AT5-12-429

Form 3160-3
(August 2007)

HOBBS OCD
OCD-HOBBS
APR 23 2012
RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMLC 068281B

6. If Indian, Allotee or Tribe Name:

1a. Type of work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.:

1b. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [ ] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.: Buck Federal 20 5H (39058)

2. Name of Operator: ConocoPhillips Company (217817)

9. API Well No.: 30-025- 40539

3a. Address: 3300 N "A" St, Bldg 6 Midland, TX 79705

3b. Phone No. (include area code): (432)688-6913 (97838) (96832)

10. Field and Pool, or Exploratory: ~~Red Hills~~; Bone Springs WC-025 G-05 S263203M

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface: 655 FNL 980 FEL, UL A, Sec 20, T 26S, R 32E

At proposed prod. zone: 330 FSL 980 FEL, UL P, Sec 20, T 26S, R 32E

11. Sec., T. R. M. or Blk. and Survey or Area: Sec 20, T 26S, R 32E

14. Distance in miles and direction from nearest town or post office*: 30 Miles south west of 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)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
330' FSL	~~640~~ 1841.48	160 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	**19. Proposed Depth**	**20. BLM/BIA Bond No. on file**
325' South of Russell Fed 13	8828' TVD 12900' MD	ES0085
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	**22. Approximate date work will start***	**23. Estimated duration**
3150' Gr	05/10/2012	25 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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed/Typed)	Date
B. Maiorino	Brian D Maiorino	02/21/2012

Title: Regulatory Specialist

Approved by (Signature)	Name (Printed/Typed)	Date
/s/ Cody R Layton		
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 Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APR 25 2012

OPERATORS NAME:	**ConocoPhillips Company**
LEASE NAME AND WELL NO.:	**Buck Federal 20 #5H**
SURFACE LOCATION:	**655 FNL & 980 FEL**
BHL:	**330 FSL & 908 FEL**
FIELD NAME:	**Red Hills**
POOL NAME:	**Bone Spring**
COUNTY:	**Lea County, New Mexico**

The following information is to supplement the Application for Permit to Drill.

DRILLING PLAN

1. Name and estimated tops of all geologic groups, formations, members, or zones.

Quaternary	Surface (TVD)	Water
Rustler	991	Salt
Castile	1832	Salt
Delaware Top	4332	Oil/gas/water
Ramsey	4370	Oil/gas/water
Ford Sand	4440	Oil/gas/water
Olds	4444	Oil/gas/water
Cherry Canyon Lower Top	6540	Oil/gas/water
Kick Off Point	8120	
Bone Spring	8163	Oil/gas/water
Bone Spring 1st carbonate top	8435	Oil/gas/water
Bone Spring 1st carbonate base	8533	Oil/gas/water
Avalon A shale Top	8682	Oil/gas/water
Avalon A shale base	8947	Oil/gas/water

2. Estimated depths and thickness of formations, members or zones potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals that the operator expects to encounter, and the operator's plans for protecting such resources.

Quanternary	Surface-991'	(water)
Rustler	991'-1832	(Salt)
Castile	1832'-4332'	(Salt)

All of the water bearing and salt formations identified above will be protected by the intermediate setting of the 9-5/8" casing and circulating of cement to surface

Bone Spring	8163-8947 (gas & gas/oil)

The geologic tops identified above from the Bone Spring/Avalon are part of the target formation.

3. The operator's minimum specifications for blowout prevention equipment and diverter systems to be used, including size, pressure rating, configuration, and the testing procedure and frequency.

A 5000# system will be installed, used, maintained, and tested accordingly. After nippling up, and every 30 days thereafter, preventors will be pressure tested. BOP will be inspected and operated at least daily to insure good working order. All pressure and operating tests will be recorded on the daily drilling reports. Ram Type preventors will be tested to rated working pressure. Annular type preventer(s) shall be tested to 50% of the approved BOP stack working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer. ConocoPhillips Company request a variance to the testing as follows: The 13 3/8 surface casing will be set at a depth of ~~700~~' and a Wood Group Pressure Control SH2 type wellhead will be installed on the 13 3/8" casing string. The SH2 type wellhead is a "multi-bowl" type wellhead system that allows the landing of multiple casing strings without having to remove the BOP to install additional wellhead components. This specific wellhead design consists of a 13 3/8" SOW x 13 5/8" 3M psi lower flange assembly with a 13 5/8" x 5M psi upper flange assembly. For the initial installation on the 13 3/8" surface casing, the maximum pressure application to the wellhead system is limited by the 3M psi flange rating. Once installed, the 3M psi wellhead flange will be isolated and all subsequent BOPe pressure testing can be performed to 5000 psi, consistent with the requirements of a 5M system as set forth in Onshore Order No. 2 and the APD Conditions of Approval. The SH2 wellhead schematic and proposed BOPe configuration is attached for reference. COP also request approval for use of one flex hose on the drilling rig. **See Attached BOPe Schematic and Testing Information and hose specifications.**

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition. For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

NEW CASING:

Casing Sring	Settig Depth MD	OD"	Wt lb/ft	Grade	Conn	MIY (psi)	Collapse (psi)	Jt Str (Klbs)	MASP	Burst DF	Collapse DF	Axial DF
Surface	~~900~~ 935	13-3/8	54.5	J-55	STC	2730	1130	514	1024	2.67	4.92	2.57
Intermdiate	4300	9-5/8	40.0	L-80	BTC	5750	3090	947	1995	2.88	2.62	4.74
Production	12900	5-1/2	17.0	P-110	BTC	10640	7840	568	-	2.17	5.32	2.84

See COA

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

a. 13-3/8" Csg: lead w/790 sx Class C cement + HalCem-C (Yeild: 1.33 cft)
Tail w/230 sx Class C cement + 1 lbm/sk EconoChem-HRLTRRC (Yield 1.85 cft/sk)
Circulate to surface. Based on 17-1/2" OH, with 150% excess

b. 9-5/8" Csg: lead w/11400 sx 50/50 Class C Poz + 2.5 gal/bbl WG-19 +
1 lbm/sk EconoCem-C (Yield: 2.48 cft/sk) Tail w/270 sx 'H' + HalCem C
(Yield 1.33 cft/sk) Circulate to surface. Based on 12.25" hole with 150% excess

C. 5-1/2" Csg lead w/670 sx HLH+ 0.3% Halad-9 + 5lbs/sk silicalite + 0.3% HR- 800
(Yield: 2.00 cft/sk) Tail w/400 sx 'H' + 0.4% Halad-9 + 0.1% WG-17 + 3.0% KCL +
0.3% HR-800 (Yield 1.2 cft/sk) circulate cement 500' into 9-5/8" casing. Based on
8-3/4" Hole w/150% excess

6. The anticipated type and characteristics of the proposed circulating medium or mediums proposed for the drilling of each wellbore section, the quantities and types of mud and weighting material to be maintained, and the monitoring equipment to be used on the circulating system.

Mud Program:

0-~~900'~~935	Aquagel/Spudmud	8.9#	Vis 32-36	WL: NC
~~9~~00-4300'	Brine	10.0#	Vis 28-30	WL: 5-8
4300-12,900'	Cut Brine	9.0#	Vis 30-40	WL: <=5

Gas detection equipment and pit level flow monitoring equipment will be on location. ConocoPhillips Company will maintain sufficient mud and weighted material on location at all times.

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures. See COA

a. DST Program: None
b. Mud Logging: Two-Man – 1000'-TD
c. Logs to be run: GR-MWD 4300-12900'

8. List the expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of the BLM.

The expected pressure gradient is 0.433 psi/ft or 9.0-9.1 ppg equivalent .The average anticipated bottom hole pressure ranges on average 4360 psi.

