			OCD Hobbs		ATS	-16-199	
Form 3160 -3 (March 2012)	R-111-POTAS	SH SE	RETARY'S PO		FORM APPROVED OMB No. 1004-0137		
	UNITED STATE DEPARTMENT OF THE			-	5 Lana Carial No	October 31, 2014	
	BUREAU OF LAND MAN					MMM 7827	
APP	LICATION FOR PERMIT TO	DRILL OF	R REENTER		6. If Indian, Allote	e or Tribe Name	
la. Type of work:	DRILL REENT	TER				reement, Name and No.	
lb. Type of Well:	Oil Well Gas Well Other	√ Si	ngle Zone 🗌 Mult	iple Zone	8. Lease Name and Rusty Anchor 7 F		
2. Name of Operator BC	Operating, Inc. (160825)				9. API Well No. 30-025-	43348	
3a. Address P.O. Box 5	50820). (include area code)		10. Field and Pool, or	Exploratory	
Midland, T	exas 79710	432-684-9	TAFFILL	NOX	Gem; Bone Spring		
	rt location clearly and in accordance with a		TO CLEAR C	-		Blk. and Survey or Area	
	2440' FEL of Unit Letter 'B', Sect 240' FNL & 960' FEL of Unit Letter		LIGUISEAL	MN .	Section 18, T-20S Section 6, T-20S,		
 Distance in miles and di 30 miles Southwest of 	rection from nearest town or post office* f Carlsbad				12. County or Parish Lea	13. State	
15. Distance from proposed location to nearest		16. No. of a	acres in lease	17. Spacin	ng Unit dedicated to this	well	
location to nearest property or lease line, ft (Also to nearest drig. ur		1361.21		320		JUL 520	
 Distance from proposed to nearest well, drilling, applied for, on this lease 	location* 75' completed, e, ft.		P. Proposed Depth 20. BLM 1,132' MD / 10,000' TVD NM257		/BIA Bond No. on file 2	RECEIV	
	ther DF, KDB, RT, GL, etc.)	22. Approxi 07/01/201	mate date work will sta	art*	23. Estimated durati 45 days	on	
3528' GL							
					40 days		
The following completed in	accordance with the requirements of Onshe	24. Atta	chments	attached to th			
	accordance with the requirements of Onsho	24. Atta	chments Order No.1, must be a		his form:		
1. Well plat certified by a re		24. Atta	chments Order No.1, must be a	the operatio	his form:	n existing bond on file (s	
 Well plat certified by a re A Drilling Plan. A Surface Use Plan (if 		24. Attac ore Oil and Gas	Chments Order No.1, must be a 4. Bond to cover Item 20 above). 5. Operator certifi 6. Such other site	the operatio	his form: ons unless covered by a		
 Well plat certified by a reference of the second sec	egistered surveyor. the location is on National Forest System	24. Attac ore Oil and Gas n Lands, the	 chments Order No. 1, must be a 4. Bond to cover Item 20 above). 5. Operator certifi 6. Such other site BLM. 	the operatio	his form: ons unless covered by a		
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1. Geologic Formations

		See COH		
TVD of target	10000	Pilot hole depth	10130	
MD at TD:	21132	Deepest expected fresh water:	185	

000

Capitan

-

1

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	Sala hada
Rustler	1110		
Top Salt	1250		
Base Salt	2600		
Yates	2780	Oil	
Capitan	3260		
Capitan Base	3405		
Delaware (Cherry	4820	Oil	
Canyon) Sand			
Manzanita Marker	5060		
Brushy Canyon	5310	Oil/Gas	
Bone Spring Lime	8050	Oil/Gas	
1 st Bone Spring Sand	9120	Oil/Gas	
2 nd Carbonate	9420	Oil/Gas	
2 nd Bone Spring Sand	9730	Horiz. Target 10000'	
3 rd Carbonate	10080	Oil/Gas	
TD Pilot Hole	10130		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program See COA

