Form 3160-3 (March 2012) HOBBS OGED Hobbs

ATS-15-746

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 3 0 2015.

Lease Serial No. NMNM116575

		TATE THE CONTENT OF	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW			nn 14 n.V
TION	FOR PERMIT	TO DRILL OR REENTE	SEINED 6	5. If Indian, A	Allotee or	Tribe Name

la. Type of work: ✓ DRILL REEN	7 If Unit or CA Agreement, Name and No.					
lb. Type of Well: Oil Well Gas Well Other	✓	Single Zone Mult	iple Zone	8. Lease Name and Rebel 20 Fed 2	1001117	
2. Name of Operator Devon Energy Production Company,	9. API Well No. 30-025-42993					
3a. Address 333 W. Sheridan	3b. Phone	No. (include area code)		10. Field and Pool, or	Exploratory	
Oklahoma City, OK 73102-5010	405.2	228.7203		Paduca; Delawa	re, North (49490)	
4. Location of Well (Report location clearly and in accordance with	any State requ	irements.*)		11. Sec., T. R. M. or 1	Blk.and Survey or Area	
At surface 250 FNL & 1930 FWL, Unit C PP:200 FNI		THE RESERVE AND ARRANGE WHEN THE PARTY AND ADDRESS OF THE PARTY AND ADD	ODO	Section 20 T24S 3	32E	
At proposed prod. zone 330 FSL & 1980 FWL, Unit N		LOCAT	TON			
 Distance in miles and direction from nearest town or post office* Approximately 21.80 miles East of Malaga, NM 		LUCAT	SE SIN	12. County or Parish Lea County	13. State NM	
Distance from proposed* See attached map location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	5.000000000	of acres in lease 116575 - 640 ac	17. Spacin 160 ac	ng Unit dedicated to this well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	TVD: 8	The state of the s		MBIA Bond No. on file 104; NMB-000801		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	The second second	oximate date work will st	art*	23. Estimated duration		
3564.1' GL	01/06/2	2016		45 Days		
	24. A	ttachments				
The following, completed in accordance with the requirements of Onsi	hore Oil and O	Gas Order No.1, must be	attached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 		Item 20 above)		ns unless covered by a	n existing bond on file (see	
 A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office). 	m Lands, the			ormation and/or plans	s may be required by the	
25. Signature		me (Printed/Typed) ina C. Couch			Date 06/08/2015	
Title Regulatory Compliance Professional						
Approved by (Signatures / STEPHEN J. CAFFEY	Na	me (Printed/Typed)			Date: 2 1 2015	
FIELD MANAGER		BLM-CAR				
Application approval does not warrant or certify that the applicant he conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or o			Properties of the second of th		

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)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

12/31/15

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPLII ATIONS

*(Instructions on page 2)

ATTACHEL

1. Geologic Formations

TVD of target	8,424'	Pilot hole depth	n/a
MD at TD:	12,863	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	894	Barren	
Salado	1164	Barren	
Base of Salt	4439	Barren	
Delaware	4679	Oil	
Bell Canyon	4719	Oil	
Cherry Canyon	5604	Oil	
Brushy Canyon	6889	Oil	
L Brushy Canyon	8274	Oil	
L Brushy D	8369	Oil	
L Brushy C	8421	Oil	
L Brushy B	8494	Oil	
L Brushy A	8552	Oil	
BSPG	8594	Oil	

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

2. Casing Program

Hole Size	Casing Interval		Csg.	Weight Grade	Grade	Conn	SF	SF Burst	SF	
	From	To	Size	(lbs)			Collapse	A Section of	Tension	
17.5"	0	975'	13.375"	48	H-40	STC	1.67	3.21	2.29	
12.25"	0	4,300'	9.625"	40	J-55	BTC	1.15	1.56	2.45	
12.25"	4,300'	4,600	9.625"	40	HCK-55	BTC	1.60	3.60	5.72	
8.75"	0	12,863	5.5"	17	P-110	BTC	1.94	1.25	2.45	
				BLM Min	imum Safet	y Factor	1.125	1.00	1.6 Dry 1.8 Wet	

Alternate 7"x5.5" Tapered design

Hole Size	Casing Interval		Csg.	Weight	Grade	Conn	SF	SF Burst	SF
	From	To	Size	(lbs)		100.50	Collapse		Tension
17.5"	0	975'	13.375"	48	H-40	STC	1.67	3.21	2.29
12.25"	0	4,300'	9.625"	40	J-55	BTC	1.15	1.56	2.45
12.25"	4,300'	4,600'	9.625"	40	HCK-55	BTC	1.60	3.60	5.72
8.75"	0	7,781'	7"	29	P-110	BTC	2.22	1.32	3.07
8.75"	7,781'	12,863	5.5"	17	P-110	BTC	1.80	1.29	3.14
				BLM Min	imum Safet	y Factor	1.125	1.00	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

	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.	N
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?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	- 11
Is well within the designated 4 string boundary.	
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?	N

