



# Partner Completion and Workover

Report # 16.0, Report Date: 9/27/2017

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) 313,408	Cum Field Est To Date (Cost) 2,679,908
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 28: Fraced with 3,990 gallons 15% HCL acid, 83,906 pounds 100 mesh sand, 102,578 pounds 40/70 mesh sand, and 102,411 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,114 (PSI) pump pressure. Load to recover 7,380 barrels.

STAGE 29: Set plug @ 13,710' and perforate five 2' clusters from 13,539'-13,693'. Fraced with 3,990 gallons 15% HCL acid, 84,343 pounds 100 mesh sand, 104,548 pounds 40/70 mesh sand, and 104,207 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,085 (PSI) pump pressure. Load to recover 6,948 barrels.

STAGE 30: Set plug @ 13,515' and perforate five 2' clusters from 13,353'-13,499'. Fraced with 3,990 gallons 15% HCL acid, 84,605 pounds 100 mesh sand, 102,976 pounds 40/70 mesh sand, and 100,924 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,191 (PSI) pump pressure. Load to recover 7,810 barrels.

STAGE 31: Set plug @ 13,330' and perforate five 2' clusters from 13,155'-13,313'. Fraced with 3,990 gallons 15% HCL acid, 83,405 pounds 100 mesh sand, 104,216 pounds 40/70 mesh sand, and 107,379 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,053 (PSI) pump pressure. Load to recover 7,792 barrels.

STAGE 32: Set plug @ 13,140' and perforate five 2' clusters from 12,969'-13,117'.

Fracing stage 32 at time of report.

Current Status/OART FRAC STG 32	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	06:30	0.50	39STIM, Stim & Treat	DT	e		WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
06:30	08:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 28: WITH 3,990 GALS 15% HCL, 83,906 LBS 100 MESH SAND, 102,578 LBS 40/70 MESH SAND, 102,411 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,114 PSI PUMP PRESS. FINAL 3,791 PSI, FRAC GRADIENT .89 LTR, 7,380 BBLs.



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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							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
08:30	09:30	1.00	39STIM, Stim & Treat	EQ	c	O	SCHEDULED MAINTENANCE:  WL GREASE HEAD RE TUBE AND RE HEAD.  GREASE AND TORQUE CHECK VALVES ON WELLHEAD AND ZIPPER MANIFOLD.  FRAC PUMP MAINTENANCE.
09:30	11:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 29 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,200 PSI PUMP PRESSURE, 267 TBBLs PUMPED. SET PLUG @ 13,710' MD, PERFS 13,691'-93', 13,653'-55', 13,610'-12', 13,577'-79' AND 13,539'-41'. POOH, VERIFIED GUNS FIRED.
11:30	13:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
13:30	15:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 29: WITH 3,990 GALS 15% HCL, 84,343 LBS 100 MESH SAND, 104,548 LBS 40/70 MESH SAND, 104,207 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,085 PSI PUMP PRESS. FINAL 3,661 PSI, FRAC GRADIENT .87 LTR, 6,948 BBLs.
15:30	17:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 30 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 256 TBBLs PUMPED. SET PLUG @ 13,515' MD, PERFS 13,497'-99', 13,463'-65', 13,425'-27', 13,382'-84' AND 13,353'-55'. POOH, VERIFIED GUNS FIRED.
17:30	18:00	0.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
18:00	20:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 30: WITH 3,990 GALS 15% HCL, 84,605 LBS 100 MESH SAND, 102,976 LBS 40/70 MESH SAND, 100,924 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,191 PSI PUMP PRESS. FINAL 3,805 PSI, FRAC GRADIENT .88 LTR, 7,810 BBLs.
20:00	22:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 31 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,400 PSI PUMP PRESSURE, 253 TBBLs PUMPED. SET PLUG @ 13,330' MD, PERFS 13,311'-13', 13,273'-75', 13,235'-37', 13,197'-99' AND 13,155'-57'. POOH, VERIFIED GUNS FIRED.
22:00	00:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
00:00	02:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 31: WITH 3,990 GALS 15% HCL, 83,405 LBS 100 MESH SAND, 104,216 LBS 40/70 MESH SAND, 107,379 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,053 PSI PUMP PRESS. FINAL 3,730 PSI, FRAC GRADIENT .87 LTR, 7,792 BBLs.
02:00	04:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 32 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,500 PSI PUMP PRESSURE, 242 TBBLs PUMPED. SET PLUG @ 13,140' MD, PERFS 13,115'-17', 13,083'-85', 13,045'-47', 13,007'-09' AND 12,969'-71'. POOH, VERIFIED GUNS FIRED.
04:00	05:30	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
05:30	06:00	0.50	39STIM, Stim & Treat	ST	b	O	FRACING STAGE 32 AT TIME OF REPORT

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

Safety Checks			
Time	Safety Topic	Type	Com
06:00			FORKLIFT, CRANE, OVERHEAD LOADS

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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		



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## Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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		
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)

## Tubing Run

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

## Tubing Pulled

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

## Other in Hole Run (Bridge Plugs, etc)

Run Time	Des	OD (in)	Top (ftKB)	Btm (ftKB)

## Other in Hole Pulled (Bridge Plugs, etc)

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

## 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



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## Job Supplies

Supply Item Description FUEL	Unit Label Gal	Total Received 85,973.0	Total Consumed 85,973.0	Inventory On Location 0.0
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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) 305,547	Cum Field Est To Date (Cost) 2,985,455
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 32: Fraced with 3,990 gallons 15% HCL acid, 84,399 pounds 100 mesh sand, 102,347 pounds 40/70 mesh sand, and 102,853 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 5,983 (PSI) pump pressure. Load to recover 6,831 barrels.

