



Partner Completion and Workover

Report # 20.0, Report Date: 10/1/2017

Well Name: UNIVERSITY 3-35 #102HB

API/UWI No. 42461405920000	Surface Legal Location A-U47, SEC. 11; BLK. 4 CCSD&RGNG R...	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 826301	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 52 STAGES.

Contractor	Rig Number
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AFE Number DD.17.30779.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 233,993	Cum Field Est To Date (Cost) 3,762,316
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
STAGE 43: Fraced with 3,990 gallons 15% HCL acid, 87,178 pounds 100 mesh sand, 103,708 pounds 40/70 mesh sand, and 103,478 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,980 (PSI) pump pressure. Load to recover 6,709 barrels.

STAGE 44: Set plug @ 10,862' and perforate five 2' clusters from 10,689'-10,843'. Fraced with 3,990 gallons 15% HCL acid, 81,667 pounds 100 mesh sand, 105,607 pounds 40/70 mesh sand, and 106,436 pounds 30/50 mesh sand. Average rate 79 (BPM) @ 6,067 (PSI) pump pressure. Load to recover 7,453 barrels.

STAGE 45: Set plug @ 10,670' and perforate five 2' clusters from 10,500'-10,653'. Fraced with 3,990 gallons 15% HCL acid, 80,324 pounds 100 mesh sand, 101,566 pounds 40/70 mesh sand, and 103,365 pounds 30/50 mesh sand. Average rate 79 (BPM) @ 6,011 (PSI) pump pressure. Load to recover 6,919 barrels.

STAGE 46: Set plug @ 10,480' and perforate five 2' clusters from 10,309'-10,463'.

Waiting to complete frac on adjacent well at time of report.

Current Status/OART STDBY TO FRAC STG 46	24 Hour Forecast 24HR FRAC OPS
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Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CHASE ALDER, Consultant	Title Consultant	Phone Mobile
Job Contact BRANDON WILSON, Consultant	Title Consultant	Phone Mobile

Personnel Log

Count	Type	Company	Note	Pers Tot Hrs (hr)	Cum Pers Tot...
4	Service	NICHOLS	PUMPS		
2	Service	COMPLETION EQUIPMENT RENTALS, INC	BACKSIDE		
2	Contractor	BEDROCK CONSULTING	C. ALDER/B.WILSON		
1	Operator	HUNT OIL COMPANY	MARTY HAM		
8	Service	SCHLUMBERGER	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
16	Service	SCHLUMBERGER	FRAC		
4	Service	QUIK PIPE WATER TRANSFER	WATER TRANSFER		
2	Contractor	ELY & ASSOCIATES	FRAC QA/QC		
4	Service	K D TIMMONS	FUEL		

Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	11:30	5.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
11:30	13:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 43: WITH 3,990 GALS 15% HCL, 87,178 LBS 100 MESH SAND, 103,708 LBS 40/70 MESH SAND, 103,478 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,980 PSI PUMP PRESS. FINAL 3,703 PSI, FRAC GRADIENT .87 LTR, 6,709 BBLs.
13:30	15:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 44 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 118 TBBLs PUMPED. SET PLUG @ 10,862' MD, PERFS 10,841'-43', 10,803'-05', 10,759'-61', 10,727'-29' AND 10,689'-91'. POOH, VERIFIED GUNS FIRED.
15:30	17:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
17:30	20:00	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 44: WITH 3,990 GALS 15% HCL, 81,667 LBS 100 MESH SAND, 105,607 LBS 40/70 MESH SAND, 106,436 LBS 30/50 MESH. AVG RATE 79 BPM @ 6,067 PSI PUMP PRESS. FINAL 4,221 PSI, FRAC GRADIENT .937 LTR, 7,453 BBLS.
20:00	22:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 45 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 5,000 PSI PUMP PRESSURE, 135 TBBLs PUMPED. SET PLUG @ 10,670' MD, PERFS 10,651'-53', 10,613'-15', 10,575'-77', 10,537'-39' AND 10,500'-02'. POOH, VERIFIED GUNS FIRED.
22:00	01:00	3.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
01:00	03:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 45: WITH 3,990 GALS 15% HCL, 80,324 LBS 100 MESH SAND, 101,566 LBS 40/70 MESH SAND, 103,365 LBS 30/50 MESH. AVG RATE 79 BPM @ 6,011 PSI PUMP PRESS. FINAL 3,866 PSI, FRAC GRADIENT .895 LTR, 6,919 BBLS.
03:00	05:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 46 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 115 TBBLs PUMPED. SET PLUG @ 10,480' MD, PERFS 10,461'-63', 10,423'-25', 10,385'-87', 10,347'-49' AND 10,309'-11'. POOH, VERIFIED GUNS FIRED.
05:00	06:00	1.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.

