator [VERY GOOD]

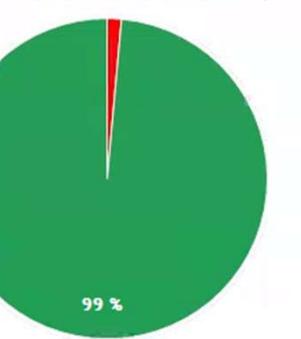
Overall EDM Data Severity



Overall EDM Data Completeness



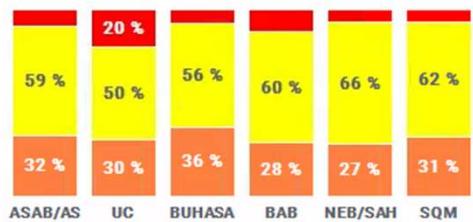
Overall EDM Data Accuracy



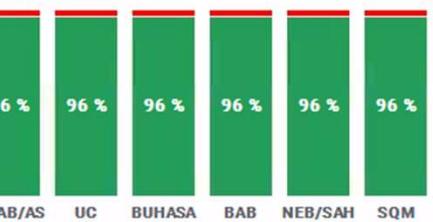
Top Ten Violations Per EDM Data Type

DDR - Safety	4,578
DDR - General	811
DDR - Drillstrings - Summary	554
Casing - Components	294
DDR - Daily Cost	280
DDR - Time Summary	265
DDR - Daily Rental Equipme...	182
DDR - Personnel	156
Casing - General	66
DDR - Time Summary - NPT	48

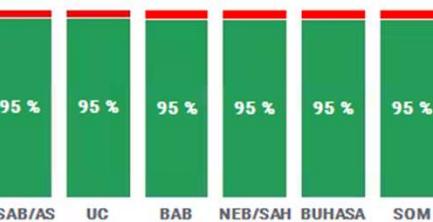
EDM Severity Per DOM



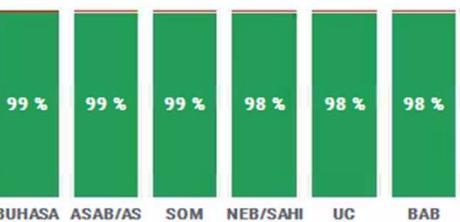
EDM Data Issues Per DOM



EDM Data Completeness Per DOM



EDM Data Accuracy Per DOM



EDM Data Issues Per Rig



Business Rules Summary

Status	DOM	Rig	Well	Hierarchy Tree	Data Type	Attribute	Rule Remark	Rule Severity	Data Issue Category	No of Data Issues
Fail	UC	AD-109	DE-14	DDR	Time Summary - NPT	NPT Description	NPT Description is Null	High	Completeness	25
Fail	UC	AD-109	DE-14	Event Properti...	General	Prev.Loc.HO Date	Prev.Loc.HO Date is Null	Low	Completeness	1
Fail	UC	AD-109	DE-14	WellBore Prop...	General	UWI	Wellbore UWI is Null	Low	Completeness	1
Pass	ASAB/ASR	AD-24	HB-016	Event Properti...	Associated Rig Opera...	Rig pick_up	Rig Pick Up is Null and DDR exists	Medium	Completeness	
Pass	ASAB/ASR	AD-24	HB-053	Event Properti...	Associated Rig Opera...	Rig pick_up	Rig Pick Up is Null and DDR exists	Medium	Completeness	
Pass	ASAB/ASR	AD-24	HB-016	Wellbore	Component	Section type	Component type is Null	Medium	Completeness	

Executive Dashboard Overall EDM Data Severity Overall EDM Data Completeness Overall EDM Data Accuracy Data Issues Details by Wells Data Issues Trend Report by Rig + 29,154 of 29,154 rows 0 marked 71 columns Wells vs Business Rules



Fail

Pass

Filters

Type to search filters

Wells vs Busine... View of Ongoing Wells & Wells Released in the past 30 days

DOM Type to search in I Q

(All) 6 values

ASAB/ASR

BAB

BUHASA

NEB/SAHL

SQM

UC

Rig

Type to search in I Q

(All) 70 val...

AD-8

AD-9

AD-10

AD-11

AD-16

Well

Type to search in I Q

(All) 112 va...

BB-104

BB-1101

BB-1106

BB-1236

BB-124

BB-1289

Business Rule Issue

Fail

Pass

Responsible Party for...

Drilling Engineer

Drilling Supervisor

EDM Team

Data Issue Category

Accuracy

Completeness

Hierarchy Tree

Type to search in I Q

(All) 13 val...

Casing

Some filters are hid...



Your Drilling Onshore Daily QAQC - Users Health Check is 77.62 % This

277534

37227

32043

277534 Issues Passed

79999 Issues Failed

Total Rules

246

-

Consistency

100.00 %

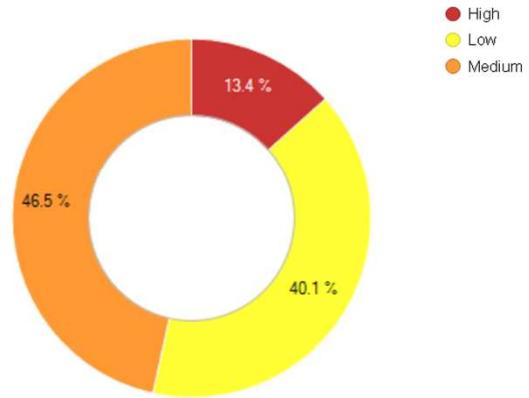
↑ 100.00 %

Completeness

73.00 %

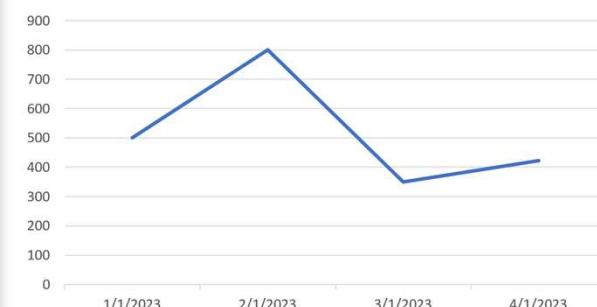
↑ 73.00 %

Severity - Drilling Onshore Ongoing Wells(All Sources)

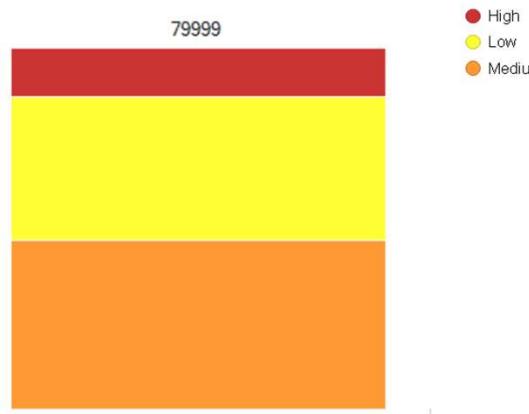


By Time - Drilling Onshore ...

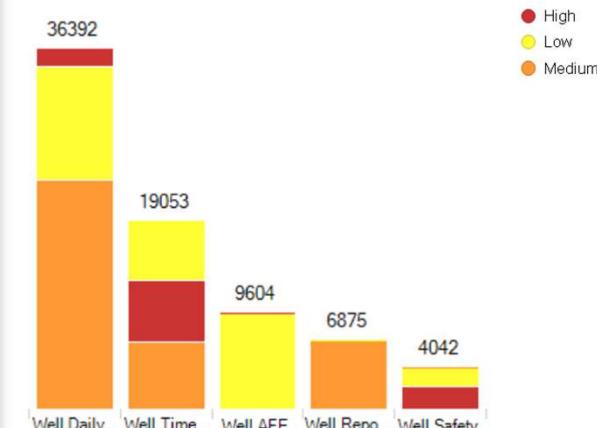
Last Month



By Service Level - Drilling Onshore Ongoing ...



Top Violations - Drilling Onshore Ongoing ...



Affected Locations - Drilling Onshore Ongoing Wells(All Sources)



DM - Drilling Operations Data Entry Mistakes (EDM)

DSDQ@adnoc.ae
To: Aisha Ali Al Mazrouei (ADNOC Onshore - TC (SS&DM)); Bedoor Saeed Al Mazrouei (ADNOC Onshore - TC (SS&DM));
Aasim Waheed (ADNOC Onshore - TC (SS&DM)); Khalid Saleh (ADNOC Onshore - TC (SS&DM))
Cc: Ahmed Abdul Aziz Mohamed Al Jaber (ADNOC Onshore - TC (SS&DM));
Afra Humood Mohamed Al Mansoori (ADNOC Onshore - TC (SS&DM)); +2 others

Wed 22/03/2023 10:56 PM

Rig Focal Points.pdf 50 KB

Drilling Operations Data Entry Mistakes (EDM) - Details.xlsx 708 KB

Dear Drilling Data Management Team,

Below are the All Rigs data entry mistakes for 23/Mar/2023 and attached is the full list for your correction action.

<https://dsdqprod.ad.adco.net:7443/spotfire/wp/OpenAnalysis?file=/DSDQ/Reports/Users/Rigs/OpenWells%20Data%20Issues%20by%20Wells%20for%20DM>

Overall EDM Data Severity

Severity	Percentage
High	13 %
Low	58 %
Medium	30 %

Overall EDM Data Completeness

Status	Percentage
Fail	7 %
Pass	93 %

Overall EDM Data Accuracy

Status	Percentage
Fail	2 %
Pass	98 %

Automated email notifications with EDM Data Entry Mistakes

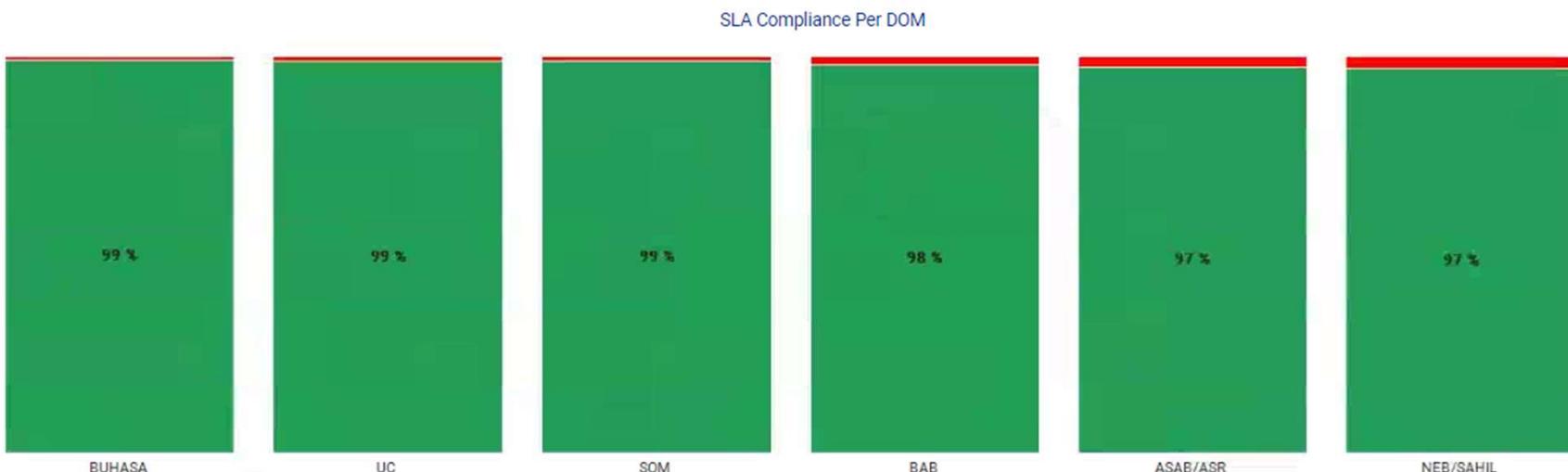
Daily Drilling Report

SLA Compliance

From: 01/01/2023

To: 31/03/2023

Frequency: Daily



DOM	Rig Name	Well Name	Event Code	Event Start	Report Date	SLA Cut-off	Create Date	SLA Compliance
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	04/Mar/2023	05/Mar/2023 06:...	04/Mar/2023 17:32	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	11/Mar/2023	12/Mar/2023 06:...	11/Mar/2023 17:12	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	15/Mar/2023	16/Mar/2023 06:...	15/Mar/2023 17:35	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	19/Mar/2023	20/Mar/2023 06:...	19/Mar/2023 17:10	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	16/Mar/2023	17/Mar/2023 06:...	16/Mar/2023 18:00	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	18/Mar/2023	19/Mar/2023 06:...	18/Mar/2023 17:50	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	20/Mar/2023	21/Mar/2023 06:...	20/Mar/2023 16:40	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	11/Feb/2023	12/Feb/2023 06:00	11/Feb/2023 17:59	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	16/Feb/2023	17/Feb/2023 06:00	16/Feb/2023 16:48	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	12/Mar/2023	13/Mar/2023 06:...	12/Mar/2023 17:12	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	03/Feb/2023	04/Feb/2023 06:00	03/Feb/2023 16:38	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	03/Mar/2023	04/Mar/2023 06:...	03/Mar/2023 17:19	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	27/Jan/2023	28/Jan/2023 06:00	27/Jan/2023 15:33	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	22/Feb/2023	23/Feb/2023 06:00	22/Feb/2023 17:19	Compliant
ASAB/ASR	AD-24	HB-016	RDC	07/Jan/2023	28/Feb/2023	01/Mar/2023 06:...	28/Feb/2023 16:43	Compliant

SLA Compliance

5,159 of 5,159 rows

0 marked

27 columns

Filters

Type to search filters

DDR SLA

DOM

Type to search in list
 (All) 6 values
 ASAB/ASR
 BAB
 BUHASA
 NEB/SAHIL
 SQM
 UC

Rig Name

Type to search in list
 (All) 67 values
 AD-8
 AD-9
 AD-10
 AD-11
 AD-16
 AD-17

Well Name

Type to search in list
 (All) 145 values
 BB-104
 BB-1101
 BB-1106
 BB-1171
 BB-124
 BB-140

Event Code

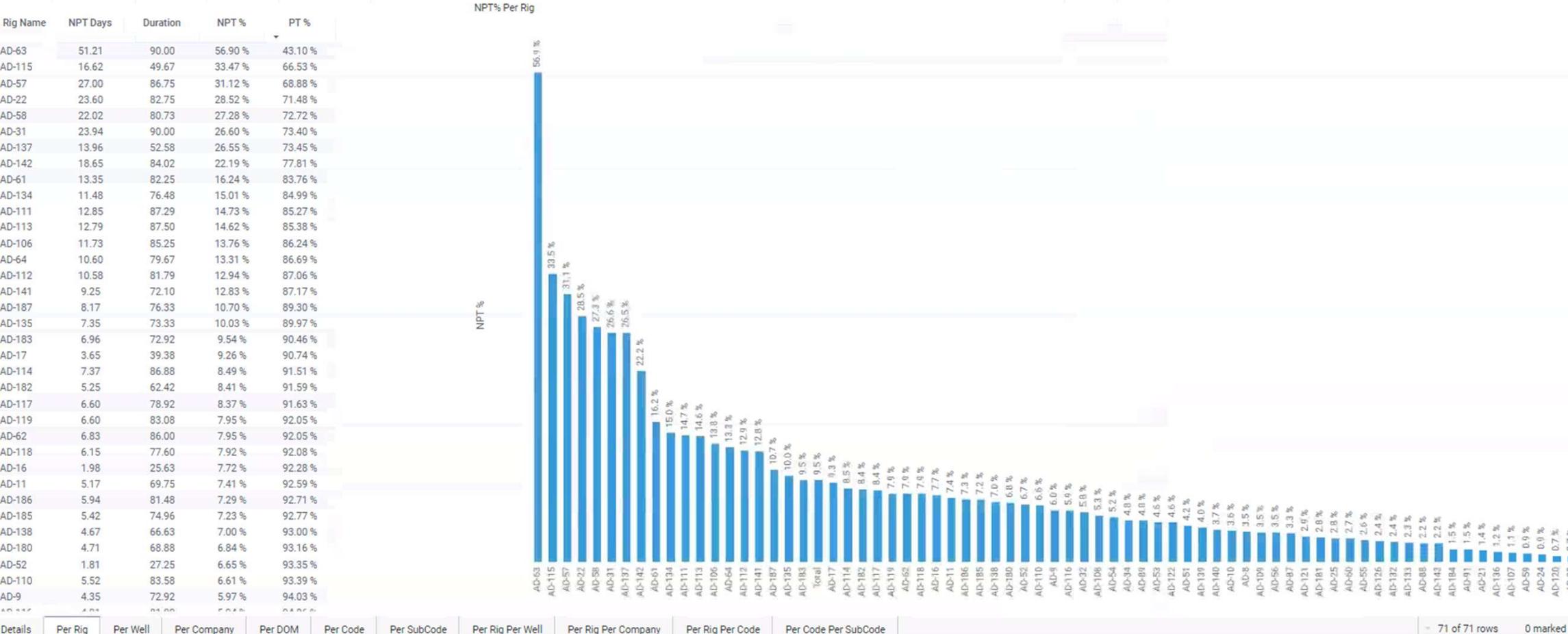
Type to search in list
 (All) 6 values
 ABD
 DDC
 EDC
 MRR
 RDC
 WMR

