



Partner Completion and Workover

Report # 7.0, Report Date: 10/8/2017

Well Name: UNIVERSITY 3-35 #104HB

API/UWI No. 42461405810000	Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 824982	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 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBDT (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 53 STAGES

Contractor	Rig Number
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AFE Number DD.17.30781.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 175,660	Cum Field Est To Date (Cost) 839,836
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
STAGE 8: Fraced with 4,000 gallons 15% HCL acid, 87,426 pounds 100 mesh sand, 103,343 pounds 40/70 mesh sand, and 105,402 pounds 30/50 mesh sand. Average rate 82 (BPM) @ 7,017 (PSI) pump pressure. Load to recover 8,892 barrels.

STAGE 9: Set plug @ 17,512' and perforate five 2' clusters from 17,346'-17,495'. Fraced with 4,000 gallons 15% HCL acid, 84,464 pounds 100 mesh sand, 103,185 pounds 40/70 mesh sand, and 103,546 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,539 (PSI) pump pressure. Load to recover 7,329 barrels.

STAGE 10: Set plug @ 17,322' and perforate five 2' clusters from 17,151'-17,305'.

Fracing stage 10 at time of report.

Current Status/OART FRACING STG 10	24 Hour Forecast 24 HR FRAC OPS
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Daily Contacts

Job Contact DAVID FRANCIS, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, Consultant	Title Consultant	Phone Mobile
Job Contact CHASE ALDER, 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/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
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	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
07:30	10:00	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 8: WITH 4,000 GALS 15% HCL, 87,426 LBS 100 MESH SAND, 103,343 LBS 40/70 MESH SAND, 105,402 LBS 30/50 MESH. AVG RATE 82 BPM @ 7,017 PSI PUMP PRESS. FINAL 3,940 PSI, FRAC GRADIENT .901 LTR, 8,892 BBLs.
10:00	12:00	2.00	39STIM, Stim & Treat	TR	n	O	RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM. ONCE WE GOT OFF THE WELL INSPECTED GUNS. PLUG SET BUT NONE OF THE GUNS FIRED. SWITCHED RELEASE TOOLS, CHECK GUNS AND ALL EQUIPMENT AND RUN BACK IN THE HOLE TO PERFORATE STAGE 9.



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
12:00	14:00	2.00	39STIM, Stim & Treat	TR	n	O	(2ND RUN) RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM. ON DEPTH EVERYTHING SHOWED IT FIRED. ONCE WE GOT OUT OF THE HOLE INSPECTED GUNS. NONE OF THE GUNS FIRED. SWITCHED RELEASE TOOLS, GUNS, AND RUN BACK IN THE HOLE TO PERFORATE STAGE 9. ALL GUNS FIRED ON THIRD ATTEMPT. DETERMINED VOLTAGE SWITCH IN RELEASE TOOL WAS BAD.
14:00	18:00	4.00	39STIM, Stim & Treat	PF	c	O	STAGE 9 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,400 PSI PUMP PRESSURE, 402 TBBLs PUMPED. SET PLUG @ 17,512' MD, PERFS 17,493'-95', 17,455'-57', 17,417'-19', 17,379'-81' AND 17,346'-48'. POOH, VERIFIED GUNS FIRED.
18:00	20:30	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
20:30	22:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 9: WITH 4,000 GALS 15% HCL, 84,464 LBS 100 MESH SAND, 103,185 LBS 40/70 MESH SAND, 103,546 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,539 PSI PUMP PRESS. FINAL 4,162 PSI, FRAC GRADIENT .93 LTR, 7,329 BBLs.
22:30	01:30	3.00	39STIM, Stim & Treat	TR	n	O	WAIT TO COMPLETE WIRELINE OPERATIONS ON ADJACENT WELL.
01:30	04:00	2.50	39STIM, Stim & Treat	PF	c	O	STAGE 10 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 4,900 PSI PUMP PRESSURE, 410 TBBLs PUMPED. SET PLUG @ 17,322' MD, PERFS 17,303'-05', 17,265'-67', 17,227'-29', 17,189'-91' AND 17,151'-53'. POOH, VERIFIED GUNS FIRED.
04:00	06:00	2.00	39STIM, Stim & Treat	ST	b	O	FRACING STG 10 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	HIGH PRESSURE LINES, OVERHEAD LIFTING WITH CRANE, JOB FOCUS, LIFTING, PPE, EXPLOSIVES ON LOCATION, TRIP HAZARDS, EYES ON TASK