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)	A Part of		Collapse	Burst	Tension
24"	0	11351228	20"	133.0	K55	LTC	2.86	1.84	9.63
16"	0	3200	13.375"	72	N80	STC	1.61	2.45	4.51
12.25"	0	4600	9.625"	40	L80	LTC	1.41	1.15	3.95
8.75"	0	16601 20,558	5.5"	17	P110	Semi- Buttr.	1.44	1.12	1.86
per standard planning report.			BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 1.8 Wet	

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing. See attached semi-premium buttress connection Specs.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	900	13.5	1.757	9.0 9	10	Lead: ExtendaCem + 2 lbm Kol-Seal + 0.125 lbm Poly-E-Flake
	770	14.8	1.345	6.2 3	8	Tail: HalCem + 2 lbm Kol-Seal + 0.125 lbm Poly-E- Flake + 1% Calcium Chloride - flake
Inter.	970	12.6	1.934	10. 36	15	Lead: EconoCem + 0.25 lbm Poly-E-Flake + 0.60% Halad®-9 + 3 lbm Kol-Seal
	1540	14.8	1.339	6.1 3	11	Tail: HalCem + 3 lbm Kol-Seal + 0.25 lbm Poly-E- Flake
Int2.	1250	13.5	1.757	9.0 9	10	Lead: ExtendaCem + 2 lbm Kol-Seal + 0.125 lbm Poly-E-Flake
	600	14.8	1.345	6.2 3	8	Tail: HalCem + 2 lbm Kol-Seal + 0.125 lbm Poly- E-Flake + 1% Calcium Chloride - flake

BC Operating, Inc., Rusty Anchor 7 Federal Com #4H

Prod.	1360	11.9	2.303	13. 19	24	Lead: VersaCem + 10% Bentonite + 2 lbm Kol-Seal + 0.25 lbm D-Air 5000 + 0.50% HR-601
	1470	15	2.625	11. 40	10	Tail: SoluCem + 0.25 lbm D-Air 5000 + 0.80% HR-601 (Acid Soluble Cement)
						1

Optional DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Optional DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate and Inter. #2	0'	100%
Production	0'	30%



Include Pilot Hole Cementing specs: (Optional pilot on subsequent wells in section.) Pilot hole depth 10130 KOP 8732

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type
8632	8832	10	80	15.6	1.204	5.36	PlugCem System
9020	9470	10	170	15.6	1.204	5.36	PlugCem System
9630	10130	10	190	15.6	1.204	5.36	PlugCem System

See COA

4. Pressure Control Equipment

A variance is requested for the use of a 30" diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		-	Tested to:	
			Ann	nular	X	50% of working pressure	
			Blind	Ram			
16"	20"	2M	Pipe	Ram		2M	
			Double Ram			2111	
			Other*				
		2M	Annular		X	50% testing pressure	
			Blind Ram				
10 1/42	13-5/8"		Pipe Ram				
12-1/4"			Double Ram			2M	
			Other *				
			Ann	ular	X		
			Blind	Ram	X		
0.0/17	11"	214	Pipe Ram		X		
8-3/4"	11	3M	Double Ram			3M	
			Other *				

*Specify if additional ram is utilized.

Y

Sel

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

 A variance is requested for the use of a flexible choke line from the BOP to Choke

 Y
 Manifold. See attached for specs and hydrostatic test chart.

 Y
 Are anchors required by manufacturer?

 A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after

installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

• Provide description here: See attached schematic.

BC Operating, Inc., Rusty Anchor 7 Federal Com #4H

5. Mud Program

Depth		Туре	Weight (ppg)	Viscosity	Water Loss	
From	То				and the second	
0	Surf. shoe	FW Gel	8.4-8.9	28-34	N/C	
Surf csg	Int shoe	Saturated Brine	9.8-10.0	28-34	N/C	
Int shoe	Int2 shoe	Cut Brine	8.4-9.2	30-36	<12	
Int2 shoe	TD	CutBrine/FWgel	8.4-8.9	30-36	<12	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	



6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
Y	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated
	logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain
N	Coring? If yes, explain

Additional logs planned		Interval
Y	Resistivity	Int. shoe to KOP
Y	Density	Int. shoe to KOP
Y	CBL (Optional)	Production casing
Y	Mud log	Intermediate shoe to TD
	PEX	



7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4380 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.