SLA Compliance

Compliant
 Not Compliant

NPT Completed & Ongoing Wells

Per Rig



From: 01/01/2023 To: 31/03/2023 Frequency: Daily

Filters Type to search filters Data Selection

DOM Type to search in list (All) 6 values ASAB/ASR BAB BUHASA NEB/SAHIL SQM UC

Rig Name Type to search in list (All) 70 values AD-8 AD-9 AD-10 AD-11 AD-16 AD-17

Well Type to search in list (All) 156 values BB-104 BB-1101 BB-1106 BB-1171 BB-124 BB-1549

Company Type to search in list (All) 44 values AD - ADNOC Drilling Addr (Directional ... Adlg - ADNOC Drill... ADNOC Drilling (ID...) ADNOC Drilling N... ADNOC Drilling OFS

NPT Code Type to search in list (All) 21 values Casing CEMENTING COMPLETION

71 of 71 rows 0 marked 8 columns NPT_RIGS_DAILY Pivot

Completed & Ongoing Wells

Performance

From:

To:

Frequency:

Filters

Type to search filters

Data Selection

Type to search in list

(All) 6 values ASAB/ASR BAB BUHASA NEB/SAHIL SQM UC

DOM

Type to search in list

(All) 6 values AD-8 AD-9 AD-10 AD-11 AD-16 AD-17

Rig

Type to search in list

(All) 70 values AD-8 AD-9 AD-10 AD-11 AD-16 AD-17

Well

Type to search in list

(All) 189 values BB-104 BB-1101 BB-1106 BB-1171 BB-124 BB-1289

Event Code

Type to search in list

(All) 7 values ABD DDC EDC EDR MRR RDC

ASR/JV	DOM	Field	Well	Rig	Sequence No	Event Code	BP Scenario	Well Type	Well Code	Cost Type	Budget Ref No	Event Start Date	Spud Date	Release Date	Plan TD	Actual TD	Footage	Cumm. Footage	BP Cost \$MM	EP-1 Cost \$MM	Cumm Actual
JV	SQM	MENDER	MN-014	AD-132	20130003967	WMR	January 2022 Final	Re-Entry	ESP	CPX	FM19386	20/Dec/22	22/Dec/22	03/Jan/23	7,950	7,950	0	0	\$1,868	\$1,400	\$1,48
JV	NEB/SAHIL	Dabbiya	DY-046	AD-106	20200014747	WMR	January 2022 Final	Re-Entry	MPBB	CPX	FM18267	24/Nov/22	26/Nov/22	04/Jan/23	16,162	16,162			\$3,634	\$3,900	\$3,83
JV	BUHASA	BUHASA	BU-543	AD-116	20010000008	RDC	January 2022 Final	Re-Entry	HPSS	CPX	FM18008	25/Nov/22	28/Nov/22	05/Jan/23	12,280	12,285		6,105	\$3,638	\$4,500	\$4,67
JV	BUHASA	BUHASA	BU-1072	AD-53	20080000727	DDC	January 2022 Final	Water Injector	H.I.S	CPX	FM18229	29/Nov/22	29/Nov/22	05/Jan/23	8,912	8,913		7,653	\$14,661	\$4,852	\$4,84
JV	BUHASA	BUHASA	BU-1088	AD-55	19990001023	DDC	January 2022 Final	Water Injector	DI.F	CPX	0	28/Nov/22	05/Dec/22	05/Jan/23	9,957	9,947		9,747	\$3,950	\$4,000	\$3,60
JV	SQM	MENDER	MN-108	AD-136	20130004397	DDC	January 2022 Final	Water Injector	H.I.A	CPX	0	14/Dec/22	17/Dec/22	05/Jan/23	6,076	6,337	1,510	6,132	\$1,280	\$2,300	\$2,63
ASR	ASAB/ASR	HALIBA	XN-086	AD-24	20170101718	EDC	January 2022 Final	Exploration	EXPL	CPX	16853	14/Oct/22	12/Nov/22	07/Jan/23	11,761	11,800		11,596	\$8,400	\$8,141	\$7,74
JV	ASAB/ASR	ASAB	SB-188	AD-88	20010000805	WMR	January 2022 Final	Re-Entry	MIBB	CPX	18266	08/Dec/22	11/Dec/22	07/Jan/23	10,696	10,696			\$1,198	\$1,343	\$1,68
JV	SQM	SHAH	SY-058	AD-90	20010000979	WMR	January 2022 Final	Re-Entry	ESP	CPX	0	27/Dec/22	28/Dec/22	07/Jan/23	8,002	8,002		0	\$0,535	\$0,710	\$676
JV	BAB	BAB	BB-598	AD-89	20140006145	WMR	January 2022 Final	Maintenance	MP..	CPX	0	21/Dec/22	24/Dec/22	08/Jan/23	10,130	10,130		0	\$2,267	\$1,500	\$1,08
JV	ASAB/ASR	ASAB	SB-943	AD-142	20140007564	DDC	January 2022 Final	Producer	HP.B	CPX	FM19403	29/Nov/22	06/Dec/22	10/Jan/23	12,973	12,946	3,499	12,754	\$5,410	\$5,300	\$5,28
ASR	ASAB/ASR	GHANTOUT	XN-044	AD-122	2022015828	ABD	January 2023 Final	P&A	A	CPX	0	01/Dec/22	04/Jan/23	14/Jan/23	0	0			\$0,296	\$2,470	\$2,12
JV	BUHASA	BUHASA	BU-1074	AD-22	20130001605	DDC	January 2022 Final	Water Injector	H.I.S	CPX	FM18008	18/Nov/22	24/Nov/22	15/Jan/23	8,938	8,975		8,762	\$5,708	\$5,500	\$5,01
JV	BAB	BAB	BB-1758	AD-51	19990001173	DDC	January 2022 Final	Water Supply	DW	CPX	FP20381	17/Dec/22	25/Dec/22	15/Jan/23	5,879	5,879	4,334	5,840	\$1,965	\$3,200	\$3,46
JV	ASAB/ASR	ASAB	SB-480	AD-87	20010000470	WMR	January 2023 Final	Re-Entry	MIBB	CPX	0	30/Dec/22	01/Jan/23	15/Jan/23	14,343	14,343	0	0	\$1,148	\$1,137	\$1,07
JV	SQM	SHAH	SY-056	AD-180	20010001091	RDC	January 2022 Final	Re-Entry	HPII	CPX	0	19/Dec/22	25/Dec/22	16/Jan/23	8,099	7,675	3,525	4,824	\$2,593	\$2,920	\$2,79
JV	BUHASA	BUHASA	BU-236	AD-17	20130004892	WMR	January 2023 Final	Re-Entry	MISS	CPX	0	13/Dec/22	01/Jan/23	16/Jan/23	9,345	9,345		0	\$1,533	\$1,400	\$1,90
JV	BUHASA	BUHASA	BU-628	AD-185	20200013906	RDC	January 2022 Final	Re-Entry	HISS	CPX	0	21/Nov/22	04/Dec/22	17/Jan/23	16,238	16,490	3,366	9,390	\$0,520	\$4,620	\$4,54
ASR	ASAB/ASR	AL HAMRAH	HM-001	AD-25	20200014943	WMR	January 2022 Final	Maintenance	RPFF	CPX	0	08/Dec/22	15/Dec/22	17/Jan/23	11,400	11,400		0	\$1,897	\$2,095	\$2,50
JV	SQM	SHAH	SY-115	AD-90	20150009689	WMR	January 2023 Final	Re-Entry	ESP	CPX	0	07/Jan/23	08/Jan/23	18/Jan/23	7,520	7,520	0	0	\$1,309	\$0,710	\$656
JV	ASAB/ASR	ASAB	SB-934	AD-135	20190012821	DDC	January 2022 Final	Producer	H.PA	CPX	PL526	13/Dec/22	14/Dec/22	19/Jan/23	14,160	14,185	7,615	13,992	\$5,166	\$5,166	\$5,40
JV	NEB/SAHIL	SAHIL	SA-050	AD-91	20130003985	WMR	January 2023 Final	P&A	A	CPX	0	31/Dec/22	02/Jan/23	19/Jan/23	8,419	8,419	0	0	\$1,414	\$1,257	\$965
JV	SQM	MENDER	MN-078	AD-132	20080000561	WMR	January 2023 Final	Re-Entry	ESP	CPX	0	03/Jan/23	05/Jan/23	19/Jan/23	6,700	6,700			\$0,705	\$1,400	\$1,62
JV	BAB	BAB	BB-1857	AD-183	19990000696	DDC	January 2022 Final	Producer	H.PH2	CPX	FM23002	22/Oct/22	22/Nov/22	23/Jan/23	16,206	16,346	4,976	16,161	\$5,069	\$7,658	\$8,59
JV	SQM	QUSAHWIRA	QW-162	AD-126	20130004359	DDC	January 2022 Final	WAG Injector	H.X.BM	CPX	FM20208	16/Dec/22	21/Dec/22	23/Jan/23	11,037	11,018	8,831	10,815	\$5,737	\$4,861	\$4,09
JV	ASAB/ASR	ASAB	SB-916	AD-120	20190012873	DDC	January 2022 Final	WAG Injector	H.X.A	CPX	PL526	19/Nov/22	28/Nov/22	24/Jan/23	16,859	16,802		16,608	\$5,945	\$6,229	\$7,17
ASR	ASAB/ASR	GHANTOUT	XN-047	AD-122	2022015829	ABD	January 2023 Final	P&A	A	CPX	0	14/Jan/23	16/Jan/23	25/Jan/23	0				\$0,296	\$1,492	\$1,13
JV	BAB	BAB	BB-1858	AD-140	20150008659	DDC	January 2022 Final	Producer	H.PH2	CPX	FM15461	21/Nov/22	01/Dec/22	26/Jan/23	17,316	17,326	6,409	17,156	\$8,011	\$7,017	\$9,10
JV	BAB	BAB	BB-709	AD-9	20130003479	WMR	January 2022 Final	Re-Entry	ESP	CPX	FM19384	29/Nov/22	03/Dec/22	27/Jan/23	13,375	13,375			\$2,599	\$2,500	\$2,85
JV	BAB	BAB	BB-307	AD-21	20130003475	WMR	January 2022 Final	Re-Entry	MPBB	CPX	18268	13/Dec/22	15/Dec/22	28/Jan/23	8,690	8,690	0	0	\$2,792	\$2,702	\$3,19
JV	BAB	BAB	BB-580	AD-141	20130003438	RDC	January 2022 Final	Re-Entry	HPBB	CPX	FM18244	18/Dec/22	21/Dec/22	28/Jan/23	12,867	12,870	5,895	5,998	\$3,355	\$4,033	\$4,01
JV	BAB	BAB	BB-720	AD-89	20130003275	WMR	January 2023 Final	Re-Entry	MIGG	CPX	0	08/Jan/23	11/Jan/23	28/Jan/23	13,850	13,850	0	0	\$2,043	\$1,888	\$1,22
JV	ASAB/ASR	ASAB	SB-271	AD-56	20210015300	RDC	January 2022 Final	Re-Entry	HPBB	CPX	0	28/Dec/22	31/Dec/22	29/Jan/23	10,768	10,771	4,224	4,224	\$2,414	\$4,217	\$4,04
JV	BAB	BAB	BB-1171	AD-32	20100000187	WMR	January 2023 Final	Maintenance	MP..	CPX	0	26/Dec/22	12/Jan/23	29/Jan/23	16,242	16,242	0	0	\$2,170	\$1,800	\$1,52
JV	BAB	BAB	BB-1867	AD-58	20080000881	DDC	January 2022 Final	Water Injector	HI.ZG...	CPX	FM15K99	16/Nov/22	04/Dec/22	30/Jan/23	17,819	17,822	701	17,652	\$4,807	\$3,865	\$5,05

