

Form 3160-3
(March 2012)

HOBBS

FORM 3160-3
OMB No. 1004-0137
Expires October 31, 2014**UNORTHODOX
LOCATION**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**Split Estate**5. Lease Serial No.
NMLC 031670A
6. If Indian, Allottee or Tribe Name
N/A1a. Type of work: ☒ DRILL ☐ REENTER7. If Unit or CA Agreement, Name and No.
Southeast Monument Unit **NW 10414**1b. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other Injection ☒ Single Zone ☐ Multiple Zone8. Lease Name and Well No.
SEMU 247 **(31670)**2. Name of Operator
ConocoPhillips Company **(217817)****HOBBS OGD**3a. Address 600 N. Dairy Ashford Road,
Office P10-4-4054
Houston, TX 77079-11753b. Phone No. (include area code)
(281)206-5281**AUG 05 2014**9. API Well No.
30-025- **42019**10. Field and Pool, or Exploratory
Skaggs; Grayburg **(57380)**

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

At surface UL H, Sec. 24, T20S, R37E; 2139' FNL and 265' FEL

At proposed prod. zone UI L, Sec. 19, T20S, R38E; 2495' FSL and 94' FWL

RECEIVED11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 24, T20S, R37E14. Distance in miles and direction from nearest town or post office*
Approximately 11 miles south of Hobbs, NM12. County or Parish
Lea County13. State
NM15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any)
94'16. No. of acres in lease
641.6817. Spacing Unit dedicated to this well
40.4218. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
about 750'19. Proposed Depth
4013' TVD/4196' MD20. BLM/BIA Bond No. on file
ES 008521. Elevations (Show whether DF, KDB, RT, GL, etc.)
3539' GL22. Approximate date work will start*
06/21/201423. Estimated duration
5 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 **Susan B. Maunder**Name (Printed/Typed)
Susan B. MaunderDate **2/7/14**Title
Senior Regulatory SpecialistApproved by (Signature) **Steve Caffey**

Name (Printed/Typed)

Date **AUG 4 2014**Title
FIELD MANAGEROffice
CARLSBAD FIELD OFFICEApplication 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)

Lea County Controlled Water Basin

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**~~APPROVAL FOR TWO YEARS~~**AUG 07 2014**Approval Subject to General Requirements
& Special Stipulations Attached

Am

Operator Certification

HOBBS OCD

CONOCOPHILLIPS COMPANY

AUG 05 2014

CERTIFICATION:

RECEIVED

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.

Susan B. Maunder

Date: 2/7/14

Susan B. Maunder
Senior Regulatory Specialist

Drilling Plan
ConocoPhillips Company
SEMU; Grayburg

HOBBS OCD

AUG 05 2014

SEMU #247

Lea County, New Mexico

RECEIVED

1. Estimated tops of geological markers and estimated depths to water, oil, or gas formations:.

The datum for these depths is RKB (which is 13' above Ground Level).

Formations	Top Depth FT TVD	Top Depths FT MD	Contents
Quaternary	Surface	Surface	Fresh Water
Rustler	1182	1182	Anhydrite
Salado (top of salt)	1273	1273	Salt
Tansill (base of salt)	2371	2371	Gas, Oil and Water
Yates	2500	2501	Gas, Oil and Water
Seven Rivers	2747	2752	Gas, Oil and Water
Queen	3320	3364	Gas, Oil and Water
Penrose	3445	3508	Gas, Oil and Water
Grayburg	3585	3674	Gas, Oil and Water
San Andres	3813	3952	Gas, Oil and Water
Deepest estimated perforation	3813	3952	Deepest estimated perf. is above Top of San Andres
Total Depth (maximum)	4013	4196	200' below deepest estimated perforation

All of the water bearing formations identified above will be protected by setting of the 8-5/8" surface casing 25' – 70' into the Rustler formation and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

The targeted oil and gas bearing formations identified above will be protected by setting of the 5-1/2" production casing 10' off bottom of TD and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

2. Proposed casing program:

See CoA

Type	Hole Size	Interval MD RKB (ft)		OD	Wt	Gr	Conn	MIY	Col	Jt Str	Safety Factors Calculated per ConocoPhillips Corporate Criteria		
		From	To								Burst DF	Collapse DF	Jt Str DF (Tension) Dry/Buoyant
Cond	20	0	40' - 85' (30' - 75' BGL)	16	0.5" wall	B	Line Pipe	N/A	N/A	N/A	NA	NA	NA
Alt. Cond	20	0	40' - 85' (30' - 75' BGL)	13-3/8	48#	H-40	PE	1730	740	N/A	NA	NA	NA
Surf	12-1/4	0	4289' - 1434'	8-5/8	24#	J-55	STC	2950	1370	244	1.38	2.15	3.05
Prod	7-7/8	0	4241' - 4286'	5-1/2	17#	L-80	LTC	7740	6290	338	3.47	4.89	2.68

The casing will be suitable for H₂S Service. All casing will be new.

