

HOBBS OGD

MAR 22 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM27508	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator ConocoPhillips Company		7. If Unit or CA Agreement, Name and No.	
3a. Address 3300 N "A" St, Bldg 6 Midland, TX 79705		8. Lease Name and Well No. <39134> Wilder Federal 28 3H	
3b. Phone No. (include area code) (432)688-6913		9. API Well No. 30-025-40501	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface UL C, Sec 28, T 26S, 32E, 224 FNL 1544 FWL At proposed prod. zone UL N, Sec 28, T 26S, 32E, 330 FSL 1544 FWL		10. Field and Pool, or Exploratory WC 025-6-05 5263208P; Red Hills, Bone Springs; Upper Shale	
14. Distance in miles and direction from nearest town or post office* 19 miles north east of Orla, TX		11. Sec., T. R. M. or Blk. and Survey or Area Sec 28, T 26S, R 32E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 FSL	16. No. of acres in lease 640	12. County or Parish Lea	
17. Spacing Unit dedicated to this well 80	13. State NM		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1214' east of Wilder 28 #4H	19. Proposed Depth 13475' MD 9358' TVD	20. BLM/BIA Bond No. on file ES0085	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3168' GR	22. Approximate date work will start* 06/09/2012	23. Estimated duration 44 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:

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

25. Signature <i>B. D. Maiorino</i>	Name (Printed/Typed) Brian D Maiorino	Date 12/02/2011
Title Regulatory Specialist		
Approved by (Signature) <i>/s/ James A. Amos</i>	Name (Printed/Typed)	Date MAR 2 12012
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

Kx 03/23/12

Approval Subject to General Requirements
& Special Stipulations Attached

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

MAR 26 2012

OPERATORS NAME: ConocoPhillips Company

LEASE NAME AND WELL NO.: Wilder Federal 28 #3H

SURFACE LOCATION: 224 FNL & 1544 FWL

BHL: 330 FSL & 1544 FWL

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	Water
Rustler	780	Salt
Castile	2498	Salt
Delaware Top	4417	Oil/gas/water
Ramsey	4373	Oil/gas/water
Ford Sand	4443	Oil/gas/water
Olds	4448	Oil/gas/water
Cherry Canyon Lower Top	6545	Oil/gas/water
Bone Spring	8334	Oil/gas/water
Bone Spring 1 st carbonate top	8558	Oil/gas/water
Bone Spring 1 st carbonate base	8630	Oil/gas/water
KOP	8550	
Avalon A shale Top	8816	Oil/gas/water
Avalon A shale base	8998	Oil/gas/water
Avalon B zone top	8998	Oil/gas/water
Avalon B zone base	9194	Oil/gas/water
Avalon C shale top	9194	Oil/gas/water
		Oil/gas/water
Avalon C Shale Base	9458	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 780 (water)

Rustler 2498 (Salt)

Castile 4417 (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 8558-9458 (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 nipping 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 8550' 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:

Surface: 17 1/2" hole, 13 3/8" 54.5# J-55 STC csg, set @ 850'. Drill out with 12 1/4" bit and perform shoe test to 11.0 ppg MWE.

Burst: 2.67/Collapse: 4.92/Tension: 2.57

Inter 1: 12 1/4" hole, 9 5/8" 40# L-80 BTC csg, set @ ~~4500~~'

Burst: 2.88/Collapse: 2.62/Tension: 4.74

Production Lateral: 8-3/4" hole, 5 1/2" 17# P-110 BTC csg set @ 13,745' MD 9358' TVD. Burst 2.17/Collapse 5.32/Tension 2.84

See
CON

Casing String	Setting Depth TVD	OD"	Wt lb/ft	Grade	Conn	MIY (psi)	Collapse (psi)	Jt Str (Klbs)	MASP	Burst DF	Collapse DF	Axial DF
Surface	850	13-3/8	54.5	J-55	STC	2730	1130	514	1024	2.67	4.92	2.57
Intermediate	4400 4350	9-5/8	40.0	L-80	BTC	5750	3090	947	1995	2.88	2.62	4.74
Production	9235	5-1/2	17.0	P-110	BTC	10640	7840	568	-	2.17	5.32	2.84

The Plan is to set casing and drill in a southern direction to a proposed bottom hole location of 330 FSL 1544 FWL Unit letter "N" Section 28, T 26S, 32E

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.

- 13-3/8" Csg: lead w/870 sx Class C cement + HalCem-C (Yield: 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 200% excess
- 9-5/8" Csg: lead w/1200 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
- 5-1/2" Csg lead w/1180 sx HLH+ 0.3% Halad-9 + 5lbs/sk silicalite + 0.3% HR- 800
(Yield: 2.00 cft/sk) Tail w/805 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:

0-850'	Aquagel/Spudmud	8.9#	Vis 32-36	WL: NC
850-4500'	Brine	10.1#	Vis 28-30	WL: 5-8
4500-13,720'	Cut Brine	9.2-9.3#	Vis 30-40	WL: <=5

4350

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 – 2800'-TD' Vertical and Horizontal Lateral
Logs to be run: GR-MWD 13720'-8550'

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 occurrence.

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

Anticipated Spud date of July 23, 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.

