



Daily Drilling - Detail (legal size)
Well Name: BJU G35 FED 14B-35-496

Report Start Date: 3/23/2022
Report #: 5, DFS: 2.56
Depth Progress: 219.00

API/UWI 05045243430000	Surface Legal Location SWNE SEC 35 T4S R96W	Permit Number	State CO
Original Spud Date 3/21/2022 16:30	Rig Release Date 3/24/2022 14:00	KB-Ground Distance (ft) 30.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 17.0	Road Condition Ice/Snow	Hole Condition Good

Operations at Report Time
Run parasite to 452' for top out

Operations Next Report Period
Set Cement Plugs, Prep and skid to B5 Slot and spud new well

Operations Summary
Drill f/ 2821' to 3041, Circulate, Trip out, L/d motor, R/d riser, R/u casing equipment, Run 9 5/8" casing to 2946', Parasite tubing parted, Landed casing at 2981', Attempt to circulate, Drop DV opening tool, Attempt to circulate, Pump cement job through dv, No cement to surface, Prep and run parasite for top out.

Remarks
No accidents, No spills, No inspections

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
571.9	41.0	466.0	0.0	0.0	425.0	571.9

Time Log							
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code 2	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	08:00	2.00	2.00	Drill Actual	2,821.0	3,040.0	Drill 14 3/4" Surface Hole f/ 2821' t/ 3040' 700 - 800 GPM, 35RPM, 25 - 28k WOB,
08:00	09:30	1.50	3.50	C&C	3,040.0	3,040.0	Circulate, pump 3 (20bbl) high vis sweeps, shakers clean.
09:30	11:00	1.50	5.00	Trips	3,040.0	3,040.0	Trip out from 3040' to bha.
11:00	12:00	1.00	6.00	Directional Work	3,040.0	3,040.0	Rack monel stand, lay down motor.
12:00	13:00	1.00	7.00	NU/ND BOP	3,040.0	3,040.0	Rig down surface riser and stow.
13:00	13:30	0.50	7.50	Lubricate Rig	3,040.0	3,040.0	Rig service
13:30	14:30	1.00	8.50	Run Casing and Cement	3,040.0	3,040.0	Rig up Surface Casing Running equipment, CRT/Spider, Casing tongs, Prep for Parasite.
14:30	00:00	9.50	18.00	Run Casing and Cement	3,040.0	3,040.0	Make up one joint of casing w/ shoe welded on, Float Collar, Two joints of casing, Checked floats - ok, Air Collar, plus 69 joints of 9-5/8", J-55, 36#, LT&C "New" Paragon casing, landed at 2981.1' with Cameron casing head. Note: At 2946' casing shoe depth, 2816' air collar depth, parasite appeared to have parted. Decision was made to land casing at 2981.1' and then proceed with P&A cement procedure. (Float collar at 2934.7', D.V. tool @ 899'). Ran 2818' of 1.9" Parasite tubing, before it parted. (Weatherford Float Shoe, Float Collar, and Multi Port Air Collar).
00:00	01:30	1.50	19.50	Run Casing and Cement	3,040.0	3,040.0	Blow down kelly hose, lay down landing joint. Rig up cement head.
01:30	02:30	1.00	20.50	C&C	3,040.0	3,040.0	Drop DV opening tool, pressure up with pump truck, tool opened w/ 559 psi. Pumped 1160 strokes with rig, no returns.
02:30	03:30	1.00	21.50	Cement Casing	3,040.0	3,040.0	Cement: Pump 1 stage through DV tool at 899', Pump 10 bbls FW, Pressure test to 3000, Pump 20 bbls spacer, Lead Cement - 172 bbls, 379 sx, 12.0 ppg, 2.55 yld, 14.9 MW -, Drop Closing tool & Displace w/ 67.17 bbls of FW, Slowing to 4 bbls/ minute last 20 bbls. FCP @ 4 bbl/ min 250 psi. Bump plug to 1952 psi. Floats held, 1/2 bbl back to truck. Had intermittent returns on cement. Then partial returns on displacement until 50 gone. No cement returned to surface. Will run parasite tubing to top out.
03:30	04:00	0.50	22.00	Cement Casing	3,040.0	3,040.0	Rig down cement head and adapter.
04:00	06:00	2.00	24.00	MISC	3,040.0	3,040.0	Prep rig floor and run parasite tubing to 452' for top out.