See COA — No hydrogen sulfide is expected to be encountered during drilling operations; however, the potential does exist for H2S. Please see attached H2S contingency plan to be used in the event of occurence

Any other facets of the proposed operation which the operator wishes to be considered in reviewing the application.

Anticipated Spud date of May 25, 2012. Construction of well pad and road will begin as soon as all agency approvals are obtained.

9. Address the proposed directional design, plan view, and vertical section in true vertical and measured depth for directional, horizontal, or coil tubing operations.

The proposed directional/horizontal documents are attached.

DRILLING PLAN

PROSPECT/FIELD	Bonespring/Red Hills			COUNTY/STATE		Lea County, NM
OWNERS	BURLINGTON RESOURCES			LEASE		
WELL NO.	BuckFederal 20 #5H		FNL	FSL	FEL	FWL
LOCATION	Surface Location		655		980	
	Bottom Hole Location			330	980	
EST. T.D.	Leg #1 12,900' MD			GROUND ELEV.		3,150' (est)

PROGNOSIS: Based on 3,172' KB(est)

Marker	TVD	S.S. Depth
Quaternary	Surface	
Rustler	991	2,181
Castile	1,832	1,340
Delaware Top	4332	-1160
Ramsey	4370	-1198
Ford Sh	4440	-1268
Olds	4444	-1272
Cherry Canyon Lower Top	6540	-3368
KOP (est)	**8120**	**-4948**
Bone Spring Top	8163	-4991
Bone Spring 1st Carbonate Top	8435	-5263
Bone Spring 1st Carbonate Base	8533	-5361
Avalon A Shale Top	8682	-5510
LANDING. Avalon A Shale Horizontal Upper Target Limit	8801	-5629
LANDING: Avalon A Shale Horizontal Target Center	**8826**	**-5654**
LANDING Avalon A Shale Horizontal Lower Target Limit	8851	-5679
TERMINUS Avalon A Shale Horizontal Upper Target Limit	8805	-5633
TERMINUS: Avalon A Shale Horizontal Target Center	**8830**	**-5658**
TERMINUS. Avalon A Shale Horizontal Lower Target Limit	8855	-5683
Avalon A Shale Base (Should not penetrate)	8947	-5775

LOGS:

Type	Interval
Open Hole	None
GR-MWD	4300-12900

DEVIATION:

Surf.	3° max., svy every 500'
Int1/2.	3° max., svy every 90'
Prod	

DST'S:

CORES: No coring

SAMPLES:

	Start	End
Mudlogging		
Two-Man	1000'	TD

BOP:

Nabors Rig M-09 BOPE (With Rotating Head)

COP Category 3 Well Control Requirements
- 13-5/8"-5Mpsi Annular (Hydril GK)
- 13-5/8"-5Mpsi Blind Ram (Cameron U)
- 13-5/8"-5Mpsi Cross / Choke & Kill Lines
- 13-5/8"-5M psi Pipe Ram (Cameron U)
- 13-5/8"-5Mpsi Spacer Spool

Dip Rate (See inclination prediction)

Max. Anticipated BHP: 0.65 psi/ft

Surface Formation:

MUD:

	Interval	Type	Max. MW	Vis	WL	Remarks
Surface:	0'-900'	Aquagel - Spud Mud	8.9	32-36	NC	
Intermediate 1:	900'-4300'	Brine	10.0	28-30	5-8	
Production Lat	4300'-12900'	Cut Brine	9.0	30-40	<=5	

CASING:

	Size	Wt ppf	Hole	Depth	Cement	WOC	Remarks
Surface.	13-3/8"	54.5	17-1/2"	900'	To Surface	18hrs	
Intermediate 1	9-5/8"	40	12-1/4"	4,300'	To Surface	18hrs	
Production Lat #1	5-1/2"	17	8-3/4"	12,900'	500' into 9-5/8"	18hrs	Long String

DIRECTIONAL PLAN

	MD	TVD	AZ
Surface:	N/A	N/A	N/A
Vertical KOP	8,120'	8,120'	180.0
End Build/ (90° curve).	9232'	8,828'	180.0
Tangent.	N/A	N/A	N/A
Turn.	N/A	N/A	N/A
TD:	12,900'	8,828'	180.0

Directional Company. DDC
Vertical Build Rate 8.1 °/100'
Tan Leg Turn Rate 0.0 °/100'

Comments:

Prep By:	Luis Serrano	Date:	2/22/12	Doc	REV 0

BuckFederal 20 #5H				
Surface Location			Bottom Hole Location	
655 FNL	980 FEL		330 FSL	980 FEL

Directional

	MD	TVD	FNL/FSL	FEL/FWL	S-T-R	AZI
Vertical KOP	8120	8120	0	0	0	180
End Build/ (90° curve)	9232	8,828	0	0	0	180 0
TD	12,900	8 828	0	0	0	180 0

Formation	TVD
Quaternary	
Rustler	991
Delaware Top	4,332
Ramsey	4,370
Ford Sh	4,440
Olds	4,444
Cherry Canyon Lower Top	6,540
KOP (est)	8,120
Bone Spring Top	8,163
Bone Spring 1st Carbonate Top	8,435
Bone Spring 1st Carbonate Base	8,533
Avalon A Shale Top	8,682
LANDING Avalon A Shale Horizontal Upper Target Limit	8,801
LANDING: Avalon A Shale Horizontal Target Center	8826
LANDING Avalon A Shale Horizontal Lower Target Limit	8,851
TERMINUS Avalon A Shale Horizontal Upper Target Limit	8,805
TERMINUS: Avalon A Shale Horizontal Target Center	8,830
TERMINUS Avalon A Shale Horizontal Lower Target Limit	8,855
Avalon A Shale Base (Should not penetrate)	8,947
0	
KOP@	8,120

CASING

Surface

900' 13-3/8" 54 5# J-55 STC

Intermediate 1

4,300' 9-5/8" 40# L-80 BTC

Drill Fluids

Surf. Hole.
FW gel mud
8 9#
32-36 Viscosity

Interm 1
Brine
10#
28-30 Viscosity
5-8 WL

Prod Hole.
Cut Brine
9#
30-40 Viscosity
<=5 WL

high vis sweeps as required

Cement

Data. These numbers are only estimates.

Surface:
790 Sx Lead
230 Sx Tail

Slurry Top
Surface
300' from Bottom

Intermediate 1
1 140 Sx Lead
270 Sx Tail

Slurry Top
Surface
700' from Bottom

Prodcution
670 Sx Lead
400 Sx Tail

Slurry Top
500' into 9-5/8"
3800' from Bottom

Analysis

Mudlogging.
Two-Man
1000' to TD

Notes for Well:

1. Refer to the drilling program for detailed casing, drilling fluids, bit etc.
2. Mud logger (two-man) to be on at surface casing depth of 900'
3. The curve will be drilled with ~ 8°/100' build rate and 180° Azimuth.
4. Begin LWD GR service after KOP 8120'.
5. Run 9-5/8" 40# L-80 BTC from surface to intermediate1 Section TD @ 4300'
6. RIH and Drill 8-3/4" hole to KOP @ 8120'
7. Kick off and drill curve to 9232' MD/8828' TVD (landing point) as per the directional plan POOH
8. Continue drilling the lateral 8-3/4" hole to TD @ 12900'
9. POOH Backreaming after circulating the hole until clean returns and run 5-1/2" casing String to TD
10. Cement as per the procedure, calculating the TOC to be at least 500' into the 9-5/8" casing string
11. Displace cement with 5% KCL Brine
12. POOH laying down pipe
13. ND BOPE. Install 10M tubing head Test connection
14. Release drilling rig

Production.
Casing. 5 1/2" 17# P-110 BTC
12,900' MD

Landing Point @ **9232' MD / 8828' TVD**

Max. Anticipated BHP 0 65 psi/ft

TD @ 12,900' MD
8,828' TVD

Vick Harvey
Geologist
Date

Luis Serrano
Drilling Engineer
Date

Luis Alejandro Serrano S.
CONOCOPHILLIPS/MCBU
Staff Drilling Engineer - PERMIAN
Off. 832-486-2346
Cell 432-599.1926