YH2S is presentYH2S Plan attached

8. Other facets of operation

Is this a walking operation? No. If yes, describe. Will be pre-setting casing? No. If yes, describe.

Attachments

X Directional Plan _X_ Other, describe

- Improved 5.5" casing thread design example
- 30" diverter
- 20" annular
- 13-5/8" annular
- 11" BOPE
- Flexible hose specs and test chart



GB Connection Performance Properties Sheet

Rev. 1 (02/05/2014)

		Theorem and Plants makes a contract		LAN AND ADDRESS ADDRES	A REAL PROPERTY AND A REAL
		100%	Compression (%)	568	Joint Str. (kips)
17,030	Yield Torque (ft-lbs)	100%	Tension (%)	725	Min. Tension Ult. (kips)
ue	Yield Torque	100%	External Pressure (%)	638	Min. Tension Yield (kips)
83.3	Build Rate to Yield (°/100 ft)	100%	Internal Pressure (%)	568	Thread Str. (kips)
	Bending		Efficiency	Party Production and the second second	Tension
125,000	110,000 Min. Ultimate Str. (psi)	110,000	Min. Yield Str. (psi)	API P-110	Material Specification
	EFFICIENCIES	VCE RATINGS/	GB CD Butt 6.050 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES	GB CD Butt	
		6.102	8.500 Critical Cross-Sect. (in. ²)	8.500	Coupling Length (in.)
		4.2500	6.050 Makeup Loss (in.)	6.050	Coupling OD (in.)
	a statistical and a statistical sta	GEOMETRY	GB CD Butt 6.050 COUPLING GEOMETRY		
91.7	Build Rate to Yield (°/100 ft)	64,680	Yield Torque (ft-lbs)		
	Bending		Torque	8,580	High Collapse (psi)
10,640	Min. Int. Yield Press. (psi)	546	Pl. End Yield Str. (kips)	7,480	API (psi)
	Pressure		Tension		Collapse
125,000	110,000 Min. Ultimate Str. (psi)	110,000	Min. Yield Str. (psi)	P-110	Material Specification
		INCE	PIPE BODY PERFORMANCE		
		4.962	Plain End Area (in. ²)	16.89	Plain End Weight (ppf)
N/A	API Alternate Drift Dia. (in.)	4.892	Nominal ID (in.)	17.00	Nominal Weight (ppf)
4.767	Drift Diameter (in.)	0.304	Wall Thickness (in.)	5 1/2	Nominal OD (in.)
		RY	PIPE BODY GEOMETRY		
API P-110	Grade:				Grade: P-110
GB CD Butt 6.050	Connection:				Casing: 5.5 OD, 17 ppf

Min. MU Tq. (ft-lbs) 6,470: Max. MU Tq. (ft-lbs)	6,470 Max. MU Tq. (ft-lbs)	12,940 Running Tq. (ft-lbs	(See GBT RP
			Max. Operating Tq. (ft-lbs)* 16,180	* 16,180

Units: US Customary (Ibm, in., "F, Ibf)

1 kip = 1,000 lbs

* See Running Procedure for description and limitations.

See attached: Notes for GB Connection Performance Properties.

GBT Running Procedure (GBT RP): www.gbtubulars.com/pdf/RP_GB_DWC_Connections.pdf Blanking Dimensions: www.gbtubulars.com/pdf/GB_DWC_Blanking_Dimensions.pdf





BC Operating, Inc. Exhibit 1

2,000 psi BOP Schematic





Check Valve

BC Operating, Inc. Exhibit 4

3M Choke Manifold Equipment



Nabors Asset # 66-0638



Fluid Technology

Quality Document

QUALITY CONTROL	No.: QC-DB- 89/2011
	Page: 1/54
Hose No.:	Revision : 0
60313, 60314, 60315, 60316	Date: 07. March 2011.
	Prepared by : malans , track
	Appr. by: Charge Cinds