NPT Summary				
Unschd Type	Code 2	Sum of Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)
P&A	Run Casing and Cement	1.50	3,040.0	3,040.0
P&A	C&C	1.00	3,040.0	3,040.0
P&A	Cement Casing	1.50	3,040.0	3,040.0
P&A	MISC	2.00	3,040.0	3,040.0
Total		6.00		

Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
03:00	Water	3,041.0	9.40	37	12.0	11.000
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
4.000	17.000	20.000	13.6	2	8.4	7.6
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
12.5	0.0	92.4	675.000	40.000		0.0

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Loss	Formation	425.0	Mud Lost to Formation

Drill Bits							
Type	Size (in)	Date In	Date Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Avg ROP (ft/hr)
Mill Tooth	8 3/4						

AFE Number 01-22-1915	AFE+Supp Amt (Cost) 1,345,000
Daily Field Est Total (Cost) 273,723	Cum To Date (Cost) 596,508
Daily Mud Field Est (Cost) 1,914	Cum Mud Field Est (Cost) 5,696
Start Depth (ftKB) 2,821.0	End Depth (ftKB) 3,040.0
Start Depth (TVD) (ftKB) 2,715.4	End Depth (TVD) (ftKB)
Target Formation Williams Fork	Target Depth (ftKB) 11,887.0
Personnel Total Hours (hr)	Cum Pers Tot Hr (hr)
Time Log Total Hours (hr) 24.00	Problem Time Hours (hr) 0.00
Percent Problem Time (%) 0.00	Cum Prob Time (%) 0.00
Days LTI (days)	Days RI (days)
Boiler Hours (hr) 24	

Daily Contacts	
Job Contact	Mobile
Leonard Stomley, Drilling Supervisor	
Jarvis Abbey, Drilling Supervisor	

Personnel Log		
Type	Count	Tot Work Time (hr)

Safety Check Summary		
Type	Last Date	Next Date

Rigs	
Rig Name H&P	Rig Number 330
Rig Supervisor Ricky Pickering, Rig Manager	Phone Mobile

Mud Pumps		
# 1, Gardner-Denver, PZ-11		
Pump Rating (hp)	Rod Diameter (in)	Stroke (in)
1,600.0		11.00
Liner Size (in) 6 1/2	Vol/Stk OR (bbl/stk) 0.107	
P (psi)	Slow Spd	Strokes (sp... Eff (%)

Mud Pumps		
# 2, Gardner-Denver, PZ-11		
Pump Rating (hp)	Rod Diameter (in)	Stroke (in)
1,600.0		11.00
Liner Size (in) 6 1/2	Vol/Stk OR (bbl/stk) 0.107	
P (psi)	Slow Spd	Strokes (sp... Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
ALCORSOB AB3 - 55 LB BAG	110.50	0.0
ALUMINUM STEARATE - 25 LB BAG	69.50	0.0
AQUACAR GA 25 - 5 GAL PAIL	105.00	0.0
CAUSTIC SODA - 50 LB BAG	48.87	0.0
CAUSTIC SODA FLAKE - 55 LB BAG	48.87	0.0
CITRIC ACID - 50 LB BAG	63.46	0.0
DRILL FOAM PREMIUM - 5 GAL PAIL	79.95	0.0
DRILL THIN - 25 LB BAG	82.70	0.0
DRISPAC REGULAR POLYMER - 50 LB BAG	290.16	0.0
FIBER SEAL - 40 LB BAG	16.99	0.0
FOAM-OUT(TM) A - 5 GAL PAIL	101.11	4.0
FRICION-EZE(TM) HA - 275 GAL TOTE	4,325.00	0.0
ISO-DRILL(TM) - 5 GAL PAIL	57.63	0.0
LIME - 50 LB BAG	11.18	0.0



Drill Strings			
BHA #2, Steerable			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
3	14 3/4in, T606S, 5308436	1-2-BT-T-X-0-WT-TD	1.20
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
13/13/13/13/13/13/13/13		2,821.37	80
		BHA ROP (ft/hr)	78.3