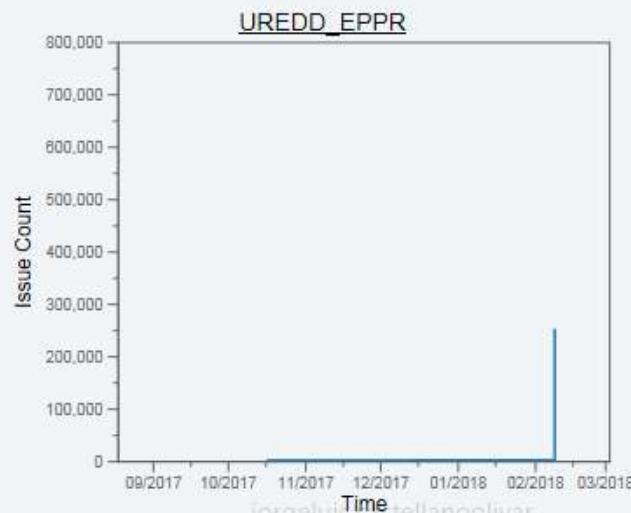
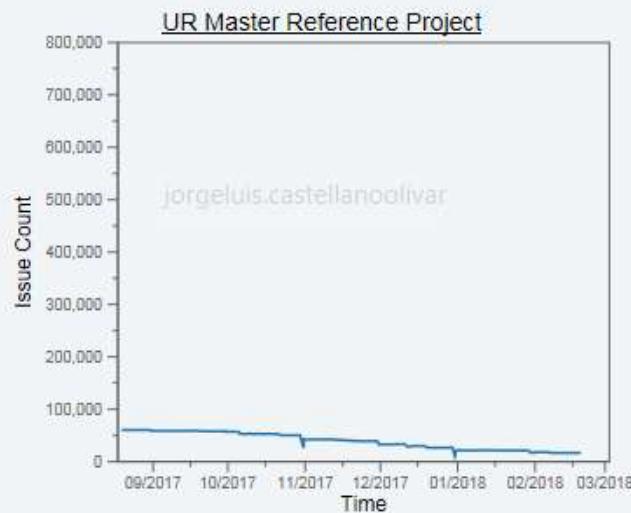
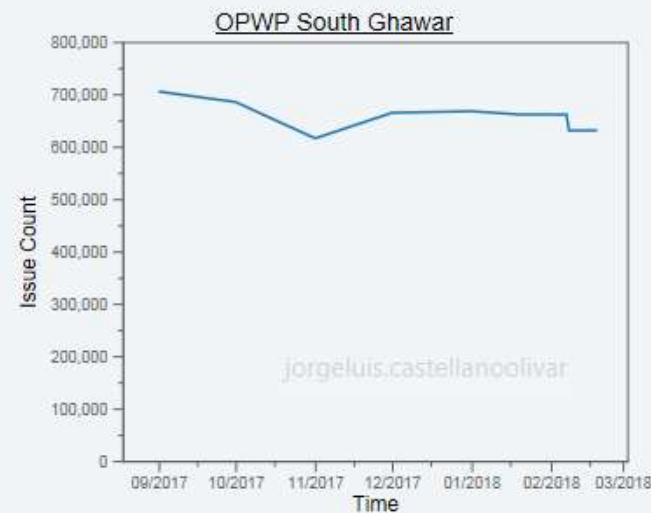
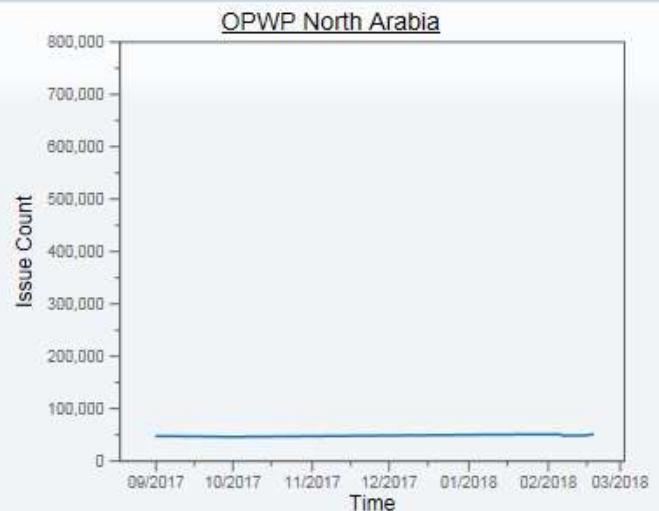
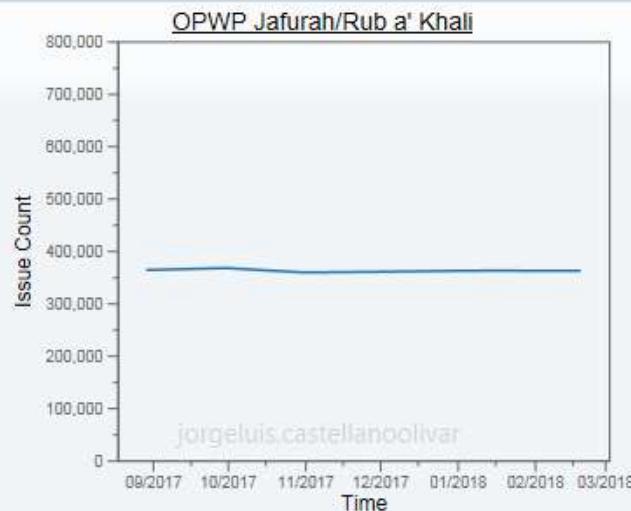
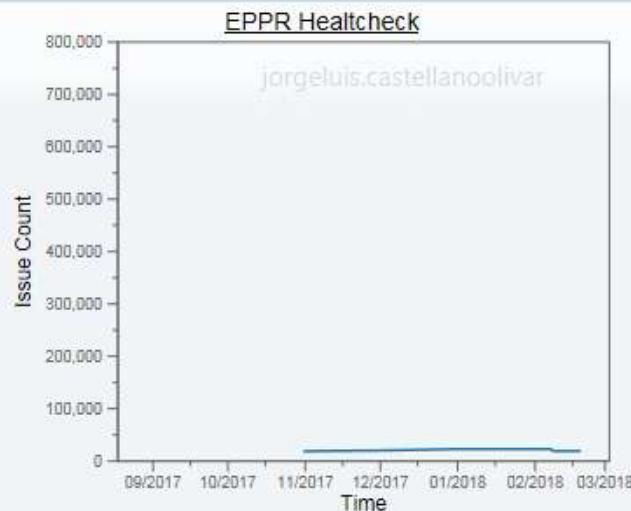
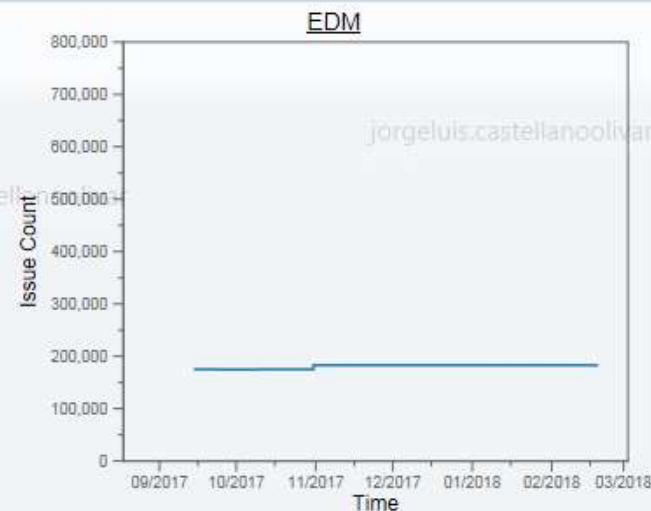
POWERBI DASHBOARDS



DSDQ - IMPLEMENTED HEALTH CHECK DASHBOARDS

Data Quality Trends (All Connections)

jorgeluis.castellanoolivar



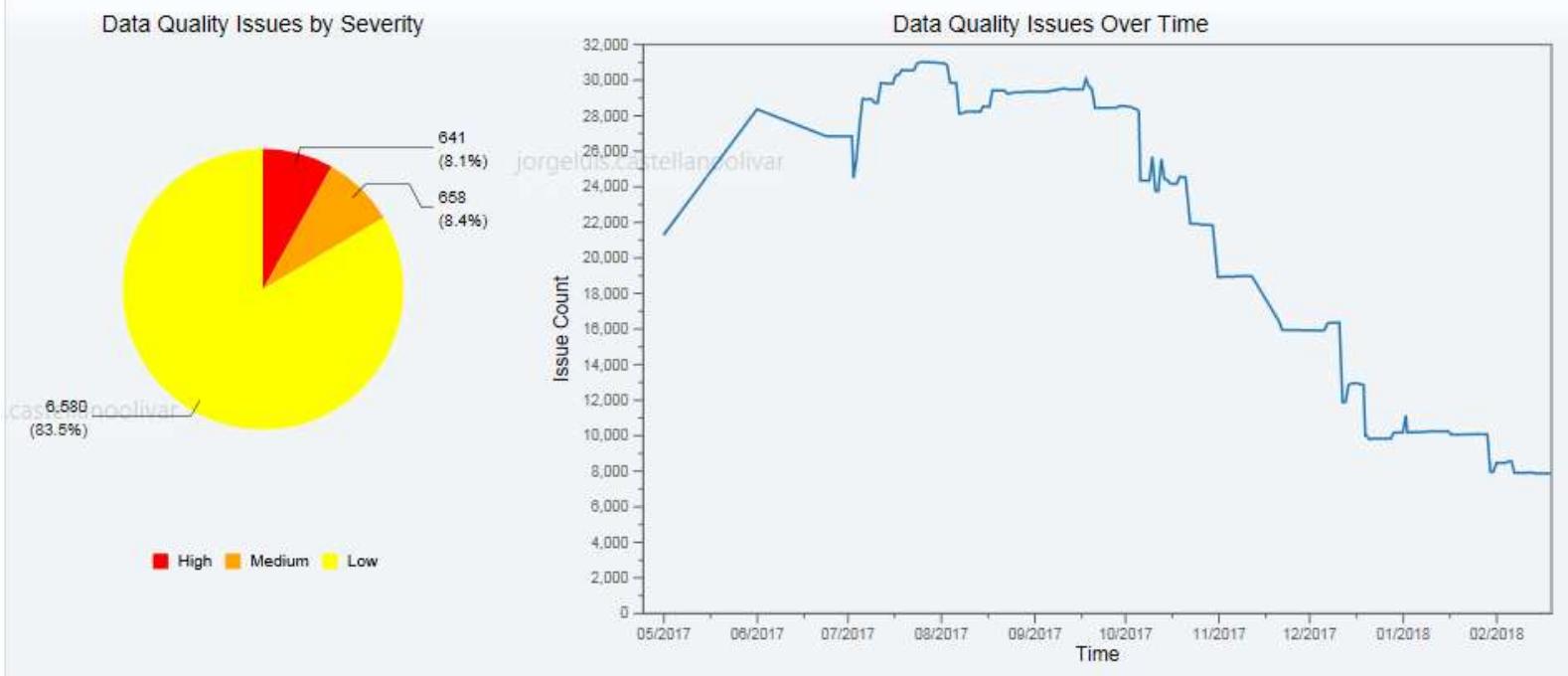
jorgeluis.castellanoolivar

jorgeluis.castellanoolivar

DSDQ – WEB DASHBOARDS

- Data Quality Issues by Severity
- Data Quality Issues Over Time
- Affected Locations

Summary



Affected Locations



DSDQ – LATEST DETAILED HEALTH CHECK RESULTS

- Data Quality Business Rule
- Count of Occurrences
- Percent
- Data Issue Severity

Latest Detailed HealthCheck Results							
	Table Name	Column Name	Rule Remark	Count	Percent	Row Severity	
jorgeluis.castellanoolivar	DirSurvey	data_source	Wells Directional Survey has it's data source set to null	2	0	Low	
jorgeluis.castellanoolivar	DirSurvey	depth	Aramco - Report Directional Surveys where the Max Survey Depth is not the parent Well's Depth	178	44	Medium	
jorgeluis.castellanoolivar	DirSurvey	depth	Directional survey records whose depth values stay constant for a number of readings.	2	0	Low	
jorgeluis.castellanoolivar	DirSurvey	inclination	Directional survey inclinations with values exceeding 180 degrees.	3	0	High	
jorgeluis.castellanoolivar	DirSurvey	inclination	Directional survey inclinations greater than 90 but less than or equal to 180 degrees.	106	26	Low	
jorgeluis.castellanoolivar	DirSurvey	inclination	Directional survey inclinations values are increasing or decreasing more than expected.	3	0	Low	
jorgeluis.castellanoolivar	DirSurvey	survey_date	Survey records that do not have a survey date populated	33	8	Low	
jorgeluis.castellanoolivar	DirSurvey	survey_name	Well Directional Survey Name contains more than one directional survey	14	3	Medium	
jorgeluis.castellanoolivar	DirSurvey	survey_tool	Wells directional survey tool is set to unknown	2	0	Low	
jorgeluis.castellanoolivar	DirSurvey	survey_tool	The directional survey tool is set to null	101	25	Low	
Showing 1 to 10 of 44 entries			jorgeluis.castellanoolivar				



DATA QUALITY ISSUES REPORTS BY EMAIL

Reply Reply All Forward Sun 2/4/2018 6:21 AM jorgeluis.castellanoolivar DecisionSpace Data Quality <jorgeluis.castellanoolivar@aramco.com> To: Castellano Olivar, Jorge Luis If there are problems with how this message is displayed, click here to view it in a web browser.

EPPR HealthCheck

Status: Completed | Start: 6:15 AM | Duration: 00:06:10

EPPR HealthCheck

EPPR HealthCheck | Detailed HealthCheck | Run Detailed HealthCheck

Status: Completed	Data Sets: 1515
Start: 6:15 AM	Duration: 00:06:10
Reports	

- [Detailed HealthCheck Grouped By Table.pdf](#)
- [Detailed HealthCheck Severity Trends.pdf](#)
- [Detailed HealthCheck Severity.wdf](#)
- [Detailed HealthCheck Details for UR_WB PTS_EXTRACT_VW.csv](#)
- [Detailed HealthCheck Details for FISH.csv](#)
- [Detailed HealthCheck Details for PLUG.csv](#)
- [Detailed HealthCheck Details for WB_WLM_VW_VIEW.csv](#)
- [Detailed HealthCheck - KML.kml](#)
- [Detailed HealthCheck Summary.xlsx](#)

Schedule Details

- EPPR_WellHeaders_MasterReference
- Start: 6:15 AM
- Finish: 6:21 AM
- Duration: 00:06:10
- Env: Postgres
- Server: fa656142uw85.aramco.com

Access DSDQ:

- [Launch DSDQ](#)

Get Help:

- [DSDQ Support](#)
- [support@lrc.com](#)
- 1-877-435-7542

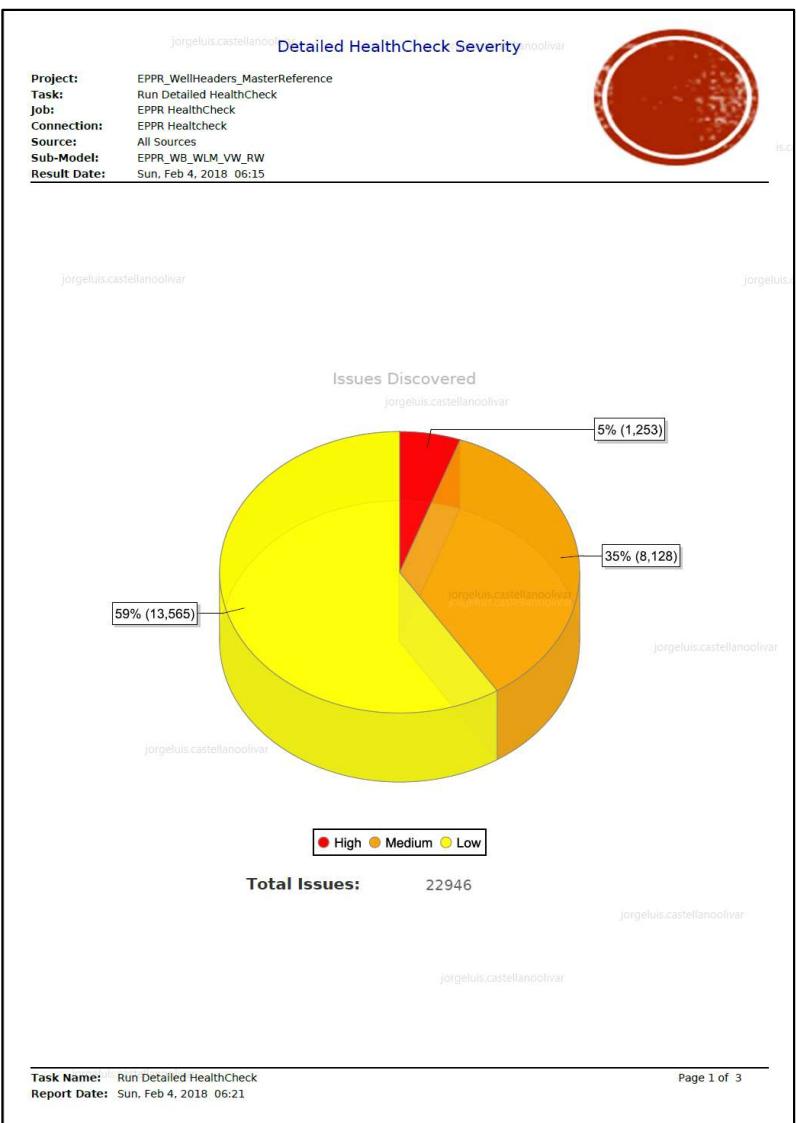
Learn More:

- [DS Data Quality](#)
- [Landmark](#)
- [Halliburton](#)