ConocoPhillips MCBU

Permian Hz Bonespring/Avalon

Wilder Federal 28

Wilder Federal 28 #3H

Wilder Federal 28 #3H

Plan: Plan BLM

Standard Planning Report

22 November, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Wilder Federal 28 #3H
Company:	ConocoPhillips MCBU	TVD Reference:	Do Not Use @ 3156.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	MD Reference:	Do Not Use @ 3156.0ft (Original Well Elev)
Site:	Wilder Federal 28	North Reference:	True
Well:	Wilder Federal 28 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wilder Federal 28 #3H		
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:	Wilder Federal 28		
Site Position:		Northing:	m
From:	None	Easting:	m
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	
		Longitude:	
		Grid Convergence:	0.00 °

Well:	Wilder Federal 28 #3H		
Well Position	+N/-S	0.0 ft	Latitude: 27° 41' 16.664 N
	+E/-W	0.0 ft	Longitude: 105° 10' 51.259 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Ground Level:	3,138.0ft

Wellbore:	Wilder Federal 28 #3H		
Magnetics	Model Name	Sample Date	Declination
	BGGM2011	9/19/2011	7.90
			55.40
			45,583

Design:	Plan BLM		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			180.00

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,650.0	0.00	180.00	8,650.0	0.0	0.0	0.00	0.00	0.00	180.00	
9,753.0	90.00	180.00	9,352.2	-702.2	0.0	8.16	8.16	0.00	180.00	
13,745.0	89.83	180.00	9,358.1	-4,694.2	0.0	0.00	0.00	0.00	-180.00	

ConocoPhillips or its affiliates

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Site: Wilder Federal 28
Well: Wilder Federal 28 #3H
Wellbore: Wilder Federal 28 #3H
Design: Plan BLM

Local Co-ordinate Reference: Well Wilder Federal 28 #3H
TVD Reference: Do Not Use @ 3156.0ft (Original Well Elev)
MD Reference: Do Not Use @ 3156.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips MCBU
Project: Permian Hz Bonespring/Avalon
Site: Wilder Federal 28
Well: Wilder Federal 28 #3H
Wellbore: Wilder Federal 28 #3H
Design: Plan BLM

Local Co-ordinate Reference: Well Wilder Federal 28 #3H
TVD Reference: Do Not Use @ 3156.0ft (Original Well Elev)
MD Reference: Do Not Use @ 3156.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
8,200.0	0.00	180.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	180.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	180.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	180.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	180.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,650.0	0.00	180.00	8,650.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	4.08	180.00	8,700.0	-1.8	0.0	1.8	8.16	8.16	0.00
8,800.0	12.24	180.00	8,798.9	-16.0	0.0	16.0	8.16	8.16	0.00
8,900.0	20.40	180.00	8,894.8	-44.0	0.0	44.0	8.16	8.16	0.00
9,000.0	28.56	180.00	8,985.7	-85.4	0.0	85.4	8.16	8.16	0.00
9,100.0	36.72	180.00	9,069.8	-139.3	0.0	139.3	8.16	8.16	0.00
9,200.0	44.88	180.00	9,145.5	-204.6	0.0	204.6	8.16	8.16	0.00
9,300.0	53.04	180.00	9,211.1	-280.0	0.0	280.0	8.16	8.16	0.00
9,400.0	61.20	180.00	9,265.3	-363.9	0.0	363.9	8.16	8.16	0.00
9,500.0	69.36	180.00	9,307.1	-454.6	0.0	454.6	8.16	8.16	0.00
9,600.0	77.52	180.00	9,335.6	-550.4	0.0	550.4	8.16	8.16	0.00
9,700.0	85.68	180.00	9,350.2	-649.3	0.0	649.3	8.16	8.16	0.00
9,753.0	90.00	180.00	9,352.2	-702.2	0.0	702.2	8.16	8.16	0.00
9,800.0	90.00	180.00	9,352.2	-749.2	0.0	749.2	0.00	0.00	0.00
9,900.0	89.99	180.00	9,352.2	-849.2	0.0	849.2	0.00	0.00	0.00
10,000.0	89.99	180.00	9,352.2	-949.2	0.0	949.2	0.00	0.00	0.00
10,100.0	89.99	180.00	9,352.2	-1,049.2	0.0	1,049.2	0.00	0.00	0.00
10,200.0	89.98	180.00	9,352.3	-1,149.2	0.0	1,149.2	0.00	0.00	0.00
10,300.0	89.98	180.00	9,352.3	-1,249.2	0.0	1,249.2	0.00	0.00	0.00
10,400.0	89.97	180.00	9,352.3	-1,349.2	0.0	1,349.2	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Wilder Federal 28 #3H
Company:	ConocoPhillips MCBU	TVD Reference:	Do Not Use @ 3156.0ft (Original Well Elev)
Project:	Permian Hz Bonespring/Avalon	MD Reference:	Do Not Use @ 3156.0ft (Original Well Elev)
Site:	Wilder Federal 28	North Reference:	True
Well:	Wilder Federal 28 #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wilder Federal 28 #3H		
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	89.97	180.00	9,352.4	-1,449.2	0.0	1,449.2	0.00	0.00	0.00
10,600.0	89.96	180.00	9,352.5	-1,549.2	0.0	1,549.2	0.00	0.00	0.00
10,700.0	89.96	180.00	9,352.5	-1,649.2	0.0	1,649.2	0.00	0.00	0.00
10,800.0	89.96	180.00	9,352.6	-1,749.2	0.0	1,749.2	0.00	0.00	0.00
10,900.0	89.95	180.00	9,352.7	-1,849.2	0.0	1,849.2	0.00	0.00	0.00
11,000.0	89.95	180.00	9,352.8	-1,949.2	0.0	1,949.2	0.00	0.00	0.00
11,100.0	89.94	180.00	9,352.9	-2,049.2	0.0	2,049.2	0.00	0.00	0.00
11,200.0	89.94	180.00	9,353.0	-2,149.2	0.0	2,149.2	0.00	0.00	0.00
11,300.0	89.93	180.00	9,353.1	-2,249.2	0.0	2,249.2	0.00	0.00	0.00
11,400.0	89.93	180.00	9,353.2	-2,349.2	0.0	2,349.2	0.00	0.00	0.00
11,500.0	89.93	180.00	9,353.3	-2,449.2	0.0	2,449.2	0.00	0.00	0.00
11,600.0	89.92	180.00	9,353.5	-2,549.2	0.0	2,549.2	0.00	0.00	0.00
11,700.0	89.92	180.00	9,353.6	-2,649.2	0.0	2,649.2	0.00	0.00	0.00
11,800.0	89.91	180.00	9,353.7	-2,749.2	0.0	2,749.2	0.00	0.00	0.00
11,900.0	89.91	180.00	9,353.9	-2,849.2	0.0	2,849.2	0.00	0.00	0.00
12,000.0	89.90	180.00	9,354.1	-2,949.2	0.0	2,949.2	0.00	0.00	0.00
12,100.0	89.90	180.00	9,354.2	-3,049.2	0.0	3,049.2	0.00	0.00	0.00
12,200.0	89.90	180.00	9,354.4	-3,149.2	0.0	3,149.2	0.00	0.00	0.00
12,300.0	89.89	180.00	9,354.6	-3,249.2	0.0	3,249.2	0.00	0.00	0.00
12,400.0	89.89	180.00	9,354.8	-3,349.2	0.0	3,349.2	0.00	0.00	0.00
12,500.0	89.88	180.00	9,355.0	-3,449.2	0.0	3,449.2	0.00	0.00	0.00
12,600.0	89.88	180.00	9,355.2	-3,549.2	0.0	3,549.2	0.00	0.00	0.00
12,700.0	89.87	180.00	9,355.4	-3,649.2	0.0	3,649.2	0.00	0.00	0.00
12,800.0	89.87	180.00	9,355.6	-3,749.2	0.0	3,749.2	0.00	0.00	0.00
12,900.0	89.87	180.00	9,355.9	-3,849.2	0.0	3,849.2	0.00	0.00	0.00
13,000.0	89.86	180.00	9,356.1	-3,949.2	0.0	3,949.2	0.00	0.00	0.00
13,100.0	89.86	180.00	9,356.4	-4,049.2	0.0	4,049.2	0.00	0.00	0.00
13,200.0	89.85	180.00	9,356.6	-4,149.2	0.0	4,149.2	0.00	0.00	0.00
13,300.0	89.85	180.00	9,356.9	-4,249.2	0.0	4,249.2	0.00	0.00	0.00
13,400.0	89.84	180.00	9,357.1	-4,349.2	0.0	4,349.2	0.00	0.00	0.00
13,500.0	89.84	180.00	9,357.4	-4,449.2	0.0	4,449.2	0.00	0.00	0.00
13,600.0	89.84	180.00	9,357.7	-4,549.2	0.0	4,549.2	0.00	0.00	0.00
13,700.0	89.83	180.00	9,358.0	-4,649.2	0.0	4,649.2	0.00	0.00	0.00
13,745.0	89.83	180.00	9,358.1	-4,694.2	0.0	4,694.2	0.00	0.00	0.00

