

38-025-40898

HOBBS OGD

DEC 26 2012



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Weatherford®

Drilling Services

Proposal



THISTLE UNIT 33 STATE 43H

LEA COUNTY, NM

WELL FILE: **PLAN 1**

DECEMBER 18, 2012

Weatherford International, Ltd.
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JAN. 08 2013

devon

Thistle Unit 33 State 43H
Lea County, New Mexico

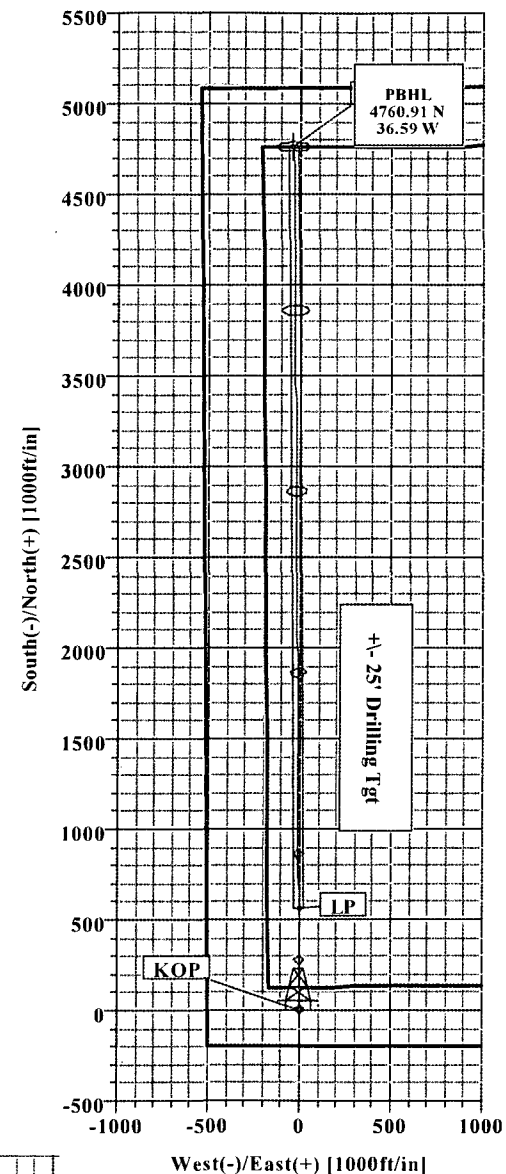
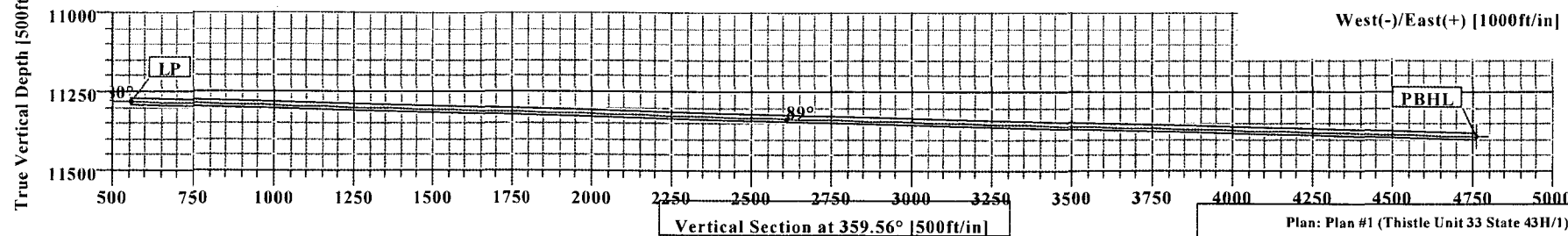
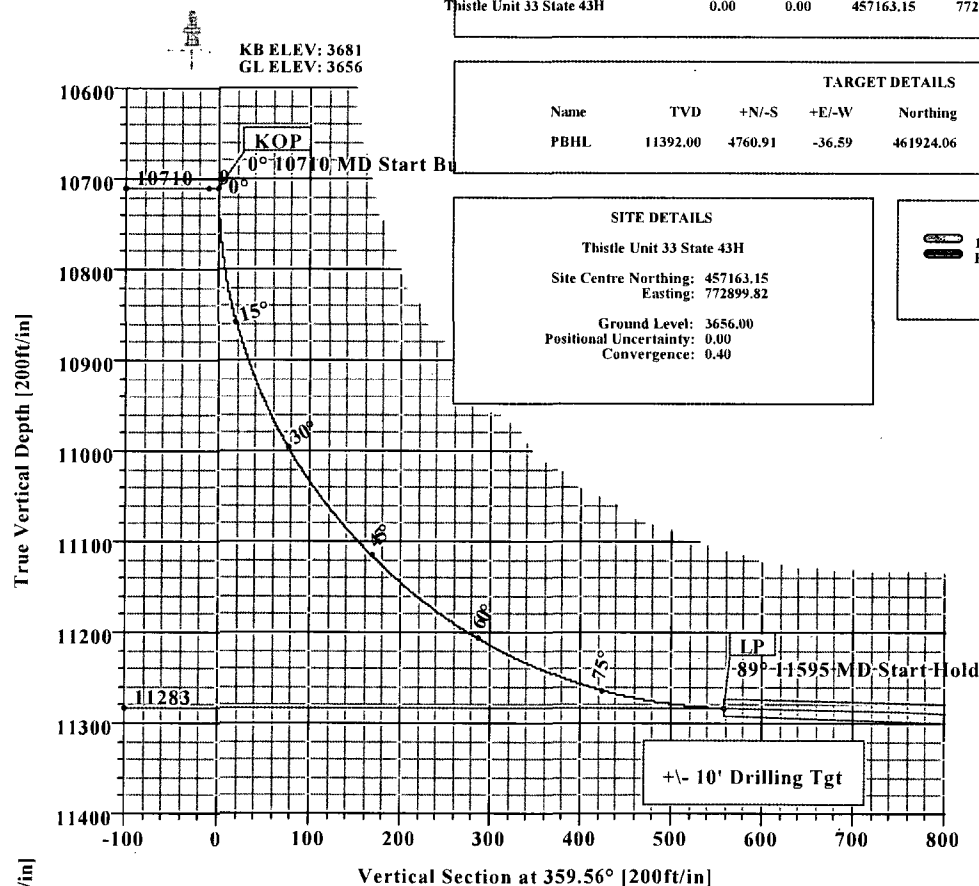
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.56	0.00	0.00	0.00	0.00	0.00	0.00	
2	10710.23	0.00	359.56	10710.23	0.00	0.00	0.00	0.00	0.00	
3	11595.37	88.51	359.56	11283.00	558.09	-4.29	10.00	359.56	558.10	
4	15799.73	88.51	359.56	11392.00	4760.91	-36.59	0.00	0.00	4761.05	PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Thistle Unit 33 State 43H	0.00	0.00	457163.15	772899.82	32°15'16.537N	103°35'03.359W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11392.00	4760.91	-36.59	461924.06	772863.23	Rectangle (4204x50)

