



Partner Completion and Workover

Report # 13.0, Report Date: 11/12/2017

Well Name: UNIVERSITY 3-35 #105HB

API/UWI No. 42461406290000	Surface Legal Location A-U47, SEC. 11; BLK 4; UNIVERSITY LAN...	Field Name SPRABERRY (TREND AREA)	Well License/Perm... 827581	State/Province TEXAS	County UPTON	Well Config Horizontal
Original KB Elevation (ft) 2,713.40	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 8/10/2017 00:30	Large Rig Spud Date	Rig Release Date 8/29/2017 09:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective COMPLETE WITH 51 STAGE FRAC OPERATION
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Contractor HALLIBURTON	Rig Number RANGERS
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AFE Number DD.17.30830.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 154,076	Cum Field Est To Date (Cost) 880,087
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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, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 83 (BPM) @ 7,336 (PSI) pump pressure. Load to recover 7,946 barrels. STAGE 9: Set plug @ 17,346' and perforate five 2' clusters from 17,157'-17,327'. Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 84 (BPM) @ 7,323 (PSI) pump pressure. Load to recover 7,876 barrels. STAGE 10: Set plug @ 17,136' and perforate five 2' clusters from 16,960'-17,108'. Waiting to complete operations on adjacent wells.

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

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, 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	B.WILSON/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
8	Service	KLX ENERGY SERVICES	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
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	12:00	6.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
12:00	14:30	2.50	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 8: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 103,000 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 83 BPM @ 7,336 PSI PUMP PRESS. FINAL 3,916 PSI, FRAC GRADIENT .90 LTR 7,946 BBLS.
14:30	16:30	2.00	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, 4,600 PSI PUMP PRESSURE, 462 BBLS PUMPED. SET PLUG @ 17,346' MD, PERFS 17,325'-27', 17,283'-85', 17,243'-45', 17,199'-201', 17,157'-59' POOH, VERIFIED GUNS FIRED.
16:30	21:30	5.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
21:30	23:30	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 9: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 103,000 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 84 BPM @ 7,323 PSI PUMP PRESS. FINAL 4,061 PSI, FRAC GRADIENT .91 LTR 7,876 BBLS.
23:30	01:30	2.00	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, 4,300 PSI PUMP PRESSURE, 544 BBLS PUMPED. SET PLUG @ 17,136' MD, PERFS 17,106'-28', 17,075'-77', 17,036'-38', 16,994'-96', 16,960'-62' POOH, VERIFIED GUNS FIRED.



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Original KB Elevation (ft) 2,713.40	KB-Tubing Head Distance (ft)	Original Spud/Spud Rig Date 8/10/2017 00:30	Large Rig Spud Date	Rig Release Date 8/29/2017 09:00	PBTD (All) (ftKB)	TD All (TVD) (ftKB)

Time Log							
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	Operation Summary
01:30	06:00	4.50	39STIM, Stim & Treat	DT	e	O	WAITING 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
06:00	PPE/PRESSUREIZED LINES/JOB FOCUS/OVERHEAD LIFTING/PINCH POINTS	Tail Gate	

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

Perforations				
Time	Top (ftKB)	Btm (ftKB)	Current Status	Linked Zone
00:00	16,519.0	16,671.0		
10:30	16,724.0	16,907.0		
02:15	16,960.0	17,108.0		
14:30	17,157.0	17,327.0		
05:15	17,371.0	17,544.0		
14:00	17,596.0	17,793.0		
20:45	17,841.0	17,964.0		
17:30	18,003.0	18,209.0		
17:30	18,275.0	18,444.0		
06:00	18,488.0	18,669.0		
09:00	18,709.0	18,854.0		
15:00	18,900.0	19,023.0		
18:30	19,061.0	19,065.0		

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)
	Junk in Hole			

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

Cement				
Start Time	Des	Type	String	Cement Comp
21:28	Primary Single Stage	Casing	Surface Casing, 668.0ftKB	DOWELL SCHLUMBERGER
01:25	Top Out	Casing	Surface Casing, 668.0ftKB	DOWELL SCHLUMBERGER
18:18	Primary Single Stage	Casing	Intermediate Casing, 5,177.0ftKB	DOWELL SCHLUMBERGER
11:33	Primary Single Stage	Casing	Production Casing, 19,198.0ftKB	DOWELL SCHLUMBERGER

Job Supplies				
Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
FUEL		30,615.0	30,615.0	0.0