DRILLING PLAN

PROSPECT/FIELD	Bonespring/Red Hills				COUNTY/STATE		Lea County, NM	
OWNERS	BURLINGTON RESOURCES				LEASE			
WELL NO.	Buck Federal 20 #3H				FNL	FSL	FEL	FWL
LOCATION					224			1544
EST. T.D.	Leg #1 13,745' MD				GROUND ELEV.			
				RKB				3183'
PROGNOSIS:				Based on 3,160' KB(est)				
Marker	TVD	S.S. Depth		LOGS:				
Quaternary	Surface			Open Hole.				
Rustler	780	2,380		GR-MWD 13745- 8,550'				
Castile	2498	685		DEVIATION:				
Delaware Top	4,292	-1,109		Surf 3" max., svy every 500'				
Ramsey	4373	-1230		Int1/2 3" max., svy every 90'				
Ford Sand	4443	-1260		Prod				
Olds	4448	-1265		DST'S:				
Cherry Canyon Lower Top	6545	-3362						
Bone Spring	8,334	-5,174		CORES:				
Bone Spring 1st Carbonate Top	8,558	-5,398		No core				
Bone Spring 1st Carbonate Base	8,630	-5,470		SAMPLES:				
Avalon A Shale Top	8,816	-5,656		Mudlogging Start End				
Avalon A Shale Base	8,998	-5,838		Two-Man 2,800' TD Vertical and Horizontal sections				
Avalon B Zone Top	8,998	-5,838		BOP:				
Avalon B Zone Base	9,194	-6,034		COP Category 3 Well Control Requirements				
Avalon C Shale Top	9,194	-6,034		Nabors Rig M-09 BOPE 13-5/8"-5Mpsi Annular (Hydnl GK)				
Avalon C Shale Base (Should not penetrate)	9,458	-6,298		(With Rotating Head) 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)			Surface Formation:				
Max. Anticipated BHP:	0 65 psi/ft							
MUD:	Interval	Type	Max MW	Vis	WL	Remarks		
Surface	0'-850'	Aquegel - Spud Mud	8 9	32-36	NC			
Intermediate 1	850'-4500'	Bnne	10 1	28-30	5-8			
Production	4500'-13745'	Cut Bnne	10	30-40	<=5			
CASING:	Size	Wt ppf	Hole	Depth	Cement	WOC	Remarks	
Surface	13-3/8"	54 5	17-1/2	850'	To Surface	18hrs		
Intermediate 1	9-5/8"	40	12-1/4"	4,500'	To Surface	18hrs		
Production Lat #1.	5-1/2"	17	8-3/4"	13,745'	500' into intermediate	18hrs	Long String	
DIRECTIONAL PLAN								
	MD	TVD	AZ					
Surface	N/A	N/A	180		Directional Company DDC			
Vertical KOP	8,550'	8,500'	180 0		Vertical Build Rate. 8 8 '/100'			
End Build/ 7"Casing (90° curve)	9,753'	9,352'	180 0		Tan Leg Turn Rate 0 0 '/100'			
Tangent	N/A	N/A	180 0					
Turn	N/A	N/A	180 0					
TD	13,745'	9,358'	180 0					
Comments:								
Surveys will be taken at 90' interval below surface casing while drilling with PDC / Motor / MWD								
Prep By:	Luis Serrano			Date:	11/22/11		Doc:	REV 0

