



Casing

Liner

Well Name: PARA ET AL CAMERON 2H-03 HZ

API/UWI 302/H-03/6010-11730/0	Surface Legal Location 300/2H-03/6010-11730	Field Name Cameron Hills	License # 2073	State/Province NT	Well Configuration Type HORIZ
Ground Elevation (m) 770.20	Casing Flange Elevation (m) 772.20	KB-Ground Distance (m) 7.02	KB-Casing Flange Distance (m) 5.02	Spud Date 1/20/2011 23:45	Rig Release Date 3/21/2011 12:00

Wellbore

Wellbore Name Original Hole	Kick Off Depth (mKB) 1,270.00
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Section Des	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
	311.2	22.00	27.00	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
	311.2	22.00	28.77	1/20/2011	1/20/2011
Surface	311.0	22.00	361.00	1/20/2011	1/21/2011
Surface	311.0	22.00	361.00	1/20/2011	1/21/2011
Surface	311.0	22.00	361.00	1/20/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/22/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	311.0	27.00	361.00	1/21/2011	1/21/2011
	222.0	361.00	1,121.00	1/25/2011	1/29/2011
	222.0	361.00	1,424.00	1/25/2011	3/2/2011
	222.0	361.00	1,503.00	1/25/2011	3/3/2011
	222.0	361.00	1,534.00	1/25/2011	3/4/2011
	222.0	361.00	1,534.00	1/25/2011	3/4/2011
	222.0	361.00	1,534.00	1/25/2011	3/4/2011
	222.0	361.00	1,534.00	1/25/2011	3/4/2011
Intermediate 1	222.0	361.00	1,534.00	1/25/2011	3/4/2011
Intermediate 1	222.0	361.00	1,534.00	1/25/2011	3/4/2011
Intermediate 1	222.0	361.00	1,534.00	1/25/2011	3/4/2011
	156.0	1,534.00	1,767.64	3/8/2011	3/9/2011
	156.0	1,534.00	1,922.32	3/8/2011	3/10/2011
	156.0	1,534.00	2,088.20	3/8/2011	3/12/2011
Lateral	156.0	1,534.00	2,209.09	3/8/2011	3/13/2011
Lateral	156.0	1,534.00	2,333.73	3/8/2011	3/14/2011
Lateral	156.0	1,534.00	2,534.00	3/8/2011	3/16/2011

Wellhead

Type Casing Head	Install Date 1/23/2011	Service Sour	Comment ABB VETCO 279mmX20,700 X 244.5mmSOW PSL-1 WITH 2 SSO FLANGED OUTLETS (52mmX34.5mPa) Serial Number: (Bowl): SN-421261-01 CR21030357001 Casing Slip Assembly VGCS11 (279.4mm) x 7 (177.8mm) Manual PSL-1 SN-CW48917-59
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Wellhead Components

Des	Make	Model	SN	WP Top (kPa)
ABB Vetco FC-29 Bowl	Vetco	FC-29	421261-01	21,000

Casing

Casing Description Liner	Set Depth (mKB) 2,529.00	Run Date 3/19/2011	Set Tension (daN)
Centralizers None	Scratchers None		



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Ground Elevation (m) 770.20	Casing Flange Elevation (m) 772.20	KB-Ground Distance (m) 7.02	KB-Casing Flange Distance (m) 5.02	Spud Date 1/20/2011 23:45	Rig Release Date 3/21/2011 12:00

