



# Partner Completion and Workover

Report # 6.0, Report Date: 9/17/2017

## 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) 167,860	Cum Field Est To Date (Cost) 262,540
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### Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report  
STAGE 1: Fraced with 4,000 gallons 15% HCL acid, 74,076 pounds 100 mesh sand, 103,875 pounds 40/70 mesh sand and 103,053 pounds 30/50 mesh sand. Average rate 71 (BPM) @ 7,196 (PSI) pump pressure. Load to recover 7,876 barrels.

STAGE 2: Set plug @ 18,840' and perforate five 2' clusters from 18,669'-18,823'. Fraced with 4,000 gallons 15% HCL acid, 89,117 pounds 100 mesh sand, 102,713 pounds 40/70 mesh sand and 103,364 pounds 30/50 mesh sand. Average rate 76 (BPM) @ 7,664 (PSI) pump pressure. Load to recover 8,359 barrels.

Running in hole to perforate stage 3 at time of report.

Current Status/OART PERF STG 3	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	13:30	7.50	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 1: WITH 4,000 GALS 15% HCL, 74,076 LBS 100 MESH SAND, 103,875 LBS 40/70 MESH SAND, 103,053 LBS 30/50 MESH. AVG RATE 71 BPM @ 7,196 PSI PUMP PRESS. FINAL 3,320 PSI, FRAC GRADIENT .83 LTR 7,876 BBLS.
15:30	18:00	2.50	39STIM, Stim & Treat	DT	e	O	WAITING ON GUNS TO ARRIVE.
18:00	21:00	3.00	39STIM, Stim & Treat	PF	c	O	STAGE 2 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 17 BPM, 4300 PSI PUMP PRESSURE, 526 TBLS PUMPED. SET PLUG @ 18,840' MD, PERFS 18,821'-23', 18,783'-85', 18,745'-47', 18,707'-09' AND 18,669'-71'. POOH, VERIFIED GUNS FIRED.
21:00	23:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
23:00	01:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 2: WITH 4,000 GALS 15% HCL, 89,117 LBS 100 MESH SAND, 102,713 LBS 40/70 MESH SAND, 103,364 LBS 30/50 MESH. AVG RATE 76 BPM @ 7,664 PSI PUMP PRESS. FINAL 3,329 PSI, FRAC GRADIENT .83 LTR 8,359 BBLS.

**Well Name: UNIVERSITY 3-35 #102HB**

API/UWI No. 42461405920000	Surface Legal Location A-U47; SEC. 11; BLK. 4 CCS&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)

## Time Log

Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
01:00	05:00	4.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
05:00	06:00	1.00	39STIM, Stim & Treat	PF	c	O	RIH TO PERF STG 3 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		Tail Gate	EXPLOSIVES,CHEMICALS,PPE

## Logs

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

## Perforations

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

[illegible]

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL	Gal	12,077.0	12,077.0	0.0



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Report # 7.0, Report Date: 9/18/2017

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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)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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) 176,611	Cum Field Est To Date (Cost) 439,151
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Daily Readings			
Weather	Temperature (°F)	Road Condition	Rig Time (hr)

Short Report  
STAGE 3: Set plug @ 18,650' and perforate five 2' clusters from 18,479'-18,633'. Fraced with 3,990 gallons 15% HCL acid, 85,277 pounds 100 mesh sand, 103,261 pounds 40/70 mesh sand, and 103,415 pounds 30/50 mesh sand. Average rate 76 (BPM) @ 7,356 (PSI) pump pressure. Load to recover 7,781 barrels.

STAGE 4: Set plug @ 18,460' and perforate five 2' clusters from 18,289'-18,443'. Fraced with 3,990 gallons 15% HCL acid, 75,544 pounds 100 mesh sand, 93,135 pounds 40/70 mesh sand, and 99,963 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 7,571 (PSI) pump pressure. Load to recover 7,646 barrels.

STAGE 5: Set plug @ 18,270' and perforate five 2' clusters from 18,099'-18,253'.

Standing by to Frac stage 5 at time of report.

Current Status/OART STBY STG 5	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 4	Type Service	Company NICHOLS	Note PUMPS	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Service	Company COMPLETION EQUIPMENT RENTALS, INC	Note BACKSIDE	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Contractor	Company BEDROCK CONSULTING	Note C. ALDER/B.WILSON	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 1	Type Operator	Company HUNT OIL COMPANY	Note MARTY HAM	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 8	Type Service	Company SCHLUMBERGER	Note ELINE	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Service	Company PREMIER FLOW CONTROL	Note FLOWBACK	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 16	Type Service	Company SCHLUMBERGER	Note FRAC	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 4	Type Service	Company QUIK PIPE WATER TRANSFER	Note WATER TRANSFER	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 2	Type Contractor	Company ELY & ASSOCIATES	Note FRAC QA/QC	Pers Tot Hrs (hr)	Cum Pers Tot...
Count 4	Type Service	Company K D TIMMONS	Note FUEL	Pers Tot Hrs (hr)	Cum Pers Tot...

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
06:00	07:00	1.00	39STIM, Stim & Treat	PF	c	O	STAGE 3 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 17 BPM, 4,800 PSI PUMP PRESSURE, 546 TBBLs PUMPED. SET PLUG @ 18,650' MD, PERFS 18,631'-33', 18,593'-95', 18,555'-57', 18,517'-19' AND 18,479'-81'. POOH, VERIFIED GUNS FIRED.
07:00	08:00	1.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
08:00	10:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 3: WITH 3,990 GALS 15% HCL, 85,277 LBS 100 MESH SAND, 103,261 LBS 40/70 MESH SAND, 103,415 LBS 30/50 MESH. AVG RATE 76 BPM @ 7,356 PSI PUMP PRESS. FINAL 3,794 PSI, FRAC GRADIENT .89 LTR 7,781 BBLS.
10:00	19:30	9.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
19:30	22:30	3.00	39STIM, Stim & Treat	PF	c	O	STAGE 4 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 17 BPM, 4,800 PSI PUMP PRESSURE, 513 TBBLs PUMPED. SET PLUG @ 18,460' MD, PERFS 18,441'-43', 18,403'-05', 18,365'-67', 18,327'-29" AND 18,289'-91'. 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
22:30	23:00	0.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
23:00	02:00	3.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 4: WITH 3,990 GALS 15% HCL, 75,544 LBS 100 MESH SAND, 93,135 LBS 40/70 MESH SAND, 99,963 LBS 30/50 MESH. AVG RATE 82 BPM @ 7,571 PSI PUMP PRESS. FINAL 3,522 PSI, FRAC GRADIENT .85 LTR 7,646 BBLs.
02:00	04:30	2.50	39STIM, Stim & Treat	PF	c	O	STAGE 5 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 17 BPM, 4,300 PSI PUMP PRESSURE, 484 TBBLs PUMPED. SET PLUG @ 18,270' MD, PERFS 18,251'-53', 18,213'-15', 18,175'-77', 18,137'-39' AND 18,099'-101'. POOH, VERIFIED GUNS FIRED.
04:30	05:00	0.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
05:00	06:00	1.00	39STIM, Stim & Treat	TR	a	O	STBY TO FRAC STG 5, REPACKING FRAC PUMP.

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
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

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)

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	12,077.0	12,077.0	0.0