Buck Federal 20 #3H

Surface Location:00Bottom Hole Location3300

SAP Network: TBA

Inv Handler ID: TBA TBA

Drilling Completion/Facility \$0

Total

Permit:

NDIC # TBA

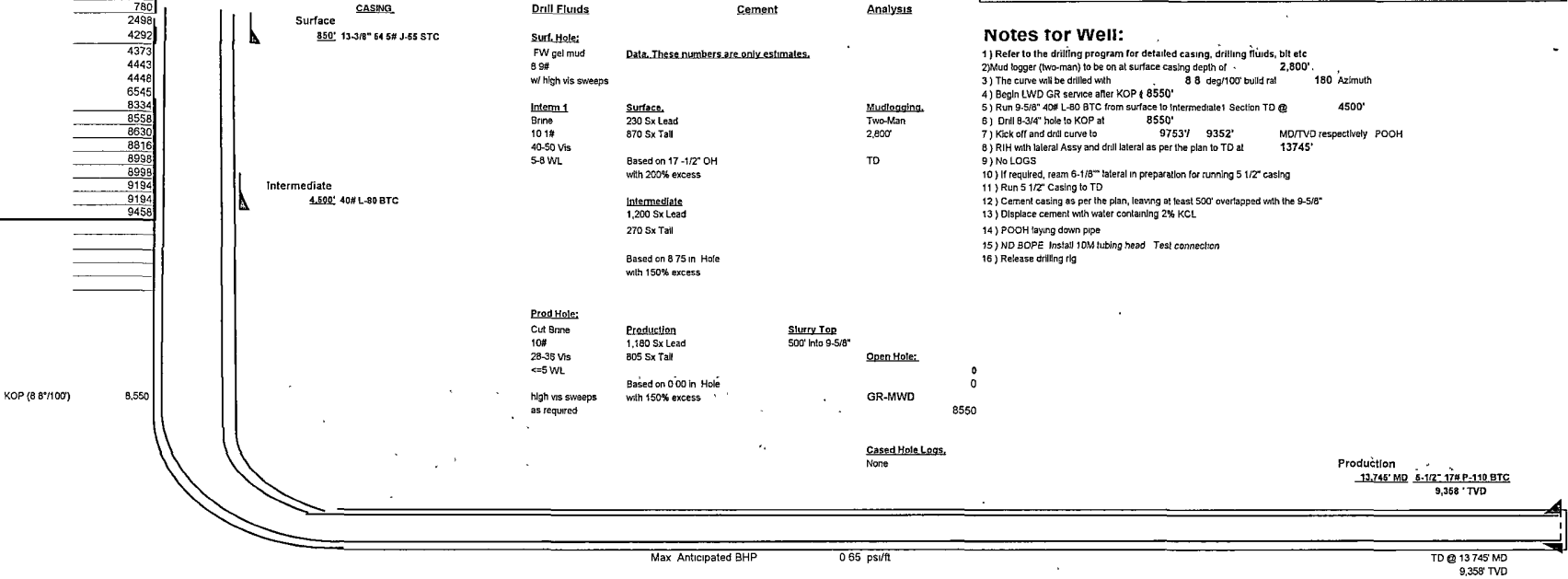
API # TBA

Feed # TBA

AFE# TBA

Directional						
	MD	TVD	FNL/FSL	FEL/FWL	S-T-R	AZI
Vertical KOP	8550	8500	0	0	0	180
End Build/ 7"Casing (90° curve)	9,753'	9,352'	0	0	0	180.0
Tangent	N/A	N/A	0	0	0	180.0
Turn	N/A	N/A	0	0	0	180.0
TD	13,745'	9,358'	0	0	0	180.0

Formation	TVD
Quaternary	Surface
Rustler	780
Castile	2498
Delaware Top	4292
Ramsey	4373
Ford Sand	4443
Olids	4448
Cherry Canyon Lower Top	6545
Bone Spring	8334
Bone Spring 1st Carbonate Top	8558
Bone Spring 1st Carbonate Base	8630
Avalon A Shale Top	8816
Avalon A Shale Base	8998
Avalon B Zone Top	8998
Avalon B Zone Base	9194
Avalon C Shale Top	9194
Avalon C Shale Base (Should not penetrate)	9458



