

(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

Expires October 31, 2014

BHL

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		14-815		5. Lease Serial No. NM LC068281B		6. If Indian, Allottee or Tribe Name H	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone				7. If Unit or CA Agreement, Name and No.		8. Lease Name and Well No. (315105) BUCK 30 FEDERAL COM W3 1H	
2. Name of Operator CONOCOPHILLIPS COMPANY (217817)				9. API Well No. 30-025 42748		10. Field and Pool, or Exploratory (98065) WC-025 G-08 5263205N, W3 1H	
3a. Address 600 North Dairy Ashford, P-10-4056 Houston, Texas 77079		3b. Phone No. (include area code) (281)206-5282		11. Sec., T. R. M. or Blk. and Survey or Area Section 30-26S-32E			
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 250' FNL & 365' FWL (NWNW) 30-26S-32E (D1) At proposed prod. zone 330' FSL & 380' FWL (SWSW) 31-26S-32E (E2)							
14. Distance in miles and direction from nearest town or post office* 45.3 south/west Jal, NM				12. County or Parish LEA		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'		16. No. of acres in lease SHL 1841.48; BHL 1218.62		17. Spacing Unit dedicated to this well 226.27			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 33'		19. Proposed Depth 19,494' MD 12550-TVD		20. BLM/BIA Bond No. on file ES0085			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3158'		22. Approximate date work will start* 01/01/2015		23. Estimated duration 30 DAYS			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature <i>Kristina Mickens</i>	Name (Printed/Typed) KRISTINA MICKENS	Date 05/22/2014
Title		

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date AUG 14 2015
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)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

AUG 24 2015

Drilling Program
ConocoPhillips Company
 Buck 30 Federal COM W3 1H
 250' FNL 365' FWL (SHL)
 Sec 30-T26S-R32E
 330' FSL 380' FWL (BHL)
 Sec 31-T26S-R32E
 Lea County, New Mexico

HOBBS OCD

AUG 21 2015

RECEIVED

1. Estimated tops of geological formations:

Geologic Formation at surface: Quaternary

Formation	TVD (ft)
Base Fresh Water	300
Rustler	1550
Top Salt	1950
Base Salt	4156
* Cherry Canyon	5073
* Brushy Canyon	6835
* Bone Spring Carb	7923
* Avalon	8441
* 1st Bone Spring	9402
* 2nd Bone Spring	9579
* 3rd Bone Spring	10175
* Wolfcamp	11352

2. Estimated depth/thickness of freshwater and/or hydrocarbons:

Water:

Fresh water is anticipated above the Rustler at 300' and will be protected by surface casing at 1000' and cemented to surface.

Hydrocarbons:

Oil and gas are anticipated in the formations annotated above (*). These zones will be isolated as necessary.

3. Pressure Control Equipment:

*Please see attached BOPE and Choke Manifold Schematic for more detail.

A 13-5/8" BOP system will be installed and tested prior to drilling out of the surface casing shoe. The BOP system will be utilized to drill the intermediate and production hole sections, and will be tested per BLM Onshore Oil & Gas Order No. 2 per each hole section specified in the final column of the table in section four.

Multi bowl well head variance

Pressure tests will be conducted at the initial installation of the BOPE and again if needed 30 days from the initial test as per BLM Onshore Oil and Gas Order No. 2. BOPE controls will be installed prior to drilling under the surface casing and will be used until the completion of drilling operations. The intermediate 1 and intermediate 2 string will be tested per 5M working system requirements. The production interval will be tested per 10M working system requirements.

See COA

ConocoPhillips Company requests a variance to use a flexible line between the BOP and the choke. The testing and manufacturing specifications for this equipment is attached. The line will be kept as straight as possible with minimum turns.

See COA
1150

4. Proposed Casing Program

*All tubulars used for this design will be new.

Hole Size (in)	Casing (in)	Wt/Ft	Grade	Connection	Depth (ft)	Depth (ftTVD)	Depth (ftMD)	BOPE System
17 1/2	13 3/8	54.5	J-55	BTC	0- 1000	1000	1000	N/A
12 1/4	9 5/8	40.0	L-80	BTC	0-4300	4300	4300	5M
8 3/4	7 5/8	33.7	P-110	Wedge 523	0-11750	11750	11750	5M
6 5/8	5	21.4	P-110	BTC	0-19469	12551	19469	10M

Drilling Program
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 330' FSL 380' FWL (BHL)
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 Lea County, New Mexico

Minimum casing design factors: Burst 1.0, Collapse:1.125, Tensile Strength 1.6 dry / 1.8 buoyant

Hole Size (in)	Casing (in)	Burst	Collapse	Tension	Thread & Cplg. OD (in)	Minimum Clearance (in)
17 1/2	13 3/8	5.77	2.39	19.37	14.375	1.5625
12 1/4	9 5/8	2.45	1.32	6.56	10.625	0.8125
8 3/4	7 5/8	1.91	1.39	3.22	7.775	0.4875
6 5/8	5	1.67	2.15	3.09	5.563	0.5310

5. Proposed Cementing Program

		Volume (sx)	Type	Weight (ppg)	Yield (ft ³ /sx)	Water (Gal/sx)	Excess	Cement Top
Surface	Lead	570	Class C	13.5	1.73	9.14	100%	Surface
	Tail	310	Class C	14.8	1.35	6.39	100%	700ft
Additives (BWOB): 4% Extender, 2% CaCl ₂ , 0.125 lb/sx LCM, 0.2% Anti-Foam								
Intermediate 1	Lead	1260	Class C	12.9	1.97	10.88	100%	Surface
	Tail	380	Class C	14.8	1.35	6.19	100%	3800ft
Additives (BWOB): 4% Extender, 2% CaCl ₂ , 0.125 lb/sx LCM, 0.2% Anti-Foam								
Intermediate 2	Lead	440	Tuned Light	9.5	3.45	14.38	100%	3800ft
	Tail	140	Class C	13.2	1.61	8.20	100%	11250ft
Additives (BWOB): 0.4% Dispersant, 1 lb/sx Salt, 0.1% Retarder, 0.5% Fluid Loss, 3 lb/sx LCM								
Production	Lead							
	Tail	460	Class H	15.0	2.61	6.00	30%	11250ft
Additives (BWOB): 0.4% Retarder, 0.2% Anti-foam, 0.7 Anti-gelling, 0.4% Fluid Loss, 2% Expanding Agent, 5.0% Silica								

6. Proposed Fluids Program

Depth (ft)	Type	Mud Weight (ppg)	Viscosity	Fluid Loss
0 to 1000 1150	Spud Mud	8.4 - 9.3	32-36	NC
1000 to 4300	Brine	9.3 - 10.5	28-30	≤5
4300 to 11750	Cut Brine	8.6 - 9.1	30-40	≤5
11750 to 19494	Oil Based Mud	12.0 - 14.0	30-40	≤5

Sufficient fluid volume, weight material, and additives will be available onsite at all times. Visual and electronic mud monitoring equipment will be in place to indicate gain or loss.

7. Formation Evaluation Program

Samples: Dry samples taken 30' from intermediate casing point to TD. GC Tracers KOP to TD.
 Logging: GR/Neutron from base salt to surface. GR from 200' above KOP to TD. Shuttle log in the lateral.

8. Anticipated Wellbore Conditions

	Value	Comments
Bottom Hole Pressure (psi)	7029	Assumes 0.78psi/ft - 0.22psi/ft Partial Evacuation
Bottom Hole Temperature (°F)	198	Assumes 0.01deg/100ft
Abnormal Pressure / Potential Hazards	Losses below Delaware will be mitigated with lost circulation material. Potential overpressure below the top of Wolfcamp will be mitigated with mud weight. If H ₂ S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation being used to drill this well.	

Drilling Program
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Lea County, New Mexico

9. Directional Plan:

Kick off Point (ft)	Landing TVD (ft)	Landing MD (ft)	Total Measured Depth (ft)
11986	12551	12886	19494

*ConocoPhillips proposes to drill a vertical wellbore to kick off point and then drill horizontally to TD. Please see the attached directional plan for more detail.

10. Spudder Rig and Skid Operations.

The reasons for using the spudder rig to drill and pre-set surface casing are: Time & Cost Saving.

The "Pinnergy #1" Rig will be used to drill the surface hole and pre-set surface casing on all of the wells in the same pad. Once each surface hole section has been drilled, it will be cased and cemented according to all applicable rules and regulations (Onshore Orders). the wellhead will be nipped up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. A blind flange of the same pressure rating as the wellhead will be utilized to seal the wellbore on all casing strings. Pressure will be monitored via wing valves on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operation is expected to take 7-10 days for a quad pad and 4-6 days for a dual pad. The BLM will be contacted / notified 24 hours prior to commencing spudder rig operations.

Drilling operation will start with a big Drilling Rig (H&P Flex 3 rig type) and an approved BOP stack will be nipped up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between the wells until each well's section has been drilled as planned (see "Skid-Batch Drilling Operations" Attachment). The BLM will be contacted / notified 24 hours before the big rig moves back on the location.

