Form 3160-50 (June 2015) **UNITED STATES**

FORM APPROVED

	BB DE BI	PARTMENT OF THE I		OMB NO. 1004-0137 Expires: January 31, 2018					
10	SUNDRY	5. Lease Serial No.							
	Do not use this abandoned well	s form for proposals to I. Use form 3160-3 (AP	drill o D) for	such proposal CD	Hob	6. If Indian, Allottee or	Tribe Name		
=		TRIPLICATE - Other ins				7. If Unit or CA/Agreement, Name and/or No.			
	Type of Well	er				8. Well Name and No. STARCASTER 18 FED COM 1H			
/	Name of Operator BTA OIL PRODUCERS	9. API Well No. 30-025-43388-00-X1							
-	3a. Address 104 SOUTH PECOS STREET MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432.682.3753			Field and Pool or Exploratory Area BELL LAKE				
-	4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description				11. County or Parish, State			
/	Sec 18 T23S R34E Lot 1 330F		LEA COUNTY, NM						
-	12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA								
	TYPE OF SUBMISSION								
	Notice of Intent	☐ Acidize	□ Deepen□ Hydraulic Fracturing		☐ Production (Start/Resume)☐ Reclamation		☐ Water Shut-Off		
		☐ Alter Casing					■ Well Integrity		
	☐ Subsequent Report	□ Casing Repair		■ New Construction	☐ Recom	plete	☑ Other		
	☐ Final Abandonment Notice	☐ Change Plans		☐ Plug and Abandon	☐ Tempo	rarily Abandon	Change to Original A		
		☐ Convert to Injection		☐ Plug Back	☐ Water	Disposal			
	13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for finance.	ally or recomplete horizontally, k will be performed or provide operations. If the operation re andonment Notices must be fil	give su the Bo sults in	bsurface locations and measu nd No. on file with BLM/BIA a multiple completion or reco	red and true v . Required so mpletion in a	vertical depths of all pertinubsequent reports must be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once		
	BTA Oil Producers, LLC respe approved APD.	ectfully request approval t	for the	following changes to the	e original				
	Approved: 5M BOP & Choke N Change to: 3M BOP & Choke	Manifold Manifold (See attached o	diagrai	m)					
	Approved: Mud Weight 4963'- Change to: Mud Weight 4963'	14881' Cut Brine 8.3-9.3 -14881' Cut Brine 8.5-9.1	ppg	SEE A	ATTACH	IED FOR			
	9-5/8" Intermediate Casing Approved- Grade: HCP-80 Change to- Grade: J-55					S OF APPROVA	AL		
=	14. I hereby certify that the foregoing is	true and correct.							
		Electronic Submission #	362428	Recording the BLM Wel	Informatio	n System			

Committed to AFMSS for processing by DEBORAH MCKINNEY on 01/05/2017 (17DLM0242SE) PRODUCTION ASSISTANT Name (Printed/Typed) KAYLA MCCONNELL 01/02/2017 Signature (Electronic Submission) Date THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. TitlePETROLEUM ENGINEER

Date 01/06/2017

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2) ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Office Hobbs



Additional data for EC transaction #362428 that would not fit on the form

32. Additional remarks, continued

(*Casing string will be kept 1/3 full while running.)

5-1/2" Production Casing Approved- Depth: 14850' MD #/ft: 20# Grade: HCP-110 Change to- Depth: 14881' MD #/ft: 17# Grade: P-110

A variance is also requested for the following items below:

Coflex Choke Line -See attached for test charts and specs.

Multi Bowl wellhead -See attached running procedure and Schematic

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: BTA Oil Producers, LLC

LEASE NO.: | LC065194

WELL NAME & NO.: 1H-Starcaster 18 Fed Com

SURFACE HOLE FOOTAGE:

330'/N & 1270'/W

BOTTOM HOLE FOOTAGE | 330'/S & 660'/W

LOCATION: Section 18, T. 23 S., R. 34 E., NMPM

COUNTY: Lea County, New Mexico

All previous COAs still apply except the following:

A. **CASING**

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Castile, and Salado. Possibility of lost circulation in the Rustler, Red Beds, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1216 feet and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of

the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet minimum collapse requirement.