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
03:30	16,398.0	16,545.0		
19:00	16,581.0	16,735.0		
12:00	16,771.0	16,925.0		
06:00	16,961.0	17,112.0		
01:15	17,151.0	17,305.0		
10:30	17,346.0	17,495.0		
03:00	17,531.0	17,682.0		
21:15	17,721.0	17,875.0		
15:30	17,911.0	18,065.0		
10:15	18,101.0	18,255.0		
02:30	18,289.0	18,445.0		
16:00	18,481.0	18,635.0		
09:00	18,671.0	18,825.0		
00:30	18,861.0	19,015.0		
15:00	19,073.0			

Stimulations Summary		
Type	Subtype	Stim/Treat Company

Stimulation Intervals			
Interval Number	Type	Top (ftKB)	Btm (ftKB)



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Original KB Elevation (ft) 2,731.60	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBTD (All) (ftKB)	TD All (TVD) (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
05:00	Primary Single Stage	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
08:05	Top Out	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
06:30	Primary Single Stage	Casing	Intermediate Casing, 5,058.0ftKB	DOWELL SCHLUMBERGER
19:02	Primary Single Stage	Casing	Production Casing, 19,219.0ftKB	DOWELL SCHLUMBERGER

Job Supplies				
Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		35,762.0	35,762.0	0.0



Partner Completion and Workover

Report # 8.0, Report Date: 10/9/2017

Well Name: UNIVERSITY 3-35 #104HB

API/UWI No. 42461405810000	Surface Legal Location A-U47; SEC. 11; BLK 4; UL SURVEY	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 824982	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 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBDT (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective
COMPLETE WITH 53 STAGES

Contractor	Rig Number
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AFE Number DD.17.30781.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 319,995	Cum Field Est To Date (Cost) 1,159,831
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Daily Readings

Weather	Temperature (°F)	Road Condition	Rig Time (hr)
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Short Report
STAGE 10: Fraced with 4,000 gallons 15% HCL acid, 85,490 pounds 100 mesh sand, 103,159 pounds 40/70 mesh sand, and 103,850 pounds 30/50 mesh sand. Average rate 77 (BPM) @ 6,728 (PSI) pump pressure. Load to recover 7,795 barrels.

STAGE 11: Set plug @ 17,132' and perforate five 2' clusters from 16,961'-17,112'. Fraced with 4,000 gallons 15% HCL acid, 84,705 pounds 100 mesh sand, 104,295 pounds 40/70 mesh sand, and 107,361 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,591 (PSI) pump pressure. Load to recover 7,897 barrels.

STAGE 12: Set plug @ 16,942' and perforate five 2' clusters from 16,771'-16,925'. Fraced with 4,000 gallons 15% HCL acid, 88,176 pounds 100 mesh sand, 108,734 pounds 40/70 mesh sand, and 103,301 pounds 30/50 mesh sand. Average rate 81 (BPM) @ 6,658 (PSI) pump pressure. Load to recover 7,999 barrels.

STAGE 13: Set plug @ 16,758' and perforate five 2' clusters from 16,581'-16,735'. Fraced with 4,000 gallons 15% HCL acid, 83,599 pounds 100 mesh sand, 102,317 pounds 40/70 mesh sand, and 99,958 pounds 30/50 mesh sand. Average rate 80 (BPM) @ 6,640 (PSI) pump pressure. Load to recover 7,294 barrels.

STAGE 14: Set plug @ 16,562' and perforate five 2' clusters from 16,398'-16,545'.

Standby to frac stage 14 at time of report.

Current Status/OART STDBY TO FRAC STG 14	24 Hour Forecast 24 HR FRAC OPS
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Daily Contacts

Job Contact DAVID FRANCIS, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, Consultant	Title Consultant	Phone Mobile
Job Contact CHASE ALDER, 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/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
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 10: WITH 4,000 GALS 15% HCL, 85,490 LBS 100 MESH SAND, 103,159 LBS 40/70 MESH SAND, 103,850 LBS 30/50 MESH. AVG RATE 77 BPM @ 6,728 PSI PUMP PRESS. FINAL 4,014 PSI, FRAC GRADIENT .909 LTR, 7,795 BBLs.
06:30	07:30	1.00	39STIM, Stim & Treat	PF	c	O	STAGE 11 PERFS: RAN IN HOLE WITH 3-1/8" OD GUNS ON WIRELINE. PUMP DOWN GUNS AT 16 BPM, 5,100 PSI PUMP PRESSURE, 405 TBBLs PUMPED. SET PLUG @ 17,132' MD, PERFS 17,110'-12', 17,075'-77', 17,037'-39', 16,699'-701' AND 16,961'-63'. POOH, VERIFIED GUNS FIRED.
07:30	10:00	2.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.