Once "Spudder Rig" has left the location, The "big Drilling Rig" will be on location within 90 days to drill each well in the Pad as batch drilling operations.

SKID / BATCH DRILLING OPERATIONS – “QUAD PAD”

SKID / BATCH DRILLING OPERATION PLAN FOR “QUAD PAD”:

1. ALL SURFACE CASINGS PRE-SET (Pre-set with “Spudder Rig”).
 2. WELL 1 / WolfCamp 3. 9-5/8” CASING – WBM.
 3. WELL 2 / WolfCamp 2. 9-5/8” CASING – WBM.
 4. WELL 3 / WolfCamp 1. 9-5/8” CASING – WBM.
 5. WELL 4 / WolfCamp 1. 9-5/8” CASING – WBM.
 6. WELL 4 / WolfCamp 1. 7-5/8” CASING – WBM.
 7. WELL 3 / WolfCamp 1. 7-5/8” CASING – WBM.
 8. WELL 2 / WolfCamp 2. 7-5/8” CASING – WBM.
 9. WELL 1 / WolfCamp 3. 7-5/8” CASING – WBM.
 10. WELL 1 / WolfCamp 3. 5” CASING – OBM.
 11. WELL 2 / WolfCamp 2. 5” CASING – OBM.
 12. WELL 3 / WolfCamp 1. 5” CASING – OBM.
 13. WELL 4 / WolfCamp 1. 5” CASING – OBM.
 14. RIG RELEASE.
- “INTERMEDIATE 1” BATCH**
- “INTERMEDIATE 2” BATCH**
- “PRODUCTION” BATCH**

March 05 2014



Connection: Wedge 523™
Casing/Tubing: CAS

Size: 7.625 in.
Wall: 0.430 in.
Weight: 33.70 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	7.625 in.	Nominal Weight	33.70 lbs/ft
Nominal ID	6.765 in.	Wall Thickness	0.430 in.
Plain End Weight	33.07 lbs/ft	Standard Drift Diameter	6.640 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	1069 x 1000 lbs	Internal Yield	10860 psi
Collapse	7870 psi	SMYS	110000 psi
WEDGE 523™ CONNECTION DATA			
GEOMETRY			
Connection OD	7.775 in.	Connection ID	6.675 in.
Critical Section Area	7.057 sq. in.	Make-Up Loss	4.060 in.
		Threads per in.	3.06
PERFORMANCE			
Tension Efficiency	72.6 %	Joint Yield Strength	776 x 1000 lbs
Compression Strength	881 x 1000 lbs	Internal Pressure Capacity	10860 psi
External Pressure Capacity	7870 psi	Compression Efficiency	82.4 %
		Bending	48 °/100 ft
MAKE-UP TORQUES			
Minimum	9900 ft-lbs	Target	11900 ft-lbs
		Maximum (*)	17300 ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	42000 ft-lbs	Yield Torque	63000 ft-lbs
BLANKING DIMENSIONS			
Blanking Dimensions			

* If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative.

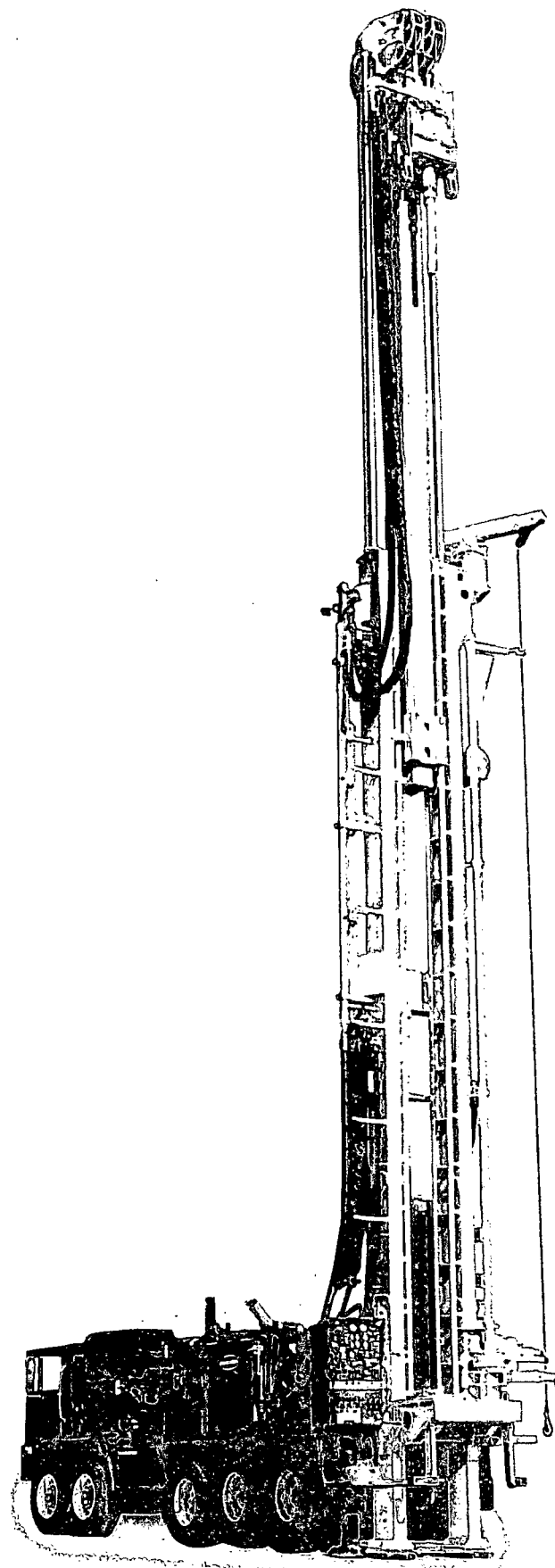


T130XD

A heavy duty, heavy hoist carrier mounted drill rig. The T130XD utilizes innovative Telemast technology to achieve Range III pipe capability in a compact over the road package.

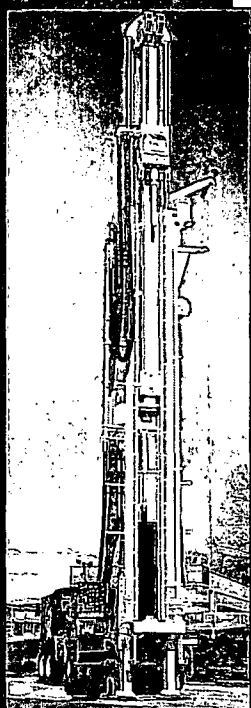
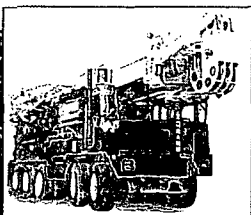
- Equipped with Schramm Telemast
- 50' head travel handles Range III casing
- 43' transport length with less than 6' overhang
- 130,000 lbs hoist
- No sub-structure required
- Mast slides to clear BOP

ROTADRILL



CARRIER MOUNTED RIG EQUIPPED WITH TELEMAST

T130XD ROTADRILL SPECIFICATIONS



Engine

Detroit Diesel DDC/MTU 12V-2000TA DDEC
760 bhp (567 kw) @ 1800 rpm

Standard Compressor

Variable volume two-stage, oil flooded
rotary screw
1350 cfm @ 350 psi (38.0 cu. m/min @ 24.1 bar),
up to 1150 cfm @ 500 psi (32.6 cu. m/min @
35.5 bar)

Cooling

Three core, side by side type
130°F (54.4°C) ambient design temp.

Dimensions

OA length, transport - 42' 9" (13 m)
OA width - 8' 6" (2.6 m)
OA height, transport - 13' 6" (4.1 m)
Weight std. rig - 92,000 lb (41,723 kg)

Carrier

CCC 8x4 Carrier
Cat C-13, 410 hp @ 2100 rpm engine
44,000 lb (19,955 kg) front axles
21,500 lb (9,750 kg) pusher axle
52,000 lb (23,587 kg) rear axles
117,500 lb (53,298 kg) GVWR

Top Head Rotation

Ductile iron, single reduction oil bath gearbox
with two disc valve type hydraulic motors.
Infinitely variable rotation speed.
3.5:1 Reduction Gear
3" diameter (76.2 mm) spindle thru hole
0-143 rpm, infinitely variable
106,600 in-lb (12,045 N·m) torque

Feed System

Top head is driven by hydraulic traverse
cylinders through special wire rope and large
diameter Nylatron sheaves. As top head is raised,
the inner mast section extends by a ratio of 1:2
until it reaches its fully extended position at 50'
of clear head travel.
42' 9" (13 m) OA height (retracted)
69' 9" (21.65 m) OA height (extended)
50' (15.24 m) top head travel
130,000 lb (59,090 kg) pullup
8 fpm (2.44 mpm) pullup speed-slow feed
125 fpm (38.1 mpm) pullup speed-rapid feed
32,000 lb (14,545 kg) pulldown capacity
26 fpm (7.92 mpm) pulldown speed-slow feed
270 fpm (82.3 mpm) pulldown speed-rapid feed
52' 10" (16.1 m) working clearance mast spindle
to table (sub removed)
48' 10" (14.9 m) working clearance mast sub to
table

Drill Pipe & Casing

30" x 4-1/2" OD x 2-7/8 IF breakout style drill pipe,
range III casing
28" (711 mm) max. diameter through slipbox

Mast

Telescoping construction permits long head trav-
el and working height, yet short OA length in
transport position.