If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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	H ₂ 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description	
13-3/8" Surface	1040	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake	
9-5/8" Inter.	960	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake	
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake	
7 x 5-	210	10.4	16.9	3.17	16	Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake	
1/2" Combo Prod. Option	1330	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite	
·	440	11.9	12.89	2.31	n/a	1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000	
5-1/2" Prod Two	1330	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite	
Stage					D\	V Tool = 4650ft	
Option	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake	
	30	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake	
5-1/2" Prod	200	11.9	12.89	2.31	n/a	1 st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000	
Single Stage Option	330	12.5	10.86	1.96	30	2 nd Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake	

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	1330 14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite	
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If a DV tool is run, DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. 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
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7 x 5-1/2" Production Casing	4400'	25%
5-1/2" Production Casing Two Stage	1 St Stage = 4650ft / 2 nd Stage = 4400'	25%
5-1/2" Production Casing Single Stage	4400'	25%

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ty	/pe		Tested to:
			Anr	nular	х	50% of working pressure
			Blind	Ram		
12-1/4"	13-5/8"	3M	Pipe	Ram		3M
			Doubl	le Ram	х	31/1
			Other*			
	12.5/07	3M	Annular		х	50% testing pressure
			Blind Ram			
0.2/422			Pipe Ram			
8-3/4"	13-5/8"		Double Ram		х	3M
			Other *			

^{*}Specify if additional ram is utilized.

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.

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

Y Are anchors required by manufacturer?

Y A multibowl wellhead may be 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.

Devon proposes the option of using 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.

- Wellhead will be installed by vendor's representatives.
- If the welding is performed by a third party, the vendor's representative will
 monitor the temperature to verify that it does not exceed the maximum
 temperature of the seal.
- Vendor representative will install the test plug for the initial BOP test.
- Vendor will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible
 with a standard wellhead, the well head will be cut and top out operations will be
 conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2.



If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

See attached schematic.

5. Mud Program

	Depth	Type	Weight (ppg)	Viscosity	Water Loss	
From	To					
0	975'	FW Gel	8.6-8.8	28-34	N/C	
975'	4,600'	Saturated Brine	10.0-10.2	28-34	N/C	
4,600'	12,863	Cut Brine	8.5-9.3	28-34	N/C	

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

x	Will run GR/CNL fromTD 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.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP

	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4074 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions: 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.

N	H2S is present	
Y	H2S Plan attached	

8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

x Directional Plan

Other, describe

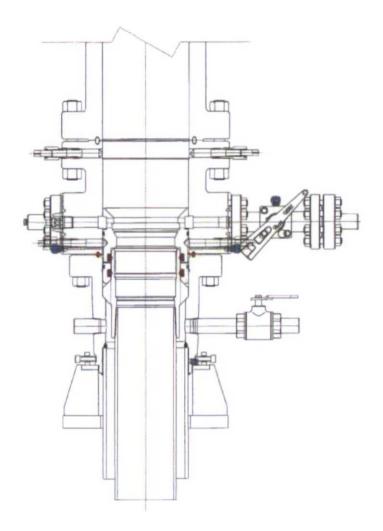


Weatherford Drilling Services

GeoDec4 v2.1.0.0

Customer: Devon Energy Well Name: Rebel 20 Fed 2H API Number: Rig Name: Location: Lea Co, NM Nad83 NME Block: Engineer: RWJ NAD83 / New Mexico East (ftUS) Projected Coordinate System Datum: North American Datum 1983 (1986) Ellipsoid: GRS 1980 Ellipsoid: GRS 1980 EPSG: 2257 FPSG: 4269 North: 440535.45 US Survey Foot Latitude: 32.209518 Degree East: 737511.90 US Survey Foot Longitude: -103.699047 Degree Convergence: 0.34° Declination: 7.33° Total Correction: 6.99° Datum Transformation: none Geodetic Location WGS84 MSL Elevation = 0 m Latitude = 32° 12' 34.26" N Longitude = 103° 41' 56.57" W Magnetic Declination = 7.33 deg [True North Offset] Local Gravity = .9988 g CheckSum = 6567 Local Field Strength = 48215 nT Magnetic Vector X = 23837 nT Magnetic Dip = 60.10 deg Magnetic Vector Y = 3066 nT Magnetic Model = bggm2015.dat Magnetic Vector Z = 41798 nT	Report Date: Job Number:	N	May 2								
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	Magnetic Dip		=	60.10 deg	Magnetic Vector Y	=	3066 nT				
Run Date = July 15, 2015 Magnetic Vector H = 24033 nT	Magnetic Model		=	bggm2015.dat	Magnetic Vector Z	=	41798 nT				
	Run Date		=	July 15, 2015	Magnetic Vector H	=	24033 nT				
Signed: Date:	Signed:			111111111111111111111111111111111111111	Date:						