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 7/19/2017 23:00	Large Rig Spud Date	Rig Release Date 8/7/2017 16:00	PBD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
10:00	12:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 11: WITH 4,000 GALS 15% HCL, 84,705 LBS 100 MESH SAND, 104,295 LBS 40/70 MESH SAND, 107,361 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,591 PSI PUMP PRESS. FINAL 3,993 PSI, FRAC GRADIENT .907 LTR, 7,897 BBLS.
12:00	14:00	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 16 BPM, 4,800 PSI PUMP PRESSURE, 396 TBBLs PUMPED. SET PLUG @ 16,942' MD, PERFS 16,923'-25', 16,885'-87', 16,847'-49', 16,809'-11' AND 16,771'-73'. POOH, VERIFIED GUNS FIRED.
14:00	16:00	2.00	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL.
16:00	18:30	2.50	39STIM, Stim & Treat	TR	a	O	SHUTDOWN FRAC DUE TO LEAK ON WELLHEAD. RE TORQUE ALL FLANGES ON WELLHEAD. TEST TO 9K PSI. TEST GOOD. RESUME FRAC OPERATIONS.
18:30	20:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 12: WITH 4,000 GALS 15% HCL, 88,176 LBS 100 MESH SAND, 10,8734 LBS 40/70 MESH SAND, 103,301 LBS 30/50 MESH. AVG RATE 81 BPM @ 6,658 PSI PUMP PRESS. FINAL 4,084 PSI, FRAC GRADIENT .92 LTR, 7,999 BBLS. NOTE: TRACER STAGE
20:30	23:00	2.50	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, 5,000 PSI PUMP PRESSURE, 372 TBBLs PUMPED. SET PLUG @ 16,758' MD, PERFS 16,733'-35', 16,695'-97', 16,657'-59', 16,622'-24' AND 16,581'-83'. POOH, VERIFIED GUNS FIRED.
23:00	01:30	2.50	39STIM, Stim & Treat	TR	a	O	WAIT ON SLB TO MAKE REPAIRS TO FR TRANSPORT BEFORE ABLE TO MOVE OUT AND MOVE IN NEW FR TRANSPORT.
01:30	03:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 13: WITH 4,000 GALS 15% HCL, 83,599 LBS 100 MESH SAND, 102,317 LBS 40/70 MESH SAND, 99,958 LBS 30/50 MESH. AVG RATE 80 BPM @ 6,640 PSI PUMP PRESS. FINAL 4,008 PSI, FRAC GRADIENT .91 LTR, 7,294 BBLS.
03:30	05:30	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, 4,800 PSI PUMP PRESSURE, 381 TBBLs PUMPED. SET PLUG @ 16,562' MD, PERFS 16,543'-45', 16,505'-07', 16,467'-69', 16,429'-31' AND 16,398'-400'. POOH, VERIFIED GUNS FIRED.
05:30	06:00	0.50	39STIM, Stim & Treat	DT	e	O	WAIT TO COMPLETE OPERATIONS ON ADJACENT WELL 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
03:30	16,398.0	16,545.0		
19:00	16,581.0	16,735.0		
12:00	16,771.0	16,925.0		
06:00	16,961.0	17,112.0		
01:15	17,151.0	17,305.0		
10:30	17,346.0	17,495.0		
03:00	17,531.0	17,682.0		
21:15	17,721.0	17,875.0		
15:30	17,911.0	18,065.0		
10:15	18,101.0	18,255.0		
02:30	18,289.0	18,445.0		
16:00	18,481.0	18,635.0		
09:00	18,671.0	18,825.0		
00:30	18,861.0	19,015.0		
15:00	19,073.0			



Partner Completion and Workover

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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
05:00	Primary Single Stage	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
08:05	Top Out	Casing	Surface Casing, 1,461.0ftKB	DOWELL SCHLUMBERGER
06:30	Primary Single Stage	Casing	Intermediate Casing, 5,058.0ftKB	DOWELL SCHLUMBERGER
19:02	Primary Single Stage	Casing	Production Casing, 19,219.0ftKB	DOWELL SCHLUMBERGER

Job Supplies

Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		35,762.0	35,762.0	0.0