32" (813 mm) cylinder operated slide
Free-standing mast
hydraulically operated adjustable mast feet
hydraulically retracted slip box
20" (508 mm) table opening w/o slips

Winch

Planetary with spring applied hydraulic
release brake
9,600 lb (4,354 kg) bare drum line pull
151 fpm (46 mpm) bare drum line speed

Hydraulic System

Open loop load sensing system
7 micron filtration
200 gallon (760 l) system capacity

Water Injection System

25 gpm (95 lpm) water pump
Electric foam pump

Outriggers

Front - (1) 5" bore x 41" stroke
(127 mm x 1.4 m)
Rear - (2) 5" bore x 41" stroke
(127 mm x 1.4 m)

Tool Lubricator

Positive displacement, air pump operated
piston type pump variable to 5.0 gph
(18.9 lph)

Lighting & Electrical System - 24 Volt

Mast - (4) 60 watt floodlights
Control Panel - (2) 60 watt gauge floodlights
Work - (3) 70 watt halogen

Accessories

Pipe handling sling, 60" breakout wrench,
and 50 hour maintenance kit.

Optional Equipment

Many modifications are available including:
Third driving axle
Reverse circulation package
Tilt-out top head
High capacity top head
Single pipe loading arm
Auxiliary winch controls
Auxiliary air supply

These specifications are based on theoretical calculations and industry standards. Performance will vary according to actual drilling conditions. Schramm, Inc. continuously improves its products and reserves the right to change specifications, design, prices and terms at any time without notification or obligation. These specifications do not extend any warranty, expressed or implied, nor do they, or Schramm, Inc. make or imply any representation of the machine's merchantability or fitness for a particular purpose.



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SCHRAMM, INC.

800 E. Virginia Avenue

West Chester, PA 19380 USA

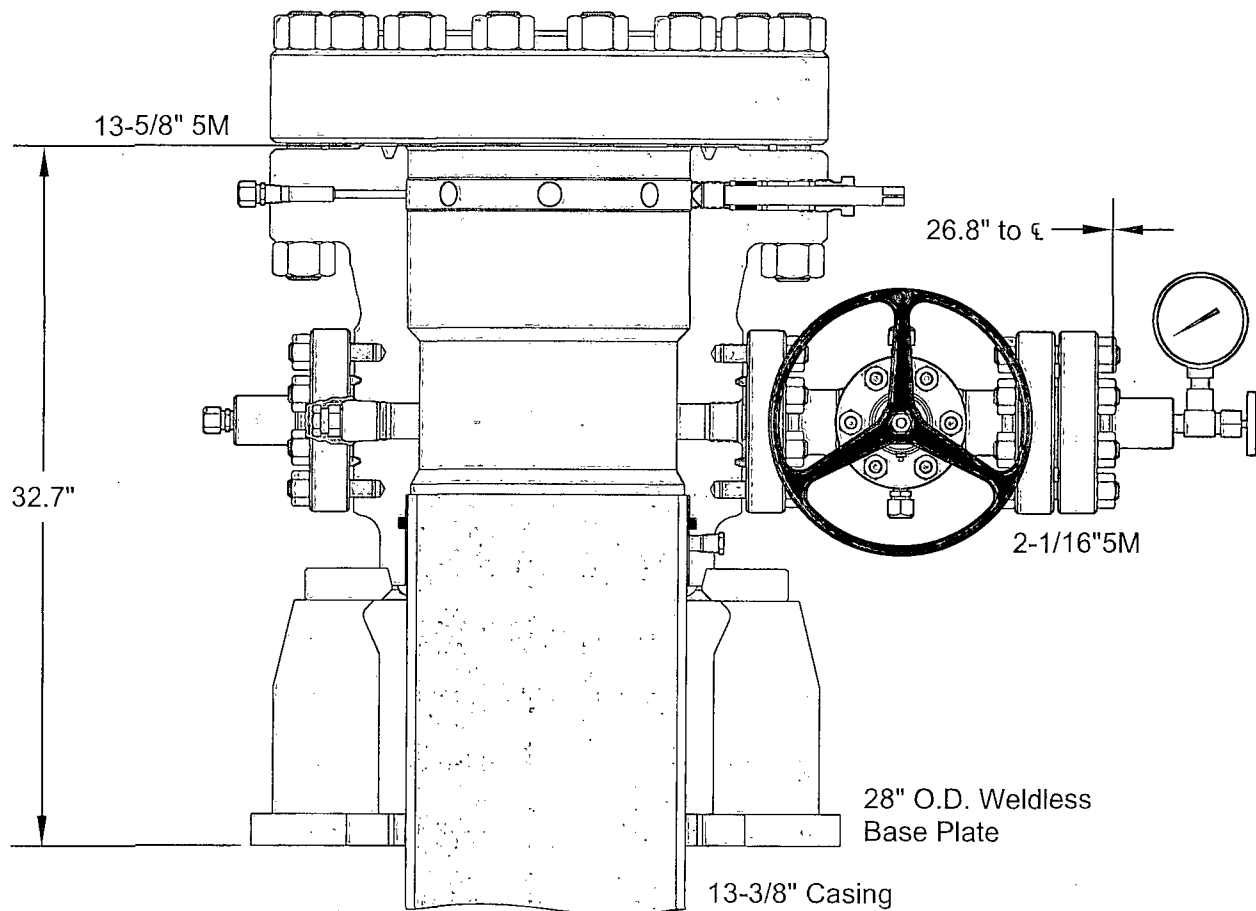
Phone: 610-696-2500

Fax: 610-696-6950

E-mail: schramm@schramm-inc.com



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

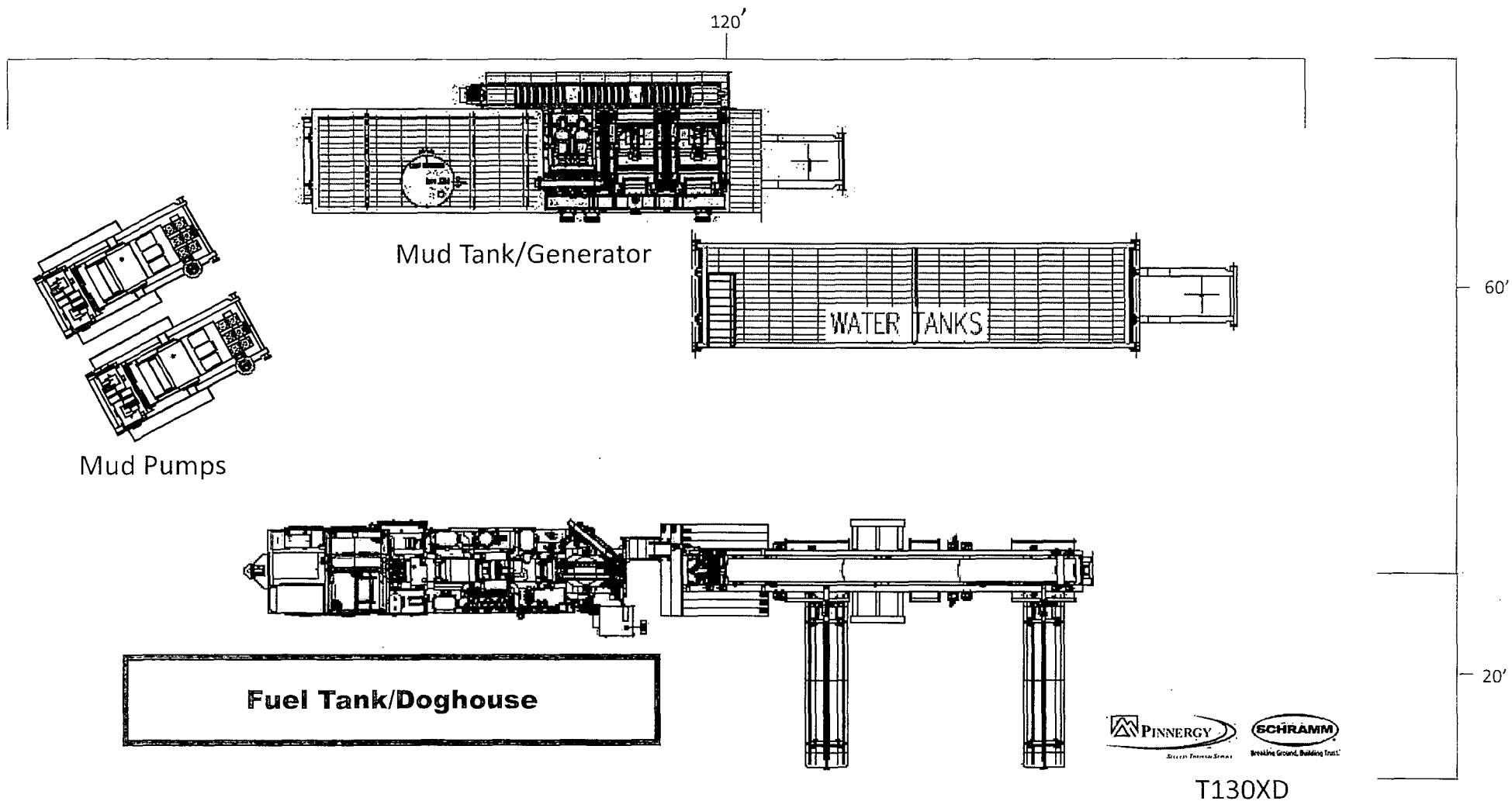
HSG,WG,SH2-LWR,13-5/8 5M X 13-3/8 SOW,W/2 2-1/16 5M FP
BASEPLATE,WELDLESS,28 OD
FLANGE,BLIND, 13-5/8 5M