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Detailed HealthCheck Summary Feb 4, 2018		
C27	X	✓
		W_POST_DRLG_CLSF_CD should not have a value when the W_ORIG_CMPL_DT is NULL
A	B	C
52	0	0 Check the format of the authorisation number, either 12 digits starting with 1 or WB + 6 digits
53	0	0 UNCONV_ORGN_CD should not be NULL for UR wells. It is used to set the W_UNCONV_FLG to Y
54	0	0 Wells that have an operator set to UNKNOWN
55	1138	95 Plug Removal Bottom Depth is NULL
56	1	10 Fish Depth Determination Code is NULL
57	1976	0 Reports Well Directional Survey Stations where the inclination is null
58	1976	0 Reports Well Directional Survey Stations where the azimuth is null
59	394	26 EP_GD_CORD_QLTY_CD should not be equal 9 (preliminary) if W_ORIG_CMPL_DT is not NULL
60	354	23 EP_GD_CORD_QLTY_CD should not be equal 1 (incomplete) if W_SPUD_DT is not NULL
61	64	4 W_OFF_ABND_DT should be NULL when W_OFF_SUSP_DT is not NULL
62	1515	100 Wells with Current Class no matching the UR Aramco Naming Convention (EXPLORATION, APPRAISAL, PILOT, DEVELOPMENT, WATER WELL, SERVICE INJECTOR)
63	894	59 Wells with Bottom Hole Y Coordinate is not populated.
64	894	59 Wells with Bottom Hole X Coordinate is not populated.
65	1343	88 Wells where the well geometry is null
66	894	59 Wells that do not have a spud date populated
67	51	3 W_CUR_STS_should equal 35 when the W_CUR_WTYP_CD like 3__ (Proposed well)
68	498	32 W_CUR_STS_should equal 34 when the W_CUR_WTYP_CD equal P00 (Planned location)
69	21	1 W_CUR_STS_should equal 33 when the W_CUR_WTYP_CD equal 400 (Approved location)
70	4	0 W_CUR_STS_should equal 98 or 82 when the W_CUR_WTYP_CD like 6__ or 8__
71	1515	100 Wells with Current Status no matching the UR Aramco Naming Convention
72	1358	89 Wells that do not have a state date populated
73	14	0 Wells with a state date that is less than well spud date
74	894	59 Wells where the Total Depth is not populated
75	209	13 Wells that do not have a ground level elevation populated
76	5	0 Wells with a ground level elevation that is less than or equal to 0 foot
77	17	1 Wells where the Elevation Type is non-standard
78	573	37 The wells elevation type is null
79	573	37 Wells where the Elevation is null
80	544	35
81	1186	78 Wells that do not have a formation name populated
82	1515	100 Wells where the Borehole Type is not NEW, RE-ENTRY, SIDETRACK
83	25	1 SV_IN_YUTM_CORD should be not be NULL when the SV_YUTM_COORD is not NULL
84	25	1 Wells with Surface Y-Coordinate that is not populated
85	25	1 SV_IN_XUTM_CORD should be not be NULL when the SV_XUTM_COORD is not NULL
86	25	1 Wells with Surface X-Coordinate that is not populated
87	8	0
88	22	1 Wells where the UTM Zone (Universal Transverse Mercator zone) is NULL

DATA QUALITY ISSUES REPORT BY SEVERITY



jorgeluis.castellano@olivar

Detailed HealthCheck Severity

Severity: High

Table Name: WB_WLM_VW_VIEW

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
WB_CUR_RSRV_CD	Null	1186	78	Wells that do not have a formation name populated
W_REF_ELEV_CD	Elevation Type	17	1	Wells where the Elevation Type is non-standard
SV_XUTM_CORD	Wells with null X-Coordinate	25	1	Wells with Surface X-Coordinate that is not populated
SV_YUTM_CORD	Wells with null Surface Y-Coordinate	25	1	Wells with Surface Y-Coordinate that is not populated

Severity: Medium

Table Name: UR_WB PTS_EXTRACT_V

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
DEV_DR_ANG	Null	1976	0	Reports Well Directional Survey Stations where the inclination is null
DEV_TL_AZM	Null	1976	0	Reports Well Directional Survey Stations where the azimuth is null

Table Name: WB_WLM_VW_VIEW

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
WB_CUR_TOT_DEPTH	Wells with Total Depth is null	894	59	Wells where the Total Depth is not populated
WB_TD_YUTM_CORD	Bottom Hole Y Coordinate is null	894	59	Wells with Bottom Hole Y Coordinate is not populated.
WB_TD_XUTM_CORD	Bottom Hole X Coordinate is null	894	59	Wells with Bottom Hole X Coordinate is not populated.
W_REF_ELEV	Wells with null Elevation	573	37	Wells where the Elevation is null
SV_UTM_ZN	Null	22	1	Wells where the UTM Zone (Universal Transverse Mercator zone) is NULL
WB_LTRL_STA_DT	Null	894	59	Wells that do not have a spud date populated
W_REF_ELEV_SURF_ELE	Less or equal to 0 foot	5	0	Wells with a ground level elevation that is less than or equal to 0 foot

Severity: Low

Table Name: FISH

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
W_FSH_DPTH_DET_CD	Fish Depth Determination Code is NULL	1	10	Fish Depth Determination Code is NULL

Table Name: PLUG

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
W_PLG_REMOV_BOT_DP	Plug Removal Bottom Depth is NULL	1138	95	Plug Removal Bottom Depth is NULL

Table Name: WB_WLM_VW_VIEW

Column Name	Requirement Name	Rule Result	Result %	Rule Remark
WB_CUR_PB_DEPTH	Null	903	59	
W_CUR_OP_STS_CD	W_CUR_STS_should equal '98' or '82' when the W_CUR_WTYP_CD like '6__' or '8__'	4	0	W_CUR_STS_should equal '98' or '82' when the W_CUR_WTYP_CD like '6__' or '8__'
W_CUR_OP_STS_CD	Wells with Non UR Aramco Status	1515	100	Wells with Current Status no matching the UR Aramco Naming Convention
W_CUR_OP_STS_DT	Null	1358	89	Wells that do not have a state date populated
W_CUR_OP_STS_DT	Less than spud date	14	0	Wells with a state date that is less than well spud date populated
W_REF_ELEV_CD	Null	209	13	Wells that do not have a ground level elevation populated
W_REF_ELEV_CD	Elevation Type is null	573	37	The wells elevation type is null
W_PRC_DRILL_CLSF_CD	W_POST_DRILL_CLSF_CD should not have a value when the W_ORIG_CMPL_DT	544	35	

Task Name: Run Detailed HealthCheck
Report Date: Sun, Feb 4, 2018 06:21

Page 2 of 3

UR Wells Data types Inventory

EPPR vs MRP vs WP

May 08, 2019

Filters

Well Class

- Select All
- Deeper Pool Test
- Delineation Test (Exploration)
- New Field Wildcat
- New Pool Wildcat
- Shallower Pool Test
- Stratigraphical Test

Asset Team

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Jafurah	<input type="checkbox"/> ABRQ
<input type="checkbox"/> North Arabia	<input type="checkbox"/> ABRZ
<input type="checkbox"/> South Ghawar	<input type="checkbox"/> ADHN

Spudded

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> Yes
<input type="checkbox"/> Yes	<input type="checkbox"/> No

Location Letter

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> (Blank)	<input type="checkbox"/> No
<input type="checkbox"/> FINAL	<input type="checkbox"/> Yes
<input type="checkbox"/> INCOMPLETE	

DSP Match

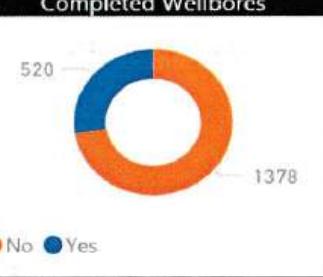
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> Yes
<input type="checkbox"/> Yes	<input type="checkbox"/> No

Picks Match

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

Total UR Wellbores
1898

Spudded Wellbores


Completed Wellbores


Directional Surveys

520	455	498	216	112
EPPR	EPPR	EPPR	EPPR	EPPR
513	453	488	216	112
MRP	MRP	MRP	MRP	MRP
523	453	490	217	112
WP	WP	WP	WP	WP

Picks (AAP)

455	453	498	216	112
EPPR	MRP	EPPR	EPPR	EPPR

Logs

498	488	490	216	103
EPPR	MRP	EPPR	EPPR	EPPR

Core

216	216	217	112
EPPR	MRP	WP	WP

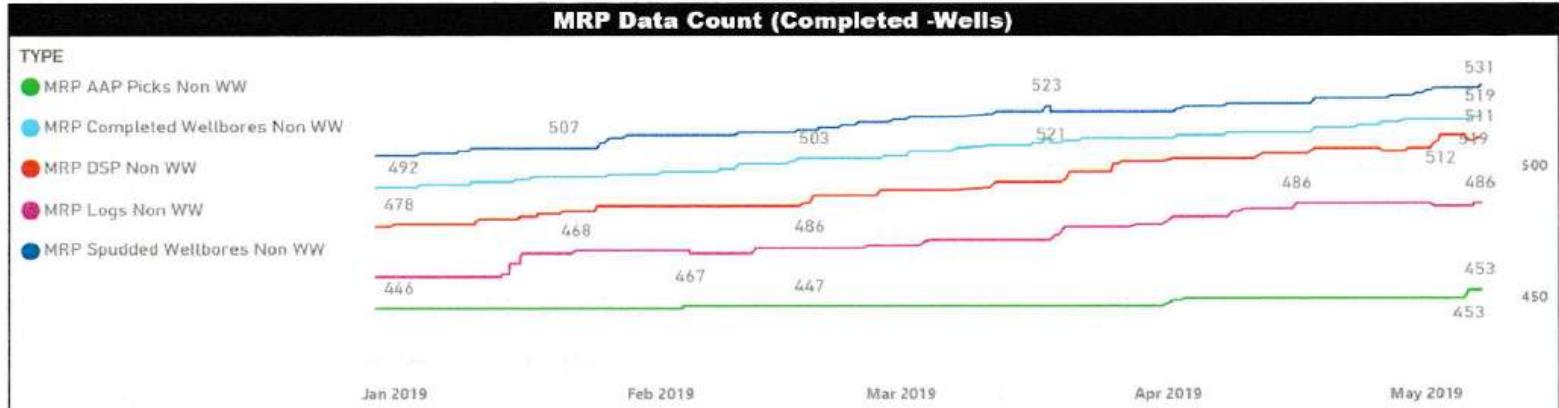
Core SA - Conv

112	112	112
EPPR	MRP	WP

Core SA - SW

103	103	103
EPPR	MRP	WP

MRP Data Count (Completed -Wells)



Jan 2019 Feb 2019 Mar 2019 Apr 2019 May 2019

Data Inventory

Wellbore	Asset Area	Spud Date	Completion Date	DSP@eppr	DSP@mrp	DSP@wp	Picks@eppr	Picks@mrp	Picks@wp	Logs@eppr	Logs@mrp
HMYM-441614_0	Jafurah	01-Apr-19	28-Apr-19	✓	✗	✓	✗	✗	✗	✓	✓
MZLJ-174202_0	South Ghawar	23-Jan-19	25-Apr-19	✓	✓	✓	✓	✗	✗	✓	✓
HZEM-153214_1	Jafurah	28-Feb-19	22-Apr-19	✓	✓	✓	✓	✗	✗	✓	✗
JLMN-61_0	North Arabia	17-Dec-18	16-Apr-19	✓	✓	✓	✓	✓	✓	✓	✓
HMYM-441604_0	Jafurah	21-Feb-19	27-Mar-19	✓	✓	✓	✓	✓	✓	✓	✓
MHWZ-44_0	South Ghawar	16-Jan-19	26-Mar-19	✓	✓	✓	✓	✓	✓	✓	✓
HRML-208_0	South Ghawar	01-Dec-18	25-Mar-19	✓	✓	✓	✓	✓	✓	✓	✓
MHWZ-43_1	South Ghawar	24-Jan-19	21-Mar-19	✓	✓	✓	✓	✓	✓	✓	✓
HMYM-783814_0	Jafurah	09-Feb-19	19-Mar-19	✓	✓	✓	✓	✗	✗	✗	✗
JLMN-68_1	North Arabia	26-Feb-19	09-Mar-19	✓	✓	✓	✓	✓	✓	✓	✓
H7CM-153214_0	Jafurah	24-Jan-19	01-Mar-19	✓	✓	✓	✓	✗	✗	✗	✗

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UR Wells - Wellbore Header Reference Attributes

EPPR vs MRP vs WP

May 08, 2019

Filters

What to Match	Location Letter
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Borehole Type	<input type="checkbox"/> (Blank)
<input type="checkbox"/> Completion Date	<input type="checkbox"/> FINAL
<input type="checkbox"/> Current Class	<input type="checkbox"/> INCOMPLETE
<input type="checkbox"/> Current Status	<input type="checkbox"/> PRELIMINARY
Motherbore	Unconv Well
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> N
<input type="checkbox"/> Yes	<input type="checkbox"/> Y
Asset Team	Field
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Conventional	<input type="checkbox"/> 29/A
<input type="checkbox"/> Jafurah	<input type="checkbox"/> AABD
<input type="checkbox"/> North Arabia	<input type="checkbox"/> AAWR
Spudded	Completed
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Well Class	Well Type
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> (Blank)	<input type="checkbox"/> ABANDONED GAS...
<input type="checkbox"/> DLT	<input type="checkbox"/> ABND DRILLING...
<input type="checkbox"/> DPT	<input type="checkbox"/> ABND EXPLORAT...
<input type="checkbox"/> NFW	<input type="checkbox"/> ABND GAS EXPL...
<input type="checkbox"/> NPW	<input type="checkbox"/> ABND GAS PROD...
<input type="checkbox"/> SGT	<input type="checkbox"/> ABND GAS STRA...
<input type="checkbox"/> SPT	<input type="checkbox"/> ABND WELL

Well Header Matching Attributes - EPPR vs MRP

Well Header Matching Attributes - EPPR vs WP

EPPR vs MRP

EPPR Wellbore Name	EPPR Well Name	Borehole No	EPPR Asset Area	EPPR X UTM	MRP X UTM	X
ABRQ-2_0	ABRQ-2	0	Jafurah	366,187.59	366,187.59	1
ABRZ-100001_0	ABRZ-100001	0	South Ghawar	750,657.89	750,657.89	1
ABRZ-100002_0	ABRZ-100002	0	South Ghawar	750,607.91	750,607.91	1
ABRZ-6_0	ABRZ-6	0	South Ghawar	750,311.02	750,311.02	1
ABRZ-7_0	ABRZ-7	0	South Ghawar	747,173.00	747,173.00	1
ADHN-10_0	ADHN-10	0	South Ghawar	259,876.00	259,876.00	1
ADHN-100001_0	ADHN-100001	0	South Ghawar	259,819.45	259,819.45	1
ADHN-105002_0	ADHN-105002	0	South Ghawar	271,850.33	271,850.33	1
ADHN-2_0	ADHN-2	0	South Ghawar	260,960.00	260,960.00	1
ADHN-3_0	ADHN-3	0	South Ghawar	265,145.02	265,145.02	1
ADHN-6_0	ADHN-6	0	South Ghawar	265,980.30	265,980.30	1
ADHN-7_0	ADHN-7	0	South Ghawar	268,618.10	268,618.10	1
ADHN-8_0	ADHN-8	0	South Ghawar	273,680.90	273,680.90	1
ADHN-9_0	ADHN-9	0	South Ghawar	271,596.20	271,596.20	1
ALND-1_0	ALND-1	0	South Ghawar	295,147.50	295,147.50	1
AWTD-104001_0	AWTD-104001	0	South Ghawar	250,348.30	250,348.30	1
DNAN-332212_0	DNAN-332212	0	Jafurah	405,762.96	405,762.96	1
DNAN-340812_0	DNAN-340812	0	Jafurah	399,958.30	399,958.30	1
DNAN-423602_0	DNAN-423602	0	Jafurah	398,258.94	398,258.94	1
DNAN-423604_0	DNAN-423604	0	Jafurah	398,358.93	398,358.93	1
DNAN-423614_0	DNAN-423614	0	Jafurah	398,308.92	398,308.92	1