The surface and production casing will be set approximately 10' off bottom and we will drill the hole with a 45' range uncertainty for casing set depth to fit the casing string so that the cementing head is positioned at the floor for the cement job.

The production casing will be set 155' to 200' below the deepest estimated perforation to provide rathole for the pumping completion and for the logs to get deep enough to log the interval of interest.

Casing Safety Factors - BLM Criteria:

Type	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	1434	24	2950	1370	244000	8.5	4.65	2.16	7.1	8.1
Production Casing	4286	17	7740	6290	338000	10	3.47	2.82	4.64	5.47

Casing Safety Factors - Additional ConocoPhillips Criteria:

ConocoPhillips casing design policy establishes Corporate Minimum Design Factors (see table below) and requires that service life load cases be considered and provided for in the casing design.

ConocoPhillips Corporate Criteria for Minimum Design Factors

	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

Type	Depth	Wt	MIY	Col	Jt Str	Pipe Yield MW	Burst	Col	Ten
Conductor	85	65	35000	-	-	432966	-	-	-
Surface Casing (8-5/8" 24# J-55 STC)	1434	24	2950	1370	244000	381000	8.5	1.38	2.15
Production Casing (5-1/2" 17# L-80 LTC)	4286	17	7740	6290	338000	397000	10	3.47	4.89

Burst - ConocoPhillips Required Load Cases

The maximum internal (burst) load on the Surface Casing occurs when the surface casing is tested to 1500 psi (as per BLM Onshore Order 2 - IL Requirements).

The maximum internal (burst) load on the Production Casing occurs during the fracture stimulation where the maximum allowable working pressure

(MAWP) is the pressure that would fit ConocoPhillips Corporate Criteria for Minimum Factors.

Surface Casing Test Pressure =	1500 psi	Predicted Pore Pressure at TD (PPTD) =	8.55 ppg
Surface Rated Working Pressure (ROPE) =	3000 psi	Predicted Frac Gradient at Shoe (CSFG) =	19.23 ppg
Field SW =	10 ppg		

Surface Casing Burst Safety Factor = API Burst Rating / Maximum Predicted Surface Pressure (MPSP) OR Maximum Allowable Surface Pressure (MASP)

Production Casing MAWP for the Fracture Stimulation = API Burst Rating / Corporate Minimum Burst Design Factor

Surface Casing Burst Safety Factor:

Case #1. MPSP (MWHyd next section) =	1434	x	0.052	x	10	=	746		
Case #2. MPSP (Field SW @ Bullheadcase + 200 psi) =	1434	x	0.052	x	19.23	=	746	+	200
Case #3. MPSP (Kick Vol @ next section TD) =	4286	x	0.052	x	8.55	=	285.2	-	634
Case #4. MPSP (PPTD - GG) =	4286	x	0.052	x	8.55	=	428.6	=	1477
Case #3 & #4 Limited to MPSP (CSFG + 0.2 ppg) =	1434	x	0.052	x	(19.23 + 0.2)	=	1449		
MASP (MWHyd + Test Pressure) =	1434	x	0.052	x	8.5	+	1500	=	2134
Burst Safety Factor (Max. MPSP or MASP) =	2950	/	2134	=	1.38				

Production Casing Burst Safety Factor:

Case #1. MPSP (MWHyd TD) =	4286	x	0.052	x	10	=	2228.72		
Case #4. MPSP (PPTD - GG) =	4286	x	0.052	x	8.55	=	428.6	=	1477
Burst Safety Factor (Max. MPSP) =	7740	/	2229	=	3.47				
MAWP for the Fracture Stimulation (Corporate Criteria) =	7740	/	1.15	=	6730				

Collapse - ConocoPhillips Required Load Cases

The maximum collapse load on the Surface Casing occurs when cementing to surface, 1/3 evacuation to the next casing setting depth, or deepest depth of exposure (full evacuation).

The maximum collapse load on the Production Casing occurs when cementing to surface, or 1/3 evacuation to the deepest depth of exposure; and

therefore, the external pressure profile for the evacuation cases should be equal to the pore pressure of the horizons on the outside of the casing which we assumed to be PPTD.