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 2,800'
- 3) The curve will be drilled with 8 8 deg/100' build rat 180° Azimuth
- 4) Begin LWD GR service after KOP (8550'
- 5) Run 9-5/8" 40# L-80 BTC from surface to Intermediate1 Section TD @ 4500'
- 6) Drill 8-3/4" hole to KOP at 8550'
- 7) Kick off and drill curve to 9753' 9352' MD/TVD respectively POOH
- 8) RIH with lateral Assy and drill lateral as per the plan to TD at 13745'
- 9) No LOGS
- 10) If required, ream 6-1/8" lateral in preparation for running 5 1/2" casing
- 11) Run 5 1/2" Casing to TD
- 12) Cement casing as per the plan, leaving at least 500' overlapped with the 9-5/8"
- 13) Displace cement with water containing 2% KCL
- 14) POOH laying down pipe
- 15) ND SCOPE Install 10M tubing head Test connection
- 16) Release drilling rig

Vick HarveyGeologistDate

Luis SerranoDrilling EngineerDate

Bonespring/Red Hills
BURLINGTON RESOURCES
Buck Federal 20 #3H

0

Surface Casing:

Surface Casing Depth (Ft)	850
Surface Casing O.D. (In.)	13.375
Surface Casing ID (In)	12.715
Hole O.D. (In)	17.5
Excess (%)	200%
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.)	1,598
Calc. Tail Volume (Cu. Ft.)	417
Calc. Lead Volume (Cu. Ft.)	1,146
Calc. Lead Volume (Sx)	870

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:	3,800'
Yield Lead (Cu. Ft./Sx)	2.48
Calculated Total Lead (Cu. Ft.)	2,975
Calc. Lead Volume (Sx)	1200

Production Casing (Lead):

Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	4.892
Hole O.D. (In)	8.75
Excess (%)	150%
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")	6,200'
Yield Lead (Cu. Ft./Sx)	2.0
Calculated Total Lead (Cu. Ft.)	2,349
Calc. Lead Volume (Sx)	1180

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

Required Tail Volume (Sx)

270

5480

Production Casing (Tail):

Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	4.882
Hole O.D. (In)	8.75
Excess (%)	150%
cap 5-1/2" - 8-3/4" bls/ft	0.0450
cap 7 - 9-5/8" bls/ft	
Calculated fill:	2,550'
Yield Lead (Cu. Ft./Sx)	1.2
Calculated Total Tail (Cu. Ft.)	966

Required Tail Volume (Sx)