- The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 Cement to surface. If cement does not circulate see A.1.a, c-d above.
 The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

MHH 01062017

NM OIL CONSERVATION

Form 3160-3 (August 2007) ARTESTA DISTRICT AUG 13 2016

FORM APPROVED OMB No 1004-0137 Expires July 31, 2010

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

5. Lease Serial No. LC-085194

APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name						
1a. Type of work: ✓ DRILL REENTE	ER	of the state of th		7 It Unit or CA Agre	ement, Na	me and No	
Ib. Type of Well:	✓ Sin	igle Zone Multip	le Zone	8. Lease Name and Starcaster 18 Fed		3135	
2. Name of Operator Endurance Resources, LLC (270329)				9. API Well No.	43	386	
3a Address 203 West Well Suite 1000 Midland, Tx 79701	3b Phone No. (inchale area code) 432-242-4680			10 Field and Pool, or Exploratory Bell Lake; Bone Springs, North (5150)			
Midland, Tx 79701 4. Location of Well (Report location clearly and in accordance with any At surface 330' FNL & 1270' FWL At proposed prod. zone 330' FSL & 660' FWL		116 18 2010		11, Sec., T. R. M. or B Sec 18-23s-34s	lk. and Sur	vey or Area	
 Distance in miles and direction from nearest town or post office? miles Northwest of Jal, New Mexico 		RECEIVE	D	12 County or Parish Loa		13 State NM	
15. Distance from proposed® 155' location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 15. Distance from proposed® 155' location to nearest drig. 45' location to nearest drig. 45	16. No. of acres in lease 17. S		17. Spacin 160 ac	soing Unit dedicated to this well ac			
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 				M/BIA Bond No. on file 101200 1220			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3509' GL	22. Approximate date work will start ⁶ 05/01/2016			23. Estimated duration 45 days			
	24. Attac	hments					
The following, completed in accordance with the requirements of Onshor	re Oil and Gas (Order No.1, must be at	tached to th	is form:			
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	Item 20 above). 5. Operator certific	ation	ns unless covered by an			
25. Signordre Titton		(Printed Typed) Tilton		Date 01/25/2016			
Title							

Engineer

Approved by (Signature) /s/George MacDoneii Name (Printed Typed)

JUL 2 9 2016

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

K#08/19/16

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements & Special Supulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL



Endurance Resources LLC

DRILLING & OPERATIONS PROGRAM

Starcaster 18 Federal #1H SHL: 330' FNL & 1270' FWL

Sec 18-23S-34E

BHL: 330' FSL & 660' FWL

Sec 18-23S-34E

Lea Co, NM

1. Geological Name of Surface Formation Quaternary

2. Estimated Tops of Important Geological Markers

Fresh Water

311'

Rustler

979'

Top of Salt

1,416'

Lamar Limestone 4,943'

Delaware

5,025' - 011

Bone Spring

8,551' - 011

1st Bone Spring 9,626' - Oil

2nd Bone Spring 10,201' - Oil

TVD: 10,469'; MD: 14,881'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows:

Water: Average depth to water: 311'. Minimum depth: 255'. Max: 430'. As reported from the New Mexico Office of the State Engineer website.

Oil & Gas: 4,990' - 10,500' (Delaware through Bone Spring) No other formations are expected to give up oil, gas, or fresh water in measurable quantities.