Bonespring/Red Hills
BURLINGTON RESOURCES
BuckFederal 20 #5H

0

Surface Casing:	
Surface Casing Depth (Ft)	900
Surface Casing O.D. (In.)	13.375
Surface Casing ID (In)	12.715
Hole O.D. (In)	17.5
Excess (%)	150%
Volume Tail (Sx)	230
Yield Tail (Cu. Ft./Sx)	1.85
Yield Lead (Cu. Ft./Sx)	1.33
Shoe Joint (Ft)	40
Shoe Volume (Cu. Ft)	35.3
Tail feet of cement	300
Calculated Total Volume (Cu. Ft.)	1,494
Calc. Tail Volume (Cu. Ft.)	417
Calc. Lead Volume (Cu. Ft.)	1,042
Calc. Lead Volume (Sx)	790

Intermediate1 Casing (Lead):	
Intermediate Casing O.D. (In.)	9.625
Intermediate Casing ID (In)	8.835
Hole O.D. (In)	12.25
Excess (%)	150%
cap 12-1/4 - 9-5/8"	0.0558
Calculated fill:	3,600'
Yield Lead (Cu. Ft./Sx)	2.48
Calculated Total Lead (Cu. Ft.)	2,819
Calc. Lead Volume (Sx)	1140

Production Casing (Lead):	
Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	4.892
Hole O.D. (In)	8.75
Excess (%)	100%
cap 5-1/2" - 8-3/4" bls/ft	0.0450
cap 5-1/2 - 9-5/8" bls/ft	0.0408
Calculated fill: (500' into 9-5/8")	5,300'
Yield Lead (Cu. Ft./Sx)	2.0
Calculated Total Lead (Cu. Ft.)	1,339
Calc. Lead Volume (Sx)	670

Intermediate1 Casing (Tail):			
Intermediate Casing O.D. (In.)	9-5/8"		
Production Casing ID (In)	8.835		
Hole O.D. (In)	12.25		
Excess (%)	150%		
cap 12-1/4 - 9-5/8"	0.0558		
Calculated fill:	700'		
Yield Tail (Cu. Ft./Sx)	1.33		
Shoe Joint (Ft)	40		
Shoe Volume (Cu. Ft)	17.0		
Calc. Tail Volume (Cu. Ft.)	346		5480
Required Tail Volume (Sx)	270		

Production Casing (Tail):			
Intermediate Casing O.D. (In.)	5.500		
Intermediate Casing ID (In)	4.982		
Hole O.D. (In)	8.75		
Excess (%)	50%		
cap 5-1/2" - 8-3/4" bls/ft	0.0450		
cap 7 - 9-5/8" bls/ft			
Calculated fill:	3,800'	3,800'	
Yield Lead (Cu. Ft./Sx)	1.2		
Calculated Total Tail (Cu. Ft.)	480		9100
Required Tail Volume (Sx)	400		5300

7850

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ConocoPhillips MCBU

Permian Hz Bonespring/Avalon
Buck Federal 20
Buck Federal 20 #5H

Wellbore #1

Plan: Plan BLM

Standard Planning Report

22 February, 2012

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Buck Federal 20 #5H
Company:	ConocoPhillips MCBU	**TVD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	**MD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Site:	Buck Federal 20	**North Reference:**	True
Well:	Buck Federal 20 #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan BLM		

Project Permian Hz Bonespring/Avalon

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas South Central 4204		

Site Buck Federal 20

Site Position:		**Northing:**	m	**Latitude:**	
From:	None	**Easting:**	m	**Longitude:**	
Position Uncertainty:	0.0 ft	**Slot Radius:**	in	**Grid Convergence:**	0.00 °

Well Buck Federal 20 #5H

Well Position	**+N/-S**	0.0 ft	**Northing:**	0.00 m	**Latitude:**	27° 41' 16.664 N
	+E/-W	0.0 ft	**Easting:**	0.00 m	**Longitude:**	105° 10' 51.259 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,150.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	2/22/2012	7.85	55.38	45,534

Design Plan BLM

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0 0	0.0	180.00

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,120 0	0.00	180.00	8,120 0	0.0	0.0	0.00	0.00	0.00	180.00	
9,232.1	90.00	180.00	8,828.0	-708 0	0.0	8.09	8 09	0.00	180.00	
12,882.0	90.00	180.00	8,828.0	-4,357.9	0.0	0.00	0.00	0.00	0.00	

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Buck Federal 20 #5H
Company:	ConocoPhillips MCBU	**TVD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	**MD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Site:	Buck Federal 20	**North Reference:**	True
Well:	Buck Federal 20 #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan BLM		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	180 00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	180.00	200 0	0.0	0.0	0.0	0.00	0.00	0 00
300.0	0.00	180.00	300 0	0.0	0.0	0 0	0.00	0 00	0 00
400.0	0.00	180.00	400 0	0.0	0.0	0 0	0 00	0.00	0.00
500.0	0.00	180.00	500.0	0.0	0.0	0 0	0 00	0.00	0.00
600.0	0.00	180.00	600 0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	180 00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	180.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	180.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	180.00	1,000.0	0.0	0.0	0.0	0.00	0 00	0.00
1,100.0	0.00	180 00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	180.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	180.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400 0	0.00	180.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	180.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	180.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700 0	0.00	180.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	180.00	1,800.0	0.0	0.0	0 0	0.00	0.00	0.00
1,900.0	0.00	180.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	180.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	180.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	180.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	180.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	180.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	180.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600 0	0.00	180.00	2,600.0	0.0	0.0	0.0	0 00	0.00	0.00
2,700 0	0.00	180.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	180.00	2,800 0	0.0	0.0	0.0	0.00	0.00	0 00
2,900.0	0.00	180.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000 0	0.00	180.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	180.00	3,100 0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	180.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	180.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	180.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	180.00	3,500 0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	180.00	3,600.0	0.0	0.0	0.0	0.00	0 00	0.00
3,700.0	0.00	180.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	180.00	3,800.0	0.0	0.0	0 0	0 00	0.00	0.00
3,900.0	0.00	180.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	180.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	180.00	4,100 0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	180 00	4,200 0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	180 00	4,300.0	0.0	0.0	0.0	0.00	0.00	0 00
4,400.0	0.00	180.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	180.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	180.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	180.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	180.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	180.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	180.00	5,000.0	0.0	0.0	0.0	0 00	0.00	0.00
5,100.0	0.00	180.00	5,100.0	0.0	0.0	0.0	0 00	0.00	0.00
5,200.0	0.00	180.00	5,200.0	0.0	0.0	0 0	0.00	0.00	0.00
5,300.0	0.00	180.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Buck Federal 20 #5H
Company:	ConocoPhillips MCBU	**TVD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	**MD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Site:	Buck Federal 20	**North Reference:**	True
Well:	Buck Federal 20 #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan BLM		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	180.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	180.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	180.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	180.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	180.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	180.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	180.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	180.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	180.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	180.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	180.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	180.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	180.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	180.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	180.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	180.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	180.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	180.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	180.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	180.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	180.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	180.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	180.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	180.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	180.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	180.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	180.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	180.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,120.0	0.00	180.00	8,120.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	6.47	180.00	8,199.8	-4.5	0.0	4.5	8.09	8.09	0.00
8,300.0	14.57	180.00	8,298.1	-22.8	0.0	22.8	8.09	8.09	0.00
8,400.0	22.66	180.00	8,392.8	-54.7	0.0	54.7	8.09	8.09	0.00
8,500.0	30.75	180.00	8,482.0	-99.6	0.0	99.6	8.09	8.09	0.00
8,600.0	38.84	180.00	8,564.1	-156.6	0.0	156.6	8.09	8.09	0.00
8,700.0	46.94	180.00	8,637.3	-224.6	0.0	224.6	8.09	8.09	0.00
8,800.0	55.03	180.00	8,700.2	-302.2	0.0	302.2	8.09	8.09	0.00
8,900.0	63.12	180.00	8,751.5	-387.9	0.0	387.9	8.09	8.09	0.00
9,000.0	71.22	180.00	8,790.3	-480.0	0.0	480.0	8.09	8.09	0.00
9,100.0	79.31	180.00	8,815.7	-576.7	0.0	576.7	8.09	8.09	0.00
9,200.0	87.40	180.00	8,827.3	-675.9	0.0	675.9	8.09	8.09	0.00
9,232.1	90.00	180.00	8,828.0	-708.0	0.0	708.0	8.10	8.10	0.00
9,300.0	90.00	180.00	8,828.0	-775.9	0.0	775.9	0.00	0.00	0.00
9,400.0	90.00	180.00	8,828.0	-875.9	0.0	875.9	0.00	0.00	0.00
9,500.0	90.00	180.00	8,828.0	-975.9	0.0	975.9	0.00	0.00	0.00
9,600.0	90.00	180.00	8,828.0	-1,075.9	0.0	1,075.9	0.00	0.00	0.00
9,700.0	90.00	180.00	8,828.0	-1,175.9	0.0	1,175.9	0.00	0.00	0.00
9,800.0	90.00	180.00	8,828.0	-1,275.9	0.0	1,275.9	0.00	0.00	0.00
9,900.0	90.00	180.00	8,828.0	-1,375.9	0.0	1,375.9	0.00	0.00	0.00
10,000.0	90.00	180.00	8,828.0	-1,475.9	0.0	1,475.9	0.00	0.00	0.00
10,100.0	90.00	180.00	8,828.0	-1,575.9	0.0	1,575.9	0.00	0.00	0.00
10,200.0	90.00	180.00	8,828.0	-1,675.9	0.0	1,675.9	0.00	0.00	0.00
10,300.0	90.00	180.00	8,828.0	-1,775.9	0.0	1,775.9	0.00	0.00	0.00
10,400.0	90.00	180.00	8,828.0	-1,875.9	0.0	1,875.9	0.00	0.00	0.00