CONOCOPHILLIPS
SPUDDER RIG

DRAWN	VJK	19AUG14
APPRV	KN	16AUG14

FOR REFERENCE ONLY

DRAWING NO. PE00624



"Pinnergy #1" Spudder Rig Layout

Request for Variance

ConocoPhillips Company

Lease Number: NMLC 068281B

Well: BUCK 30 FEDERAL COM W3 1H

Location: Sec. 30, T26S, R32E

Rig: If drilled with H&P 486

Date: 5/22/2014

Request:

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

Justifications:

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

Attachments:

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program prepared by:

Jason A. Levinson

Drilling Engineer, ConocoPhillips Company

Phone (281) 206-5335

Cell (281) 682-2783

Date: 05 February 2014

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 45 / 2012
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CONTITECH

Hose Data Sheet

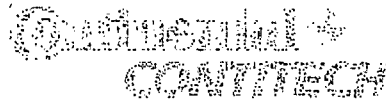
CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PO5438 STOCK
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
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	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
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

OC-DB- 45/2012

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Fluid Technology

Quality Document



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°:	184
PURCHASER: Contitech Beattie Co.				P.O. N°:	005438
CONTITECH ORDER N°: 516273		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 61477		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,71 m			
W.P. 68,9 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 = 20 MPa					
COUPLINGS Type	Serial N°	Quality	Heat N°		
3" coupling with	10178 10173	AISI 4130	20231		
4 1/16" 10K API Flange end		AISI 4130	33051		
NOT DESIGNED FOR WELL TESTING				API Spec 16 C	
				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 acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:	Inspector	Quality Control			
30. January 2012.		Contitech Rubber Industrial Kft. Quality Control Dept. 			

Contitech Rubber Industrial Kft.
 Budapest 113, Szeged 6600
 P.O. Box 162 Szeged 6601
 Hungary

Phone: +36 62 566 737
 Fax: +36 62 566 735
 e-mail: info@contitech.hu
 Internet: www.contitech.hu

The Court of Original Court at
 Registry Court
 Registry Court No. 114 65-05 00562
 Budapest 114, Hungary

Bank data
 Commercial Bank
 Budapest
 H 1230108 20030003-00300000

Ab: 182, 184, 185

CONFIDENTIAL
Confidential Rubber
Industrial Mat.
Quality Control Dept.

[illegible]

Request for Variance

ConocoPhillips Company

Lease Number: NMLC 068281B

Well: BUCK 30 FEDERAL COM W3 1H

Location: Sec. 30, T26S, R32E

Rig: If drilled with H&P 453

Date: 5/22/2014

Request:

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Attachments:

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program prepared by:

Jason A. Levinson

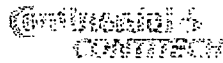
Drilling Engineer, ConocoPhillips Company

Phone (281) 206-5335

Cell (281) 682-2783

Date: 05 February 2014

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 45 / 2012
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Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PO5438 STOCK
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
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	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
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



Fluid Technology

Quality Document

453.369-001

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT N°: 1098																
PURCHASER: ContiTech Beattie Co.				P.O. N°: 004452																
CONTITECH ORDER N°: 482598		HOSE TYPE: 3" ID Choke and Kill Hose																		
HOSE SERIAL N°: 56839		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,69 m																		
W.P. 68,9 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 min = 10 Min. → 10 min = 25 MPa <table border="1"> <thead> <tr> <th>COUPLINGS type</th> <th>Serial N°</th> <th>Quality</th> <th>Heat N°</th> </tr> </thead> <tbody> <tr> <td>3" coupling with</td> <td>8436 1682</td> <td>AISI 4130</td> <td>16837</td> </tr> <tr> <td>4 1/16" Flange end</td> <td></td> <td>AISI 4130</td> <td>31296 31501</td> </tr> </tbody> </table> API Spec 16 C 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 acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU <table border="1"> <tr> <td>Date: 02. November 2010.</td> <td>Inspector</td> <td>Quality Control ContiTech Rubber Industrial Kit Quality Control Dept. (1) </td> </tr> </table>						COUPLINGS type	Serial N°	Quality	Heat N°	3" coupling with	8436 1682	AISI 4130	16837	4 1/16" Flange end		AISI 4130	31296 31501	Date: 02. November 2010.	Inspector	Quality Control ContiTech Rubber Industrial Kit Quality Control Dept. (1)
COUPLINGS type	Serial N°	Quality	Heat N°																	
3" coupling with	8436 1682	AISI 4130	16837																	
4 1/16" Flange end		AISI 4130	31296 31501																	
Date: 02. November 2010.	Inspector	Quality Control ContiTech Rubber Industrial Kit Quality Control Dept. (1)																		