SITE DETAILS	
Thistle Unit 33 State 43H	
Site Centre Northing:	457163.15
Easting:	772899.82
Ground Level:	3656.00
Positional Uncertainty:	0.00
Convergence:	0.40

LEGEND	
	1
	Plan #1



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Wft Plan Report X Y's.

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Company: Devon Energy		Date: 12/18/2012	Time: 12:11:05	Page: 1
Field: Lea County, New Mexico (NAD 83)		Co-ordinate(NE) Reference: Well: Thistle Unit 33 State 43H		
Site: Thistle Unit 33 State 43H		Vertical (TVD) Reference: SITE 3681.0		
Well: Thistle Unit 33 State 43H		Section (VS) Reference: Well (0.00N,0.00E,359.56Azi)		
Wellpath: 1		Survey Calculation Method: Minimum Curvature Db: Sybase		

Plan: Plan #1	Date Composed: 12/18/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Site: Thistle Unit 33 State 43H		
Site Position:	Northing: 457163.15 ft	Latitude: 32 15 16.537 N
From: Map	Easting: 772899.82 ft	Longitude: 103 35 3.359 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3656.00 ft		Grid Convergence: 0.40 deg

Well: Thistle Unit 33 State 43H		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 457163.15 ft	Latitude: 32 15 16.537 N	
+E/-W 0.00 ft	Easting: 772899.82 ft	Longitude: 103 35 3.359 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3681.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 5/15/2013		Above System Datum: Mean Sea Level	
Field Strength: 48467 nT		Declination: 7.36 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.17 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	359.56

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	359.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10710.23	0.00	359.56	10710.23	0.00	0.00	0.00	0.00	0.00	0.00	
11595.37	88.51	359.56	11283.00	558.09	-4.29	10.00	10.00	0.00	359.56	
15799.73	88.51	359.56	11392.00	4760.91	-36.59	0.00	0.00	0.00	0.00	PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
10700.00	0.00	359.56	10700.00	0.00	0.00	0.00	0.00	457163.15	772899.82	
10710.23	0.00	359.56	10710.23	0.00	0.00	0.00	0.00	457163.15	772899.82	KOP
10750.00	3.98	359.56	10749.97	1.38	-0.01	1.38	10.00	457164.53	772899.81	
10800.00	8.98	359.56	10799.63	7.02	-0.05	7.02	10.00	457170.17	772899.77	
10850.00	13.98	359.56	10848.62	16.96	-0.13	16.96	10.00	457180.11	772899.69	
10900.00	18.98	359.56	10896.55	31.14	-0.24	31.14	10.00	457194.29	772899.58	
10950.00	23.98	359.56	10943.06	49.44	-0.38	49.44	10.00	457212.59	772899.44	
11000.00	28.98	359.56	10987.80	71.72	-0.55	71.73	10.00	457234.87	772899.27	
11050.00	33.98	359.56	11030.43	97.82	-0.75	97.83	10.00	457260.97	772899.07	
11100.00	38.98	359.56	11070.63	127.54	-0.98	127.54	10.00	457290.69	772898.84	
11150.00	43.98	359.56	11108.07	160.64	-1.23	160.65	10.00	457323.79	772898.59	
11200.00	48.98	359.56	11142.50	196.88	-1.51	196.89	10.00	457360.03	772898.31	
11250.00	53.98	359.56	11173.63	235.99	-1.81	236.00	10.00	457399.14	772898.01	
11300.00	58.98	359.56	11201.23	277.66	-2.13	277.67	10.00	457440.81	772897.69	
11350.00	63.98	359.56	11225.10	321.57	-2.47	321.58	10.00	457484.72	772897.35	
11400.00	68.98	359.56	11245.05	367.40	-2.82	367.41	10.00	457530.55	772897.00	
11450.00	73.98	359.56	11260.93	414.80	-3.19	414.81	10.00	457577.95	772896.63	
11500.00	78.98	359.56	11272.62	463.39	-3.56	463.41	10.00	457626.54	772896.26	
11550.00	83.98	359.56	11280.02	512.82	-3.94	512.84	10.00	457675.97	772895.88	
11595.37	88.51	359.56	11283.00	558.09	-4.29	558.10	10.00	457721.24	772895.53	LP
11600.00	88.51	359.56	11283.12	562.71	-4.32	562.73	0.00	457725.86	772895.50	
11700.00	88.51	359.56	11285.71	662.67	-5.09	662.69	0.00	457825.82	772894.73	
11800.00	88.51	359.56	11288.30	762.64	-5.86	762.66	0.00	457925.79	772893.96	



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Wft Plan Report X Y's.