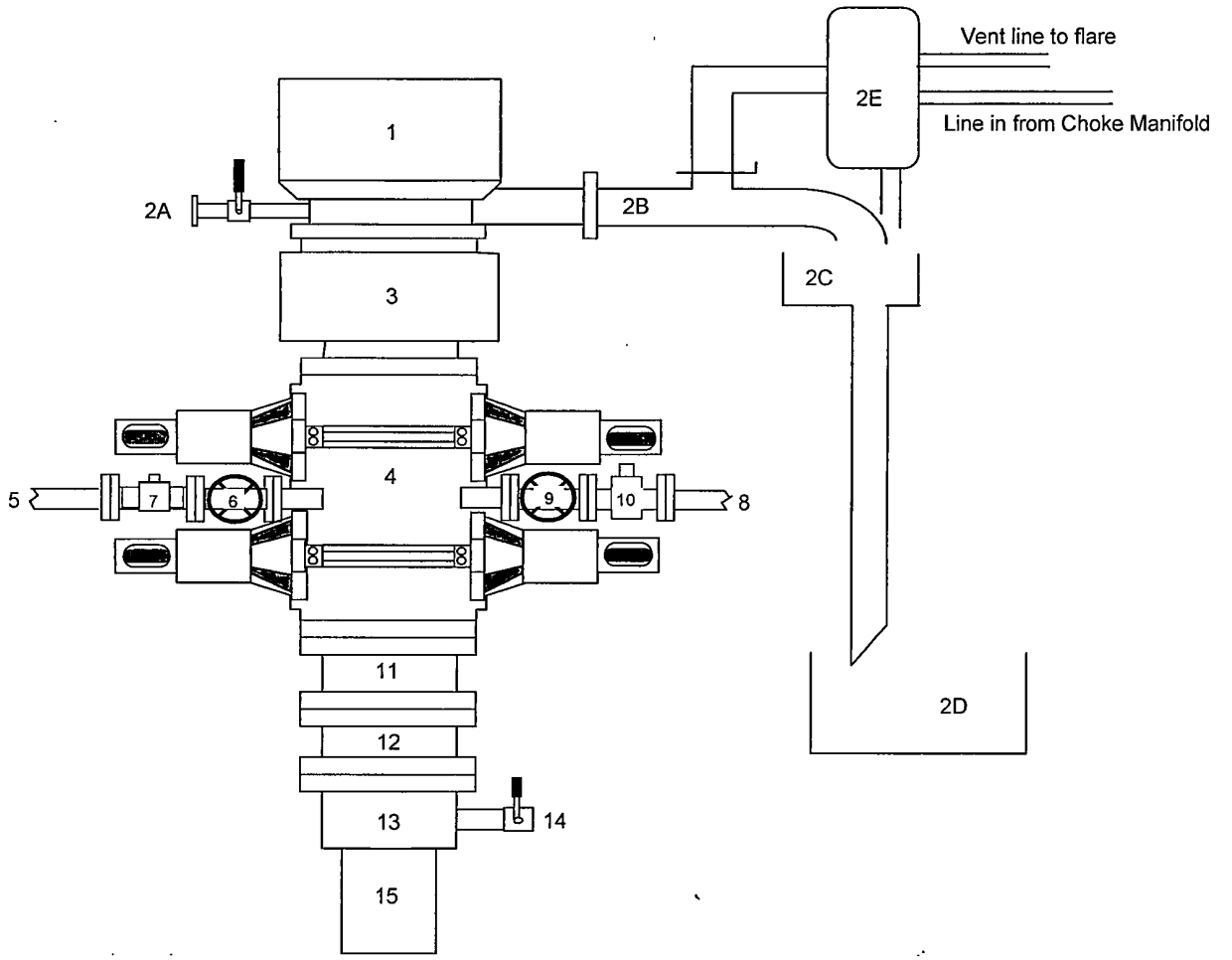
Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Buck Federal 20 #5H
Company:	ConocoPhillips MCBU	**TVD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	**MD Reference:**	WELL @ 3172.0ft (Original Well Elev)
Site:	Buck Federal 20	**North Reference:**	True
Well:	Buck Federal 20 #5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan BLM		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.0	90.00	180.00	8,828.0	-1,975.9	0.0	1,975.9	0.00	0.00	0.00
10,600.0	90.00	180.00	8,828.0	-2,075.9	0.0	2,075.9	0.00	0.00	0.00
10,700.0	90.00	180.00	8,828.0	-2,175.9	0.0	2,175.9	0.00	0.00	0.00
10,800.0	90.00	180.00	8,828.0	-2,275.9	0.0	2,275.9	0.00	0.00	0.00
10,900.0	90.00	180.00	8,828.0	-2,375.9	0.0	2,375.9	0.00	0.00	0.00
11,000.0	90.00	180.00	8,828.0	-2,475.9	0.0	2,475.9	0.00	0.00	0.00
11,100.0	90.00	180.00	8,828.0	-2,575.9	0.0	2,575.9	0.00	0.00	0.00
11,200.0	90.00	180.00	8,828.0	-2,675.9	0.0	2,675.9	0.00	0.00	0.00
11,300.0	90.00	180.00	8,828.0	-2,775.9	0.0	2,775.9	0.00	0.00	0.00
11,400.0	90.00	180.00	8,828.0	-2,875.9	0.0	2,875.9	0.00	0.00	0.00
11,500.0	90.00	180.00	8,828.0	-2,975.9	0.0	2,975.9	0.00	0.00	0.00
11,600.0	90.00	180.00	8,828.0	-3,075.9	0.0	3,075.9	0.00	0.00	0.00
11,700.0	90.00	180.00	8,828.0	-3,175.9	0.0	3,175.9	0.00	0.00	0.00
11,800.0	90.00	180.00	8,828.0	-3,275.9	0.0	3,275.9	0.00	0.00	0.00
11,900.0	90.00	180.00	8,828.0	-3,375.9	0.0	3,375.9	0.00	0.00	0.00
12,000.0	90.00	180.00	8,828.0	-3,475.9	0.0	3,475.9	0.00	0.00	0.00
12,100.0	90.00	180.00	8,828.0	-3,575.9	0.0	3,575.9	0.00	0.00	0.00
12,200.0	90.00	180.00	8,828.0	-3,675.9	0.0	3,675.9	0.00	0.00	0.00
12,300.0	90.00	180.00	8,828.0	-3,775.9	0.0	3,775.9	0.00	0.00	0.00
12,400.0	90.00	180.00	8,828.0	-3,875.9	0.0	3,875.9	0.00	0.00	0.00
12,500.0	90.00	180.00	8,828.0	-3,975.9	0.0	3,975.9	0.00	0.00	0.00
12,600.0	90.00	180.00	8,828.0	-4,075.9	0.0	4,075.9	0.00	0.00	0.00
12,700.0	90.00	180.00	8,828.0	-4,175.9	0.0	4,175.9	0.00	0.00	0.00
12,800.0	90.00	180.00	8,828.0	-4,275.9	0.0	4,275.9	0.00	0.00	0.00
12,882.0	90.00	180.00	8,828.0	-4,357.9	0.0	4,357.9	0.00	0.00	0.00