Report Fluids Summary				
Fluid	To well (bbl)	From well (bbl)	To lease (bbl)	From lease (bbl)

Safety Checks			
Time	Safety Topic	Type	Com

Logs				
Time	Type	Top (ftKB)	Btm (ftKB)	Cased?

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
03:00	9,739.0	9,893.0		
20:00	9,929.0	10,083.0		
12:30	10,119.0	10,268.0		
03:00	10,309.0	10,463.0		
20:00	10,500.0	10,653.0		
14:00	10,689.0	10,843.0		
01:30	10,879.0	11,032.0		
17:00	11,069.0	11,223.0		
09:15	11,265.0	11,413.0		
04:00	11,449.0	11,603.0		
21:30	11,639.0	11,793.0		
16:00	11,829.0	11,983.0		
10:00	12,015.0	12,173.0		
03:00	12,209.0	12,363.0		
21:00	12,395.0	12,553.0		
14:45	12,589.0	12,743.0		
08:15	12,779.0	12,933.0		
04:00	12,969.0	13,117.0		
21:30	13,155.0	13,313.0		
17:15	13,353.0	13,499.0		
10:00	13,539.0	13,693.0		
04:00	13,729.0	13,880.0		
19:30	13,919.0	14,070.0		
17:45	14,109.0	14,263.0		
06:00	14,299.0	14,453.0		
01:00	14,492.0	14,638.0		
17:00	14,679.0	14,833.0		
11:30	14,869.0	15,023.0		
06:00	15,065.0	15,213.0		



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
00:15	15,249.0	15,403.0		
18:00	15,439.0	15,591.0		
07:30	15,629.0	15,783.0		
02:15	15,819.0	15,973.0		
22:45	16,009.0	16,163.0		
12:15	16,199.0	16,348.0		
06:30	16,389.0	16,543.0		
00:30	16,583.0	16,732.0		
10:00	16,769.0	16,921.0		
05:15	16,959.0	17,113.0		
23:15	17,149.0	17,302.0		
14:30	17,339.0	17,493.0		
13:45	17,529.0	17,683.0		
05:00	17,719.0	17,869.0		
10:00	17,909.0	18,063.0		
04:00	18,099.0	18,253.0		
20:15	18,289.0	18,443.0		
06:00	18,479.0	18,633.0		
19:15	18,669.0	18,823.0		
19:12	18,852.0	19,013.0		
15:00	19,071.0	19,085.0		

Stimulations Summary

Type	Subtype	Stim/Treat Company
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Stimulation Intervals

Interval Number	Type	Top (ftKB)	Btm (ftKB)
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Tubing Run

Run Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade
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Tubing Pulled

Pull Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade
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Other in Hole Run (Bridge Plugs, etc)

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)
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Other in Hole Pulled (Bridge Plugs, etc)

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)
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Cement

Start Time	Des	Type	String	Cement Comp
02:00	Primary Single Stage	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
08:00	Top Out	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
19:03	Primary Multiple Stage	Casing	Intermediate Casing, 7,787.0ftKB	DOWELL SCHLUMBERGER
16:00	Primary Single Stage	Casing	Production Casing, 19,215.0ftKB	DOWELL SCHLUMBERGER

Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	111,383.0	111,383.0	0.0



Partner Completion and Workover

Report # 21.0, Report Date: 10/2/2017

Well Name: UNIVERSITY 3-35 #102HB

API/UWI No. 42461405920000	Surface Legal Location A-U47, SEC. 11; BLK. 4 CCSD&RGNG R...	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 826301	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 52 STAGES.

Contractor	Rig Number
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AFE Number DD.17.30779.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 237,068	Cum Field Est To Date (Cost) 3,999,384
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
STAGE 46: Fraced with 3,990 gallons 15% HCL acid, 80,912 pounds 100 mesh sand, 104,639 pounds 40/70 mesh sand, and 105,790 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,960 (PSI) pump pressure. Load to recover 6,569 barrels.