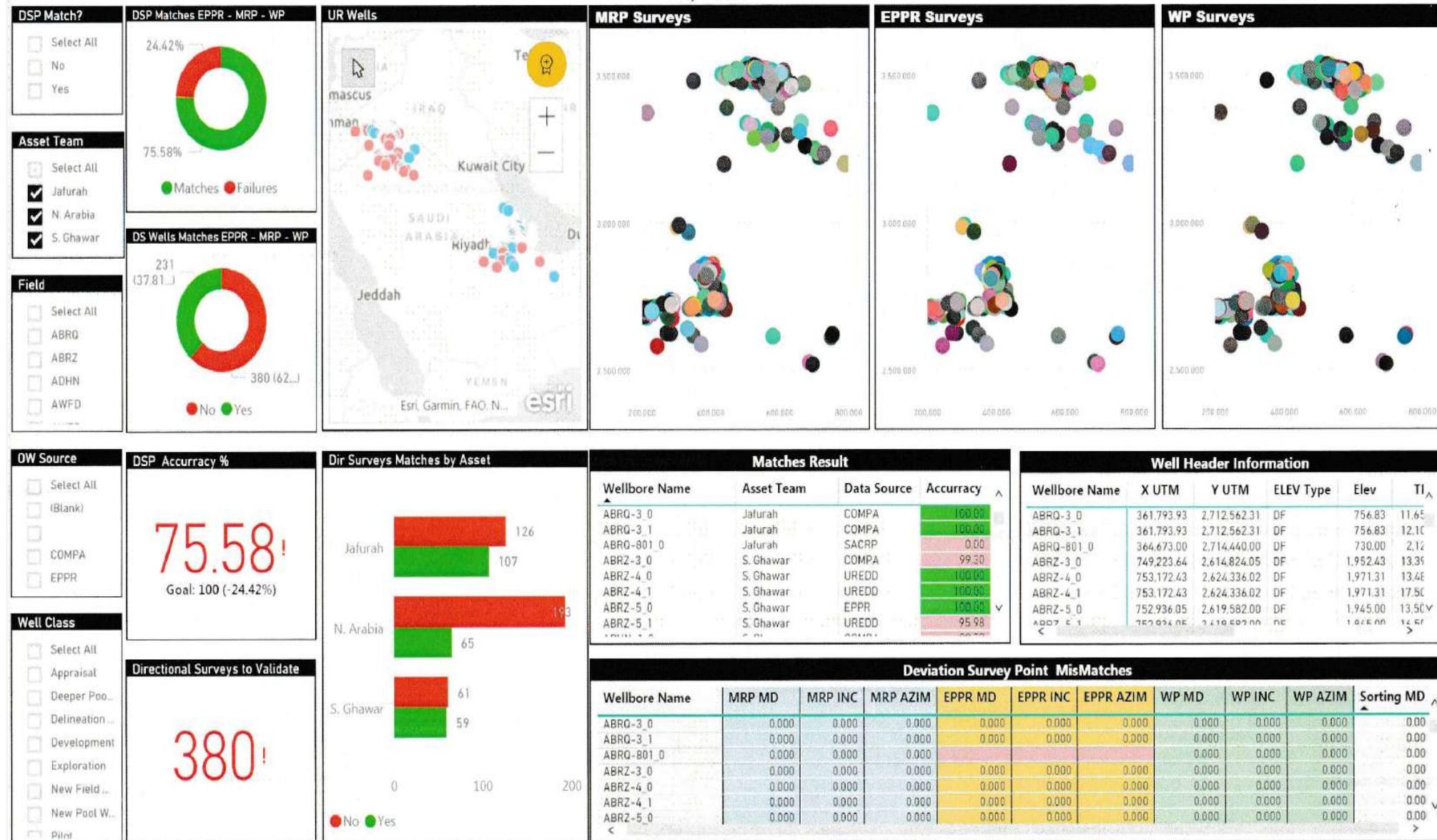
EPPR vs WP

EPPR Wellbore Name	EPPR Asset Area	Well Name	Borehole No	WP Source	Unconv Flag	EPPR
29/A-1_0	Conventional	29/A-1	0	URone	N	28
AABD-1_0	Conventional	AABD-1	0	URone	N	3
AABDWA-435_0	Conventional	AABDWA-435	0	URone	N	-5
ABAL-1_0	Conventional	ABAL-1	0	URone	N	14
ABAL-801_0	Conventional	ABAL-801	0	URone	N	14
ABAL-802_0	Conventional	ABAL-802	0	URone	N	14
ABAS-1_0	Conventional	ABAS-1	0	URone	N	-55
ABDDH-523_0	Conventional	ABDDH-523	0	URone	N	-38
ABDDH-524_0	Conventional	ABDDH-524	0	URone	N	-38
ABDDH-528_0	Conventional	ABDDH-528	0	URone	N	-38
ABDDH-534_0	Conventional	ABDDH-534	0	URone	N	-38
ABDDH-537_0	Conventional	ABDDH-537	0	URone	N	-38
ABDDH-541_0	Conventional	ABDDH-541	0	URone	N	-38
ABDDH-543_0	Conventional	ABDDH-543	0	URone	N	-38
ABDDH-548_0	Conventional	ABDDH-548	0	URone	N	-38
ABDDH-561_0	Conventional	ABDDH-561	0	URone	N	-38
ABDDH-563-A_0	Conventional	ABDDH-563-A	0	URone	N	-38
ABDDH-569_0	Conventional	ABDDH-569	0	URone	N	-38
ABDDH-574_0	Conventional	ABDDH-574	0	URone	N	-38
ABDL-1_0	Conventional	ABDL-1	0	URone	N	61
ABEL7S-9_0	Conventional	ABEL7S-9	0	URone	N	9

AAP Directional Surveys Points Comparison

EPPR vs OpenWorks (MRP & WP's)

May 08, 2019



AAP Directional Surveys Points Comparison

EPPR vs OpenWorks (MRP & WP's)

May 08, 2019

DSP Match?

- Select All
- No
- Yes

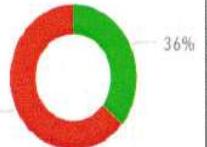
Asset Team

- Select All
- Jafurah
- N. Arabia
- S. Ghawar

Field

- Select All
- ABRQ
- ABRZ
- ADHN
- AWFD

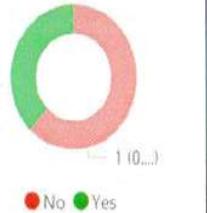
DSP Matches EPPR - MRP - WP



36%
64%

● Matches ● Failures

DS Wells Matches EPPR - MRP - WP



100%
● No ● Yes

UR Wells



Kuwait City, Dubai, Riyadh

MRP Surveys



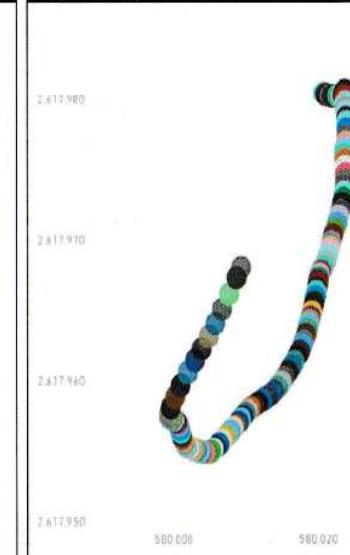
2617980
2617970
2617960
2617950
580.000 580.020

EPPR Surveys



2617980
2617970
2617960
2617950
580.000 580.020

WP Surveys



2617980
2617970
2617960
2617950
580.000 580.020

OW Source

- Select All
- (Blank)
- COMPA
- EPPR

DSP Accuracy %

36.00!
Goal: 100 (-64%)

Well Class

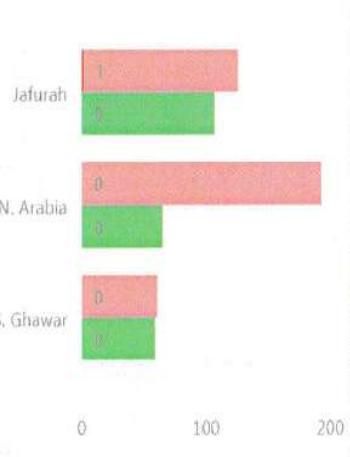
- Select All
- Appraisal
- Deeper Poo...
- Delineation...
- Development
- Exploration
- New Field...
- New Pool W...
- Pilot

Directional Surveys to Validate

1 ✓

● No ● Yes

Dir Surveys Matches by Asset



Asset Team	Matches
Jafurah	100
N. Arabia	100
S. Ghawar	100

Matches Result

Wellbore Name	Asset Team	Data Source	Accuracy
JNBH-1_0	Jafurah	JRK	36.00

Well Header Information

Wellbore Name	X UTM	Y UTM	ELEV	Type	Elev	TD
JNBH-1_0	580.020.86	2,617,980.36	DF	109.26	12,670.00	

Deviation Survey Point MisMatches

Wellbore Name	MRP MD	MRP INC	MRP AZIM	EPPR MD	EPPR INC	EPPR AZIM	WP MD	WP INC	WP AZIM	Sorting MD
JNBH-1_0	105.000	0.420	104.590	105.000	0.420	104.590	105.000	0.420	104.590	105.00
JNBH-1_0	196.000	0.440	103.120							196.00
JNBH-1_0				197.000	0.440	103.120	197.000	0.440	103.120	197.00
JNBH-1_0	287.000	0.560	96.450							287.00
JNBH-1_0	378.000	0.530	95.240	378.000	0.530	95.240	378.000	0.530	95.240	378.00
JNBH-1_0	468.000	0.520	92.220	468.000	0.520	92.220	468.000	0.520	92.220	468.00

UR Wells - EPPR Surveys Timeliness (AAP) TD Reach Date vs EPPR Last Modified Date

May 08, 2019

Filters

Well Class

- Select All
- Deeper Pool Test
- Delineation Test (Exploration)
- New Field Wildcat
- New Pool Wildcat
- Shallower Pool Test
- Stratigraphical Test
- Unconventional Resources Appraisal

Asset Team

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Jafurah	<input type="checkbox"/> ABRQ
<input type="checkbox"/> North Arabia	<input type="checkbox"/> ABRZ
<input type="checkbox"/> South Ghawar	<input type="checkbox"/> ADHN

Service Company

- Select All
- ANADRILL SCHLUMBERGER
- BAKER HUGHES
- BAKER OIL TOOLS

Completed

<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> (Blank)
<input type="checkbox"/> Yes	<input type="checkbox"/> 2006

DS Source

<input type="checkbox"/> Select All	<input type="checkbox"/> 2009
<input type="checkbox"/> RIG	<input type="checkbox"/> 2010
<input type="checkbox"/> SVC	<input type="checkbox"/> 2011

APP Surveys loaded within 3 Days

No	466 (88.93%)
Yes	12 (21.07%)

APP Surveys loaded within 3 Days

Jafurah	171
North Arabia	179
South Ghawar	104
No	6
Yes	40

APP Surveys loaded within 3 days by Year

2006	27
2007	1
2008	1
2009	1
2010	7
2011	12
2012	20
2013	33
2014	53
2015	64
2016	71
2017	76
2018	83
2019	16

Days to be loaded @EPPR (Avg)

323.59!

Goal: 3

Days taken to load AAP Survey in EPPR

HRML-54_0	4800
HRML-54_1	100
JLMD-62_0	100
THRA-1_0	100
HZEM-1_0	100
UMWL-2_0	100
UMWL-2_1	100
HZEM-2_0	100
JLMN-55_0	100
JLMD-63_0	100
JLMD-63_1	100
JLMN-55_1	100
UMWL-58_0	100
UMWL-58_1	100
UMWL-58_2	100
UMWL-59_0	100
JLMN-61_1	100
ST-52_1	100
UMWL-57_0	100
ST-133_0	100
UMWL-60_0	100
JLMN-62_1	100
HZEM-5_1	100
QDSD-4_1	100
HZEM-6_0	100
HZEM-6_2	100
HZEM-4_0	100
HZEM-7_1	100
HZEM-18_0	100
HZEM-3_2	100
HZEM-18_1	100
QDSD-7_0	100
QDSD-7_1	100

AAP Directional Surveys

Asset Area	Wellbore Name	TD	Spud Date	Completion Date	Survey Report Date	TD Reach Date	Last Modified Date	Days 2B Loaded@EPPR	DS Source	Service Company
South Ghawar	HRML-54_0	16,139	14-Mar-06	27-Jul-06	27-Jul-06	06-Jul-06	12-Jun-18	4359	SVC	SCHLUMBERGER
South Ghawar	HRML-54_1	18,080	02-Nov-09	28-Mar-10	28-Mar-10	19-Feb-10	12-Jun-18	3035	SVC	SCHLUMBERGER
North Arabia	JLMD-62_0	11,605	14-Mar-12	27-Jun-12	30-May-12	12-May-12	22-Jan-19	2446	SVC	GYRODATA COMPANY & DRLG. BIT
Jafurah	THRA-1_0	10,410	22-May-12	29-Aug-12	30-Aug-12	20-Aug-12	25-Feb-19	2380	SVC	SCIENTIFIC DRILLING
Jafurah	HZEM-1_0	11,250	02-Jun-07	22-Sep-07	22-Sep-07	15-Aug-07	05-Nov-13	2274	SVC	GYRODATA COMPANY & DRLG. BIT
North Arabia	UMWL-2_0	9,220	14-Jan-12	28-Feb-12	28-Feb-12	20-Feb-12	18-Mar-18	2218	SVC	UNKNOWN
North Arabia	UMWL-2_1	12,850	28-Feb-12	23-May-12	23-May-12	10-May-12	18-Mar-18	2138	SVC	SCIENTIFIC DRILLING
Jafurah	HZEM-2_0	11,000	13-Nov-12	07-Feb-13	07-Feb-13	09-Jan-13	07-Oct-18	2097	SVC	GYRODATA COMPANY & DRLG. BIT
North Arabia	JLMN-55_0	9,148	01-Jun-13	01-Jul-13	01-Jul-13	01-Jul-13	22-Jan-19	2031	SVC	SCHLUMBERGER
North Arabia	JLMD-63_0	12,000	17-May-13	04-Jul-13	03-Jul-13	03-Jul-13	22-Jan-19	2029	SVC	SCIENTIFIC DRILLING
North Arabia	JLMD-63_1	11,650	05-Jul-13	09-Aug-13	23-Jul-13	15-Jul-13	22-Jan-19	2017	SVC	SCHLUMBERGER
North Arabia	JLMN-55_1	13,300	01-Jul-13	21-Sep-13	06-Aug-13	03-Aug-13	22-Jan-19	1998	SVC	SCHLUMBERGER

UR Wells - Log Curve Header Comparison MRP vs Working projects

All Logs from MRP matching Logs in WP
(UREDD Interpreter + Log Name + Service
name as the linking field)

May 08, 2019

LogCurve Matches?

- Select All
- No
- Yes

Asset Team

- Select All
- Jafurah
- N Arabia
- S. Ghawar

Field

- Select All
- ABRQ
- ABRZ
- ADHN
- ALND
- AWFD

Well Class

- Select All
- Deeper Pool Test
- Delineation Test (Ex...)
- New Field Wildcat
- New Pool Wildcat
- Shallower Pool Test

Service Name

- Select All
- (Blank)
- MUDLOG_DRILLING
- MUDLOG_GAS
- MUDLOG_LITHOLOGY

Log Curves Matches

Wells Matching Log Curves

Log Curves Matches/Failures by Asset Team

Asset Team	Count
N Arabia	310
Jafurah	180
S. Ghawar	108

Log Curves Matches/Failures by Asset Team

Asset Team	Count
N Arabia	29,227
Jafurah	13,668
S. Ghawar	12,940

Log Curve Matching Accuracy by Well

Wellbore	Asset Team	# of Log Curves	# of Matching	# of Failures	Kickoff Point	TD	Accuracy %
ABRQ-3_0	Jafurah	126	126	0	0	11,651	100
ABRQ-3_1	Jafurah	111	111	0	9,700	12,100	100
ABRZ-3_0	S. Ghawar	131	131	0	0	13,391	100
ABRZ-4_0	S. Ghawar	117	117	0	0	13,481	100
ABRZ-4_1	S. Ghawar	117	117	0	11,748	17,500	100
ABRZ-5_0	S. Ghawar	153	153	0	0	13,505	100
ABRZ-5_1	S. Ghawar	149	149	0	11,974	16,500	100
ABRZ-5_2	S. Ghawar	122	122	0	0	15,504	100

Log Curve Mismatching Details

Wellbore	Asset Team	LogCurve Name	MRP Interp	WP Interp	MRP Service	WP Service	MRP Run No	WP Run No	MRP Version
HMYM-2_0	Jafurah	FLWOUT	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	FLWPMPS	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	ROP	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	RPM	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	SPM1	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	SPM2	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	SPM3	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	SPP	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	TORQUE	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1
HMYM-2_0	Jafurah	TORQUE MAX	UREDD	UREDD	DRILLING PARAMETE...	DRILLING PARAMETE...	1	1	1