CHOKE AND KILL HOSES

id.: 3" 68,9 MPa x (25 ft) 7,62 m 1 pc x (45 ft) 13,72 m 3 pcs

DATA BOOK

Purchaser:

Purchaser Order No.:

ContiTech Rubber Order No.: 493934

ContiTech Beattie Co. Order No.: 004795

ASSET 66-0638, 66-0639, 66-0640, 66-0641

ContilTech Rubber Industrial Kft. Budapesti út 10., Szeged H 8728 P.O.Box 152 Szoged H-8701 Hungary Phone: +36 62 566 737 Fax: +36 62 566 738 e-mail: Info@luid.contitech.hu Internet: www.contilech.rubber.hu

The Court of Caongrad County as Registry Court Registry Court No: HU 06-09-002502 EU VAT No: HU11087209

Bank data Commerzbank Zrt. Budapest 14220108-26830003-00000000

QC-DB- 89/2011 Page: 5/54



Fluid Technology

Quality Document

INSPECTION AN	No. of Concession, Name of Concession, Name of Street, or other	Contraction of the local division of the			California and Annual		004705	of solar ball reported in
PURCHASER: Co	ontiTech Beatt	ie Co.			P.O. Nº:		004795	
CONTITECH ORDER Nº: 493	934 но	SE TYPE:	3"	ID		Choke an	nd Kill Hose	
HOSE SERIAL Nº: 60	313 NO	MINAL / ACT	TUAL LE	ENGTH:	7,	62 m / 7,63	3 m	
W.P. 68,9 MPa 1000	0 psi T.P	103,4	MPa	1500) psi	Duration:	60	min
amblent temperature	See	attachme	ent. (1	l page)			
↑ 10 mm = 10 Min. → 10 mm = 20 MPa COUPLINGS Type		al N°			Quality		Heat N°	
→ 10 mm = 20 MPa COUPLINGS Type 3" coupling with	Seri 324	al N° 320		Al	SI 4130		H0434	
→ 10 mm = 20 MPa COUPLINGS Type 3" coupling with 4 1/16" Swivel Flange end				Al	SI 4130 SI 4130		H0434 31742	
→ 10 mm = 20 MPa COUPLINGS Type 3" coupling with 4 1/16" Swivel Flange end Hub	324			Al	SI 4130		H0434 31742 B2297A	
→ 10 mm = 20 MPa COUPLINGS Type 3" coupling with 4 1/16" Swivel Flange end Hub ASSET NO.: 66-0633 All metal parts are flawless WE CERTIFY THAT THE ABOVE HO	324 B DSE HAS BEEN M	320 ANUFACTUR	ED IN A	Al Al Al	SI 4130 SI 4130 SI 4130	Temp	H0434 31742 B2297A PI Spec 1 Perature ra	6 C te:"B"
→ 10 mm = 20 MPa COUPLINGS Type 3" coupling with 4 1/16" Swivel Flange end Hub ASSET NO.: 66-0638 All metal parts are flawless	324 324 B B ED AS BEEN M ED AS ABOVE W We hereby certify above Purchaser ards, codes and s	320 ANUFACTUR ITH SATISFA that the abov Order and th	e items/ hat these and meet	Al: Al: Al: CCORDA RESULT. Items/eco the relevit	SI 4130 SI 4130 SI 4130 NCE WITH the supplied supprent v ant accept	Temp H THE TERMS by us are in o vere fabricated	H0434 31742 B2297A PI Spec 1 Perature ra OF THE ORDE	6 C te:"B" R

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

No: 246, 249

Page: 1/1

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CONTITECH RUBBER
Industrial Kft.No: QC-DB- 89 / 2011Page:9 / 54

Continental 3 CONTITECH

Hose Data Sheet

CRI Order No.	493934
Customer	ContiTech Beattie Co.
Customer Order No	PO4795, PBC10685
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	25 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGEC/W BX155 ST/ST INLAID RING GR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	No
Safety wire rope	Yes
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15



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