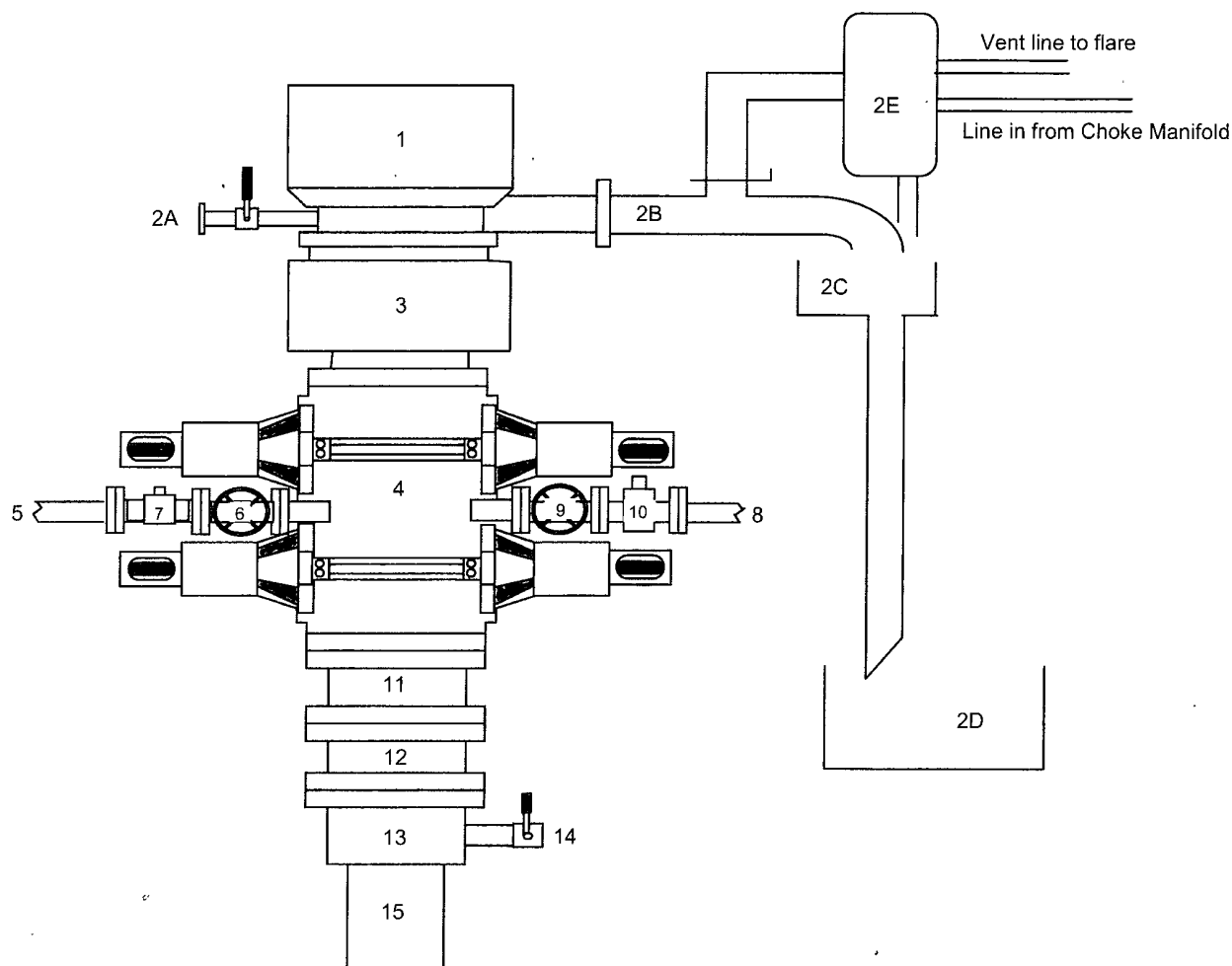
805

7850

4050

BLOWOUT PREVENTER ARRANGEMENT

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

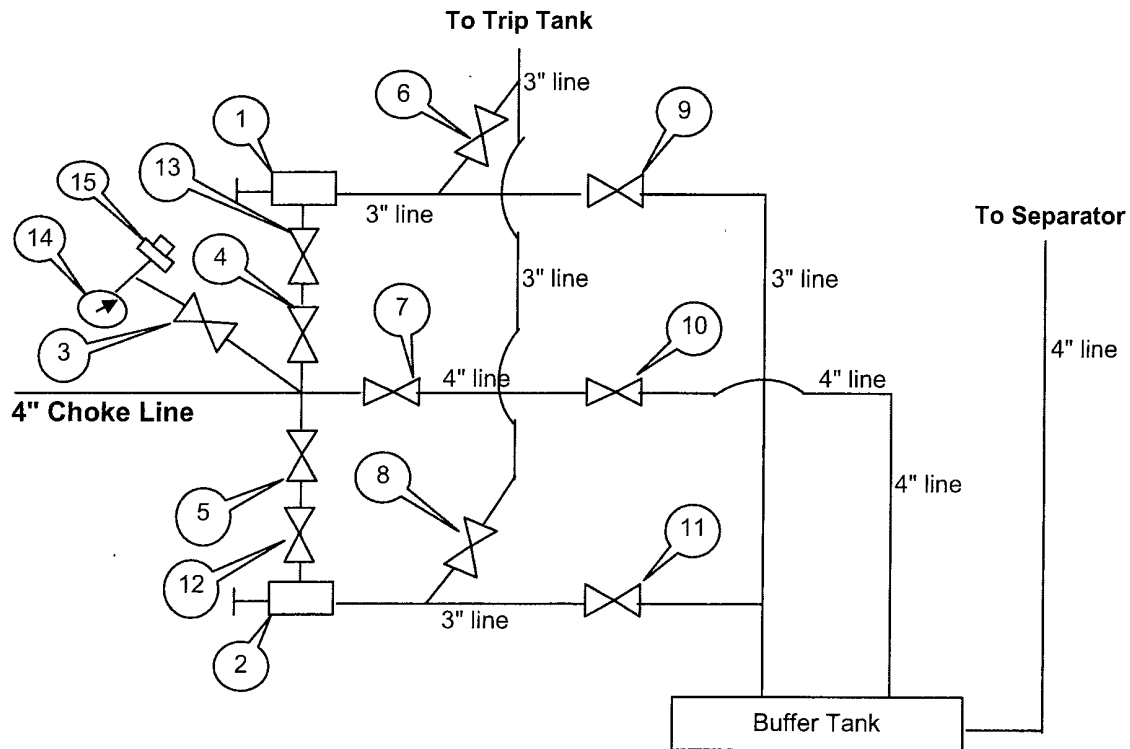


Item	Description
1	Rotating Head (13-5/8", 3M)
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (13-5/8", 5M)
4	Double Ram BOP (13-5/8", 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

Inserted
 12/23/2011
 TMM

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

*Inserted
12/23/2011
TMM*

Drawn by:

Steven O. Moore

Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company

22-Dec-2011

Stage 2 — Install Split Speed Head With Riser Assembly

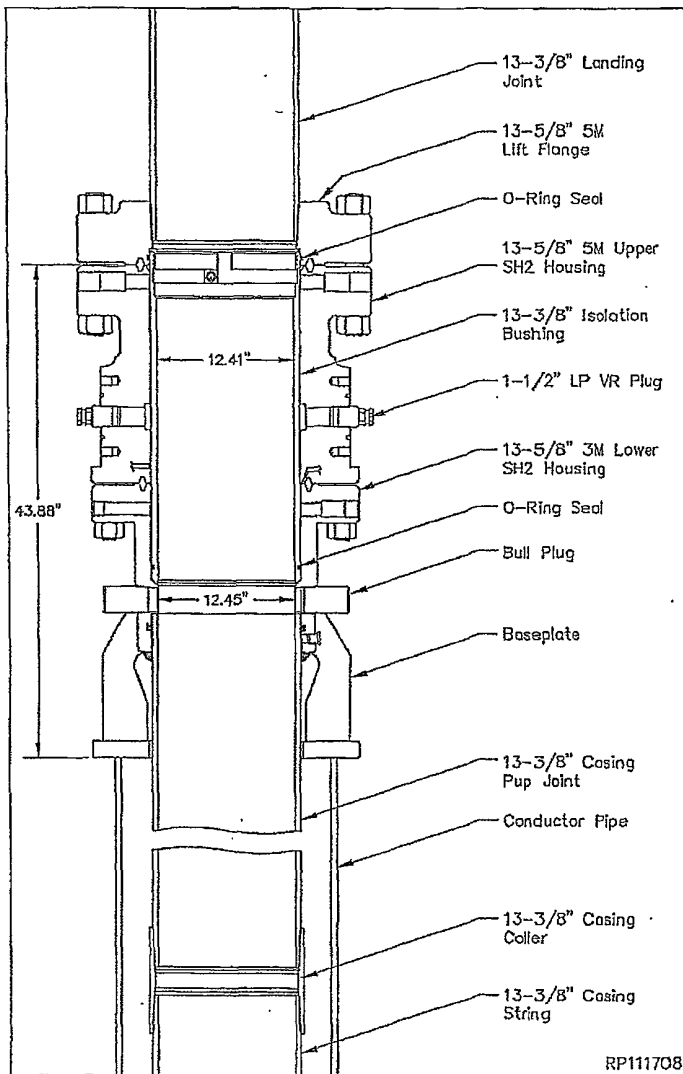
1. Drill and condition hole for surface casing.
2. Cut the conductor pipe off at the correct height above the cellar floor and grind stub level.