STAGE 47: Set plug @ 10,290' and perforate five 2' clusters from 10,119'-10,268'. Fraced with 3,990 gallons 15% HCL acid, 82,247 pounds 100 mesh sand, 110,407 pounds 40/70 mesh sand, and 95,945 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,067 (PSI) pump pressure. Load to recover 7,194 barrels.

STAGE 48: Set plug @ 10,100' and perforate five 2' clusters from 9,929'-10,083'. Fraced with 3,990 gallons 15% HCL acid, 81,880 pounds 100 mesh sand, 101,861 pounds 40/70 mesh sand, and 102,971 pounds 30/50 mesh sand. Average rate 79 (BPM) @ 5,951 (PSI) pump pressure. Load to recover 9,298 barrels.

STAGE 49: Set plug @ 9,907' and perforate five 2' clusters from 9,739'-9,893'.

Waiting to complete operations on adjacent well at time of report.

Current Status/OART STDBY TO FRAC STG 49	24 Hour Forecast 24HR FRAC OPS
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Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CHASE ALDER, Consultant	Title Consultant	Phone Mobile
Job Contact BRANDON WILSON, Consultant	Title Consultant	Phone Mobile

Personnel Log

Count	Type	Company	Note	Pers Tot Hrs (hr)	Cum Pers Tot...
4	Service	NICHOLS	PUMPS		
2	Service	COMPLETION EQUIPMENT RENTALS, INC	BACKSIDE		
2	Contractor	BEDROCK CONSULTING	C. ALDER/B.WILSON		
1	Operator	HUNT OIL COMPANY	MARTY HAM		
8	Service	SCHLUMBERGER	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
16	Service	SCHLUMBERGER	FRAC		
4	Service	QUICK PIPE WATER TRANSFER	WATER TRANSFER		
2	Contractor	ELY & ASSOCIATES	FRAC QA/QC		
4	Service	K D TIMMONS	FUEL		

Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	09:30	3.50	39STIM, Stim & Treat	TR	t		WAITING ON SAND DUE TO STUCK SAND TRUCK ON THE LEASE ROAD.
09:30	11:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 46: WITH 3,990 GALS 15% HCL, 80,912 LBS 100 MESH SAND, 104,639 LBS 40/70 MESH SAND, 105,790 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,960 PSI PUMP PRESS. FINAL 4,164 PSI, FRAC GRADIENT .93 LTR, 6,569 BBLS.
11:30	13:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 47 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, PSI PUMP PRESSURE, 92 TBLS PUMPED. SET PLUG @ 10,290' MD, PERFS 10,266'-68', 10,233'-35', 10,195'-97', 10,157'-59' AND 10,119'-21'. POOH, VERIFIED GUNS FIRED.
13:30	15:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



Partner Completion and Workover

Report # 21.0, Report Date: 10/2/2017

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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
15:30	17:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 47: WITH 3,990 GALS 15% HCL, 82,247 LBS 100 MESH SAND, 110,407 LBS 40/70 MESH SAND, 95,945 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,067 PSI PUMP PRESS. FINAL 3,100 PSI, FRAC GRADIENT .434 LTR, 7,194 BBLs.
17:30	21:30	4.00	39STIM, Stim & Treat	ST	b	O	WELL SCREENED OUT ON FLUSH. KILL PUMPS TRY TO GET INTO IT AT 2 BPM PRESSURE @ 7,500 PSI. DECISION WAS MADE TO FLOW BACK WELL. FLOWED BACK 225 BBLs CASING VOLUME. GET BACK INTO IT AT 2 BPM WORKING IT UP SLOWLY TO 20 BPM STARTED #12 GEL SYSTEM AND 50 BBL CROSSLINK PILL THEN FLUSH 225 BBL CASING VOLUME TO CLEAR GEL FROM WELLBORE
21:30	23:00	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 48 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 3,400 PSI PUMP PRESSURE, 92 TBBLs PUMPED. SET PLUG @ 10,100' MD, PERFS 10,081'-83', 10,043'-45', 10,007'-09', 9,967'-69' AND 9,929'-31'. POOH, VERIFIED GUNS FIRED.
23:00	01:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
01:00	03:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 48: WITH 3,990 GALS 15% HCL, 81,880 LBS 100 MESH SAND, 101,861 LBS 40/70 MESH SAND, 102,971 LBS 30/50 MESH. AVG RATE 79 BPM @ 5,951 PSI PUMP PRESS. FINAL 4,078 PSI, FRAC GRADIENT .92 LTR, 9,298 BBLs.
03:00	04:30	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 49 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 85 TBBLs PUMPED. SET PLUG @ 9,907' MD, PERFS 9,891'-93', 9,853'-55', 9,815'-17', 9,774'-76' AND 9,739'-41'. POOH, VERIFIED GUNS FIRED.
04:30	06:00	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.