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit 33 State 43H
Well: Thistle Unit 33 State 43H
Wellpath: 1

Date: 12/18/2012 Time: 12:11:05 Page: 2
Co-ordinate(NE) Reference: Well: Thistle Unit 33 State 43H
Vertical (TVD) Reference: SITE 3681.0
Section (VS) Reference: Well (0.00N,0.00E,359.56Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
11900.00	88.51	359.56	11290.89	862.60	-6.63	862.63	0.00	458025.75	772893.19	
12000.00	88.51	359.56	11293.49	962.57	-7.40	962.59	0.00	458125.72	772892.42	
12100.00	88.51	359.56	11296.08	1062.53	-8.17	1062.56	0.00	458225.68	772891.65	
12200.00	88.51	359.56	11298.67	1162.49	-8.93	1162.53	0.00	458325.64	772890.89	
12300.00	88.51	359.56	11301.26	1262.46	-9.70	1262.49	0.00	458425.61	772890.12	
12400.00	88.51	359.56	11303.86	1362.42	-10.47	1362.46	0.00	458525.57	772889.35	
12500.00	88.51	359.56	11306.45	1462.38	-11.24	1462.43	0.00	458625.53	772888.58	
12600.00	88.51	359.56	11309.04	1562.35	-12.01	1562.39	0.00	458725.50	772887.81	
12700.00	88.51	359.56	11311.63	1662.31	-12.78	1662.36	0.00	458825.46	772887.04	
12800.00	88.51	359.56	11314.23	1762.27	-13.54	1762.32	0.00	458925.42	772886.28	
12900.00	88.51	359.56	11316.82	1862.24	-14.31	1862.29	0.00	459025.39	772885.51	
13000.00	88.51	359.56	11319.41	1962.20	-15.08	1962.26	0.00	459125.35	772884.74	
13100.00	88.51	359.56	11322.01	2062.16	-15.85	2062.22	0.00	459225.31	772883.97	
13200.00	88.51	359.56	11324.60	2162.13	-16.62	2162.19	0.00	459325.28	772883.20	
13300.00	88.51	359.56	11327.19	2262.09	-17.39	2262.16	0.00	459425.24	772882.43	
13400.00	88.51	359.56	11329.78	2362.05	-18.15	2362.12	0.00	459525.20	772881.67	
13500.00	88.51	359.56	11332.38	2462.02	-18.92	2462.09	0.00	459625.17	772880.90	
13600.00	88.51	359.56	11334.97	2561.98	-19.69	2562.06	0.00	459725.13	772880.13	
13700.00	88.51	359.56	11337.56	2661.94	-20.46	2662.02	0.00	459825.09	772879.36	
13800.00	88.51	359.56	11340.15	2761.91	-21.23	2761.99	0.00	459925.06	772878.59	
13900.00	88.51	359.56	11342.75	2861.87	-21.99	2861.95	0.00	460025.02	772877.83	
14000.00	88.51	359.56	11345.34	2961.83	-22.76	2961.92	0.00	460124.98	772877.06	
14100.00	88.51	359.56	11347.93	3061.80	-23.53	3061.89	0.00	460224.95	772876.29	
14200.00	88.51	359.56	11350.52	3161.76	-24.30	3161.85	0.00	460324.91	772875.52	
14300.00	88.51	359.56	11353.12	3261.72	-25.07	3261.82	0.00	460424.87	772874.75	
14400.00	88.51	359.56	11355.71	3361.69	-25.84	3361.79	0.00	460524.84	772873.98	
14500.00	88.51	359.56	11358.30	3461.65	-26.60	3461.75	0.00	460624.80	772873.22	
14600.00	88.51	359.56	11360.89	3561.61	-27.37	3561.72	0.00	460724.76	772872.45	
14700.00	88.51	359.56	11363.49	3661.58	-28.14	3661.69	0.00	460824.73	772871.68	
14800.00	88.51	359.56	11366.08	3761.54	-28.91	3761.65	0.00	460924.69	772870.91	
14900.00	88.51	359.56	11368.67	3861.50	-29.68	3861.62	0.00	461024.65	772870.14	
15000.00	88.51	359.56	11371.27	3961.47	-30.45	3961.58	0.00	461124.62	772869.37	
15100.00	88.51	359.56	11373.86	4061.43	-31.21	4061.55	0.00	461224.58	772868.61	
15200.00	88.51	359.56	11376.45	4161.39	-31.98	4161.52	0.00	461324.54	772867.84	
15300.00	88.51	359.56	11379.04	4261.36	-32.75	4261.48	0.00	461424.51	772867.07	
15400.00	88.51	359.56	11381.64	4361.32	-33.52	4361.45	0.00	461524.47	772866.30	
15500.00	88.51	359.56	11384.23	4461.29	-34.29	4461.42	0.00	461624.44	772865.53	
15600.00	88.51	359.56	11386.82	4561.25	-35.06	4561.38	0.00	461724.40	772864.76	
15700.00	88.51	359.56	11389.41	4661.21	-35.82	4661.35	0.00	461824.36	772864.00	
15799.73	88.51	359.56	11392.00	4760.91	-36.59	4761.05	0.00	461924.06	772863.23	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL -Rectangle (4204x50)	1.49	359.56	11392.00	4760.91	-36.59	461924.06	772863.23	32 16 3.649 N	103 35 3.398 W