Casing Components

Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btn (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Marker Joint	114.3	17.263	L-80	LT&C	0	0.00	-4,262.73	-4,262.73	302			101.6
Marker Joint	114.3	17.263	L-80	LT&C	0	0.00	-4,262.73	-4,262.73	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	86	1,151.41	-4,262.73	-3,111.32	302			101.6
Marker Joint	114.3	17.263	L-80	LT&C	1	0.00	-3,111.32	-3,111.32	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	-3,111.32	-3,097.83	302			102.7
Marker Joint	114.3	17.263	L-80	LT&C	0	0.00	-3,097.83	-3,097.83	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	86	1,151.41	-3,097.83	-1,946.42	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	19	255.37	-1,946.42	-1,691.05	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	86	1,151.54	-1,691.05	-539.51	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	0	0.00	-539.51	-539.51	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	-539.51	-526.02	302			102.7
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	-526.02	-512.53	302			102.7
Drill Pipe 68 Joints	114.3	17.263	L-80	LT&C	1	640.38	-512.53	127.85	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	19	295.37	127.85	383.22	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	19	255.36	383.22	638.58	302			101.6
HWDP 60 Joints	114.3	17.263	L-80	LT&C	1	560.34	638.58	1,198.92	302			101.6
Drill Pipe 32 Joints	114.3	17.263	L-80	LT&C	1	303.96	1,198.92	1,502.88	302			101.6
4"FH x 3 1/2IF X/O	114.3	17.263	L-80	LT&C	1	0.44	1,502.88	1,503.32	302			101.6
4" FH Handling Pup	114.3	17.263	L-80	LT&C	1	1.42	1,503.32	1,504.74	302			101.6
Centralizer	114.3	17.263	L-80	LT&C	1	0.51	1,504.74	1,505.25	302			101.6
Setting Tool	114.3	17.263	L-80	LT&C	1	1.55	1,505.25	1,506.80	302			101.6
Liner Hanger Packer	114.3	17.263	L-80	LT&C	1	1.75	1,506.80	1,508.55	302			101.6
Acme x LTC X/O	114.3	17.263	L-80	LT&C	1	0.31	1,508.55	1,508.86	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,508.86	1,509.80	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	3	40.46	1,509.80	1,550.26	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	1,550.26	1,552.11	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	1,552.11	1,553.70	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,553.70	1,556.49	302			101.6
Seat Assembly - 2.375"	114.3	17.263	L-80	LT&C	1	0.42	1,556.49	1,556.91	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,556.91	1,557.85	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	1,557.85	1,584.83	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,584.83	1,585.11	302			101.6
Casing Joints - Pup	114.3	17.263	L-80	LT&C	1	2.82	1,585.11	1,587.93	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	1,587.93	1,601.42	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,601.42	1,601.70	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.42	1,601.70	1,615.12	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,615.12	1,615.40	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.51	1,615.40	1,628.91	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,628.91	1,629.19	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	1,629.19	1,642.68	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	1,642.68	1,644.53	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	1,644.53	1,645.13	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,645.13	1,647.92	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	1,647.92	1,649.51	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,649.51	1,652.30	302			101.6
Seat Assembly - 2.25"	114.3	17.263	L-80	LT&C	1	0.42	1,652.30	1,652.72	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,652.72	1,653.66	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.97	1,653.66	1,680.63	302			101.6



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Ground Elevation (m) 770.20	Casing Flange Elevation (m) 772.20	KB-Ground Distance (m) 7.02	KB-Casing Flange Distance (m) 5.02	Spud Date 1/20/2011 23:45	Rig Release Date 3/21/2011 12:00

Casing Components

Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btn (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,680.63	1,680.91	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	11.13	1,680.91	1,692.04	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,692.04	1,692.32	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	1,692.32	1,719.30	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,719.30	1,719.58	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,719.58	1,733.08	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,733.08	1,733.36	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.51	1,733.36	1,746.87	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	1,746.87	1,748.72	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	1,748.72	1,749.32	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,749.32	1,752.11	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	1,752.11	1,753.70	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,753.70	1,756.49	302			101.6
Seat Assembly - 2.125"	114.3	17.263	L-80	LT&C	1	0.42	1,756.49	1,756.91	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,756.91	1,757.85	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.99	1,757.85	1,784.84	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,784.84	1,785.12	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	1,785.12	1,798.61	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,798.61	1,798.89	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.16	1,798.89	1,825.05	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,825.05	1,825.33	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	12.23	1,825.33	1,837.56	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,837.56	1,837.84	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,837.84	1,851.34	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	1,851.34	1,853.19	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	1,853.19	1,853.79	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,853.79	1,856.58	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	1,856.58	1,858.17	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,858.17	1,860.96	302			101.6
Seat Assembly - 2.00"	114.3	17.263	L-80	LT&C	1	0.42	1,860.96	1,861.38	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,861.38	1,862.32	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.87	1,862.32	1,889.19	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,889.19	1,889.47	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,889.47	1,902.97	302			101.6
Jet Sub 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,902.97	1,903.25	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,903.25	1,916.75	302			101.6
Jet Sub 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,916.75	1,917.03	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,917.03	1,930.53	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,930.53	1,930.81	302			101.6
Casing Joints - Pup	114.3	17.263	L-80	LT&C	1	2.86	1,930.81	1,933.67	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	1,933.67	1,935.52	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	1,935.52	1,936.12	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,936.12	1,938.91	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	1,938.91	1,940.50	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	1,940.50	1,943.29	302			101.6
Seat Assembly - 1.875"	114.3	17.263	L-80	LT&C	1	0.42	1,943.29	1,943.71	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	1,943.71	1,944.65	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	25.74	1,944.65	1,970.39	302			101.6