Report Fluids Summary				
Fluid	To well (bbl)	From well (bbl)	To lease (bbl)	From lease (bbl)

Safety Checks			
Time	Safety Topic	Type	Com

Logs				
Time	Type	Top (ftKB)	Btm (ftKB)	Cased?

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
03:00	9,739.0	9,893.0		
20:00	9,929.0	10,083.0		
12:30	10,119.0	10,268.0		
03:00	10,309.0	10,463.0		
20:00	10,500.0	10,653.0		
14:00	10,689.0	10,843.0		
01:30	10,879.0	11,032.0		
17:00	11,069.0	11,223.0		
09:15	11,265.0	11,413.0		
04:00	11,449.0	11,603.0		
21:30	11,639.0	11,793.0		
16:00	11,829.0	11,983.0		
10:00	12,015.0	12,173.0		
03:00	12,209.0	12,363.0		
21:00	12,395.0	12,553.0		
14:45	12,589.0	12,743.0		
08:15	12,779.0	12,933.0		
04:00	12,969.0	13,117.0		
21:30	13,155.0	13,313.0		
17:15	13,353.0	13,499.0		
10:00	13,539.0	13,693.0		
04:00	13,729.0	13,880.0		
19:30	13,919.0	14,070.0		



Partner Completion and Workover

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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 6/3/2017 18:30	Large Rig Spud Date	Rig Release Date 6/28/2017 16:30	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
17:45	14,109.0	14,263.0		
06:00	14,299.0	14,453.0		
01:00	14,492.0	14,638.0		
17:00	14,679.0	14,833.0		
11:30	14,869.0	15,023.0		
06:00	15,065.0	15,213.0		
00:15	15,249.0	15,403.0		
18:00	15,439.0	15,591.0		
07:30	15,629.0	15,783.0		
02:15	15,819.0	15,973.0		
22:45	16,009.0	16,163.0		
12:15	16,199.0	16,348.0		
06:30	16,389.0	16,543.0		
00:30	16,583.0	16,732.0		
10:00	16,769.0	16,921.0		
05:15	16,959.0	17,113.0		
23:15	17,149.0	17,302.0		
14:30	17,339.0	17,493.0		
13:45	17,529.0	17,683.0		
05:00	17,719.0	17,869.0		
10:00	17,909.0	18,063.0		
04:00	18,099.0	18,253.0		
20:15	18,289.0	18,443.0		
06:00	18,479.0	18,633.0		
19:15	18,669.0	18,823.0		
19:12	18,852.0	19,013.0		
15:00	19,071.0	19,085.0		

Stimulations Summary

Type	Subtype	Stim/Treat Company
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Stimulation Intervals

Interval Number	Type	Top (ftKB)	Btm (ftKB)
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Tubing Run

Run Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade
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Tubing Pulled

Pull Time	Tubing Description	Set Depth (ftKB)	String Max Nominal OD (in)	Weight/Length (lb/ft)	String Grade
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Other in Hole Run (Bridge Plugs, etc)

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)
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Other in Hole Pulled (Bridge Plugs, etc)

Pull Time	Des	Top (ftKB)	Btm (ftKB)	OD (in)
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Cement

Start Time	Des	Type	String	Cement Comp
02:00	Primary Single Stage	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
08:00	Top Out	Casing	Surface Casing, 684.0ftKB	DOWELL SCHLUMBERGER
19:03	Primary Multiple Stage	Casing	Intermediate Casing, 7,787.0ftKB	DOWELL SCHLUMBERGER
16:00	Primary Single Stage	Casing	Production Casing, 19,215.0ftKB	DOWELL SCHLUMBERGER

Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	111,383.0	111,383.0	0.0