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Wft Plan Report X Y's.



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit 33 State 43H
Well: Thistle Unit 33 State 43H
Wellpath: 1

Date: 12/18/2012 Time: 12:11:05 Page: 3
Co-ordinate(NE) Reference: Well: Thistle Unit 33 State 43H
Vertical (TVD) Reference: SITE 3681.0
Section (VS) Reference: Well (0.00N,0.00E,359.56Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
10710.23	10710.23	KOP
11595.37	11283.00	LP
15799.73	11392.00	PBHL

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: December 18, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Thistle Unit 33 State 43H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 457163.150 USFT	Latitude 32.2545960 DEG
East/West 772899.820 USFT	Longitude -103.5842613 DEG
Grid Convergence: .40°	
Total Correction: +7.09°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.25460° N	32° 15 min 16.546 sec
Longitude =	103.58426° W	103° 35 min 3.341 sec

Magnetic Declination =	7.49°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6557
Local Field Strength =	48463 nT	Magnetic Vector X = 23932 nT
Magnetic Dip =	60.13°	Magnetic Vector Y = 3145 nT
Magnetic Model =	bggm2012	Magnetic Vector Z = 42024 nT
Spud Date =	Mar 15, 2013	Magnetic Vector H = 24138 nT

Signed: _____

Date: _____



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses provided the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

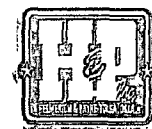
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

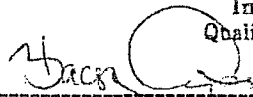
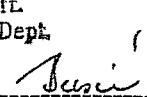
ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