Endurance Resources LLC

DRILLING & OPERATIONS PROGRAM

Starcaster 18 Federal #1H

SHL: 330' FNL & 1270' FWL

Sec 18-23S-34E

BHL: 330' FSL & 660' FWL

Sec 18-23S-34E

Lea Co, NM

Proposed Casing Program:

Hole Size	Casing Size	Depth	#/ft	Grade	Connectio	Collapse	Burst	Tension
17.5"	13-3/8"	1,216'	54.5	J-55	BTC	2.22	5.38	15.3
12.25	9-5/8"	4,963'	40	J-55	LT&C	1.61	2.39	3.66
8.75"	5-1/2"	14881'	17	P-110	ВТС	2.41	2.5	2.25

NOTE: ALL CASING IS NEW & API APPROVED. WHILE RUNNING CASING, PIPE WILL BE KEPT A MINIMUM OF 1/3 FULL AT ALL TIMES TO AVOID APPROACHING COLLAPSE PRESSURE OF THE CASING. SURFACE CASING WILL BE WATCHED & NECESSARY ADJUSTMENTS MADE TO ENSURE PIPE IF FULL DUE TO LOST CIRCULATION ZONES THAT MAY OCCUR. CENTRALIZERS WILL BE USED ON SURFACE CASING



4. Proposed Casing Program:

Size	Depth	#/ft	Grade	Connection	Collapse	Burst	Tension
13-3/8"	1,216'	54.5	J-55	BTC	1.79	4.34	13.72
9-5/8"	4,963	40	HCL-80	LT&C	1.67	2.48	3.66
5-1/2"	14,881'	20.0	HCP-110	BTC	2.41	2.5	2.24

NOTE: ALL CASING IS NEW & API APPROVED. WHILE RUNNING CASING, PIPE WILL BE KEPT A MINIMUM OF 1/3 FULL AT ALL TIMES TO AVOID APPROACHING COLLAPSE PRESSURE OF THE CASING. SURFACE CASING WILL BE WATCHED & NECESSARY ADJUSTMENTS MADE TO ENSURE PIPE IF FULL DUE TO LOST CIRCULATION ZONES THAT MAY OCCUR. CENTRALIZERS WILL BE USED ON SURFACE CASING

5. Proposed Cement Program:

a. 13-3/8" Surface

Lead: 550 sks ExtendaCem Class C (13.7ppg / 1.694 cuft/sk)

Tail: 525 sks HalCem Class C (14.80ppg / 1.32 cuft/sk)

**Calculated w/ 100% excess on OH volume

b. 9-5/8" Intermediate

Lead: 1100 sks EconoCem Class C + 0.4% HR-800 Retarder + 0.125 lbm/sk Poly-E-Flake Lost Circulation Additive (12.9ppg / 1.789 cuft/sk)

Tail: 230 sks HalCem Class C (14.80 ppg / 1.326 cuft/sk)

**Calculated w/ 50% excess on OH volumes & 10% in CH

c. 5-1/2" Production

Lead: 770 sks 50/50 Poz (Class H) + 5% Cal-Seal 60 Lost Circulation Additive + 8% Bentonite + 0.1% FE-2 + 0.25 lbm/sk D-Air 5000 Defoamer (11.5 ppg / 2.672 cuft/sk)

Tail: 1255 sks Class H + 0.5% Halad R-344 Low Fluid Loss Control + 0.4% Halad R-322 + 0.4% HR-800 Retarder (14.5 ppg / 1.227 cuft/sk)

**Calculated w/ 20% excess in vertical OH, 20% excess on lateral OH volumes & 10% in CH

NOTE: THE ABOVE CEMENT VOLUMES COULD BE REVISED PENDING FLUID CALIPER & CALIPER LOG DATA. SURFACE AND INTERMEDIATE VOLUMES ARE DESIGNED TO CIRCULATE TO SURFACE. PRODUCTION IS DESIGNED TO TIE INTO

95/8" CASING. > need to tie back 200'ft into 95/8" casing (4763" approx) - See COA



6. Minimum Specifications for Pressure Control: - See COA

13-5/8 (3M) working pressure BOP system consisting of one set of blind rams and one set of pipe rams and a 3000# annular type preventer (please see BOP schematic). A 3M choke manifold & 120 gallon accumulator with floor and remote operating stations & auxiliary power system. Rotating head as needed. A KC will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be NU and operated at least once a day while drilling and the blind rams will be operated when out of the hole during trips. From the base of the 13-3/8" csg through running of production casing, the well will be equipped with a 10M BOP system. Below the 9-5/8 csg shoe, this 3M system will be equipped with a HCR valve, remote kill line, & annular to match. The remote kill line will be installed prior to testing the system & tested to stack pressure.