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
Drill Pipe	71	5	4.28	2,239.26	IF	
HWDP	15	5	3.00	456.37	IF	
Bell Sub XO	1	6 1/2	3.25	2.91	IF	
NMDC	1	7.83	3.25	30.84	Reg	
Pony NMDC	1	7.94	3.25	12.34	Reg	
GAP Sub	1	7.96	3.38	5.35	Reg	
Drill Collar - Non Mag	1	7.83	3.25	26.77	Reg	
Pony NMDC	1	7.73	2.25	16.05	Reg	
Mud motor 9 5/8: 7/8, 4.0 stg, .16 rpg	1	9 5/8		29.98	Reg	

Drilling Parameters							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Int ROP (ft/hr)	Flow Rate (gpm)
	2,821.0	3,040.0	1,605.00	2.00	20.50	109.5	800
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (100...)	PU Str Wt (1000...)	SO Str Wt (1000...)	Drilling Torque	Off Bottom Torque
25	35	2,400.0	115	130	103	16,500.0	8,200.0
Parasite Air Vol (ft ³ /min)	Parasite Air Pressure (psi)		Drill Pipe Air Vol (ft ³ /min)		Drill Pipe Air Pressure (psi)		
0	0		0		0		

Hydraulic Calculations				
Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
176.0	1.0	213.9	377.1	16
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
57.6	157.0	57.6	52.3	
Error Unable to calculate ECD because unable to interpolate TVD				

Interval Problems						
Problem Type	Problem Detail	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
MICA (F) - 50 LB BAG	10.25	0.0
NOV FIBER(TM) C - 25 LB BAG	15.99	0.0
NOV FIBER(TM) F - 25 LB BAG	21.61	0.0
NOV GEL HY - 50 LB BAG	5.99	222.0
NOV LIG - 50 LB BAG	8.91	0.0
NOV PAC LV - 50 LB BAG	131.52	0.0
NOV PAC R - 50 LB BAG	194.65	0.0
NOV WATE - 2000 LB BULK	179.95	0.0
NOV XAN D - 25 LB BAG	147.92	0.0
SAPP - 50 LB BAG	95.31	1.0
SAPP STICKS - EACH	6.10	0.0
SAWDUST F - 40 LB BAG	8.48	10.0
SODAASH - 50 LB BAG	19.69	0.0
SODIUM BICARBONATE - 50 LB BAG	19.50	0.0
SOLTEX - 50 LB BAG	89.93	0.0
SUPER SWEEP - 15 LB BOX	103.90	0.0
TRAXX(TM) TC - 5 GAL PAIL	60.50	0.0
WALNUT SHELLS M - 50 LB BAG	10.61	0.0

Survey Data (last 5 records)			
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)

Last 5 Formations		
Formation Name	Prog Top MD (ftKB)	Drill Top MD (ftKB)

Last Casing String		
Casing Description	Run Date	Set Depth...
Surface	3/23/2022	2,981.1



Daily Drilling - Detail (legal size)
Well Name: BJU G35 FED 14B-35-496

Report Start Date: 3/24/2022
Report #: 6, DFS: 2.90
Depth Progress: 0.00

API/UWI 05045243430000	Surface Legal Location SWNE SEC 35 T4S R96W	Permit Number	State CO
Original Spud Date 3/21/2022 16:30	Rig Release Date 3/24/2022 14:00	KB-Ground Distance (ft) 30.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 42.0	Road Condition Ice/Snow	Hole Condition Good
Operations at Report Time Skid to FED 11B-35		Operations Next Report Period Skid to the FED 11-35-496	

Operations Summary
Pumped 308 bbls top out cement, no cement to surface, tripped in w/ dp to 879', pumped 5 bbl 12.5 cement on top of closing tool, pulled up to 189', pumped 12.8 bbl 12.5 ppg cement (150') at surface, prep to skid rig,

Remarks
No accidents, No spills, No inspections

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) -571.9	Balance (bbl) -571.9	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Time Log							
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code 2	Start Depth (ftKB)	End Depth (ftKB)	Com