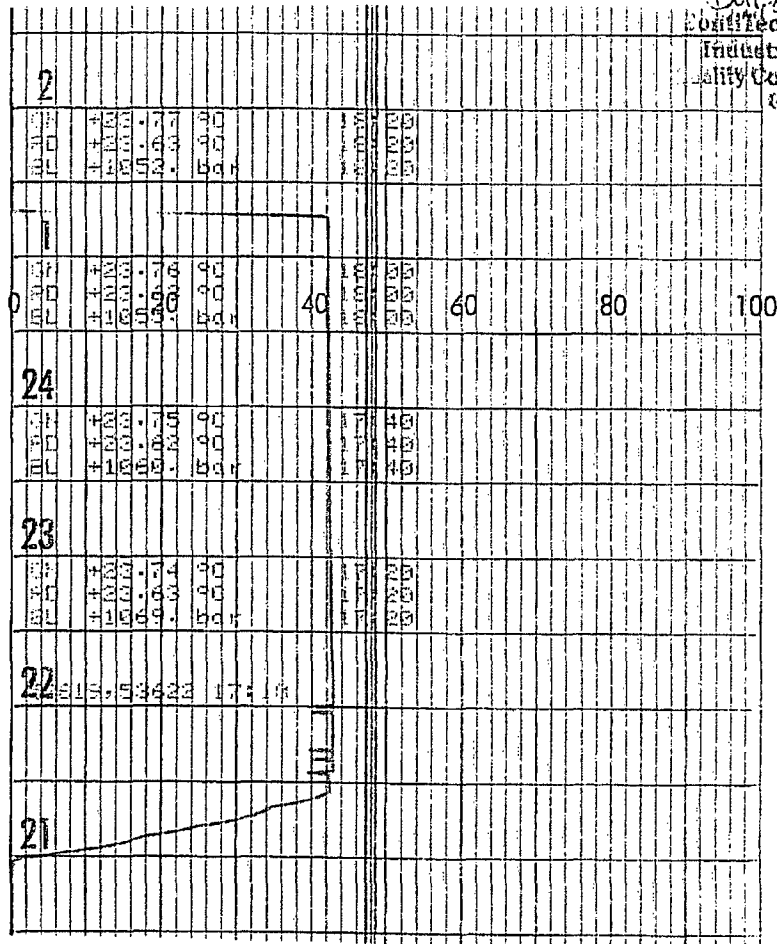
Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



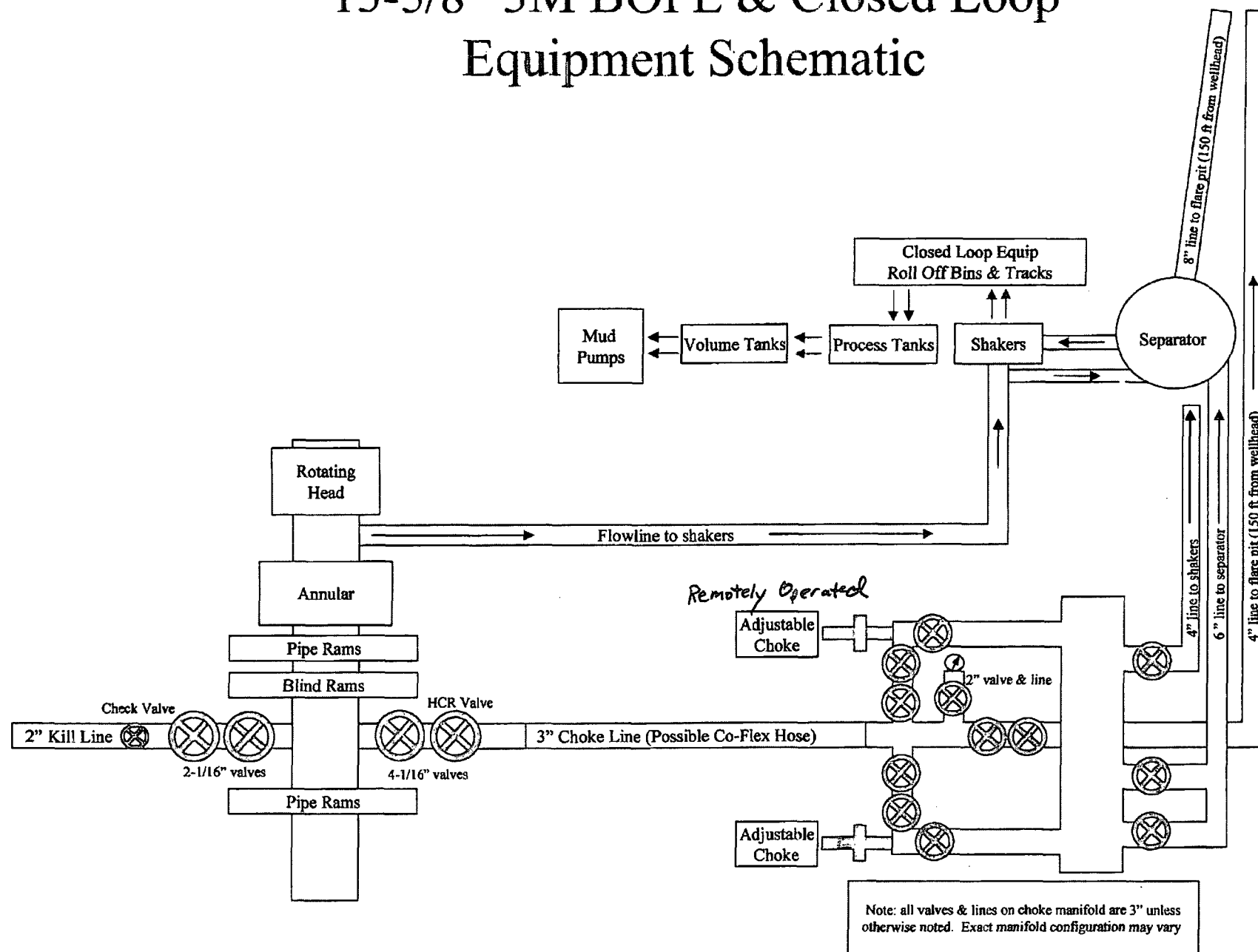
QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 002808	
CONTITECH ORDER N°: 426127		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 53622		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" Flange end		5503 2029		AISI 4130 AISI 4130	
				Heat N° N1590P 27566	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are flawless				Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU					
Date: 25. August. 2008		Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept.  	