BLOWOUT PREVENTER ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 5M Rated Equipment

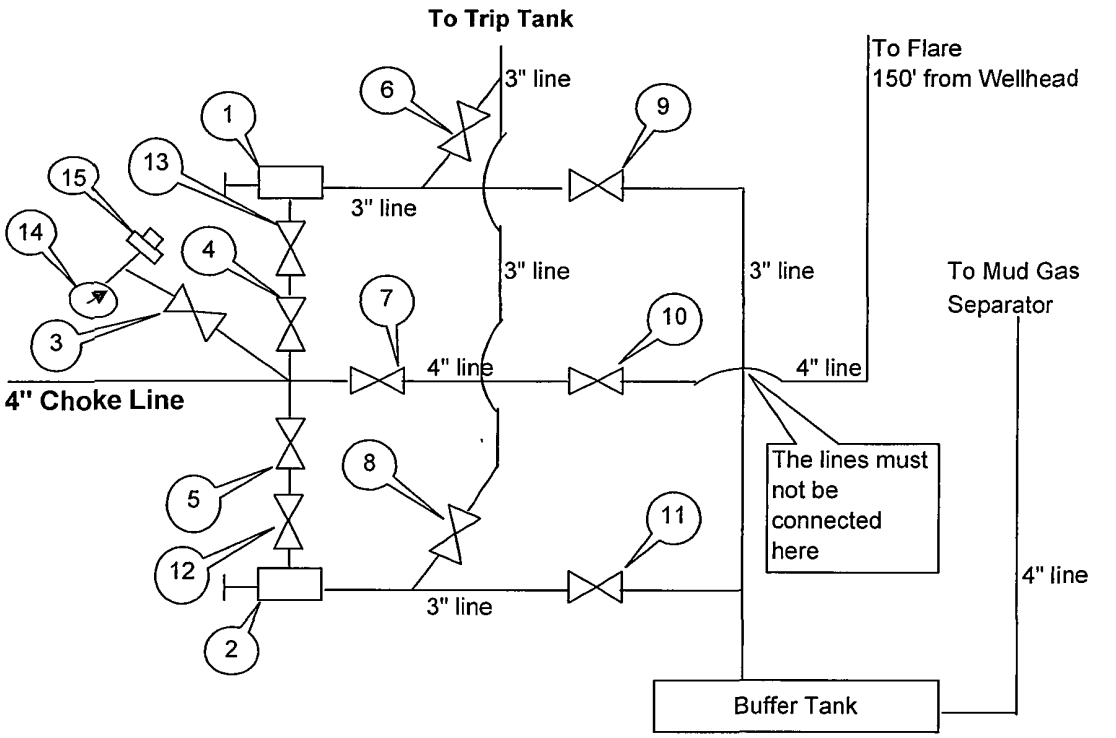


Item	Description
1	Rotating Head (13-5/8", 3M)
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (13-5/8", 5M)
4	Double Ram BOP (13-5/8", 5M with Blind Rams in Upper Set and Pipe Rams in Lower Set)
5	Kill Line (2" chicksan, 5000 psi WP)
6	Kill Line Valve, Inner (2", 5000 psi WP)
7	Kill Line Check Valve (2", 5000 psi WP
8	Choke Line (4" Flexible Steel Line, 5000 psi WP)
9	Choke Line Valve, Inner (4", 5000 psi WP)
10	Choke Line Valve, Outer, (Hydraulically operated, 4", 5000 psi WP
11	Spacer Spool (13-5/8" 5M)
12	Spacer Spool (13-5/8" 5M)
13	Casing Head (13-5/8" 5M)
14	Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M
15	Surface Casing

Drawn by: Steven O. Moore, Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 22-Dec-2011

CHOKE MANIFOLD ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 10M rated equipment



Item	Description
1	Manual Adjustable Choke, 3-1/16, 10M
2	Manual Adjustable Choke, 3-1/16, 10M
3	Gate Valve, 2-1/16 10M
4	Gate Valve, 3-1/16 10M
5	Gate Valve, 3-1/16 10M
6	Gate Valve, 3-1/16 10M
7	Gate Valve, 4-1/16" 10M
8	Gate Valve, 3-1/16 10M
9	Gate Valve, 3-1/16 10M
10	Gate Valve, 4-1/16" 10M
11	Gate Valve, 3-1/16 5M
12	Gate Valve, 3-1/16 10M
13	Gate Valve, 3-1/16 10M
14	Pressure Gauge
15	2" hammer union tie-in point for BOP Tester

Drawn by:
Steven O. Moore
Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company
01-Feb-2012

Stage 2 — . Install Split Speed Head With Riser Assembly

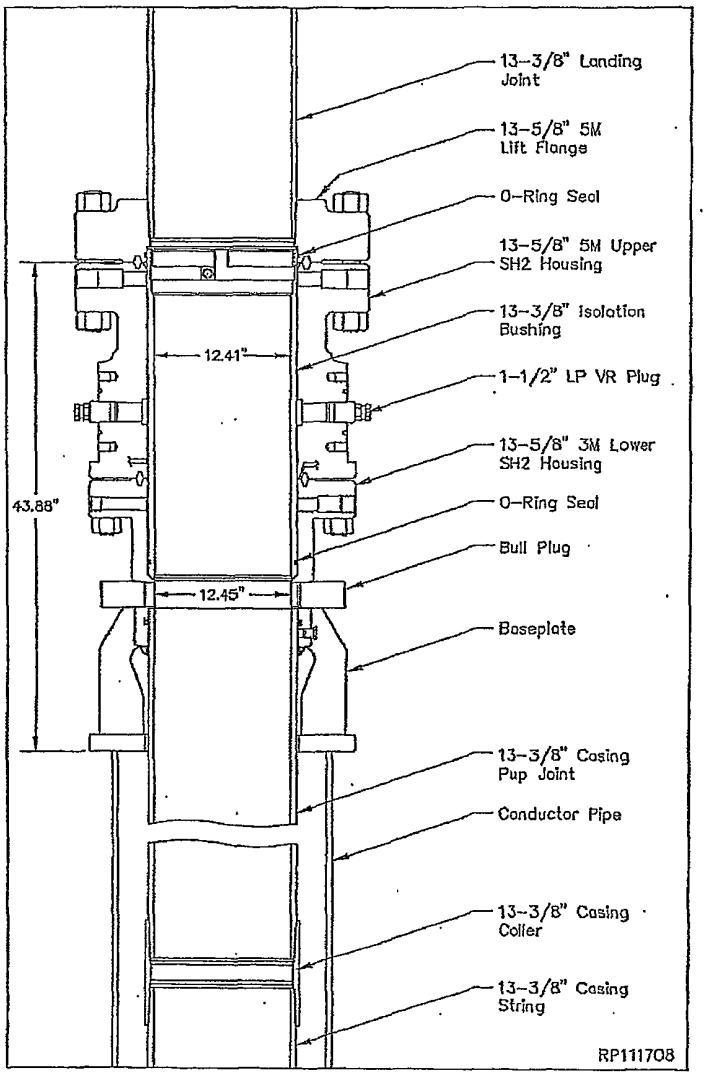
1. Drill and condition hole for surface casing.
2. Cut the conductor pipe off at the correct height above the cellar floor and grind stub level.