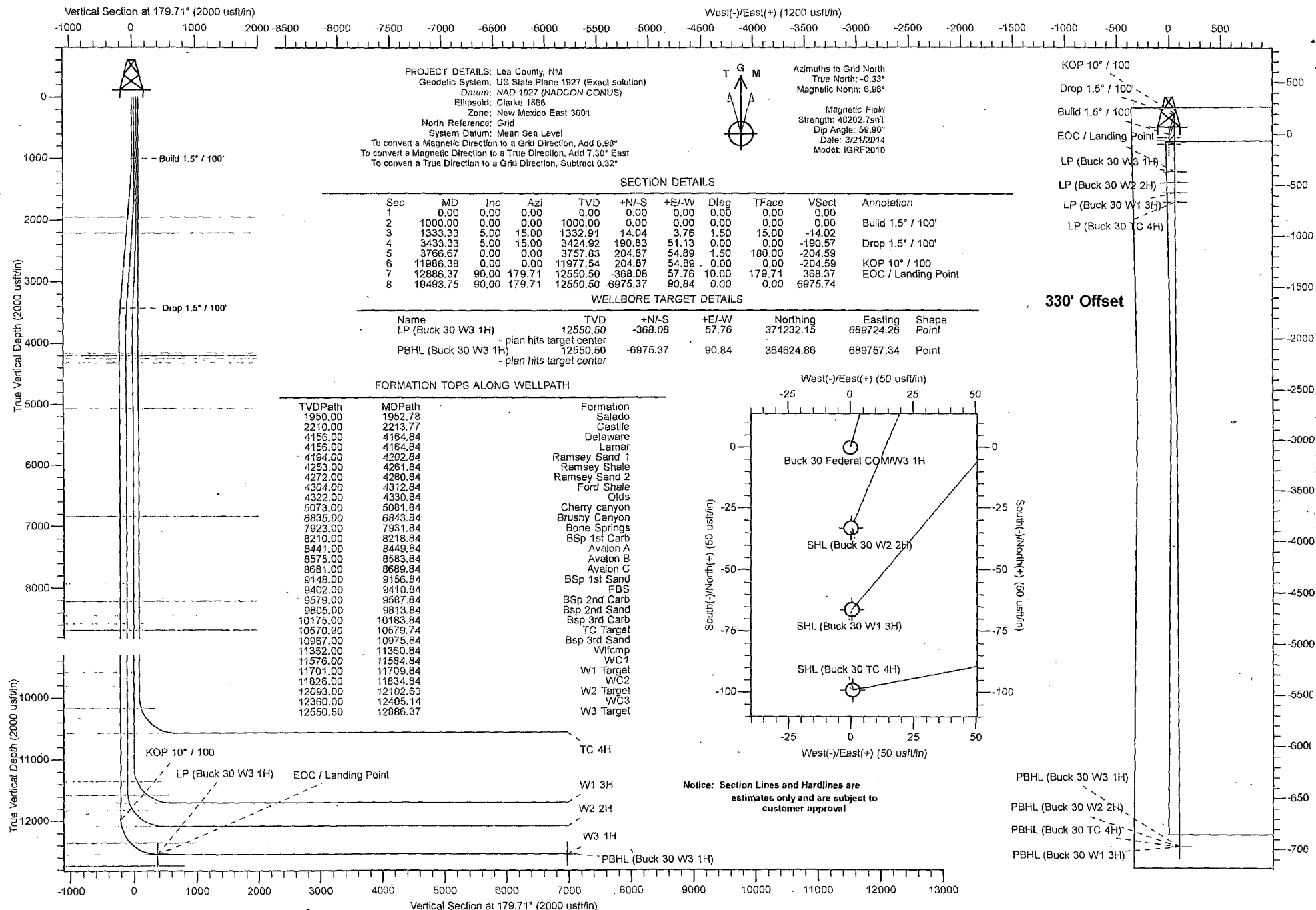
Continental Rubber Technology AG

Strasse: 43562 924 737

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ConocoPhillips

Lea County, NM

Buck 30 Federal COM

W3 1H

Original Hole

Plan: Design #2

Standard Planning Report

23 April, 2014



Database: GyrodataNWDB
Company: ConocoPhillips
Project: Lea County, NM
Site: Buck 30 Federal COM
Well: W3 1H
Wellbore: Original Hole
Design: Design #2

Local Co-ordinate Reference: Well W3 1H
TVD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
MD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Buck 30 Federal COM		
Site Position:		Northing:	371,501.22 usft
From:	Map	Easting:	689,667.38 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 1' 11.62 N
		Longitude:	103° 43' 16.92 W
		Grid Convergence:	0.32 °

Well	W3 1H		
Well Position	+N/-S	99.01 usft	Northing: 371,600.23 usft
	+E/-W	-0.88 usft	Easting: 689,666.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 1' 12.60 N
		Longitude:	103° 43' 16.92 W
		Ground Level:	3,158.00 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	3/21/2014	7.30
		Dip Angle (°)	59.90
		Field Strength (nT)	48,203

Design	Design #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
		Direction (°)	179.71

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,333.33	5.00	15.00	1,332.91	14.04	3.76	1.50	1.50	0.00	15.00	
3,433.33	5.00	15.00	3,424.92	190.83	51.13	0.00	0.00	0.00	0.00	
3,766.67	0.00	0.00	3,757.83	204.87	54.89	1.50	-1.50	0.00	180.00	
11,986.38	0.00	0.00	11,977.54	204.87	54.89	0.00	0.00	0.00	0.00	
12,886.38	90.00	179.71	12,550.50	-368.08	57.76	10.00	10.00	19.97	179.71	
19,493.75	90.00	179.71	12,550.50	-6,975.37	90.84	0.00	0.00	0.00	0.00	PBHL (Buck 30 W3 11)

Database: GyrodataNWDB
 Company: ConocoPhillips
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 MD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.50	15.00	1,099.99	1.26	0.34	-1.26	1.50	1.50	0.00
1,200.00	3.00	15.00	1,199.91	5.06	1.35	-5.05	1.50	1.50	0.00
1,300.00	4.50	15.00	1,299.69	11.37	3.05	-11.36	1.50	1.50	0.00
1,333.33	5.00	15.00	1,332.91	14.04	3.76	-14.02	1.50	1.50	0.00
1,400.00	5.00	15.00	1,399.32	19.65	5.27	-19.63	0.00	0.00	0.00
1,500.00	5.00	15.00	1,498.94	28.07	7.52	-28.03	0.00	0.00	0.00
1,600.00	5.00	15.00	1,598.56	36.49	9.78	-36.44	0.00	0.00	0.00
1,700.00	5.00	15.00	1,698.18	44.91	12.03	-44.85	0.00	0.00	0.00
1,800.00	5.00	15.00	1,797.80	53.33	14.29	-53.25	0.00	0.00	0.00
1,900.00	5.00	15.00	1,897.42	61.75	16.54	-61.66	0.00	0.00	0.00
2,000.00	5.00	15.00	1,997.04	70.16	18.80	-70.07	0.00	0.00	0.00
2,100.00	5.00	15.00	2,096.66	78.58	21.06	-78.47	0.00	0.00	0.00
2,200.00	5.00	15.00	2,196.28	87.00	23.31	-86.88	0.00	0.00	0.00
2,300.00	5.00	15.00	2,295.90	95.42	25.57	-95.29	0.00	0.00	0.00
2,400.00	5.00	15.00	2,395.52	103.84	27.82	-103.70	0.00	0.00	0.00
2,500.00	5.00	15.00	2,495.14	112.26	30.08	-112.10	0.00	0.00	0.00
2,600.00	5.00	15.00	2,594.76	120.68	32.33	-120.51	0.00	0.00	0.00
2,700.00	5.00	15.00	2,694.38	129.09	34.59	-128.92	0.00	0.00	0.00
2,800.00	5.00	15.00	2,794.00	137.51	36.85	-137.32	0.00	0.00	0.00
2,900.00	5.00	15.00	2,893.62	145.93	39.10	-145.73	0.00	0.00	0.00
3,000.00	5.00	15.00	2,993.23	154.35	41.36	-154.14	0.00	0.00	0.00
3,100.00	5.00	15.00	3,092.85	162.77	43.61	-162.55	0.00	0.00	0.00
3,200.00	5.00	15.00	3,192.47	171.19	45.87	-170.95	0.00	0.00	0.00
3,300.00	5.00	15.00	3,292.09	179.61	48.13	-179.36	0.00	0.00	0.00
3,400.00	5.00	15.00	3,391.71	188.02	50.38	-187.77	0.00	0.00	0.00
3,433.33	5.00	15.00	3,424.92	190.83	51.13	-190.57	0.00	0.00	0.00
3,500.00	4.00	15.00	3,491.38	195.88	52.49	-195.61	1.50	-1.50	0.00
3,600.00	2.50	15.00	3,591.22	201.36	53.95	-201.08	1.50	-1.50	0.00
3,700.00	1.00	15.00	3,691.17	204.31	54.74	-204.03	1.50	-1.50	0.00
3,766.67	0.00	0.00	3,757.83	204.87	54.89	-204.59	1.50	-1.50	0.00
3,800.00	0.00	0.00	3,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
3,900.00	0.00	0.00	3,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,000.00	0.00	0.00	3,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,100.00	0.00	0.00	4,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,200.00	0.00	0.00	4,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,300.00	0.00	0.00	4,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,400.00	0.00	0.00	4,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,500.00	0.00	0.00	4,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,600.00	0.00	0.00	4,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,700.00	0.00	0.00	4,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,800.00	0.00	0.00	4,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
4,900.00	0.00	0.00	4,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,000.00	0.00	0.00	4,991.16	204.87	54.89	-204.59	0.00	0.00	0.00

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 Project: Lea County, NM
 Site: Buck 30 Federal COM
 Well: W3 1H
 Wellbore: Original Hole
 Design: Design #2

Local Co-ordinate Reference: Well W3 1H
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 MD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	0.00	0.00	5,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,200.00	0.00	0.00	5,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,300.00	0.00	0.00	5,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,400.00	0.00	0.00	5,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,500.00	0.00	0.00	5,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,600.00	0.00	0.00	5,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,700.00	0.00	0.00	5,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,800.00	0.00	0.00	5,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
5,900.00	0.00	0.00	5,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,000.00	0.00	0.00	5,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,100.00	0.00	0.00	6,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,200.00	0.00	0.00	6,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,300.00	0.00	0.00	6,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,400.00	0.00	0.00	6,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,500.00	0.00	0.00	6,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,600.00	0.00	0.00	6,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,700.00	0.00	0.00	6,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,800.00	0.00	0.00	6,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
6,900.00	0.00	0.00	6,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,000.00	0.00	0.00	6,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,100.00	0.00	0.00	7,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,200.00	0.00	0.00	7,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,300.00	0.00	0.00	7,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,400.00	0.00	0.00	7,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,500.00	0.00	0.00	7,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,600.00	0.00	0.00	7,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,700.00	0.00	0.00	7,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,800.00	0.00	0.00	7,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
7,900.00	0.00	0.00	7,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,000.00	0.00	0.00	7,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,100.00	0.00	0.00	8,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,200.00	0.00	0.00	8,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,300.00	0.00	0.00	8,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,400.00	0.00	0.00	8,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,500.00	0.00	0.00	8,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,600.00	0.00	0.00	8,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,700.00	0.00	0.00	8,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,800.00	0.00	0.00	8,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
8,900.00	0.00	0.00	8,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,000.00	0.00	0.00	8,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,100.00	0.00	0.00	9,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,200.00	0.00	0.00	9,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,300.00	0.00	0.00	9,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,400.00	0.00	0.00	9,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,500.00	0.00	0.00	9,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,600.00	0.00	0.00	9,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,700.00	0.00	0.00	9,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,800.00	0.00	0.00	9,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
9,900.00	0.00	0.00	9,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,000.00	0.00	0.00	9,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,100.00	0.00	0.00	10,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,200.00	0.00	0.00	10,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,300.00	0.00	0.00	10,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,400.00	0.00	0.00	10,391.16	204.87	54.89	-204.59	0.00	0.00	0.00