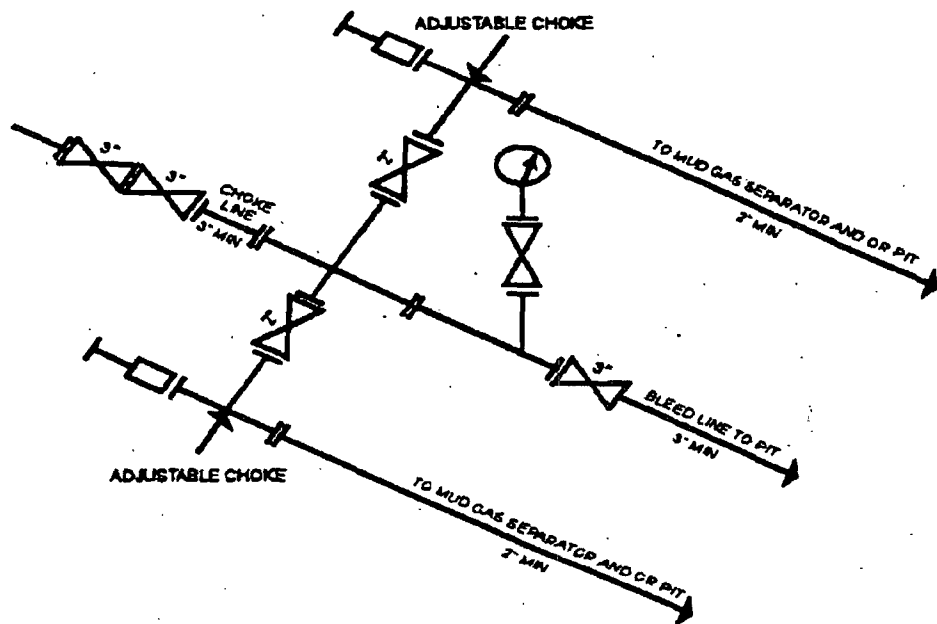
HARTMANN &



ContiTech Rubber
 Industrial Kft.
 Quality Control Dept.
 20

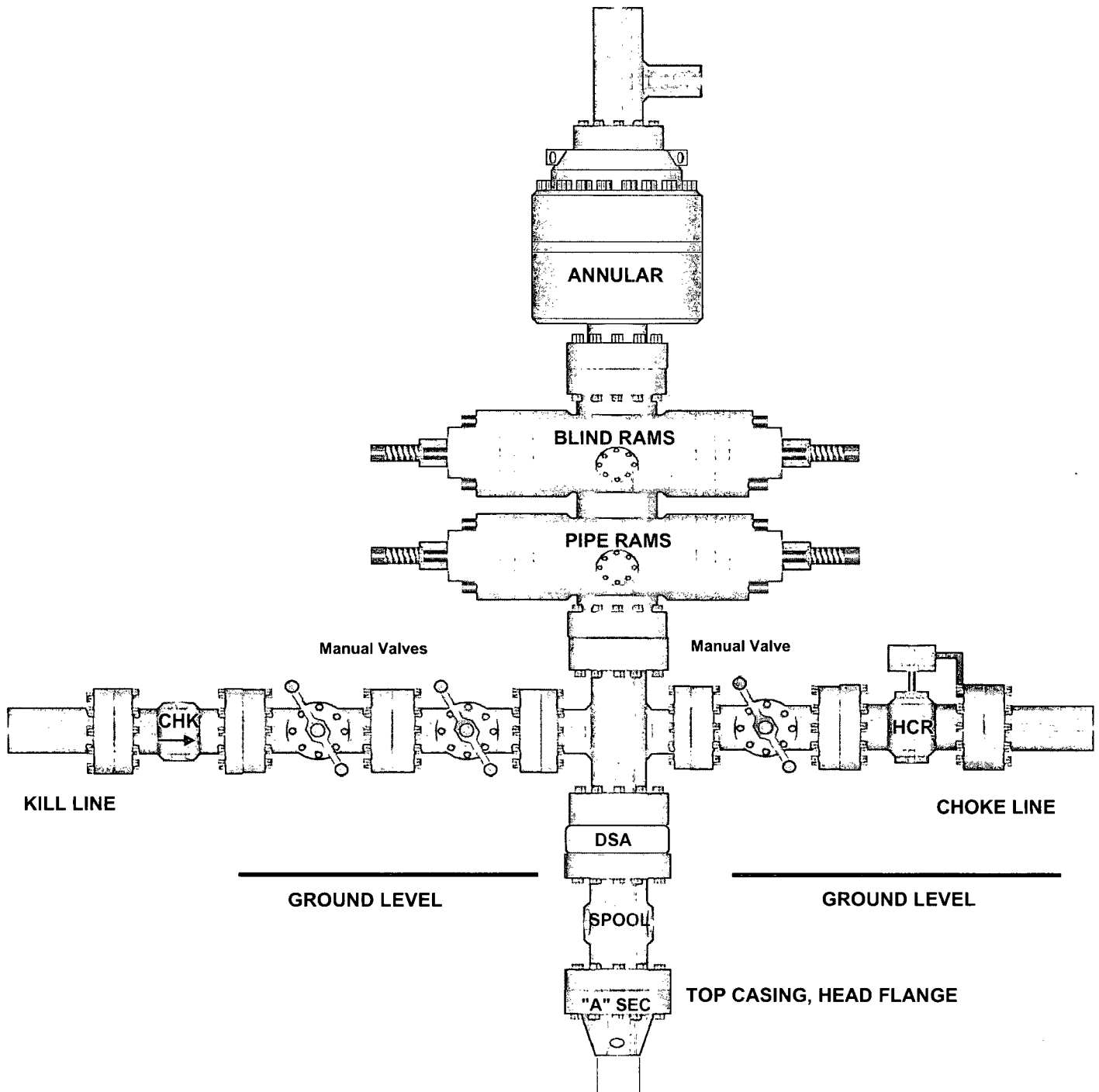
13-5/8" 3M BOPE & Closed Loop Equipment Schematic





3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
 [54 FR 39528, Sept. 27, 1989]

13-5/8" x 3,000 psi BOP Stack



H&P Flex Rig Location Layout