Missing Log Curve Services

Category	MUDLOG_DRILLING	MUDLOG_GAS	MUDLOG_LITHOLOGY	WIRELINE
MRP	4	4	4	2
UR_MASTER_LCC	4	4	4	2
WAED_SOC	1	—	—	—

Wells with Missing Log Curve Services

Wellbore Name	Source Project	Asset Team	Missing Log Serv	Elev Type
HMYM-441604_0	MRP	Jafurah	MUDLOG_DRILLING	DF
HMYM-441604_0	MRP	Jafurah	MUDLOG_GAS	DF
HMYM-441604_0	MRP	Jafurah	MUDLOG_LITHOLOGY	DF
HMYM-441604_0	MRP	Jafurah	WIRELINE	DF
HMYM-441604_0	UR_MASTER_LCC	Jafurah	MUDLOG_DRILLING	DF
HMYM-441604_0	UR_MASTER_LCC	Jafurah	MUDLOG_GAS	DF
HMYM-441604_0	UR_MASTER_LCC	Jafurah	MUDLOG_LITHOLOGY	DF
HMYM-441604_0	UR_MASTER_LCC	Jafurah	WIRELINE	DF
HMYM-441614_0	MRP	Jafurah	MUDLOG_DRILLING	DF
HMYM-441614_0	MRP	Jafurah	MUDLOG_GAS	DF
HMYM-441614_0	MRP	Jafurah	MUDLOG_LITHOLOGY	DF
HMYM-441614_0	MRP	Jafurah	WIRELINE	DF
HMYM-441614_0	UR_MASTER_LCC	Jafurah	MUDLOG_DRILLING	DF
HMYM-441614_0	UR_MASTER_LCC	Jafurah	MUDLOG_GAS	DF

UR Wells - Logs Inventory

Rocks/DSS/MRP/LogDB

Filters				Rocks Logs			Rocks Mud Logs			DSS Logs			DSS Mud Logs				
				Wellbore	Asset Area	Spud Date	Wellbore	Asset Area	Description	Wellbore	Asset Area	Tool Name	Wellbore	EPPR Asset Area	Tool Name		
Asset Team				ABRZ-5_0	South Ghawar	28-Mar-17	ABRZ-5_0	South Ghawar	ML	ABRQ-3_0	Jafurah	RUN1_ED	ABRQ-3_0	Jafurah	MUDLOG_DRILLING		
<input type="checkbox"/> Select All				ABRZ-5_0	South Ghawar	28-Mar-17	ABRZ-6_0	South Ghawar	ML	ABRQ-3_0	Jafurah	RUN1_ED_DM	ABRQ-3_0	Jafurah	MUDLOG_GAS		
<input type="checkbox"/> Jafurah				ABRZ-5_0	South Ghawar	28-Mar-17	ADHN-105002_0	South Ghawar	ML	ABRQ-3_0	Jafurah	RUN1_RAW	ABRQ-3_1	Jafurah	MUDLOG_LITHOLOG		
<input type="checkbox"/> North Arabia				ABRZ-5_0	South Ghawar	28-Mar-17	ADHN-105004_0	South Ghawar	ML	ABRQ-3_0	Jafurah	RUN1_ED_DM_COR	ABRQ-3_1	Jafurah	MUDLOG_DRILLING		
<input type="checkbox"/> South Ghawar				ABRZ-5_0	South Ghawar	28-Mar-17	ADHN-4_0	South Ghawar	ML	ABRQ-3_0	Jafurah	GR_CCL_10758_939	ABRQ-3_1	Jafurah	MUDLOG_GAS		
				ABRZ-5_0	South Ghawar	28-Mar-17	AWTD-108001_0	South Ghawar	ML	ABRQ-3_0	Jafurah	GR_CCL_10730_108	ABRQ-3_1	Jafurah	MUDLOG_LITHOLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	DNAN-482012_0	Jafurah	ML	ABRQ-3_0	Jafurah	GR_CCL_DPU	ABRZ-3_0	South Ghawar	MUDLOG_DRILLING		
				ABRZ-5_0	South Ghawar	28-Mar-17	DNAN-482012_0	Jafurah	ML	ABRQ-3_0	Jafurah	GR_CCL_DPU	ABRZ-3_0	South Ghawar	MUDLOG_GAS		
				ABRZ-5_0	South Ghawar	28-Mar-17	DNAN-541212_0	Jafurah	ML	ABRQ-3_0	Jafurah	SGR_ROP	ABRZ-3_0	South Ghawar	MUDLOG_INTERPRE		
				ABRZ-5_0	South Ghawar	28-Mar-17	FRUQ-3_0	Jafurah	ML	ABRQ-3_0	Jafurah	XRM1_STATIC_DYNA	ABRZ-3_0	South Ghawar	MUDLOG_LITHOLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	FRUQ-3_0	Jafurah	ML	ABRQ-3_0	Jafurah	GR	ABRZ-4_0	South Ghawar	MUDLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	FRUQ-3_0	Jafurah	ML	ABRQ-3_0	Jafurah	ACRT_MSFL_ICW	ABRZ-4_0	South Ghawar	MUDLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	HMYM-342412_0	Jafurah	ML	ABRQ-3_0	Jafurah	CSNG_GEM_DSDL_D	ABRZ-4_1	South Ghawar	MUDLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	HMYM-461412_0	Jafurah	ML	ABRQ-3_0	Jafurah	CSNG_GEM_DSDL_D	ABRZ-4_1	South Ghawar	MUDLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	HMYM-641414_0	Jafurah	ML	ABRQ-3_0	Jafurah	CSNG_GEM_DSDL_D	ABRZ-4_1	South Ghawar	MUDLOG		
				ABRZ-5_0	South Ghawar	28-Mar-17	HMYM-641414_0	Jafurah	ML	ABRQ-3_0	Jafurah	XRMI	ABRZ-5_0	South Ghawar	MUDLOG		
				ABRZ-6_0	South Ghawar		HMYM-B_0	Jafurah	ML	ABRQ-3_0	Jafurah	XRMI	ABRZ-5_0	South Ghawar	MUDLOG		
				ABRZ-6_0	South Ghawar		HRML-206_0	South Ghawar	ML	ABRQ-3_0	Jafurah	WAVE_ANISOTROPY	ABRZ-5_0	South Ghawar	MUDLOG		
				ABRZ-6_0	South Ghawar		HRML-207_0	South Ghawar	ML	ABRQ-3_0	Jafurah	ACRT_MSFL_ICW	ABRZ-5_1	South Ghawar	MUDLOG		
				<		>	<		>	<		>	<		>		
				MRP Logs			MRP Mud Logs			LogDB Logs							
				Wellbore	Asset Area	Log Name	Wellbore	Asset Area	Log Name	Wellbore	Asset Area	Log Name	Top	Bottom	Unit	Format	
				ABRQ-3_0	Jafurah	CALI	ABRQ-3_0	Jafurah	BH	ADHN-1_0	South Ghawar	ABFR	1,722,450.00	1,811,100.00	0.1 in	DLIS	AIM/ECS/ECC-B/PPC1/EC
				ABRQ-3_0	Jafurah	CGR	ABRQ-3_0	Jafurah	BH_BUNTING	ADHN-1_0	South Ghawar	ABFR	1,733,550.00	1,815,900.00	0.1 in	DLIS	AIM/ECS/ECC-B/PPC1/EC
				ABRQ-3_0	Jafurah	DRHO	ABRQ-3_0	Jafurah	BS	ADHN-1_0	South Ghawar	ABFR	1,778,310.00	1,870,680.00	0.1 in	DLIS	AIM/PPC1/MAXS/MAPC/E
				ABRQ-3_0	Jafurah	DTCO	ABRQ-3_0	Jafurah	CH	ADHN-1_0	South Ghawar	ABFR	1,276,410.00	1,744,740.00	0.1 in	DLIS	AIM/PPC1/MAXS/MAPC/P
				ABRQ-3_0	Jafurah	DTSM	ABRQ-3_0	Jafurah	CUT_FLUO	ADHN-1_0	South Ghawar	ABFR	1,326,900.00	1,372,140.00	0.1 in	DLIS	AIM/PPC1/MAXS/MAPC/P
				ABRQ-3_0	Jafurah	FLWOUT	ABRQ-3_0	Jafurah	DEPTH_ORIG	ADHN-1_0	South Ghawar	ABFR	24,360.00	1,290,240.00	0.1 in	DLIS	AIM/PPC2/MAXS/MAPC/P
				ABRQ-3_0	Jafurah	FLWPMPS	ABRQ-3_0	Jafurah	DEXP	ADHN-1_0	South Ghawar	ABFR	599,340.00	669,960.54	0.1 in	DLIS	AIM/PPC2/MAXS/MAPC/P
				ABRQ-3_0	Jafurah	GR	ABRQ-3_0	Jafurah	DIR_FLUO	ADHN-1_0	South Ghawar	ABFR	1,776,450.00	1,870,920.00	0.1 in	DLIS	HILTHD/HNGC-B/HNGS-B
				ABRQ-3_0	Jafurah	ILD	ABRQ-3_0	Jafurah	DXC	ADHN-1_0	South Ghawar	ABFR	1,308,000.00	1,745,100.00	0.1 in	DLIS	HILTHD/HNGC-B/HNGS-B
				ABRQ-3_0	Jafurah	ILM	ABRQ-3_0	Jafurah	FLAG_C1C2	ADHN-1_0	South Ghawar	ABFR	587,700.00	1,323,900.00	0.1 in	DLIS	HILTHD/HNGC-B/HNGS-B
				ABRQ-3_0	Jafurah	ILS	ABRQ-3_0	Jafurah	FLAG_PIXLER	ADHN-1_0	South Ghawar	ABFR	598,620.00	635,940.50	0.1 in	DLIS	HILTHD/HNGC-B/HNGS-B
				ABRQ-3_0	Jafurah	MSFL	ABRQ-3_0	Jafurah	FLWOUT	ADHN-1_0	South Ghawar	ABFR	1,722,450.00	1,816,200.00	0.1 in	DLIS	LDS/LDSC-B/HILTHD/HNG
				ABRQ-3_0	Jafurah	NPHI	ABRQ-3_0	Jafurah	FLWPMPS	ADHN-1_0	South Ghawar	ABFR	1,733,670.00	1,816,200.00	0.1 in	DLIS	LDS/LDSC-B/HILTHD/HNG
				ABRQ-3_0	Jafurah	PEF	ABRQ-3_0	Jafurah	GAS SG	ADHN-1_0	South Ghawar	ABS	1,722,420.00	1,811,100.00	0.1 in	DLIS	AIM/ECS/ECC-B/PPC1/EC
				ABRQ-3_0	Jafurah	POTA	ABRQ-3_0	Jafurah	H2S	ADHN-1_0	South Ghawar	ABS	1,733,520.00	1,815,900.00	0.1 in	DLIS	AIM/ECS/ECC-B/PPC1/EC
				<		>	<		>	<		>	<		>		

UR Wells - DSS Logs Timeliness

Log Date vs Create Date

Filters

Asset Team	Field
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Jafurah	<input type="checkbox"/> ABRQ
<input type="checkbox"/> North Arabia	<input type="checkbox"/> ABRZ
<input type="checkbox"/> South Ghawar	<input type="checkbox"/> ADHN

Wellbore Name	Operation Category
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> ABRQ-2_0	<input type="checkbox"/> CASE HOLE
<input type="checkbox"/> ABRQ-3_0	<input type="checkbox"/> CASING INSPECTIO...
<input type="checkbox"/> ABRQ-3_1	<input type="checkbox"/> CSGINSPT
<input type="checkbox"/> ABRQ-801_0	<input type="checkbox"/> DIPMETER & IMAGE
<input type="checkbox"/> ABRZ-100001_0	<input type="checkbox"/> FTS
<input type="checkbox"/> ABRZ-100002_0	<input type="checkbox"/> LOG EDIT
<input type="checkbox"/> ABRZ-3_0	<input type="checkbox"/> LOGEDIT
<input type="checkbox"/> ABRZ-4_0	<input type="checkbox"/> LWD

Spudded	Completed
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

Service Company	Log Date
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> (Blank)	<input type="checkbox"/> 2007
<input type="checkbox"/> ANADRILL SCHLU...	<input type="checkbox"/> 2008
<input type="checkbox"/> BAKER ATLAS	<input type="checkbox"/> 2009
<input type="checkbox"/> BKR HUGHES DIR...	<input type="checkbox"/> 2010
<input type="checkbox"/> HALLIBURTON	<input type="checkbox"/> 2011
<input type="checkbox"/> PATHFINDER COM...	<input type="checkbox"/> 2012
<input type="checkbox"/> SAUDI ARAMCO	<input type="checkbox"/> 2013
<input type="checkbox"/> SCHLUMBERGER	<input type="checkbox"/> 2014

of Wells with Logs Loaded in 10...

207 (34.39%)
395 (65.61%)

No Yes

of Wells with Logs loaded in 10 Days per ...

Field	Count
Jafurah	113
North Arabia	206
South Ghawar	76

No Yes

Service Logs loaded to DSS within 10 days by Year

Is within 10 Days ● No ● Yes

Year	Count
2010	214
2011	269
2012	111
2013	899
2014	922
2015	1615
2016	1633
2017	978
2018	882
2019	393

Service Logs: DSS Loading Days Avg

27.05!

Goal: 10

of Service Logs loaded @DSS in 10 days

7410 (43.55%)
9603 (56.45%)

No Yes

Days taken to load Logs in DSS per Well

Wellbore Name	Days
H2EM-1_0	1
THYR-3C1_0	1
CHAN-1B03	1
H2EM-19_0	1
HSYM-32U	1
ST-51-E_0	1
HEEM-106	1
HEEM-6_0	1
HLG-3401_0	1
STYWW-1E_0	1
HEEM-106	1
H2EM-108	1
STYWW-11_0	1
STYWW-12_0	1
JLMH-35_0	1
HEEM-104	1
STYWW-13_0	1
HLG-34_0	1
STYWW-10_0	1
ST-51-C_1	1
HEEM-6_A	1
SNCI-1_0	1
JLMH-21_0	1

DSS Logs

Wellbore Name	EPPR Asset Area	Operation Category	Log Date	Create Date	Days 2B Loaded in DSS	Service Company	Start Depth	Stop Depth	Run #	Hole Size	Total
ABRQ-3_0	Jafurah	LOG EDIT	02-Dec-15	13-Dec-15	11	HALLIBURTON	100.00	11,650.50	1	8 3/8	RUN1_ED
ABRQ-3_0	Jafurah	LOG EDIT	02-Dec-15	13-Dec-15	11	HALLIBURTON	100.00	11,650.50	1	8 3/8	RUN1_ED_DM
ABRQ-3_0	Jafurah	LOG EDIT	02-Dec-15	13-Dec-15	11	HALLIBURTON	100.00	11,650.50	1	8 3/8	RUN1_RAW
ABRQ-3_0	Jafurah	LOG EDIT	02-Dec-15	13-Dec-15	11	HALLIBURTON	8,850.00	11,601.50	1	8 3/8	RUN1_ED_DM_CI
ABRQ-3_0	Jafurah	MECHANICAL	05-Jan-16	11-Jan-16	6	HALLIBURTON	9,396.50	10,758.00	8 3/8		GR_CCL_10758
ABRQ-3_0	Jafurah	MECHANICAL	05-Jan-16	11-Jan-16	6	HALLIBURTON	10,730.00	10,850.00	8 3/8		GR_CCL_10730
ABRQ-3_0	Jafurah	MECHANICAL	05-Jan-16	11-Jan-16	6	HALLIBURTON	10,830.00	11,165.75	8 3/8		GR_CCL_11165
ABRQ-3_0	Jafurah	MECHANICAL	07-Jan-16	11-Jan-16	4	HALLIBURTON	7,550.00	7,858.00	8 3/8		GR_CCL_DPU
ABRQ-3_0	Jafurah	MECHANICAL	07-Jan-16	11-Jan-16	4	HALLIBURTON	7,550.10	7,857.35	8 3/8		GR_CCL_DPU
ABRQ-3_0	Jafurah	MWD	23-Nov-15	24-Nov-15	1	SPERRY SUN	10,687.00	11,104.00	8 3/8		SGR_ROP
ABRQ-3_0	Jafurah	WIRELINE OPEN HOLE	03-Dec-15	06-Dec-15	3	HALLIBURTON	10,570.10	11,610.10	8 3/8		XRMI_STATIC_D
ABRQ-3_0	Jafurah	WIRELINE OPEN HOLE	30-Nov-15	13-Dec-15	13	HALLIBURTON	100.00	11,569.75	8 3/8		GR
ABRQ-3_0	Jafurah	WIRELINE OPEN HOLE	30-Nov-15	13-Dec-15	13	HALLIBURTON	9,198.00	9,435.00	8 3/8		ACRT_MSFL_IC

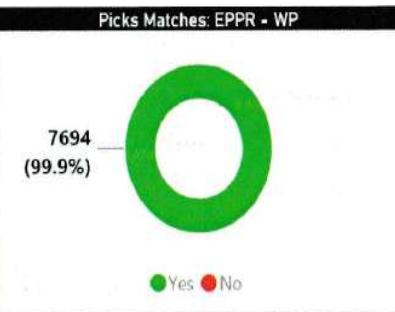
UR Wells - Formation Tops Comparison (AAP) EPPR vs Working Projects

ALL AAP Picks in WPs not
Matching EPPR AAP Picks

May 08, 2019

Pick Match?