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Casing Components

Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,970.39	1,970.67	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	1,970.67	1,984.17	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	1,984.17	1,984.45	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.99	1,984.45	2,011.44	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	2,011.44	2,011.72	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.99	2,011.72	2,038.71	302			101.6
Jet Sub - 1.00"	114.3	17.263	L-80	LT&C	1	0.28	2,038.71	2,038.99	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	12.43	2,038.99	2,051.42	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,051.42	2,053.27	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	2,053.27	2,053.87	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,053.87	2,056.66	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	2,056.66	2,058.25	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,058.25	2,061.04	302			101.6
Seat Assembly - 1.750"	114.3	17.263	L-80	LT&C	1	0.42	2,061.04	2,061.46	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,061.46	2,062.40	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	2,062.40	2,089.38	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,089.38	2,089.66	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	2,089.66	2,116.64	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,116.64	2,116.92	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.97	2,116.92	2,143.89	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,143.89	2,144.17	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	2,144.17	2,171.15	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,171.15	2,171.43	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	2,171.43	2,184.92	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,184.92	2,186.77	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	2,186.77	2,187.37	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,187.37	2,190.16	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	2,190.16	2,191.75	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,191.75	2,194.54	302			101.6
Seat Assembly - 1.625"	114.3	17.263	L-80	LT&C	1	0.42	2,194.54	2,194.96	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,194.96	2,195.90	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.99	2,195.90	2,222.89	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,222.89	2,223.17	302			102.7
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	2,223.17	2,236.66	302			102.7
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	2,236.66	2,250.16	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,250.16	2,250.44	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.97	2,250.44	2,277.41	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,277.41	2,277.69	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.49	2,277.69	2,291.18	302			101.6
Jet Sub - 875"	114.3	17.263	L-80	LT&C	1	0.28	2,291.18	2,291.46	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	27.00	2,291.46	2,318.46	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,318.46	2,320.31	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	2,320.31	2,320.91	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,320.91	2,323.70	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	2,323.70	2,325.29	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,325.29	2,328.08	302			101.6
Seat Assembly - 1.50"	114.3	17.263	L-80	LT&C	1	0.42	2,328.08	2,328.50	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,328.50	2,329.44	302			101.6



Casing

Liner

Well Name: PARA ET AL CAMERON 2H-03 HZ

API/UWI 302/H-03/6010-11730/0	Surface Legal Location 300/2H-03/6010-11730	Field Name Cameron Hills	License # 2073	State/Province NT	Well Configuration Type HORIZ
Ground Elevation (m) 770.20	Casing Flange Elevation (m) 772.20	KB-Ground Distance (m) 7.02	KB-Casing Flange Distance (m) 5.02	Spud Date 1/20/2011 23:45	Rig Release Date 3/21/2011 12:00

Casing Components

Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN-m)	Class	Max OD (mm)	ID (mm)
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	2,329.44	2,356.42	302			101.6
Jet Sub - 750"	114.3	17.263	L-80	LT&C	1	0.33	2,356.42	2,356.75	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.89	2,356.75	2,383.64	302			101.6
Jet Sub - 750"	114.3	17.263	L-80	LT&C	1	0.33	2,383.64	2,383.97	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.96	2,383.97	2,410.93	302			101.6
Jet Sub - 750"	114.3	17.263	L-80	LT&C	1	0.33	2,410.93	2,411.26	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.99	2,411.26	2,438.25	302			101.6
Jet Sub - 750"	114.3	17.263	L-80	LT&C	1	0.33	2,438.25	2,438.58	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.48	2,438.58	2,452.06	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,452.06	2,453.91	302			101.6
Catcher Sub	114.3	17.263	L-80	LT&C	1	0.60	2,453.91	2,454.51	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	2	2.79	2,454.51	2,457.30	302			101.6
Rockseal Packer	114.3	17.263	L-80	LT&C	1	1.59	2,457.30	2,458.89	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,458.89	2,459.83	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	13.50	2,459.83	2,473.33	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,473.33	2,475.18	302			101.6
Anchor Packer	114.3	17.263	L-80	LT&C	1	2.15	2,475.18	2,477.33	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,477.33	2,478.27	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	1	12.63	2,478.27	2,490.90	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,490.90	2,492.75	302			101.6
DEH Frac Port	114.3	17.263	L-80	LT&C	1	1.32	2,492.75	2,494.07	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	0.94	2,494.07	2,495.01	302			101.6
Casing Joints	114.3	17.263	L-80	LT&C	2	26.98	2,495.01	2,521.99	302			101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,521.99	2,523.84				101.6
Toe Circ Sub	114.3	17.263	L-80	LT&C	1	0.83	2,523.84	2,524.67				101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,524.67	2,526.52				101.6
Float Cllar	114.3		L-80	LT&C	1	0.40	2,526.52	2,526.92				101.6
Pup Joint	114.3	17.263	L-80	LT&C	1	1.85	2,526.92	2,528.77				101.6
Bullet Nose Guide	114.3		L-80	LT&C	1	0.23	2,528.77	2,529.00				101.6