Before drilling out of the 13-3/8 surface casing, BOP will be tested by an independent service company to 250 psi low & 3000 psi high. Hydril will be tested to 250 psi low and 2500 psi high. Before drilling out the 9-5/8 intermediate shoe BOP will be tested by an independent service company to 250 psi low and 5000 psi high. Hydril will be tested to 250 psi low and 2500 psi high. These low pressure tests from 250 to 300 psi will be held a minimum of 10 minutes if test is done with a test plug & 30 minutes without a test plug.



4,963' – 14,881' Cut Brine 8.5 – 9.1 28-32 NC-12

NOTE: NECESSARY MUD PRODUCTS FOR WEIGHT ADDITION & FLUID LOSS WILL BE ON LOCATION AT ALL TIMES. VISUAL MUD MONITORING EQUIPMENT (I.E. TRIP TANK) WILL BE IN PLACE TO DETECT VOLUME CHANGES INDICATING LOSS OR GAIN OF CIRCULATION VOLUME WITH ALARMS.

9. Auxiliary Well Control & Monitoring Equipment:

- a. A KC will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
- c. H2S detection equipment will be in operation & breathing apparatuses will be on location after the drill out of the 13-3/8" casing shoe until the 5-1/2" casing in cemented.

10. Testing, Logging & Coring Program: - See COA

- a. No drill stem tests are planned.
- b. Neutron Porosity well log ran from KOP to 200'.
- c. Quad combo logs from KOP to intermediate casing shoe.
- d. No coring is planned.

11.Potential Hazards:

No abnormal pressures or temperatures are expected. If H2S is encountered, Endurance Resources LLC will comply with Onshore Order #6. Regardless, all personnel will be trained & qualified with H2S safety. Rig safety equipment will all also be checked daily once drill out of the 13-3/8" casing shoe to TD. It has been noted that H2S has been encountered in the salt section. If H2S is encountered, measurements & formations will be reported to the BLM.

12. Anticipated starting date & Duration of Operations:

Road & location construction will begin after the BLM has approved the APD. Anticipated spud date will begin after BLM approval & after a drilling rig is secured. Move in operations & drilling is expected to take no more than 45 days. An additional 30-50 days will be needed to complete this well

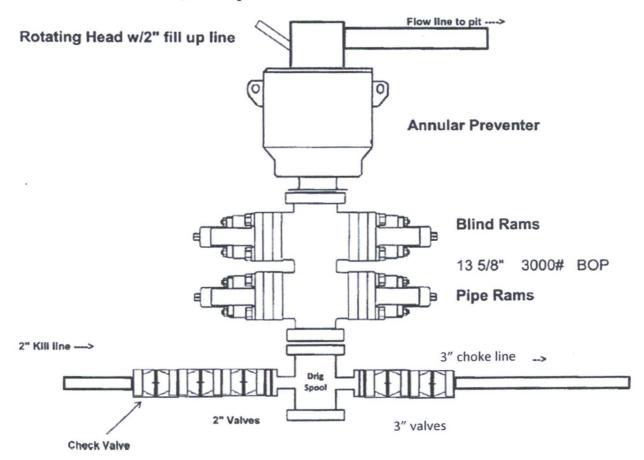


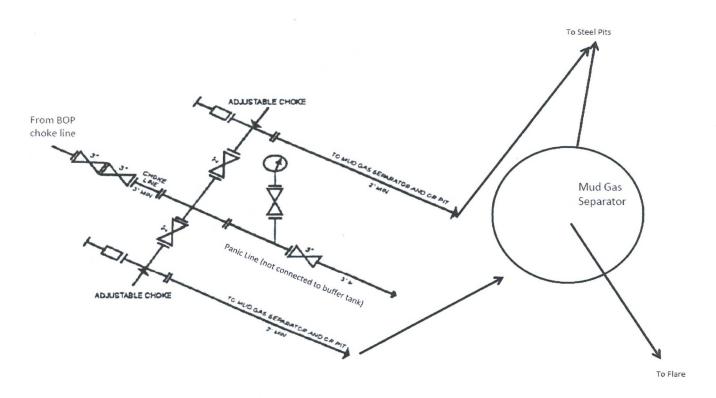
& construct surface facilities and/or lay flow lines in order to place well on production.