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 lock screw holes.
10. Locate the (six) 1-1/4" and the (twelve) 1-1/2" lock screw assemblies.



11. Install the 1-1/4" integral lock screw 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.

RP-1904
Page 6

ConocoPhillips
13-3/8" x 9-5/8" x 5-1/2" x 2-7/8" 10/3M
SH2/SH2-R Wellhead System

Wood Group
Pressure Control

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

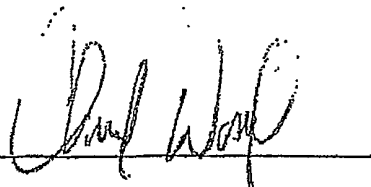
HYDROSTATIC TEST

5 MIN. @ 10,000 PSI

2 MIN. @ 0 PSI 25' 3" OAL

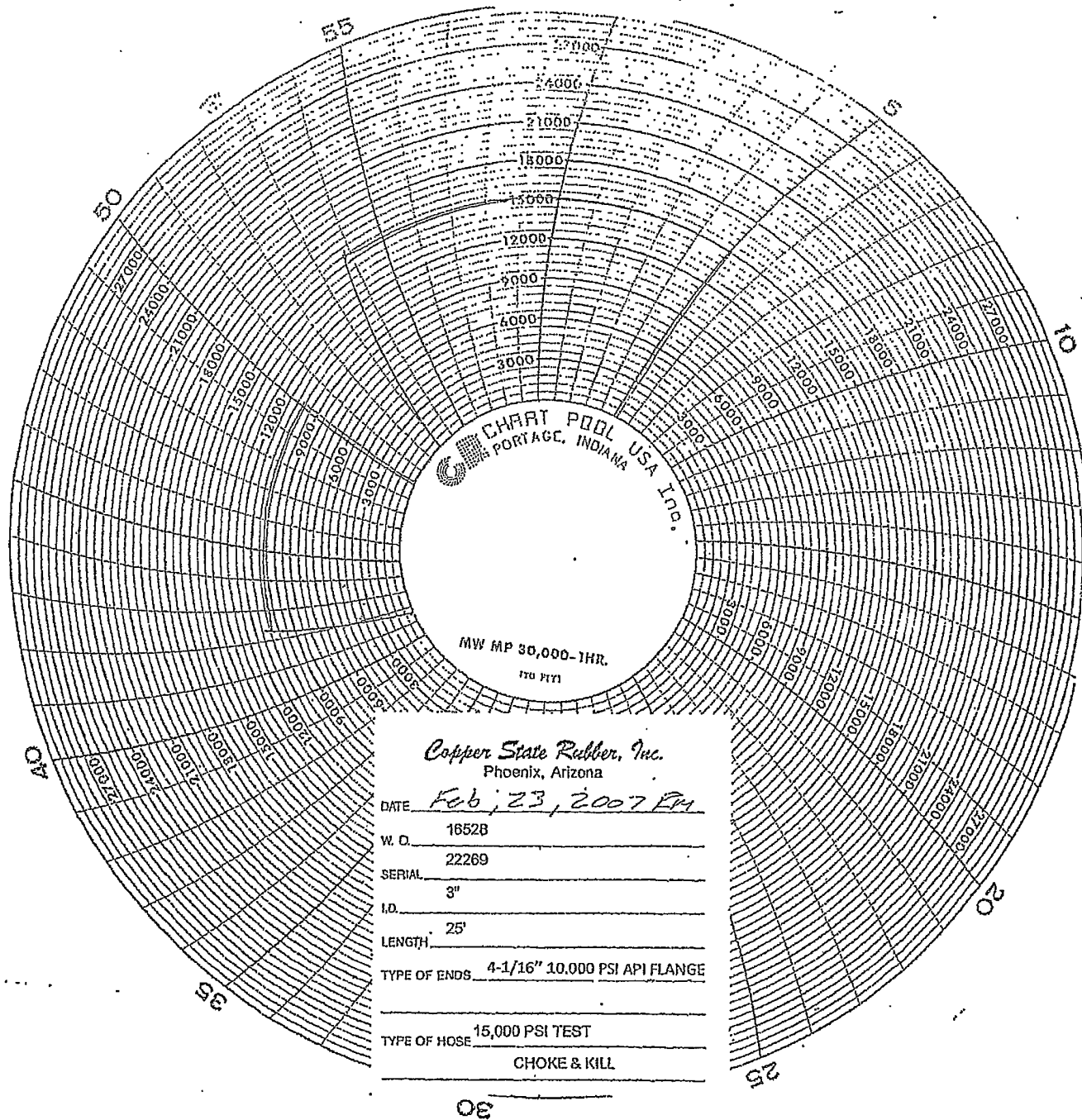
3 MIN. @ 15,000 PSI

WITNESSED BY:



DATE

February 23, 2007



August 09 2011



Size: 4.500 in.
Grade: API T95

Wall: 0.430 in.
Weight: 18.900 lbs/ft
Connection: Blue™

PIPE BODY DATA

GEOMETRY			
Nominal OD	4.500 in.	Nominal Weight	18.90 lbs/ft
Nominal ID	3.640 in.	Wall Thickness	0.430 in.
Plain End Weight		Standard Drift Diameter	3.515 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	522 x 1000 lbs	Internal Yield	15890 psi
		Collapse	16410 psi

BLUE™ CONNECTION DATA

GEOMETRY			
Regular OD	5.189 in.	Special Clearance OD	5.051 in.
Critical Section Area	5.768 sq. in.	Critical Section Area (Special Clearance)	4.659 sq. in.
Threads per in.	5.00	Coupling Length	9.213 in.
Connection ID	3.740 in.	Make-Up Loss	4.012 in.
PERFORMANCE			
Regular OD Tension Efficiency	100 %	Joint Yield Strength	522 x 1000 lbs
Compression Efficiency	100 %	Compression Rating	522 x 1000 lbs
Special Clearance Tension Efficiency	85.0 %	Bending	97 °/100 ft
		Internal Yield	15890 psi
		Collapse	16410 psi
MAKE-UP TORQUES			
Minimum	8630 ft-lbs	Target	9590 ft-lbs
Yield Torque	15750 ft-lbs	Maximum	10550 ft-lbs

BLANKING DIMENSIONS

Blanking Dimensions

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

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

Well: Wilder Federal 28 #3H

Date: December 5, 2011

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.

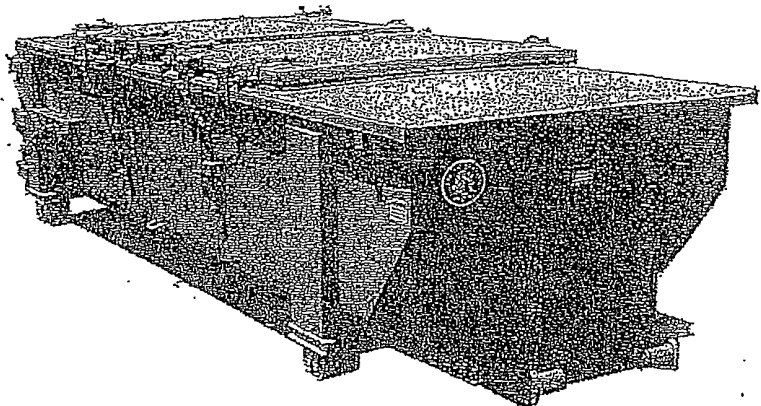
3. Mud will be transported by vacuum truck and disposed of at Controlled Recovery Inc at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine 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

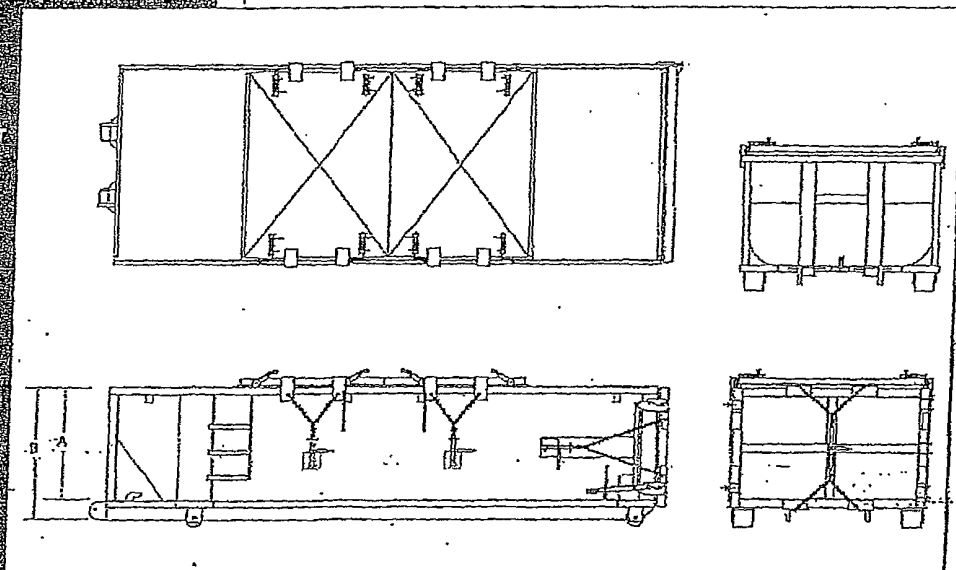
SPECIFICATIONS

Heavy Duty Split Metal Rolling Lid

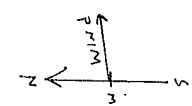
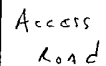
FLOOR: 3/16" PL one piece
 CROSS MEMBER: 8" x 4" channel 16" on center
 WALLS: 3/16" PL solid welded with tubing top inside liner hooks
 DOOR: 3/16" PL with tubing frame
 FRONT: 3/16" PL slant formed
 PICK UP: Standard cable with 2" x 6" x 1/4" rails gusset at each crossmember
 WHEELS: 10" DIA x 9" long 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, Ampliroll, 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 binder 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




375' →



TITLE: COPYRIGHTED

PAGE 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

	ERN	PRICE	PAGE 750
	CNTRY	EE8	SCALE, 1/20"=1'
	DATE	09/20/2003	APP:
	ER DWG:	DWG:	750-00

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PROPERTY OF NABORS INDUSTRIES.