- Select All
- No
- Yes

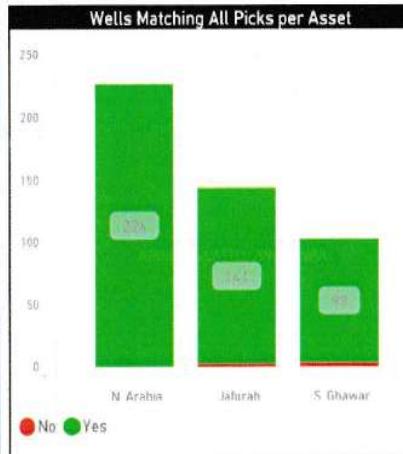
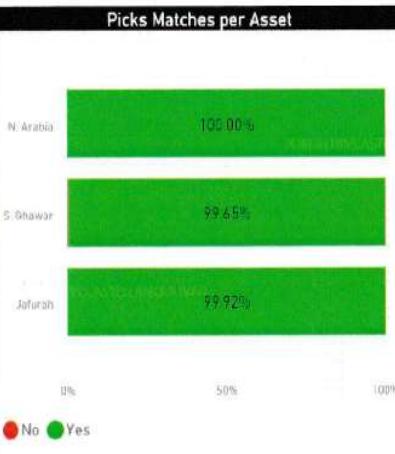


Matches Result

Wellbore Name	Asset Team	Total No. of Picks	Failures	Full Match?	% Accuracy
HMYM-783602_0	Jafurah	6	1	No	83.33
MHWZ-44_0	S. Ghawar	34	1	No	97.06
ST-84_0	Jafurah	33	1	No	96.97
TINT-70_0	S. Ghawar	8	3	No	62.50
TINT-80_0	S. Ghawar	8	5	No	37.50
ABRQ-3_0	Jafurah	34	0	Yes	100.00
ABRQ-3_1	Jafurah	15	0	Yes	100.00
ABRZ-3_0	S. Ghawar	28	0	Yes	100.00
ABRZ-4_0	S. Ghawar	34	0	Yes	100.00

Asset Team

- Select All
- Jafurah
- N. Arabia
- S. Ghawar



Spudded

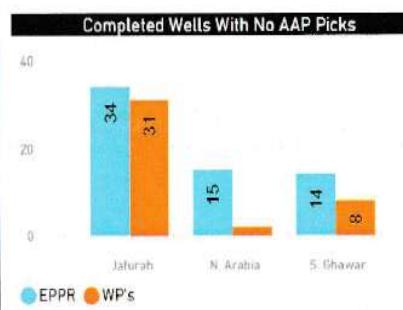
- Select All
- No
- Yes

Completed

- Select All
- No
- Yes

Well Class

- Select All
- Deeper Pool Test
- Delineation Test IE...
- New Field Wildcat
- New Pool Wildcat
- Shallower Pool Test
- Stratigraphical Test
- UR Appraisal
- UR Development
- UR Exploration
- UR Pilot



EPPR: Completed UR Wells With No AAP Picks

Wellbore Name	Asset Team	Completion Date
ADHN-105004_0	S. Ghawar	22-Apr-18
HISN-9_0	Jafurah	18-Nov-15
HMYM-342402_0	Jafurah	28-Feb-19
HMYM-342414_0	Jafurah	10-Jan-19
HMYM-342414_1	Jafurah	21-Jan-19
HMYM-4_1	Jafurah	13-Nov-18
HMYM-4_2	Jafurah	01-Dec-18

WP: Completed UR Wells With No AAP Picks

Wellbore Name	Asset Team	Completion Date
HISN-9_0	Jafurah	18-Nov-15
HMYM-342402_0	Jafurah	28-Feb-19
HMYM-342414_0	Jafurah	10-Jan-19
HMYM-342414_1	Jafurah	21-Jan-19
HMYM-4_1	Jafurah	13-Nov-18
HMYM-4_2	Jafurah	01-Dec-18
HMYM-441604_0	Jafurah	27-Mar-19

UR Wells - EPPR Core Inventory

May 08, 2019

Filters

Well Class

- Select All
- Deeper Pool Test
- Delineation Test (Exploration)
- New Field Wildcat
- New Pool Wildcat
- Shallower Pool Test
- Stratigraphical Test
- Unconventional Resources Appraisal

Asset Team	Field
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Jafurah	<input type="checkbox"/> ABRQ
<input type="checkbox"/> North Arabia	<input type="checkbox"/> ABRZ
<input type="checkbox"/> South Ghawar	<input type="checkbox"/> ADHN

Spudded	Completed
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

Top Formation	Core Cuts Types
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> (Blank)	<input type="checkbox"/> (Blank)
<input type="checkbox"/> ABAR	<input type="checkbox"/> CONVENTIONAL CORE
<input type="checkbox"/> ABBR	<input type="checkbox"/> FIBERGLAS INNER ..
<input type="checkbox"/> ABDR	<input type="checkbox"/> HALFMON
<input type="checkbox"/> ARAB	<input type="checkbox"/> PRESERVED CORE
<input type="checkbox"/> ARBA	<input type="checkbox"/> PRESSURE CORE
<input type="checkbox"/> ARBD	<input type="checkbox"/> SPONGE CORE
<input type="checkbox"/> RIRI	<input type="checkbox"/> MISC LINE CORE

UR Wells Completed drilling

713

UR Wells with Conv Core & SW

216

Core Cut vs Core Recovered

657 (49.77%)

663 (50.23%)

● Core Cut ● Core Recovered

UR Wellbores

Available Core

Wellbore Name	Asset Area	Conventional Core	Side Wall
ABRQ-3_0	Jafurah	✓	✗
ABRZ-3_0	South Ghawar	✓	✓
ABRZ-4_0	South Ghawar	✗	✓
ADHN-1_0	South Ghawar	✓	✗
ADHN-4_0	South Ghawar	✓	✓
ADHN-5_0	South Ghawar	✗	✓
AWFD-1_0	North Arabia	✓	✗
DNAN-482012_0	Jafurah	✓	✗
DNAN-541212_0	Jafurah	✓	✗
FAHM-1_0	North Arabia	✗	✓
FRWN-1_0	North Arabia	✓	✗
FRWN-2_0	North Arabia	✓	✗
FRYD-1_0	North Arabia	✓	✓
FRYD-1_1	North Arabia	✓	✓
GHDH-1_0	North Arabia	✓	✓
HISN-5_0	Jafurah	✓	✗
HMYM-1_0	Jafurah	✓	✗
HMYM-4_0	Jafurah	✓	✗
HMYM-461202_0	Jafurah	✓	✗
HMYM-461212_0	Jafurah	✓	✗
HMYM-563804_0	Jafurah	✓	✗
HMYM-6_0	Jafurah	✓	✗
HRML-102_0	South Ghawar	✓	✗
HRML-103_0	South Ghawar	✓	✗
HRML-104_0	South Ghawar	✓	✗

Core & SideWall per Asset Team

● Conventional ● Sidewall

Asset Area	Conventional	Sidewall
South Ghawar	36	16
North Arabia	75	84
Jafurah	41	3

Core Cuts

Wellbore Name	Asset Area	Spud Date	Completion Date	Description	Core Number	Drillers Top Depth	Drillers Bottom Depth	Core %
FRYD-1_1	North Arabia	02-Mar-12	19-May-12	CONVENTIONAL CORE	10	11,947.00	11,953.00	
RISH-3_0	Jafurah	29-Mar-19		CONVENTIONAL CORE	3	11,743.00	11,833.00	
ST-53_1	North Arabia	30-Sep-13	02-Nov-13	CONVENTIONAL CORE	3	11,241.00	11,247.00	
ST-80_0	Jafurah	14-Nov-16	22-Dec-16	CONVENTIONAL CORE	1	10,920.00	11,010.00	
ST-93_0	Jafurah	06-Feb-17	27-Mar-17	CONVENTIONAL CORE	1	11,089.00	11,179.00	
ST-94_0	Jafurah	03-Nov-15	25-Dec-15	CONVENTIONAL CORE	1	10,860.00	10,950.00	
JNDL-1_0	North Arabia	27-Aug-11	30-Nov-11	CONVENTIONAL CORE	13	8,009.00	8,077.00	
JNDL-1_0	North Arabia	27-Aug-11	30-Nov-11	CONVENTIONAL CORE	14	8,017.00	8,099.00	
RISH-3_0	Jafurah	29-Mar-19		CONVENTIONAL CORE	2	11,563.00	11,653.00	
HZEM-341B12_0	Jafurah	05-Sep-17	24-Oct-17	CONVENTIONAL CORE	1	10,510.00	10,543.00	

UR Wells - EPPR Core Cuts Timeliness

(7 Days Cut-off)

May 08, 2019

Filters

Well Class	
<input type="checkbox"/>	Select All
<input checked="" type="checkbox"/>	Deeper Pool Test
<input checked="" type="checkbox"/>	Delineation Test (Exploration)
<input checked="" type="checkbox"/>	New Field Wildcat
<input checked="" type="checkbox"/>	New Pool Wildcat
<input checked="" type="checkbox"/>	Shallower Pool Test
<input checked="" type="checkbox"/>	Stratigraphical Test
<input checked="" type="checkbox"/>	Unconventional Resources Appraisal

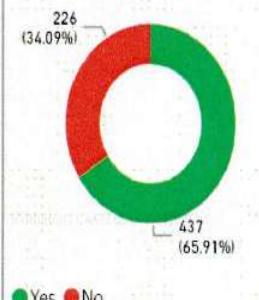
UR Wells Completed drilling

518

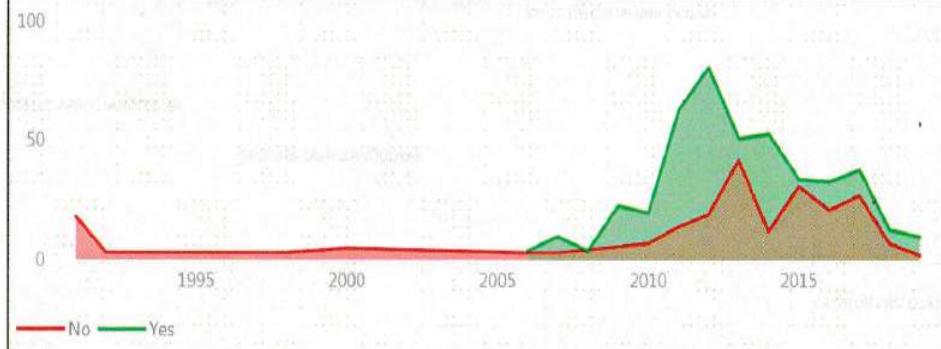
UR Wells with Core Cuts

216

Core Cuts loaded within 7 Days



Core Cuts loaded within 7 days



Asset Team

Asset Team	Field
<input type="checkbox"/>	Select All
<input type="checkbox"/>	Jafurah
<input type="checkbox"/>	North Arabia
<input type="checkbox"/>	South Ghawar

Spudded

Spudded	Completed
<input type="checkbox"/>	Select All
<input type="checkbox"/>	No
<input type="checkbox"/>	Yes

Top Formation

Top Formation	Coring Date
<input type="checkbox"/>	Select All
<input type="checkbox"/>	(Blank)
<input type="checkbox"/>	ABAR
<input type="checkbox"/>	ABBR
<input type="checkbox"/>	ABDR
<input type="checkbox"/>	ARAB
<input type="checkbox"/>	ARBA
<input type="checkbox"/>	ARBD
<input type="checkbox"/>	RUB-I

Average of Days 2B Loaded in EPPR

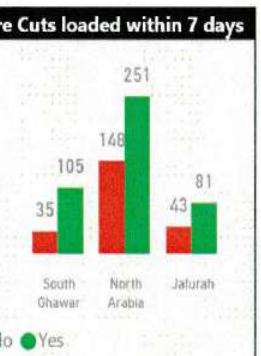
6.94

Average of Days 2B Received @Warehouse

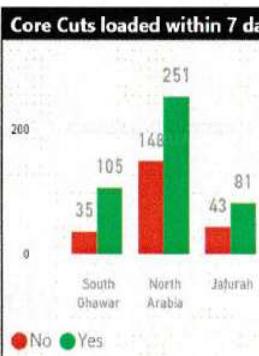
9.28

Core Cuts loaded within 7 days

Core Cuts loaded within 7 days



Core Cuts loaded within 7 days



Core Cuts

Wellbore Name	Core Sequence #	Coring Date	EPPR Create Date	Received Date @ Warehouse	Received @ Ware
ABRQ-3_0	1	24-Nov-15	25-Nov-15	01-Dec-15	✓
ABRQ-3_0	2	27-Nov-15	02-Dec-15	01-Dec-15	✓
ABRZ-3_0	1	07-Oct-11	08-Oct-11	12-Oct-11	✓
ABRZ-3_0	2	12-Oct-11	13-Oct-11	17-Oct-11	✓
ABRZ-3_0	3	23-Oct-11	23-Oct-11	29-Oct-11	✓
ABRZ-3_0	4	02-Nov-11	03-Nov-11	09-Nov-11	✓
ABRZ-3_0	5	04-Nov-11	04-Nov-11	14-Nov-11	✓
ABRZ-3_0	6	09-Nov-11	09-Nov-11	14-Nov-11	✓
ABRZ-3_0	7	11-Nov-11	11-Nov-11	14-Nov-11	✓
ADHN-1_0	1	14-Sep-08	17-Sep-08	17-Sep-08	✓

UR Wells - EPPR Core Status

May 08, 2019

Filters

Asset Team	Field
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> Jafurah	<input type="checkbox"/> ABRQ
<input type="checkbox"/> North Arabia	<input type="checkbox"/> ABRZ
<input type="checkbox"/> South Ghawar	<input type="checkbox"/> ADHN

Wellbore	Received
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> ABRQ-3_0	<input type="checkbox"/> No
<input type="checkbox"/> ABRZ-3_0	<input type="checkbox"/> Yes
<input type="checkbox"/> ADHN-1_0	

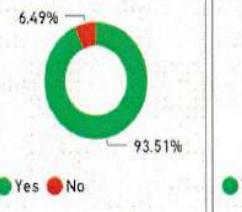
Gamma Scan	Plugged
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

Analyzed	Slabbed
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

Photographed	Core Description
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> No	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

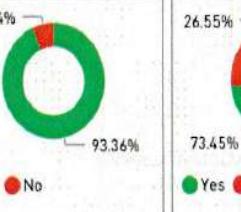
Top Formation	Coring Date
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input type="checkbox"/> (Blank)	<input type="checkbox"/> (Blank)
<input type="checkbox"/> ABAR	<input type="checkbox"/> 1991