Note: The SH2 Riser Assembly is pre-assembled and tested prior to being shipped to location. The assembly is made up of a full length landing joint with flange, upper and lower SH2 housings, and a 10' long pup joint.

3. Examine the *13-5/8" 5M x 13-3/8" SOW SH2 Speed Head/Riser Assembly (Items A1 & B1)*. Verify the following:
   - 10' pup joint is properly welded in place and casing threads are clean and in good condition
   - all outlet equipment has been removed including all studs and nuts, and valves
   - VR plugs are in place and tight
   - base plate is intact and properly welded to the casing head
   - isolation bushing is in place and properly retained with landing flange
   - landing flange with landing joint are in place and connection is properly made up

Note: Lockscrews are removed to clear 27-1/2" rotary.

4. Run the surface casing to the required depth and then set the last joint of casing run in the floor slips.
5. Pick up the SH2 Riser Assembly and make up the assembly in the casing string, tightening the thread connection to the thread manufacturers optimum make up torque.
6. Pick up the casing string and remove the floor slips and rotary bushings.
7. Slowly and carefully lower the assembly through the rotary table until the baseplate contacts the conductor pipe stub. Slack off all weight.
9. Remove the duct tape from the O.D. of both the upper and lower flanges of the assembly and lightly grease all threaded lockscrew holes.
10. Locate the (six) 1-1/4" and the (twelve) 1-1/2" lockscrew assemblies.



11. Install the 1-1/4" integral lockscrew assemblies in the upper flange and the 1-1/4" assemblies in the lower flange as indicated. (Ref. Dwg. RP111709)
12. Rig up the cement head and cement the surface casing string as per program, taking returns through the circulation ports in the baseplate.
13. After the cement job is completed, bleed off and remove the cement head.
14. Remove the landing flange with landing joint and set aside.

COPPER STATE RUBBER
VISUAL INSPECTION / HYDROSTATIC TEST REPORT
CHOKE & KILL HOSE
10,000 P.S.I. W/P X 15,000 P.S.I. T/P
SPEC: 090-1915 HS
H2S SUITABLE

SHOP ORDER NO.: 16528 SIZE: 3" I.D.

SERIAL NO.: 22269 LENGTH 25 FT. IN.

CONNECTIONS: 4-1/16" 10,000 PSI API FLANGE

VISUAL INSPECTION

(A) END CAPS / SLEEVE RECESS: OK
(B) EXTERIOR / COVER / BRANDING: OK
(C) INTERIOR TUBE: OK

HYDROSTATIC TEST

5 MIN. @ 10,000 PSI

2 MIN. @ 0 PSI 25' 3" OAL

3 MIN. @ 15,000 PSI

WITNESSED BY:

DATE February 23, 2007

FORM QA-21- REV-2
3-22-00

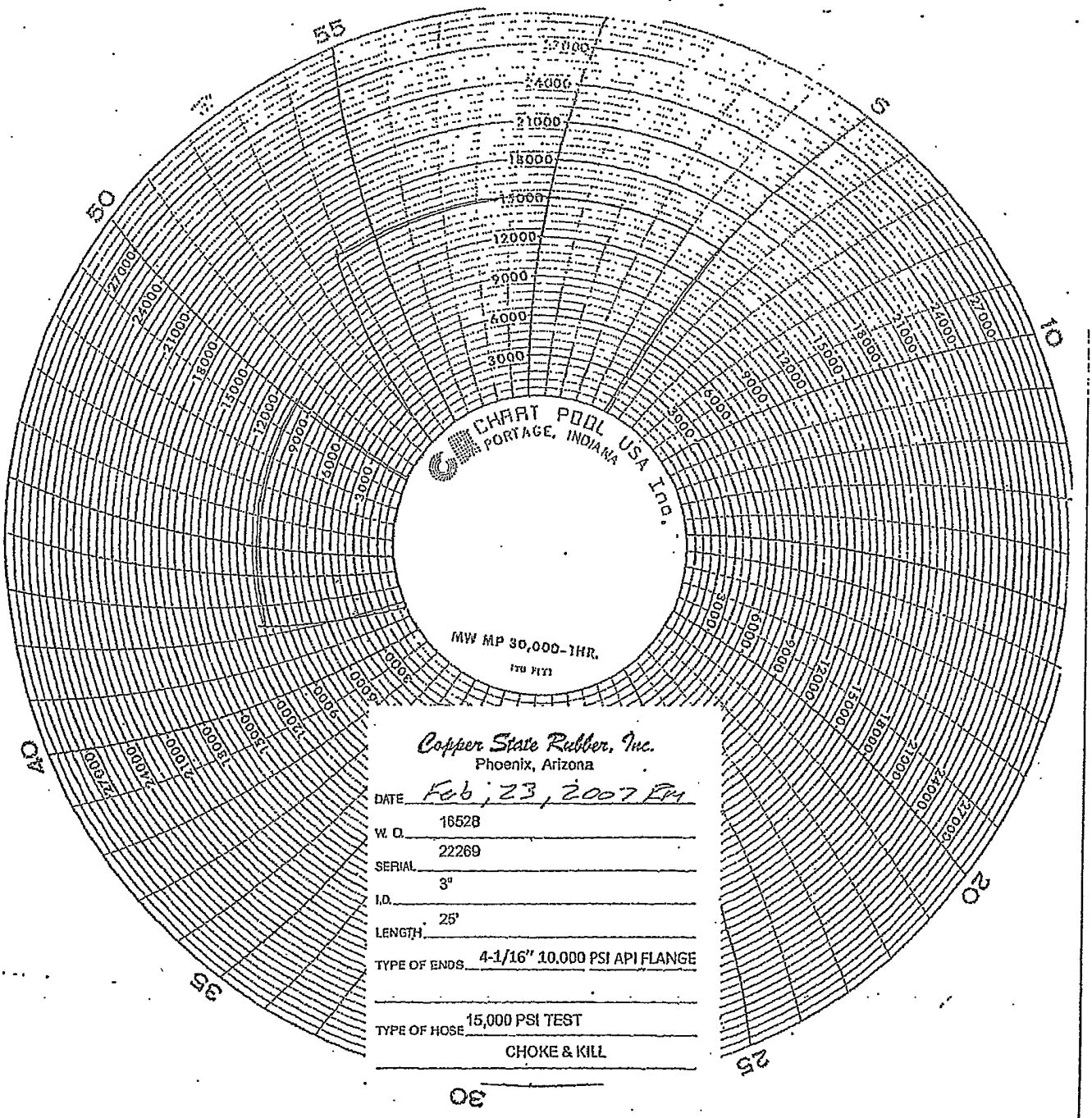


CHART POOL USA Inc.
PORTAGE, INDIANA
MW MP 30,000-1HR.
Copper State Rubber, Inc.
Phoenix, Arizona
DATE Feb ; 23 , 2007 PM
W. O. 16528
SERIAL 22269
I.D. 3"
LENGTH 25'
TYPE OF ENDS 4-1/16" 10,000 PSI API FLANGE
TYPE OF HOSE 15,000 PSI TEST
CHOKE & KILL