PRIMARY MODE

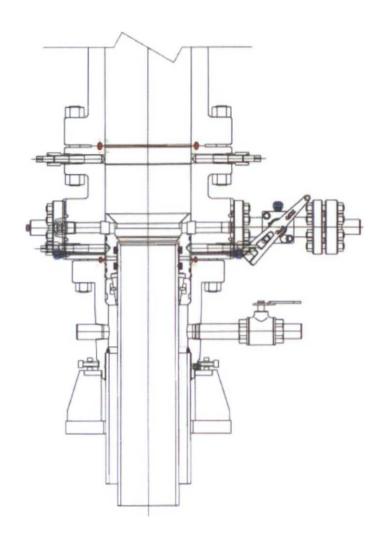
DEVON ENERGY

ARTESIA S.E.N.M 13 3/8 X 9 5/8

QUOTE LAYOUT F18648 REF: DM100161737 DM100151315

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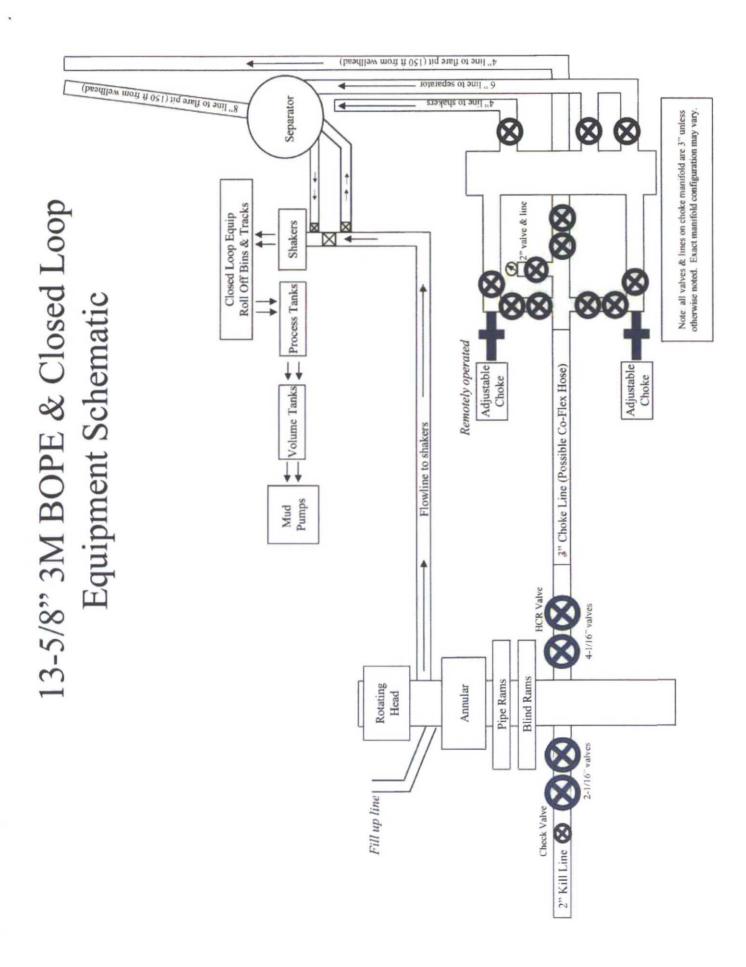


CONTINGENCY MODE

DEVON ENERGY ARTESIA S.E.N.M 13 3/8 X 9 5/8

QUOTE LAYOUT F18648 REF: DMIQO161737 DMIQO151315

PRIVATE AND CONFIDENTIAL THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE	A 05-08-13	DESCRIPTION			
CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FAC TECHNOLOGIES AND MAY MOT BE REPRODUCTS, USED, ORSCORDS, ON MAKE PUBLIC IN ANY MANNER PROTE TO EMPRISS, MAYTER AUTHORIZATION BY FAC TECHNOLOGIES, THIS DOCUMENT IS	B 1-22-14		K. VU	05-08-13	FMC Technologies
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NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P. Rebel 20 Fed 2H

- Drilling Nipple will be constructed so it can be removed mechanically without the aid
 of a welder. The minimum internal diameter will equal BOP bore.
- Wear ring will be properly installed in head.
- Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 3000psi working pressure.
- All fittings will be flanged.
- A fill bore safety valve tested to a minimum of 3000psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Fluid Technology

ContiTech Beattie Corp. Website: www.contitechbeattie.com

Monday, June 14, 2010

RF.

Drilling & Production Hoses Lifting & Safety Equipment

To Heimerich & Payne,

A Continental Contillect hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Orliting & 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 whilsi affording hose longevity by ensuring correct handling methods and procedures as well as securing the those in the unlikely event of a failure; but in no way does the lifting and safety aquipment affect the performance of the hoses providing 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/darifications then please do not hesitate to contact us.

ContiTech Beattle 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 Beattle Corp.

Contitach Seattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Pax: +1 (832) 327-0148 www.contitechbeattle.com



R16212



QUALITY DOCUMENT

PHOENIX RUBBER

*16728 Szeged, Sudapesti út 10. Hungary - H-5701 Szeged, P. O. Box 152 -hone: (3682) 566-737 - Fax: (3862) 586-738 SALES & MARKETING: H-1092 Budapest, Riday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

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> VERIFIED TRUE CO. PHOENIX RUBBER & C.

H&P Flex Rig Location Layout