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 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	0.00	0.00	10,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,600.00	0.00	0.00	10,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,700.00	0.00	0.00	10,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,800.00	0.00	0.00	10,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
10,900.00	0.00	0.00	10,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,000.00	0.00	0.00	10,991.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,100.00	0.00	0.00	11,091.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,200.00	0.00	0.00	11,191.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,300.00	0.00	0.00	11,291.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,400.00	0.00	0.00	11,391.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,500.00	0.00	0.00	11,491.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,600.00	0.00	0.00	11,591.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,700.00	0.00	0.00	11,691.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,800.00	0.00	0.00	11,791.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,900.00	0.00	0.00	11,891.16	204.87	54.89	-204.59	0.00	0.00	0.00
11,986.38	0.00	0.00	11,977.54	204.87	54.89	-204.59	0.00	0.00	0.00
12,000.00	1.36	179.71	11,991.16	204.71	54.90	-204.43	10.00	10.00	0.00
12,100.00	11.36	179.71	12,090.42	193.64	54.95	-193.36	10.00	10.00	0.00
12,200.00	21.36	179.71	12,186.25	165.51	55.09	-165.23	10.00	10.00	0.00
12,300.00	31.36	179.71	12,275.73	121.16	55.31	-120.88	10.00	10.00	0.00
12,400.00	41.36	179.71	12,356.16	61.95	55.61	-61.66	10.00	10.00	0.00
12,500.00	51.36	179.71	12,425.08	-10.33	55.97	10.62	10.00	10.00	0.00
12,600.00	61.36	179.71	12,480.41	-93.48	56.39	93.77	10.00	10.00	0.00
12,700.00	71.36	179.71	12,520.45	-184.98	56.85	185.26	10.00	10.00	0.00
12,800.00	81.36	179.71	12,544.00	-282.03	57.33	282.32	10.00	10.00	0.00
12,886.38	90.00	179.71	12,550.50	-368.08	57.76	368.37	10.00	10.00	0.00
12,900.00	90.00	179.71	12,550.50	-381.70	57.83	381.99	0.00	0.00	0.00
13,000.00	90.00	179.71	12,550.50	-481.70	58.33	481.99	0.00	0.00	0.00
13,100.00	90.00	179.71	12,550.50	-581.70	58.83	581.99	0.00	0.00	0.00
13,200.00	90.00	179.71	12,550.50	-681.70	59.33	681.99	0.00	0.00	0.00
13,300.00	90.00	179.71	12,550.50	-781.70	59.83	781.99	0.00	0.00	0.00
13,400.00	90.00	179.71	12,550.50	-881.70	60.33	881.99	0.00	0.00	0.00
13,500.00	90.00	179.71	12,550.50	-981.70	60.83	981.99	0.00	0.00	0.00
13,600.00	90.00	179.71	12,550.50	-1,081.70	61.34	1,081.99	0.00	0.00	0.00
13,700.00	90.00	179.71	12,550.50	-1,181.69	61.84	1,181.99	0.00	0.00	0.00
13,800.00	90.00	179.71	12,550.50	-1,281.69	62.34	1,281.99	0.00	0.00	0.00
13,900.00	90.00	179.71	12,550.50	-1,381.69	62.84	1,381.99	0.00	0.00	0.00
14,000.00	90.00	179.71	12,550.50	-1,481.69	63.34	1,481.99	0.00	0.00	0.00
14,100.00	90.00	179.71	12,550.50	-1,581.69	63.84	1,581.99	0.00	0.00	0.00
14,200.00	90.00	179.71	12,550.50	-1,681.69	64.34	1,681.99	0.00	0.00	0.00
14,300.00	90.00	179.71	12,550.50	-1,781.69	64.84	1,781.99	0.00	0.00	0.00
14,400.00	90.00	179.71	12,550.50	-1,881.69	65.34	1,881.99	0.00	0.00	0.00
14,500.00	90.00	179.71	12,550.50	-1,981.68	65.84	1,981.99	0.00	0.00	0.00
14,600.00	90.00	179.71	12,550.50	-2,081.68	66.34	2,081.99	0.00	0.00	0.00
14,700.00	90.00	179.71	12,550.50	-2,181.68	66.84	2,181.99	0.00	0.00	0.00
14,800.00	90.00	179.71	12,550.50	-2,281.68	67.34	2,281.99	0.00	0.00	0.00
14,900.00	90.00	179.71	12,550.50	-2,381.68	67.84	2,381.99	0.00	0.00	0.00
15,000.00	90.00	179.71	12,550.50	-2,481.68	68.34	2,481.99	0.00	0.00	0.00
15,100.00	90.00	179.71	12,550.50	-2,581.68	68.84	2,581.99	0.00	0.00	0.00
15,200.00	90.00	179.71	12,550.50	-2,681.68	69.35	2,681.99	0.00	0.00	0.00
15,300.00	90.00	179.71	12,550.50	-2,781.67	69.85	2,781.99	0.00	0.00	0.00
15,400.00	90.00	179.71	12,550.50	-2,881.67	70.35	2,881.99	0.00	0.00	0.00
15,500.00	90.00	179.71	12,550.50	-2,981.67	70.85	2,981.99	0.00	0.00	0.00
15,600.00	90.00	179.71	12,550.50	-3,081.67	71.35	3,081.99	0.00	0.00	0.00

Database: GyrodataNWDB
 Company: ConocoPhillips
 Project: Lea County, NM
 Site: Buck 30 Federal COM
 Well: W3 1H
 Wellbore: Original Hole
 Design: Design #2

Local Co-ordinate Reference: Well W3 1H
 TVD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 MD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	90.00	179.71	12,550.50	-3,181.67	71.85	3,181.99	0.00	0.00	0.00
15,800.00	90.00	179.71	12,550.50	-3,281.67	72.35	3,281.99	0.00	0.00	0.00
15,900.00	90.00	179.71	12,550.50	-3,381.67	72.85	3,381.99	0.00	0.00	0.00
16,000.00	90.00	179.71	12,550.50	-3,481.67	73.35	3,481.99	0.00	0.00	0.00
16,100.00	90.00	179.71	12,550.50	-3,581.66	73.85	3,581.99	0.00	0.00	0.00
16,200.00	90.00	179.71	12,550.50	-3,681.66	74.35	3,681.99	0.00	0.00	0.00
16,300.00	90.00	179.71	12,550.50	-3,781.66	74.85	3,781.99	0.00	0.00	0.00
16,400.00	90.00	179.71	12,550.50	-3,881.66	75.35	3,881.99	0.00	0.00	0.00
16,500.00	90.00	179.71	12,550.50	-3,981.66	75.85	3,981.99	0.00	0.00	0.00
16,600.00	90.00	179.71	12,550.50	-4,081.66	76.35	4,081.99	0.00	0.00	0.00
16,700.00	90.00	179.71	12,550.50	-4,181.66	76.85	4,181.99	0.00	0.00	0.00
16,800.00	90.00	179.71	12,550.50	-4,281.66	77.35	4,281.99	0.00	0.00	0.00
16,900.00	90.00	179.71	12,550.50	-4,381.65	77.86	4,381.99	0.00	0.00	0.00
17,000.00	90.00	179.71	12,550.50	-4,481.65	78.36	4,481.99	0.00	0.00	0.00
17,100.00	90.00	179.71	12,550.50	-4,581.65	78.86	4,581.99	0.00	0.00	0.00
17,200.00	90.00	179.71	12,550.50	-4,681.65	79.36	4,681.99	0.00	0.00	0.00
17,300.00	90.00	179.71	12,550.50	-4,781.65	79.86	4,781.99	0.00	0.00	0.00
17,400.00	90.00	179.71	12,550.50	-4,881.65	80.36	4,881.99	0.00	0.00	0.00
17,500.00	90.00	179.71	12,550.50	-4,981.65	80.86	4,981.99	0.00	0.00	0.00
17,600.00	90.00	179.71	12,550.50	-5,081.65	81.36	5,081.99	0.00	0.00	0.00
17,700.00	90.00	179.71	12,550.50	-5,181.64	81.86	5,181.99	0.00	0.00	0.00
17,800.00	90.00	179.71	12,550.50	-5,281.64	82.36	5,281.99	0.00	0.00	0.00
17,900.00	90.00	179.71	12,550.50	-5,381.64	82.86	5,381.99	0.00	0.00	0.00
18,000.00	90.00	179.71	12,550.50	-5,481.64	83.36	5,481.99	0.00	0.00	0.00
18,100.00	90.00	179.71	12,550.50	-5,581.64	83.86	5,581.99	0.00	0.00	0.00
18,200.00	90.00	179.71	12,550.50	-5,681.64	84.36	5,681.99	0.00	0.00	0.00
18,300.00	90.00	179.71	12,550.50	-5,781.64	84.86	5,781.99	0.00	0.00	0.00
18,400.00	90.00	179.71	12,550.50	-5,881.64	85.36	5,881.99	0.00	0.00	0.00
18,500.00	90.00	179.71	12,550.50	-5,981.63	85.87	5,981.99	0.00	0.00	0.00
18,600.00	90.00	179.71	12,550.50	-6,081.63	86.37	6,081.99	0.00	0.00	0.00
18,700.00	90.00	179.71	12,550.50	-6,181.63	86.87	6,181.99	0.00	0.00	0.00
18,800.00	90.00	179.71	12,550.50	-6,281.63	87.37	6,281.99	0.00	0.00	0.00
18,900.00	90.00	179.71	12,550.50	-6,381.63	87.87	6,381.99	0.00	0.00	0.00
19,000.00	90.00	179.71	12,550.50	-6,481.63	88.37	6,481.99	0.00	0.00	0.00
19,100.00	90.00	179.71	12,550.50	-6,581.63	88.87	6,581.99	0.00	0.00	0.00
19,200.00	90.00	179.71	12,550.50	-6,681.63	89.37	6,681.99	0.00	0.00	0.00
19,300.00	90.00	179.71	12,550.50	-6,781.62	89.87	6,781.99	0.00	0.00	0.00
19,400.00	90.00	179.71	12,550.50	-6,881.62	90.37	6,881.99	0.00	0.00	0.00
19,493.75	90.00	179.71	12,550.50	-6,975.37	90.84	6,975.74	0.00	0.00	0.00