M09 CHOKE HOSE SPECIFICATIONS

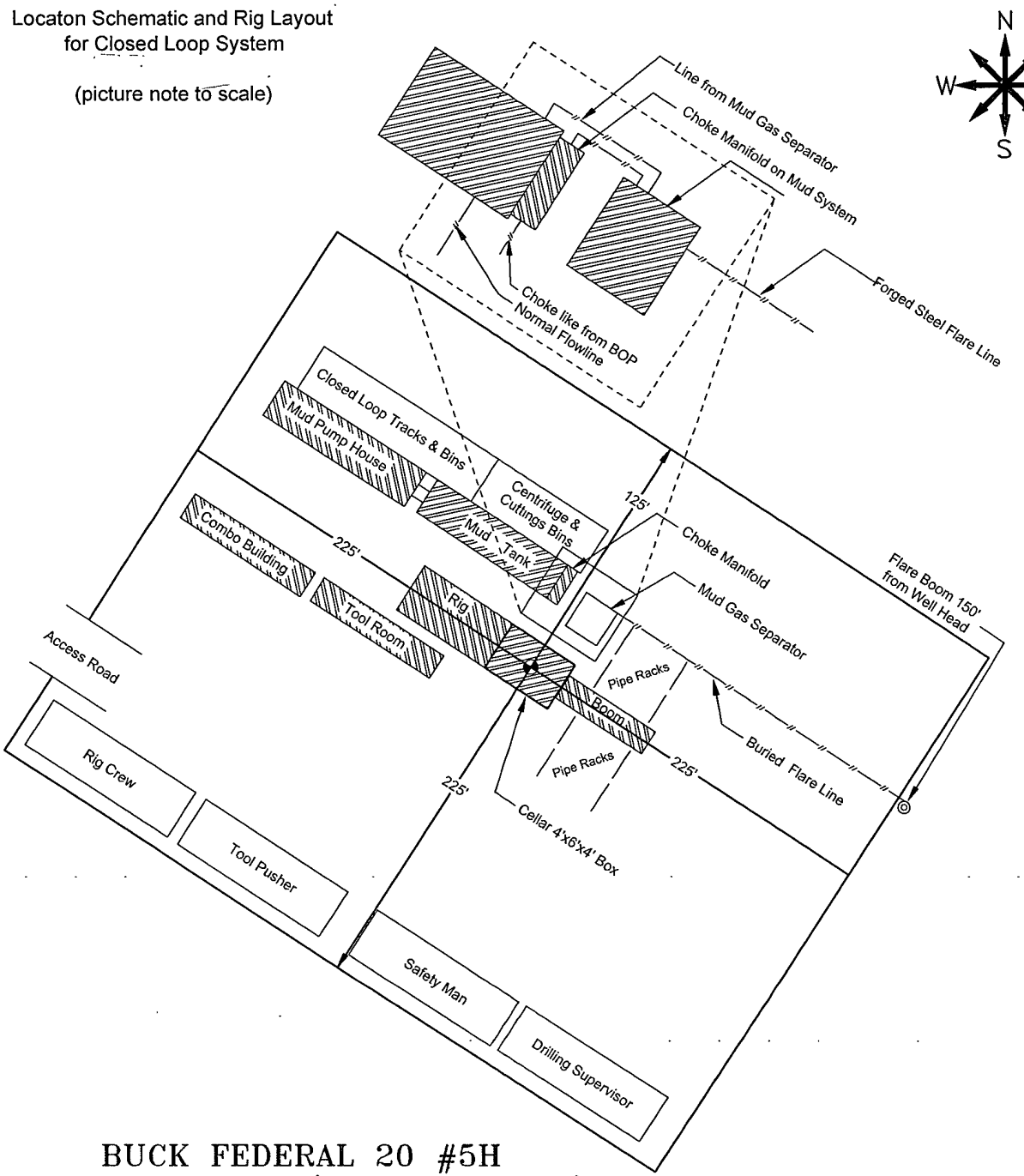
HOSE MANUFACTURER	HOSE MANUFACTURED DATE	HOSE SERIAL #	HOSE OD	HOSE ID	WORKING PSI	TEST PSI
COPPER STATE RUBBER	2/2007 USA	22269	6.25	3	10K	15K

FLANGE	FLANGE MANUFACTERED DATE	RING TYPE				
4 1/16 10M	11/8/2006	BX153				

RIG LAYOUT

Locaton Schematic and Rig Layout
for Closed Loop System

(picture note to scale)



BUCK FEDERAL 20 #5H
Located 655' FNL and 980' FEL
Section 20, Township 26 South, Range 32 East,
N.M.P.M., Lea County, New Mexico.

basin surveys
focused on excellence in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number:	JMS 26114
Survey Date:	02-09-2012
Scale:	1" = NONE
Date:	02-20-2012

ConocoPhillips

ConocoPhillips Company
Closed Loop System Design, Operating and Maintenance, and Closure Plan

Well: Buck Federal 20 #5H

Date: February 21, 2012

ConocoPhillips proposes the following plan for design, operating and maintenance, and closure of our proposed closed loop system for the above named well:

1. We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, nor will we use a drying pad, nor will we dispose of or bury any waste on location.

   All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in haul-off bins or in frac tanks as needed. The intent is as follows:
   - We propose to use the rigs's steel pits for containing and maintaining the drilling fluids.
   - We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
   - We propose that any excess water that may need to be stored on location will be stored in a fresh water pond.

   The closed loop system components will be inspected daily by each tour and any needed repairs will be made immediately. Any leak in the system will be repaired immediately, and any spilled liquids and / or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.

2. Cuttings and solids will be removed from location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

   Controlled Recovery Inc,
   4507 West Carlsbad Hwy, Hobbs, NM 88240,
   P.O. Box 388 Hobbs, New Mexico 88241
   Toll Free Phone: 877.505.4274, Local Phone Number: 432-638-4076

   The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

   The Permit Number for CRI is R9166

   A photograph showing the type of haul-off bins that will be used is attached.

3. Mud will be transported by vacuum truck and disposed of at Controlled Recovery Inc at the facility described above.

4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:

   - Nabors Well Services Company, 3221 NW County Rd, Hobbs, NM 88240, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: Section 3, T19S R37E)

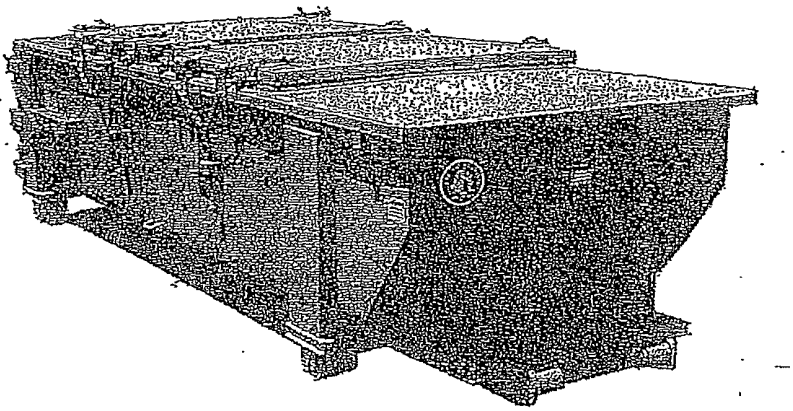
   - Basic Energy Services, PO Box 1869 Eunice, NM 88231 Phone Number 575 394 2545, Facility located at Hwy 18, Mile Marker 19, Eunice, NM.