Received@Warehouse
Gamma Scan
Plugged
Slabbed
Analyzed
Photographed
Descriptions



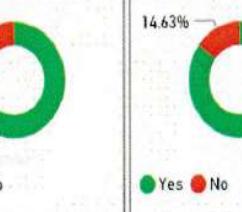
6.49%
93.51%

Yes No



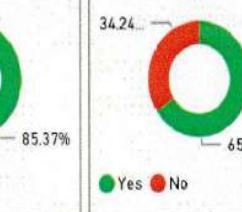
6.64%
93.36%

Yes No



26.55%
73.45%

Yes No



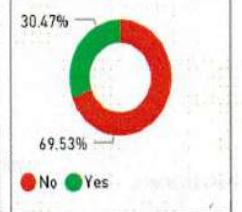
14.63%
85.37%

Yes No



34.24%
65.76%

Yes No



14.18%
85.82%

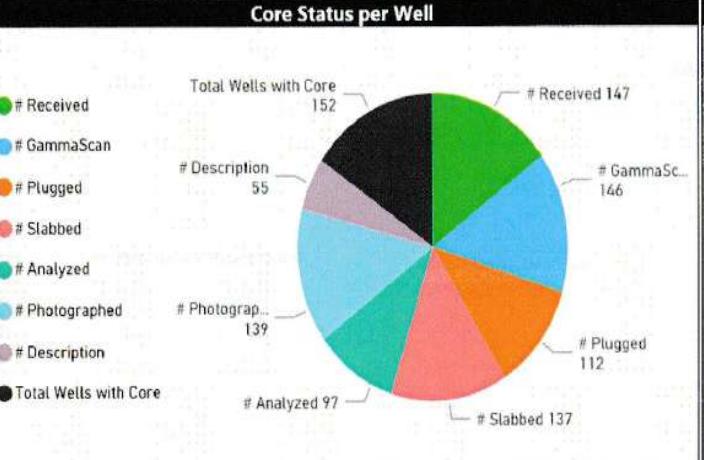
Yes No



30.47%
69.53%

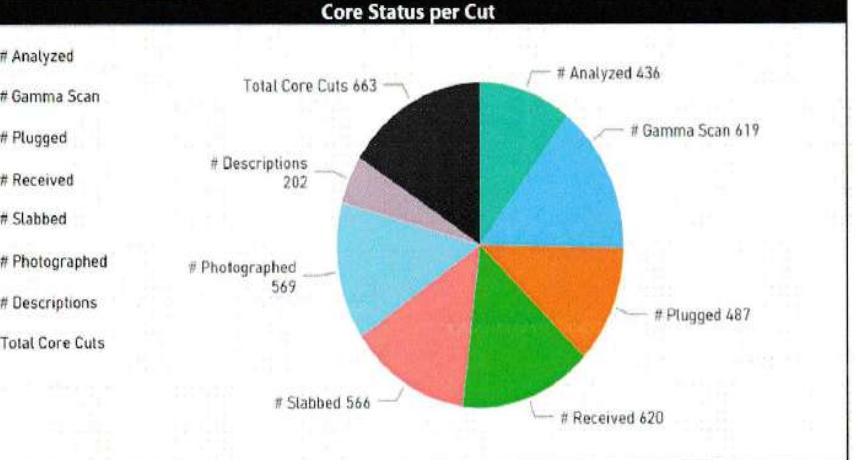
No Yes

Core Status per Well



- # Received 147
- # GammaScan 146
- # Plugged 112
- # Slabbed 137
- # Analyzed 97
- # Photographed 139
- # Description 55
- Total Wells with Core 152

Core Status per Cut



- # Received 620
- # Gamma Scan 619
- # Plugged 487
- # Slabbed 566
- # Descriptions 202
- # Photographed 569
- Total Core Cuts 663

Wellbores with Core Cuts

North ...	75
Jafurah	41
South ...	36
0	50

Core Cuts per Asset

North ...	399
South ...	140
Jafurah	124
0	200
400	

Core Status

Wellbore Name	Asset Team	Core #	Received	GammaScan	Plugged	Slabbed	Analyzed	Photogr...
ABRQ-3_0	Jafurah	1	✓	✓	✗	✓	✗	✓
ABRQ-3_0	Jafurah	2	✓	✓	✗	✓	✗	✓
ABRZ-3_0	South Ghawar	1	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	2	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	3	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	4	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	5	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	6	✓	✓	✓	✓	✓	✓
ABRZ-3_0	South Ghawar	7	✓	✓	✓	✓	✓	✓
ADHN-1_0	South Ghawar	1	✗	✓	✗	✓	✓	✓

SPOTFIRE DASHBOARDS





Executive Dashboard – Overall Summary

Oil: 11,047,388
PMTE: 8,185,503
POD: 8,305,097

TM
+135%

Oil: 86,435,775
PMTE: 63,951,740
POD: 64,886,102

STB
+135%

Water: 109,988,749
PMTE: 0
POD: 0

STB
n/a

Condensate: 237,079
PMTE: 494,831
POD: 0

TM
-48%

Natural Gas: 850,801,417
PMTE: 240,312
POD: 59,759,860

KSm3
+354040%

Associated Gas: 6,503,467,865
PMTE: 5,099,533
POD: 7,941,674

KSm3
+127531%

Flare Gas: 149,354,380
PMTE: 0
POD: 0

KSm3
n/a

Sales Gas: 17,672,581
PMTE: 0
POD: 0

KSm3
n/a

Gas Lift: 657,994,976
PMTE: 3,262,743
POD: 0

KSm3
+20167%

Gas Inj: 6,439,608,656
PMTE: 3,363,453
POD: 6,861,719

KSm3
+191458%

Water Inj: 36,858,764
PMTE: 27,532,138
POD: 14,562,079

m3
+134%

Asset Geolocation

Oil (STB): BERKINE

Overall Summary

The dashboard displays a variety of data visualizations and tables:

- Production Metrics (Top Row):**
 - Oil: 4,558,596 T tonnes Target: 2,680,791 POD: 2,554,456
 - Oil: 35,395,578 stb Target: 20,944,498 POD: 19,957,464
 - Gas Assoc: 795,062 KSm3 Target: 660,667 POD: 14,767
 - Natural Gas: 6,721,562 KSm3 Target: 0 POD: 3,649,149
 - Condensate: 430,587 Tonnes Target: 0 POD: 0
 - LPG: 3,683,384 Tonnes Target: 0 POD: 0
 - TEP: 16,388,422 TEP Target: 3,305,121 POD: 2,726,325
 - Sales Gas: 5,870,680 KSm3 Target: 0 POD: 0
 - Flare Gas: 37,227 KSm3 Target: 0 POD: 0
 - Water Inj: 19,839... m3 Target: 17,690,109 POD: 8,360
 - Gas Inj: 1,324,553 KSm3 Target: 511,017 POD: 12,995
- Gain and Loss - Oil:** A line chart showing oil gain and loss over time, with a callout for 12/30/2021 Well Count: 244.
- Production - Oil:** A dual-axis chart showing oil production, cumulative production, and well count from January to December 2021.
- Filter:** A sidebar for filtering data by date range (From: 01/01/2021, To: 12/31/2021), frequency (Daily), basin (None), operator (None), asset (None), and product (Oil).
- Losses by Cause vs Realization:** A bar chart comparing realized losses against various causes.
- Wells Online/Offline Count:** A stacked area chart showing the count of online and offline wells over time, with specific counts labeled for each day.
- Asset Loss Comments:** A table listing asset loss comments and their details.

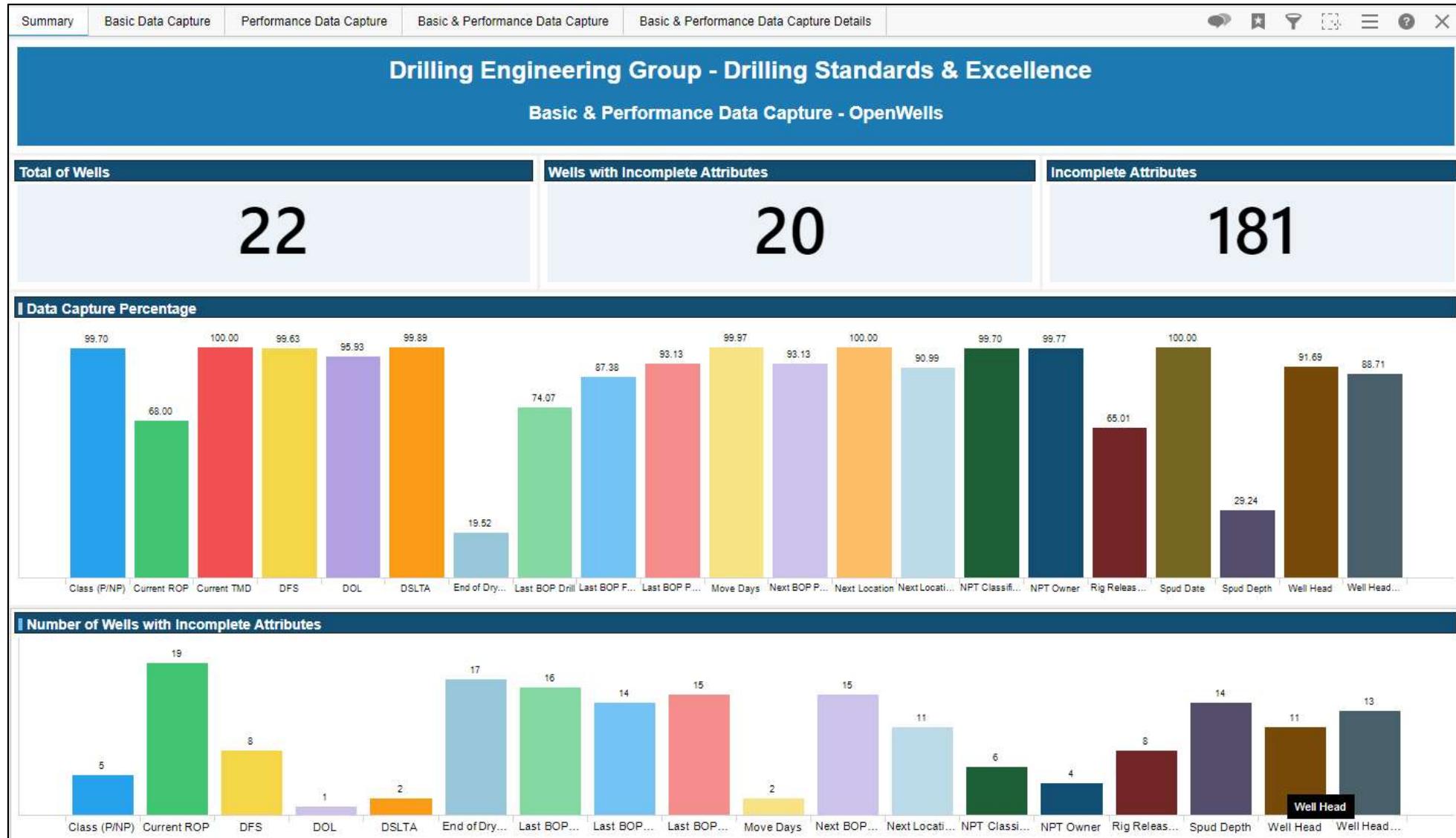


an General Pet. Corp.
J Department
4/13/2023

DAILY DRILLING OPERATION REPORT
FOR DAY: 09/10/2013

AREA/COMPANY WELL	Well		Rig Name	ADAY TDAY	Last Casing	Proposed		Current		Operation Summary
	Type	Ops				TD (ft)	Target	Depth	Form/Lith	
Empty *****										
EPM_BAPETCO										
OBA D40 OB45	Producer	DRO	EDC-42	71.00	7.00@12,696	NaN		12,699.11		P/ Test Annulus "A" to 3,000 psi. Secure well. N/D Bop's. N/U and P/ Test X-mas tree to 5,000 psi. Release rig.
OBA D41 OB46	Producer	DRO	EDC-55		7.00@13,825	NaN		NaN		
OBA J8-1	Producer	DRO	EDC-42		7.00@12,671	NaN		NaN		
North Africa *****										
EPM_BAPETCO										
AL-KARAM-04	Producer	WO		45.00	@	NaN		NaN		

WELL BASIC & PERFORMANCE SUMMARY – DATA CAPTURE INCOMPLETENESS



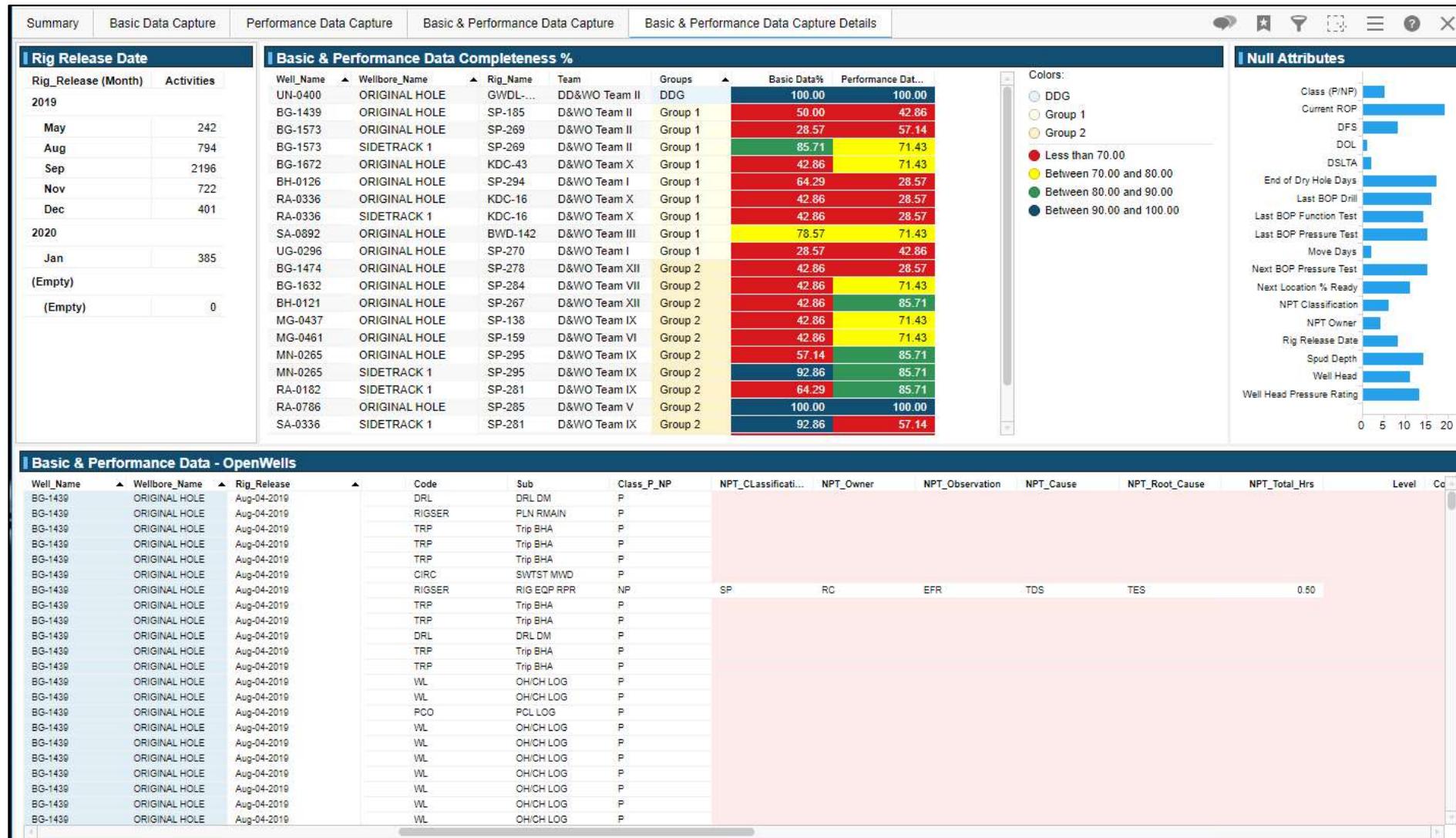
- Total of Wells
- Wells with Issues
- Incomplete Attributes
- Data Capture %
- Count of Wells with Data issues

WELL BASIC & PERFORMANCE – INCOMPLETENESS AVERAGE BY GROUP



- Data Capture % per Well
- Data Completeness by Drilling Group
- Basic Data Incompleteness by Drilling Group
- Performance Data Incompleteness by Drilling Group

WELL BASIC & PERFORMANCE – INCOMPLETENESS AVERAGE BY GROUP



- Rig Release date filter
- Data Completeness by Drilling Group
- Null Attributes
- Basic & Performance data