STAGE 33: Set plug @ 12,950' and perforate five 2' clusters from 12,779'-12,933'. Fraced with 3,990 gallons 15% HCL acid, 84,038 pounds 100 mesh sand, 102,956 pounds 40/70 mesh sand, and 106,134 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 6,200 (PSI) pump pressure. Load to recover 6,800 barrels.

STAGE 34: Set plug @ 12,764' and perforate five 2' clusters from 12,589'-12,743'. Fraced with 3,990 gallons 15% HCL acid, 89,226 pounds 100 mesh sand, 97,874 pounds 40/70 mesh sand, and 107,973 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,055 (PSI) pump pressure. Load to recover 7,546 barrels.

STAGE 35: Set plug @ 12,570' and perforate five 2' clusters from 12,395'-12,553'. Fraced with 3,990 gallons 15% HCL acid, 84,203 pounds 100 mesh sand, 103,735 pounds 40/70 mesh sand, and 103,192 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 6,075 (PSI) pump pressure. Load to recover 7,109 barrels.

STAGE 36: Set plug @ 12,380' and perforate five 2' clusters from 12,209'-12,363'.

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

Current Status/OART STDBY TO FRAC STG 36	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	08:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 32: WITH 3,990 GALS 15% HCL, 84,399 LBS 100 MESH SAND, 102,347 LBS 40/70 MESH SAND, 102,853 LBS 30/50 MESH. AVG RATE 81 BPM @ 5,983 PSI PUMP PRESS. FINAL 3,413 PSI, FRAC GRADIENT .84 LTR, 6,831 BBLS.
08:00	10:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 33 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,300 PSI PUMP PRESSURE, 214 TBBLS PUMPED. SET PLUG @ 12,950' MD, PERFS 12,931'-33', 12,890'-92', 12,855'-57', 12,817'-19' AND 12,779'-81'. POOH, VERIFIED GUNS FIRED.



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Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
10:00	12:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
12:00	14:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 33: WITH 3,990 GALS 15% HCL, 84,038 LBS 100 MESH SAND, 102,956 LBS 40/70 MESH SAND, 106,134 LBS 30/50 MESH. AVG RATE 80 BPM @ 6,200 PSI PUMP PRESS. FINAL 3,774 PSI, FRAC GRADIENT .88 LTR, 6,800 BBLS.
14:00	16:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 34 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,700 PSI PUMP PRESSURE, 210 TBBLs PUMPED. SET PLUG @ 12,764' MD, PERFS 12,741'-43', 12,703'-05', 12,655'-57', 12,628'-30' AND 12,589'-91'. POOH, VERIFIED GUNS FIRED.
16:00	18:30	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
18:30	20:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 34: WITH 3,990 GALS 15% HCL, 89,226 LBS 100 MESH SAND, 97,874 LBS 40/70 MESH SAND, 107,973 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,055 PSI PUMP PRESS. FINAL 3,840 PSI, FRAC GRADIENT .892 LTR, 7,546 BBLS.
20:30	22:00	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 35 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,400 PSI PUMP PRESSURE, 216 TBBLs PUMPED. SET PLUG @ 12,570' MD, PERFS 12,551'-53', 12,513'-15', 12,475'-77', 12,437'-39' AND 12,395'-97'. POOH, VERIFIED GUNS FIRED.
22:00	00:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
00:00	02:30	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 35: WITH 3,990 GALS 15% HCL, 84,203 LBS 100 MESH SAND, 103,735 LBS 40/70 MESH SAND, 103,192 LBS 30/50 MESH. AVG RATE 80 BPM @ 6,075 PSI PUMP PRESS. FINAL 3,911 PSI, FRAC GRADIENT .90 LTR, 7,109 BBLS.
02:30	04:00	1.50	39STIM, Stim & Treat	PF	c	O	STAGE 36 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,500 PSI PUMP PRESSURE, 192 TBBLs PUMPED. SET PLUG @ 12,380' MD, PERFS 12,361'-63', 12,323'-25', 12,285'-87', 12,247'-49' AND 12,209'-11'. POOH, VERIFIED GUNS FIRED.
04:00	06:00	2.00	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	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		
00:15	15,249.0	15,403.0		
18:00	15,439.0	15,591.0		

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## Perforations

Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
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)

## 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)

## Other in Hole Pulled (Bridge Plugs, etc)

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

## 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	85,973.0	85,973.0	0.0