



# Partner Completion and Workover

Report # 11.0, Report Date: 9/22/2017

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) 176,342	Cum Field Est To Date (Cost) 1,199,012
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 11: Fraced with 3,990 gallons 15% HCL acid, 83,231 pounds 100 mesh sand, 102,407 pounds 40/70 mesh sand, and 102,967 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,745 (PSI) pump pressure. Load to recover 7,408 barrels.

STAGE 12: Set plug @ 16,945' and perforate five 2' clusters from 16,769'-16,922'. Fraced with 3,990 gallons 15% HCL acid, 84,631 pounds 100 mesh sand, 103,870 pounds 40/70 mesh sand, and 82,947 pounds 30/50 mesh sand. Average rate 76 (BPM) @ 6,686 (PSI) pump pressure. Load to recover 7,003 barrels.

STAGE 13: Set plug @ 16,750' and perforate five 2' clusters from 16,583'-16,732'.

Fracing stage 13 at time of report.

Current Status/OART FRAC STG 13	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	07:30	1.50	39STIM, Stim & Treat	DT	e		WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
07:30	09:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 11: WITH 3,990 GALS 15% HCL, 83,231 LBS 100 MESH SAND, 102,407 LBS 40/70 MESH SAND, 102,967 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,745 PSI PUMP PRESS. FINAL 3,908 PSI, FRAC GRADIENT .9 LTR, 7,408 BBLS.
09:30	11:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 12 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 18 BPM, 5,500 PSI PUMP PRESSURE, 405 TBLS PUMPED. SET PLUG @ 16,945' MD, PERFS 16,921'-23', 16,883'-85', 16,845'-47', 16,807'-09' AND 16,769'-71'. POOH, VERIFIED GUNS FIRED.
11:30	14:00	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
14:00	16:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 12: WITH 3,990 GALS 15% HCL, 84,631 LBS 100 MESH SAND, 103,870 LBS 40/70 MESH SAND, 82,947 LBS 30/50 MESH. AVG RATE 76 BPM @ 6,686 PSI PUMP PRESS. LTR, 7,003 BBLS.  FRAC GRADIENT AND ISIP NO RECORDED DUE TO SCREEN OUT



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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	
16:00	17:00	1.00	39STIM, Stim & Treat	TR	t	O	SURGED WELL WITH INITIAL PRESSURE OF 3,200 PSI. WELL FLOWING @ 10.4 BPM AND 700 PSI FOR 5 MINUTES. FLOWING PRESSURE AND RATE FELL TO 100 PSI AND 4.6 RESPECTIVELY.  FLOWED BACK 450 BBLS
17:00	23:00	6.00	39STIM, Stim & Treat	TR	t	O	BEGAN PUMPING SW @ 2 BPM, PUMPED 185 BBLS. INCREASED RATE TO 4 BPM, PUMPED 185 BBLS OF SW. RAISED RATE 6 PUMPED 185 BBLS OF SW. RAISED RATE 8 PUMPED 185 BBLS OF SW.  STARTED LINER GEL AT A RATE OF 10 BPM PUMPED AWAY 185 BBLS. INCREASED RATE BY 2 BBL INCREMENTS UP TO 20 BBLS.  STARTED XL FLUID AT A RATE OF 20 BBLS, PUMPED 185 BBLS  PUMPED AN ADDITIONAL 1,260 BBLS TO FLUSH
23:00	01:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 13 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 5,700 PSI PUMP PRESSURE, 413 TBBLs PUMPED. SET PLUG @ 16,750' MD, PERFS 16,731'-33', 16,693'-95', 16,655'-57', 16,617'-19' AND 16,583'-85'. POOH, VERIFIED GUNS FIRED.
01:00	04:00	3.00	39STIM, Stim & Treat	TR	a	O	WHILE PRESSURE TESTING TO BEGAN FRAC NOTICE INCREASE IN PRESSURE FROM PUMP DOWN ON ADJACENT WELL. WAIT FOR WL TO GET TO SURFACE BEFORE STARTING FRAC
04:00	04:30	0.50	39STIM, Stim & Treat	TR	a	O	GREASED ZIPPER MANIFOLD
04:30	06:00	1.50	39STIM, Stim & Treat	ST	b	O	FRACING STAGE 13 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		*COPY* Tail Gate	OVERHEAD LOADS, EXPLOSIVES, RADIO COMMUNICATION

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

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

Job Supplies				
Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	44,953.0	44,953.0	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) 308,355	Cum Field Est To Date (Cost) 1,507,367
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## Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 13: Fraced with 3,990 gallons 15% HCL acid, 86,173 pounds 100 mesh sand, 101,309 pounds 40/70 mesh sand, and 102,201 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,888 (PSI) pump pressure. Load to recover 7,411 barrels.