Design Targets

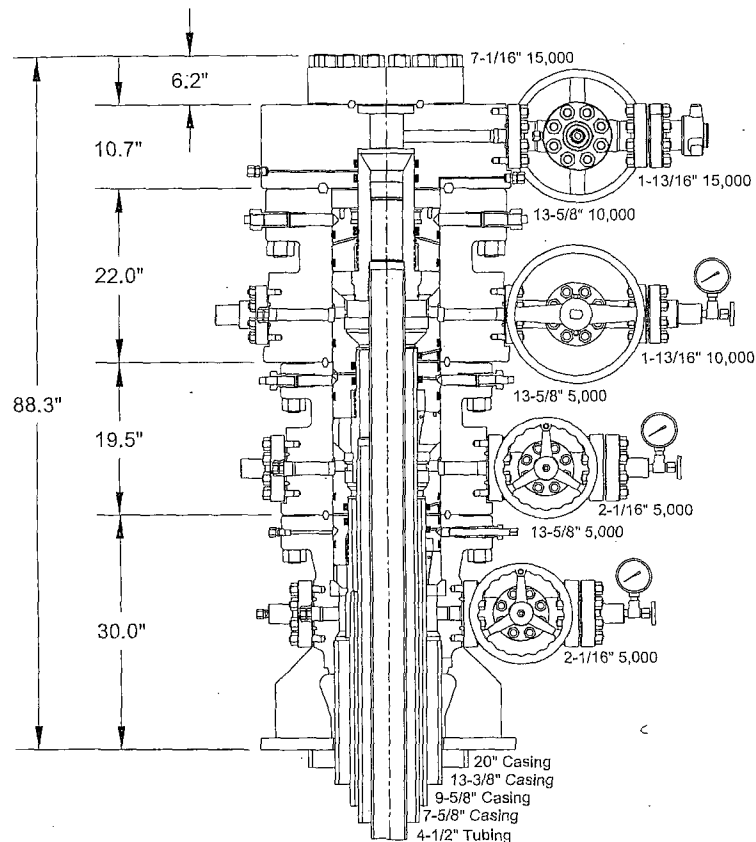
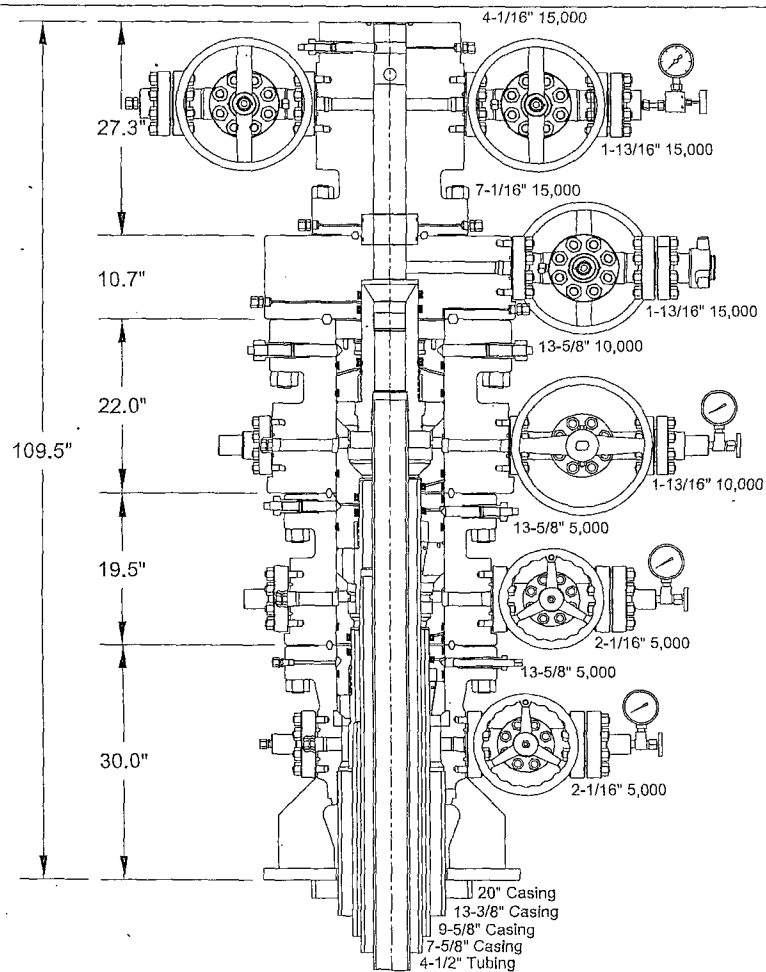
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Buck 30 W3 1H)	0.00	0.00	12,550.50	-6,975.37	90.84	364,624.86	689,757.34	32° 0' 3.57 N	103° 43' 16.32 W
- plan hits target center									
- Point									
LP (Buck 30 W3 1H)	0.00	0.00	12,550.50	-369.62	57.38	371,230.61	689,723.88	32° 1' 8.94 N	103° 43' 16.28 W
- plan misses target center by 0.39usft at 12887.91usft MD (12550.50 TVD, -369.62 N, 57.77 E)									
- Point									

Database: GyrodataNWDB
 Company: ConocoPhillips
 Project: Lea County, NM
 Site: Buck 30 Federal COM
 Well: W3 1H
 Wellbore: Original Hole
 Design: Design #2

Local Co-ordinate Reference: Well W3 1H
 TVD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 MD Reference: Well @ 3183.00usft (RKB: 25' + GL: 3158')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,952.78	1,950.00	Salado		0.00	0.00	
2,213.77	2,210.00	Castile		0.00	0.00	
4,164.84	4,156.00	Delaware		0.00	0.00	
4,164.84	4,156.00	Lamar		0.00	0.00	
4,202.84	4,194.00	Ramsey Sand 1		0.00	0.00	
4,261.84	4,253.00	Ramsey Shale		0.00	0.00	
4,280.84	4,272.00	Ramsey Sand 2		0.00	0.00	
4,312.84	4,304.00	Ford Shale		0.00	0.00	
4,330.84	4,322.00	Olds		0.00	0.00	
5,081.84	5,073.00	Cherry canyon		0.00	0.00	
6,843.84	6,835.00	Brushy Canyon		0.00	0.00	
7,931.84	7,923.00	Bone Springs		0.00	0.00	
8,218.84	8,210.00	BSp 1st Carb		0.00	0.00	
8,449.84	8,441.00	Avalon A		0.00	0.00	
8,583.84	8,575.00	Avalon B		0.00	0.00	
8,689.84	8,681.00	Avalon C		0.00	0.00	
9,156.84	9,148.00	BSp 1st Sand		0.00	0.00	
9,410.84	9,402.00	FBS		0.00	0.00	
9,587.84	9,579.00	BSp 2nd Carb		0.00	0.00	
9,813.84	9,805.00	Bsp 2nd Sand		0.00	0.00	
10,183.84	10,175.00	Bsp 3rd Carb		0.00	0.00	
10,579.74	10,570.90	TC Target		0.00	0.00	
10,975.84	10,967.00	Bsp 3rd Sand		0.00	0.00	
11,360.84	11,352.00	Wfcomp		0.00	0.00	
11,584.84	11,576.00	WC1		0.00	0.00	
11,709.84	11,701.00	W1 Target		0.00	0.00	
11,834.84	11,826.00	WC2		0.00	0.00	
12,102.63	12,093.00	W2 Target		0.00	0.00	
12,405.14	12,360.00	WC3		0.00	0.00	
12,886.38	12,550.50	W3 Target		0.00	0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	Build 1.5° / 100'	
3,433.33	3,424.92	190.83	51.13	Drop 1.5° / 100'	
11,986.38	11,977.54	204.87	54.89	KOP 10° / 100'	
12,886.37	12,550.50	-368.07	57.76	EOC / Landing Point	



GE Oil & Gas

Pressure Control

CONOCOPHILLIPS

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WELLHEAD ASS'Y, SH2 10,000 W/MTH 15,000

20" X 13-3/8" X 9-5/8" X 7-5/8" X 5-1/2"

WOLFCAMP

Not for Manufacturing Use.