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Primary Job Type 08-Completion	Secondary Job Type Original Completion
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Objective COMPLETE WITH 51 STAGE FRAC OPERATION
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Contractor HALLIBURTON	Rig Number RANGERS
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AFE Number DD.17.30830.CAP.CMP	Total AFE + Supp Amount (Cost) 5,445,000.00	Daily Field Est Total (Cost) 152,299	Cum Field Est To Date (Cost) 1,032,386
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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, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 84 (BPM) @ 7,070 (PSI) pump pressure. Load to recover 7,820 barrels. STAGE 11: Set plug @ 16,929' and perforate five 2' clusters from 16,724'-16,907'. Fraced with 4,000 gallons 15% HCL acid, 88,250 pounds 100 mesh sand, 103,000 pounds 40/70 mesh sand and 103,000 pounds 30/50 mesh sand. Average rate 85 (BPM) @ 7,365 (PSI) pump pressure. Load to recover 8,112 barrels. STAGE 12: Set plug @ 16,694' and perforate five 2' clusters from 16,519'-16,671'. Waiting to complete operations on adjacent wells.

Current Status/OART STBY TO FRAC STG 12	24 Hour Forecast 24 HR FRAC OPS
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Daily Contacts

Job Contact MARTY HAM, Foreman	Title Foreman	Phone Mobile
Job Contact CODY MOONEY, 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	B.WILSON/C. MOONEY		
1	Operator	HUNT OIL COMPANY	DAVID FRANCIS		
8	Service	KLX ENERGY SERVICES	ELINE		
2	Service	PREMIER FLOW CONTROL	FLOWBACK		
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	DT	e	O	WAITING TO COMPLETE OPS ON ADJACENT WELL.
08:00	10:00	2.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 10: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 103,000 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 84 BPM @ 7,070 PSI PUMP PRESS. FINAL 3,937 PSI, FRAC GRADIENT .90 LTR 7,820 BBLs.
10:00	12:00	2.00	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, 5,600 PSI PUMP PRESSURE, 492 BBLs PUMPED. SET PLUG @ 16,929' MD, PERFS 16,905'-07', 16,859'-61', 16,819'-21', 16,766'-68', 16,724'-26' POOH, VERIFIED GUNS FIRED.
12:00	17:00	5.00	39STIM, Stim & Treat	DT	e	O	WAITING TO COMPLETE OPERATIONS ON ADJACENT WELL.
17:00	18:00	1.00	39STIM, Stim & Treat	ST	b	O	FRAC STAGE 11: WITH 4,000 GALS 15% HCL, 88,250 LBS 100 MESH SAND, 103,000 LBS 40/70 MESH SAND, 103,000 LBS 30/50 MESH. AVG RATE 84 BPM @ 7,323 PSI PUMP PRESS. FINAL 4,061 PSI, FRAC GRADIENT .91 LTR 7,876 BBLs.
18:00	21:30	3.50	39STIM, Stim & Treat	TR	a	O	SELECT TRUCK RAN OVER AND BUSTED WATER TRANSFER LINE. FRAC DOWN UNTIL LINE REPAIRED.
21:30	22:30	1.00	39STIM, Stim & Treat	ST	b	O	FINISHED FRAC ON STAGE 11



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Time Log							Operation Summary
Start Time	End Time	Dur (hr)	Phase	Ops Code	Sub Code	Time Code	
22:30	00:30	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 17.5 BPM, 5,000 PSI PUMP PRESSURE, 536 BBLS PUMPED. SET PLUG @ 16,694' MD, PERFS 16,669'-71', 16,634'-36'. 16,594'-96', 16,554'-56', 16,519'-21' POOH, VERIFIED GUNS FIRED.
00:30	06:00	5.50	39STIM, Stim & Treat	DT	e	O	WAITING 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?

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02:15	16,960.0	17,108.0		
14:30	17,157.0	17,327.0		
05:15	17,371.0	17,544.0		
14:00	17,596.0	17,793.0		
20:45	17,841.0	17,964.0		
17:30	18,003.0	18,209.0		
17:30	18,275.0	18,444.0		
06:00	18,488.0	18,669.0		
09:00	18,709.0	18,854.0		
15:00	18,900.0	19,023.0		
18:30	19,061.0	19,065.0		

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Type	Subtype	Stim/Treat Company

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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)
	Junk in Hole			

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

Cement				
Start Time	Des	Type	String	Cement Comp
21:28	Primary Single Stage	Casing	Surface Casing, 668.0ftKB	DOWELL SCHLUMBERGER
01:25	Top Out	Casing	Surface Casing, 668.0ftKB	DOWELL SCHLUMBERGER
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11:33	Primary Single Stage	Casing	Production Casing, 19,198.0ftKB	DOWELL SCHLUMBERGER

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Supply Item Description	Unit Label	Total Received	Total Consumed	Inventory On Location
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