06:00	09:30	3.50	3.50	Cement Casing	3,040.0	3,040.0	Pump top out cement. 308 bbls, 12.0 ppg, 2.23 yld, 12.6 Gps Mw. No returns to surface. Wash up lines, wait on cement from American Cementing 8 hours, Topped out with 45 bbls, and 5 bbls good cement to surface. 15.0 ppg, 1.29 yield, cement.
09:30	13:00	3.50	7.00	Cement Casing	3,040.0	3,040.0	Trip in dp to 879', Rig up swage and cement lines, pumped 5 bbls, 12.5 ppg cement, displaced with 10 bbls fw, trip out to 470', clear pipe with 5 bbls fw, tripped out to 157', pumped 10 bbls fw, 12.0 bbls, 12.5 ppg cement, displaced with 2.8 bbls fw. Tripped out, washed up lines to cellar. Wash up and rig down cement equipment.
13:00	14:00	1.00	8.00	MIRU	3,040.0	3,040.0	Prep and skid rig to the FED 11B-35-496, Released rig @ 14:00 hrs on 3/24/2022.

NPT Summary				
Unschd Type	Code 2	Sum of Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)
P&A	Cement Casing	7.00	3,040.0	3,040.0
P&A	MIRU	1.00	3,040.0	3,040.0
Total		8.00		

Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Vis (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype
Loss	Formation		Mud Lost to Formation

Drill Bits								
Type	Size (in)	Date In	Date Out	Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled This Job (ft)	Job Drill Hrs (hr)	Avg ROP (ft/hr)
Mill Tooth	8 3/4							

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
			BHA ROP (ft/hr)

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Drilling Parameters							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Int ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (100...)	PU Str Wt (1000...)	SO Str Wt (1000...)	Drilling Torque	Off Bottom Torque
Parasite Air Vol (ft³/min)	Parasite Air Pressure (psi)		Drill Pipe Air Vol (ft³/min)		Drill Pipe Air Pressure (psi)		

Hydraulic Calculations				
Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	% P @ bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Error				

Interval Problems						
Problem Type	Problem Detail	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

AFE Number 01-22-1915	AFE+Supp Amt (Cost) 1,345,000
Daily Field Est Total (Cost) 34,411	Cum To Date (Cost) 630,919
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 5,696
Start Depth (ftKB) 3,040.0	End Depth (ftKB) 3,040.0
Start Depth (TVD) (ftKB)	End Depth (TVD) (ftKB)
Target Formation Williams Fork	Target Depth (ftKB) 11,887.0
Personnel Total Hours (hr)	Cum Pers Tot Hr (hr)
Time Log Total Hours (hr) 8.00	Problem Time Hours (hr) 0.00
Percent Problem Time (%) 0.00	Cum Prob Time (%) 0.00
Days LTI (days)	Days RI (days)
Boiler Hours (hr) 8	

Daily Contacts	
Job Contact	Mobile
Leonard Stomley, Drilling Supervisor	
Jarvis Abbey, Drilling Supervisor	

Personnel Log		
Type	Count	Tot Work Time (hr)

Safety Check Summary		
Type	Last Date	Next Date

Rigs	
Rig Name H&P	Rig Number 330
Rig Supervisor Ricky Pickering, Rig Manager	Phone Mobile

Mud Pumps		
# 1, Gardner-Denver, PZ-11		
Pump Rating (hp) 1,600.0	Rod Diameter (in) 6 1/2	Stroke (in) 11.00
Liner Size (in) 6 1/2	Vol/Stk OR (bbl/stk) 0.107	
P (psi)	Slow Spd	Strokes (sp... Eff (%)

Mud Pumps		
# 2, Gardner-Denver, PZ-11		
Pump Rating (hp) 1,600.0	Rod Diameter (in) 6 1/2	Stroke (in) 11.00
Liner Size (in) 6 1/2	Vol/Stk OR (bbl/stk) 0.107	
P (psi)	Slow Spd	Strokes (sp... Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Survey Data (last 5 records)			
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)

Last 5 Formations		
Formation Name	Prog Top MD (ftKB)	Drill Top MD (ftKB)

Last Casing String		
Casing Description Surface	Run Date 3/23/2022	Set Depth... 2,981.1