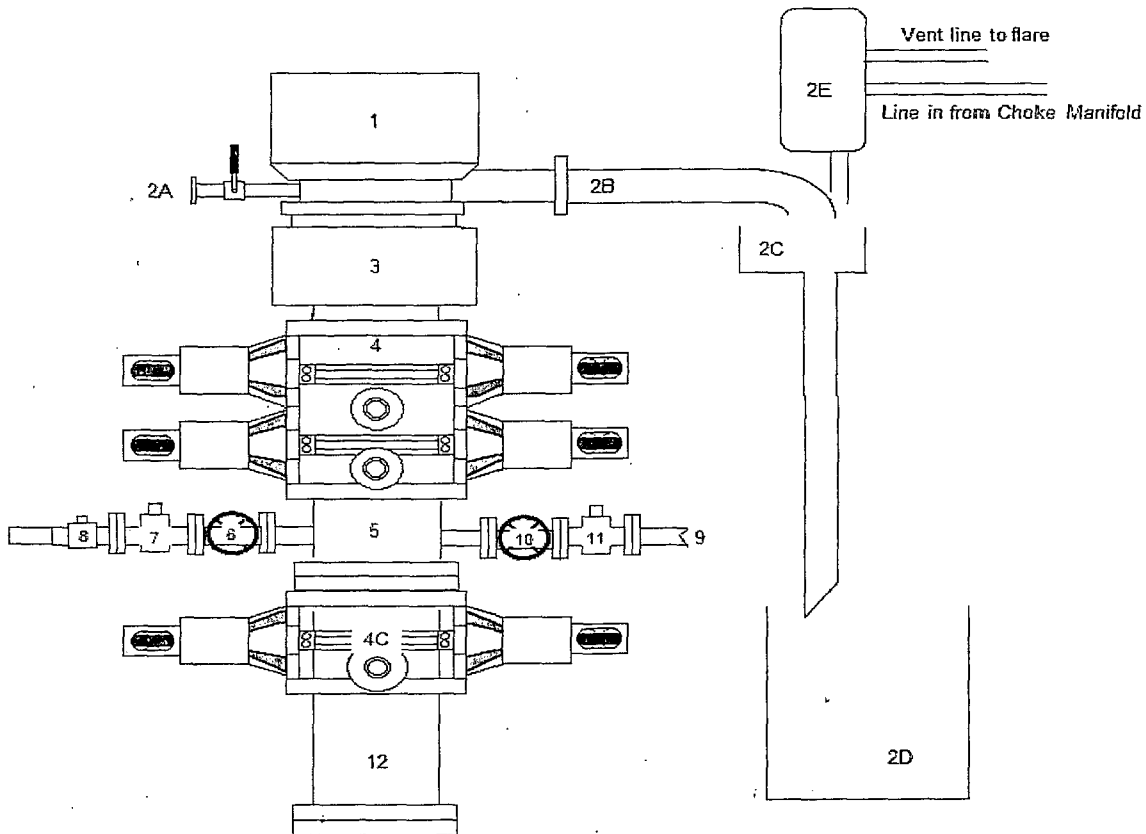
DRAWN SAA 20FEB14

APPRV.

DRAWING NO. HP140028-2
Rev. B

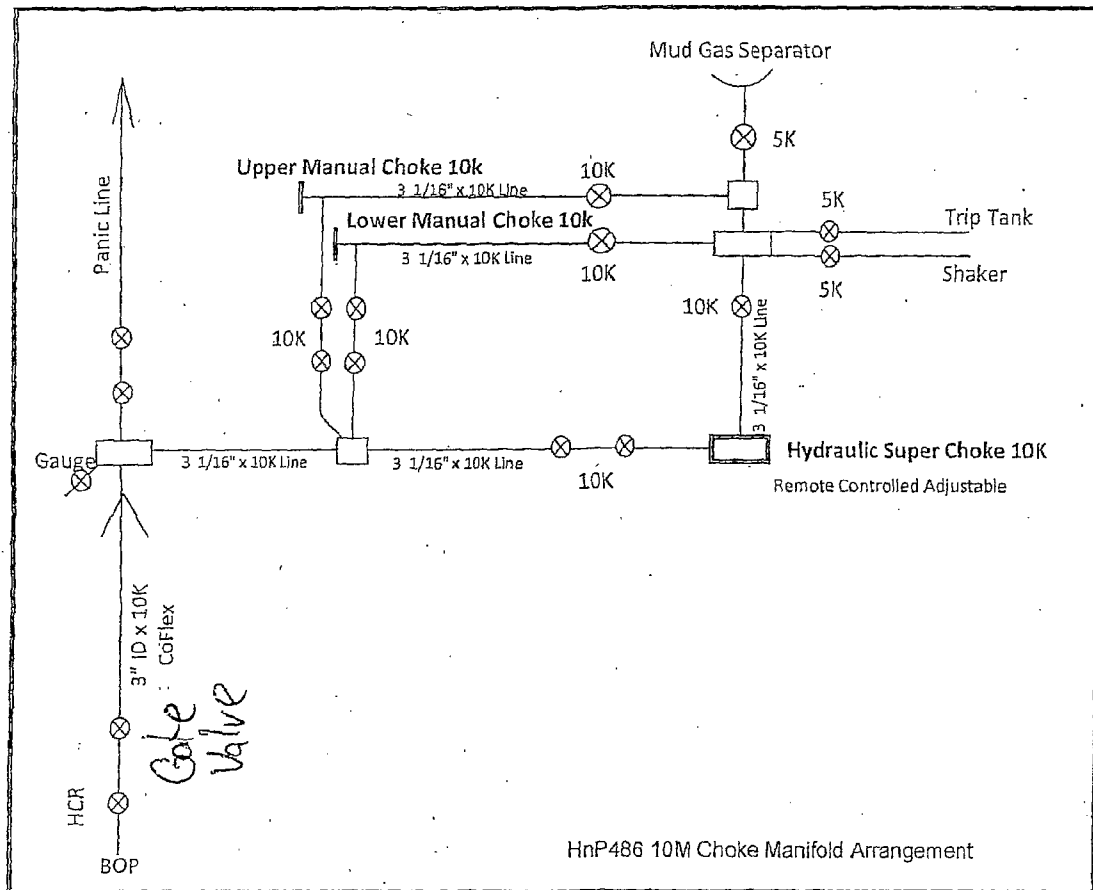
BLOWOUT PREVENTER ARRANGEMENT - H&P486

10M System per Onshore Oil and Gas Order No. 2 utilizing 10M Rated Equipment



Item	Description
1	Rotating Head
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Centrifuges
2D	Cuttings Bins for Zero Discharge
2E	Mud Gas Separator with vent line to flare and return line to mud system
3	Annular Preventer (13-5/8", 10M)
4	Double Ram (13-5/8", 10M, Blind Ram bottom x Pipe Ram top)
5	Drilling Spool (13-5/8" 10M)
4C	Single Ram (13-5/8", 10M, Pipe Rams)
6	Kill Line Valve, Inner (4-1/16", 10k psi WP)
7	Kill Line Valve, Outer (4-1/16", 10k psi WP)
8	Kill Line Check Valve (4-1/16", 10k psi WP)
9	Choke Line (4-1/16", 10k psi WP)
10	Choke Line Valve, Inner (4-1/16", 10k psi WP)
11	Choke Line Valve, Outer, (4-1/6" 10k psi WP HCR)
12	Drilling Spool Adapter (13-5/8", 10M)

Drawn by: James Chen P.E., Drilling Engineer, ConocoPhillips Company, April 11, 2014

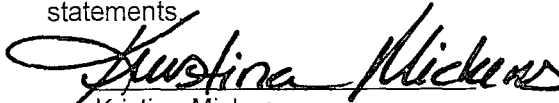


Operator Certification

CONOCOPHILLIPS COMPANY

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application with bond coverage provided by Nationwide Bond ES0085. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements

 Date: 05/22/2014
Kristina Mickens
Sr. Regulatory Specialist

Well Number: BUCK 30 FEDERAL COM W3 1H