Luis Serrano Drilling Engineer
ConocoPhillips Company, 600 North Dairy Ashford, Room #2WL-13016, Houston, TX 77079-1175
Office: 832-486-2346

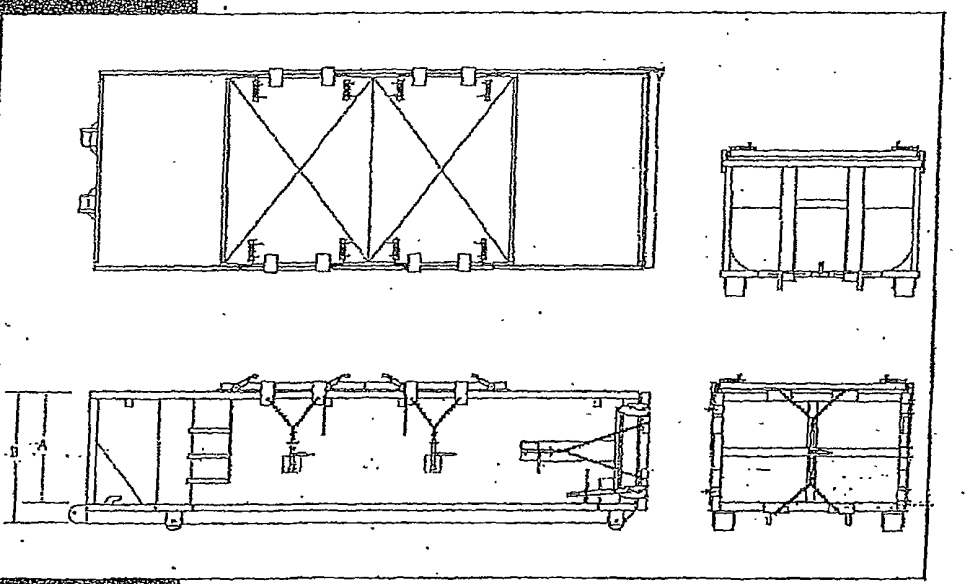
SPECIFICATIONS

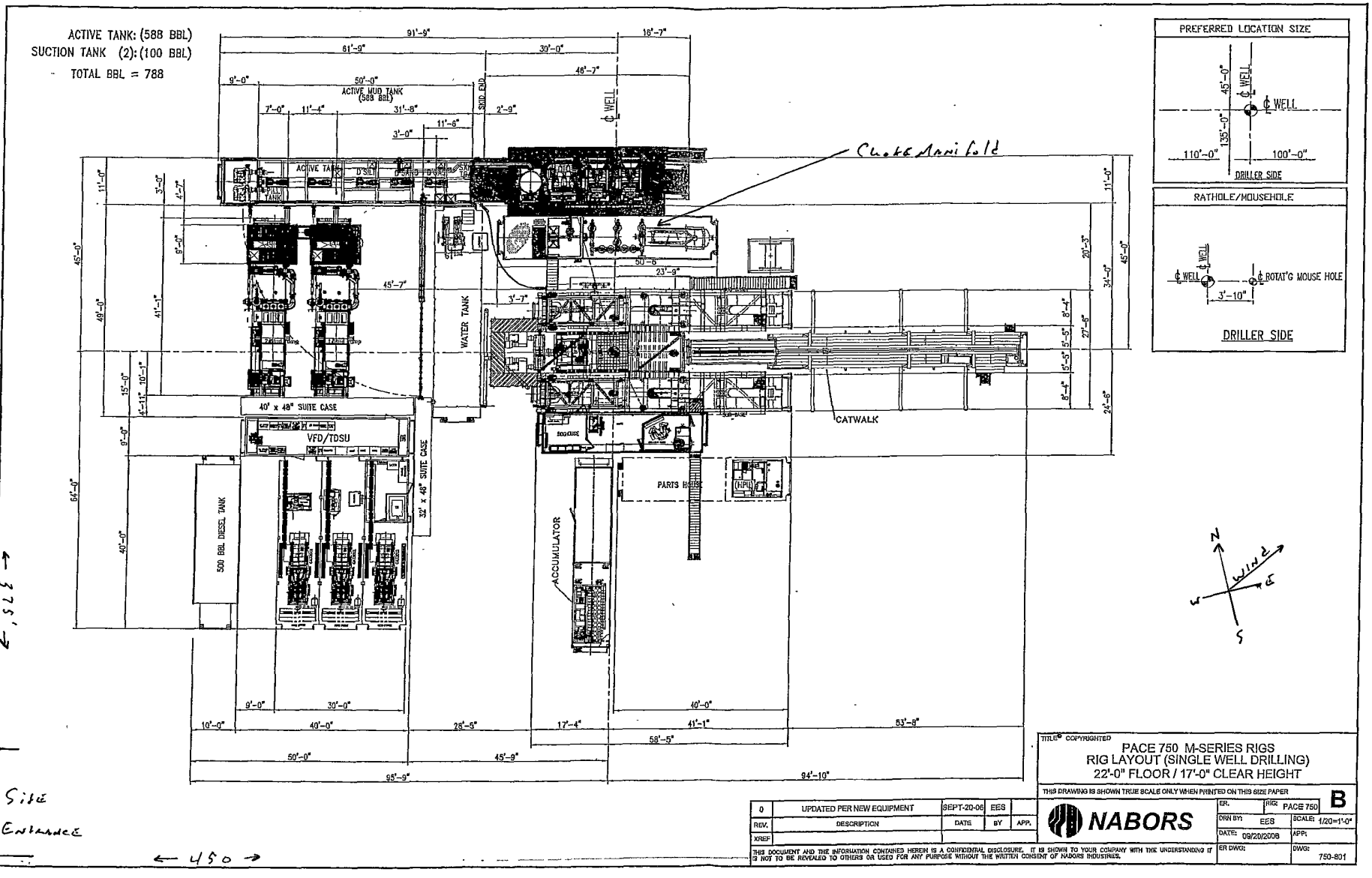
Heavy Duty Split Metal Rolling Lid

FLOOR: 3/16" PL one piece
CROSS MEMBER: 8" x 4.1 channel 16" on center
WALLS: 3/16" PL solid welded with tubing top inside liner hooks
DOOR: 3/16" PL with tubing frame
FRONT: 3/16" PL slant formed
PICK U.P.: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
WHEELS: 10 DIA x 9 long with grease fittings
DOOR LATCH: 3 independent ratchet binders with chains, vertical second latch
GASKETS: Extruded rubber seal with metal retainers
WELDS: All welds continuous except sub-structure crossmembers
FINISH: Coated inside and out with direct to metal rust inhibiting acrylic enamel color coat
HYDROTESTING: Full capacity static test
DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height
OPTIONS: Steel grit blast and special paint, Amplirol Heil and Dino pickup
ROOF: 3/16" PL roof panels with tubing and channel support frame
LIDS: (2) 68" x 90" metal rolling lids spring loaded, self-raising
ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings
OPENING: (2) 60" x 82" openings with 8" divider centered on container
LATCH: (2) independent ratchet binders with chains per lid
GASKETS: Extruded rubber seal with metal retainers



CONT.	A	B
20 YD	41	53
25 YD	53	65
30 YD	65	77





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PACE 750 M-SERIES RIGS
RIG LAYOUT (SINGLE WELL DRILLING)
22'-0" FLOOR / 17'-0" CLEAR HEIGHT

THIS DRAWING IS SHOWN TRUE SCALE ONLY WHEN PRINTED ON THIS SIZE PAPER

B

REV.	DESCRIPTION	DATE	BY	APP.
0	UPDATED PER NEW EQUIPMENT	SEPT-20-06	EES	
XREF				

NABORS

ER:	RIG: PACE 750		
DRN BY: EES		SCALE: 1/20=1'-0"	
DATE: 09/20/2006		APP:	
ER DWG:		DWG: 750-801	