STAGE 14: Set plug @ 16,560' and perforate five 2' clusters from 16,389'-16,543'. Fraced with 3,990 gallons 15% HCL acid, 96,461 pounds 100 mesh sand, 102,792 pounds 40/70 mesh sand, and 103,241 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,735 (PSI) pump pressure. Load to recover 7,448 barrels.

STAGE 15: Set plug @ 16,370' and perforate five 2' clusters from 16,199'-16,348'. Fraced with 3,990 gallons 15% HCL acid, 84,254 pounds 100 mesh sand, 104,585 pounds 40/70 mesh sand, and 102,835 pounds 30/50 mesh sand. Average rate 77 (BPM) @ 6,583 (PSI) pump pressure. Load to recover 7,631 barrels.

STAGE 16: Set plug @ 16,180' and perforate five 2' clusters from 16,009'-16,161'. Fraced with 3,990 gallons 15% HCL acid, 83,235 pounds 100 mesh sand, 104,093 pounds 40/70 mesh sand, and 102,508 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 6,649 (PSI) pump pressure. Load to recover 7,544 barrels.

STAGE 17: Set plug @ 15,988' and perforate five 2' clusters from 15,819'-15,973'.

Fracing stage 17 at time of report.

Current Status/OART FRAC STG 17	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	ST	b	O	FRAC STAGE 13: WITH 3,990 GALS 15% HCL, 86,173 LBS 100 MESH SAND, 101,309 LBS 40/70 MESH SAND, 102,201 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,888 PSI PUMP PRESS. FINAL 3,700 PSI, FRAC GRADIENT .88 LTR, 7,411 BBLs.
06:30	08:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 14 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,200 PSI PUMP PRESSURE, 393 TBBLs PUMPED. SET PLUG @ 16,560' MD, PERFS 16,541'-43', 16,503'-05', 16,465'-67', 16,427'-29' AND 16,389'-91'. POOH, VERIFIED GUNS FIRED.



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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	10:00	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
10:00	12:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 14: WITH 3,990 GALS 15% HCL, 96,461 LBS 100 MESH SAND, 102,792 LBS 40/70 MESH SAND, 103,241 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,735 PSI PUMP PRESS. FINAL 3,688 PSI, FRAC GRADIENT .87 LTR, 7,448 BBLs.
12:00	14:00	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 15 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,100 PSI PUMP PRESSURE, 386 TBBLs PUMPED. SET PLUG @ 16,370' MD, PERFS 16,346'-48', 16,313'-15', 16,275'-77', 16,237'-39' AND 16,199'-201'. POOH, VERIFIED GUNS FIRED.
14:00	16:30	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
16:30	18:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 15: WITH 3,990 GALS 15% HCL, 84,254 LBS 100 MESH SAND, 104,585 LBS 40/70 MESH SAND, 102,835 LBS 30/50 MESH. AVG RATE 77 BPM @ 6,583 PSI PUMP PRESS. FINAL 3,554 PSI, FRAC GRADIENT .85 LTR, 7,631 BBLs.
18:30	20:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 16 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 3,900 PSI PUMP PRESSURE, 382 TBBLs PUMPED. SET PLUG @ 16,180' MD, PERFS 16,161'-63', 16,120'-22', 16,077'-79', 16,047'-49' AND 16,009'-11'. POOH, VERIFIED GUNS FIRED.
20:30	22:30	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
22:30	00:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 16: WITH 3,990 GALS 15% HCL, 83,235 LBS 100 MESH SAND, 104,093 LBS 40/70 MESH SAND, 102,508 LBS 30/50 MESH. AVG RATE 82 BPM @ 6,649 PSI PUMP PRESS. FINAL 3,600 PSI, FRAC GRADIENT .86 LTR, 7,544 BBLs.
00:30	02:30	2.00	39STIM, Stim & Treat	PF	c	O	STAGE 17 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,000 PSI PUMP PRESSURE, 370 TBBLs PUMPED. SET PLUG @ 15,988' MD, PERFS 15,971'-73', 15,933'-35', 15,895'-97', 15,857'-59' AND 15,819'-21'. POOH, VERIFIED GUNS FIRED.
02:30	04:00	1.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
04:00	06:00	2.00	39STIM, Stim & Treat	ST	b	O	FRACING STAGE 17 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

## Logs

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

## Perforations

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



# Partner Completion and Workover

Report # 12.0, Report Date: 9/23/2017

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## Perforations

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

## Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	44,953.0	44,953.0	0.0