The 13-5/8" blowout preventer equipment (BOP) shown in exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag type (Hydril) preventer (3000 psi WP). Will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed don the 13-3/8" casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling operations order No 2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 3000 psi WP rating.

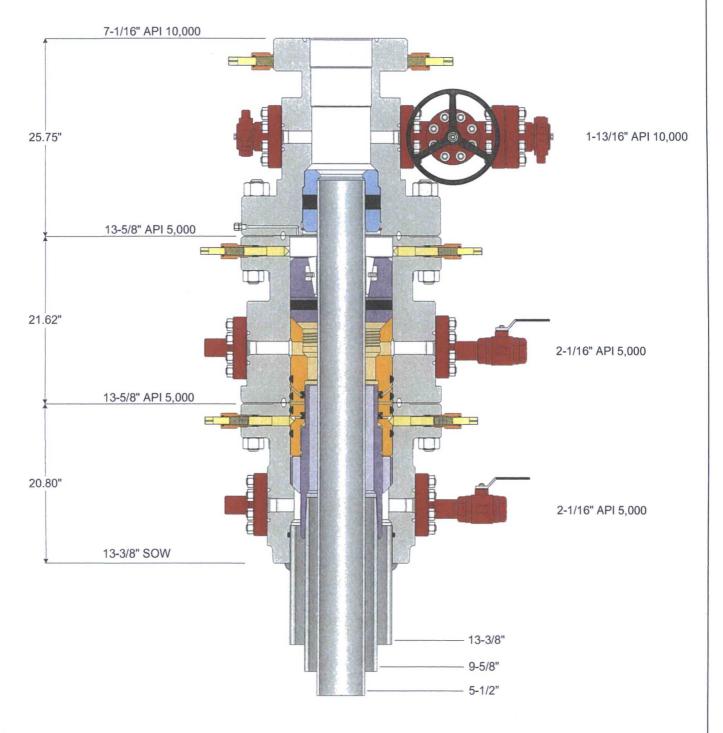
3,000 psi BOP Schematic





3M choke manifold design

NOTE:, THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.





Weatherford°

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Customer:	BTA OIL PRODUCERS	Project N	lo.: 146245	Quote No.:	291545 v2
Project Name:	WEST TEXAS	Date:	07/06/16	Drawn By:	JL



amtical

CONTITECH RUBBER No:QC-DB- 599/ 2014 Industrial Kft.

Page:

QUALITY CONTROL 1592 INSPECTION AND TEST CERTIFICATE ConfiTech Oil & Marine Corp. 4500461753 PURCHASER: P.O. Nº: 539225 3" Choke & Kill Hose HOSE TYPE CONTITECH ORDER IN 68547 7,62 m / 7,66 m NOMINAL / ACTUAL LENGTH: HOSE SERIAL No. W.P. 68.9 MPa psi T.P. 103,4 MPa 15000 psi Duration: 10000 60 min. Pressure test with water at ambient temperature See attachment. (1 page) 10 Min. 50 MPa COUPLINGS Type Heat No Serial No Quality 2574 A1582N H8572 3" coupling with 5533 AISI 4130 4 1/16' 10K API Swivel Flange end AISI 4130 58855 Hub AISI 4130 A1199N A1423N Not Designed For Well Testing API Spec 16 C Fire Rated Temperature rate:"B" All metal parts are flawless 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 accoptance criteria and design requirements. Date: Inspector Quality Control

gotting actual De

04 September 2014.