Surface Casing Collapse Safety Factor = API Collapse Rating / Full Evacuation OR Cement Displacement during Cementing to Surface

Production Casing Collapse Safety Factor = API Collapse Rating / Maximum Predicted Surface Pressure OR Cement Displacement during Cementing to Surface

Cement Displacement Fluid (FW) =	8.34 ppg	Top of Cement =	Cement to Surface
Surface Cement Lead =	13.6 ppg	Prod Cement Lead =	11.5 ppg
Surface Cement Tail =	14.8 ppg	Prod Cement Tail =	14 ppg
Top of Surface Tail Cement =	350 ft	Top of Prod Tail Cement =	3000 ft

Surface Casing Collapse Safety Factor:

Full Evacuation Diff Pressure =	1434	x	0.052	x	8.55	=	638		
Cementing Diff Lift Pressure =	((1084 x 0.052 x 13.6) + (350 x 0.052 x 14.8)) - 622	=	414						
Collapse Safety Factor =	1370	/	638	=	2.15				

Production Casing Collapse Safety Factor:

1/3 Evacuation Diff Pressure =	((4286 x 0.052 x 8.55) - (4286 / 3 x 0.052 x 8.34)) =	1286							
Cementing Diff Lift Pressure =	((1286 x 0.052 x 11.5) + (3000 x 0.052 x 14)) - 1859	=	1094						
Collapse Safety Factor =	6290	/	1286	=	4.89				

Tensile Strength - ConocoPhillips Required Load Cases

The maximum axial (tension) load occurs if casing were to get stuck and pulled on to try to get it unstuck.

Maximum Allowable Axial Load for Pipe Yield = API Pipe Yield Strength Rating / Corporate Minimum Axial Design Factor

Maximum Allowable Axial Load for Joint = API Joint Strength Rating / Corporate Minimum Axial Design Factor

Maximum Allowable Hook Load (Limited to 75% of Rig Max Load) = Maximum Allowable Axial Load

Maximum Allowable Overpull Margin = Maximum Allowable Hook Load - Buoyant Wt of the String

Tensile Safety Factor = API Pipe Yield OR API Joint Strength OR Rig Max Load Rating / (Buoyant Wt of String + Minimum Overpull Required)

Rig Max Load (300,000 lbs) x 75% =	225000 lbs
Minimum Overpull Required =	50000 lbs

Surface Casing Tensile Strength Safety Factor:

Air Wt =	34416								
Buoyant Wt =	34416	x	0.870	=	29950				
Max. Allowable Axial Load (Pipe Yield) =	381000	/	1.40	=	272143				
Max. Allowable Axial Load (Joint) =	244000	/	1.40	=	174286				
Max. Allowable Hook Load (Limited to 75% of Rig Max Load) =	174286								
Max. Allowable Overpull Margin =	174286	-	(34416 x 0.870)	=	144336				
Tensile Safety Factor =	244000	/	(29950 + 50000)	=	3.05				

Production Casing Tensile Strength Safety Factor:

Air Wt =	72862								
Buoyant Wt =	72862	x	0.847	=	61738				
Max. Allowable Axial Load (Pipe Yield) =	397000	/	1.40	=	283571				
Max. Allowable Axial Load (Joint) =	338000	/	1.40	=	241429				
Max. Allowable Hook Load (Limited to 75% of Rig Max Load) =	225000								
Max. Allowable Overpull Margin =	225000	-	(72862 x 0.847)	=	163262				
Tensile Safety Factor =	300000	/	(61738 + 50000)	=	2.68				

Compression Strength - ConocoPhillips Required Load Cases

The maximum axial (compression) load for the well is where the surface casing is landed on the conductor

with a support of a plate or landing ring. The surface casing is also calculated to bear 60% of the load

but not limited. Any other axial loads such as a snubbing unit or other would need to be added to the load.

Compression Safety Factor = API Axial Joint Strength Rating OR API Axial Pipe Yield Rating / Maximum Predicted Load

Wellhead Load = 3000 lbs

Conductor & Surface Compression Safety Factor

Surf Casing Wt (Buoyant) =	(34416 x 0.870) =	29950							
Prod Casing Wt (Buoyant) =	(72862 x 0.847) =	61738							
Tubing Wt (Air Wt) =	4286 x 6.5 =	27859							
Tubing Fluid Wt =	4286 x 6.55 =	28131							
Load on Conductor =	3000 + 29950 + 27859 + 28131	=	67940						
Conductor Compression Safety Factor =	432966 / 67940	=	6.37						
Load on Surface Casing =	129378 x 60% =	77627							
Surface Casing Compression Safety Factor =	244000 / 77627	=	3.14						

3. Proposed cementing program:

16" or 13-3/8" Conductor:

Cement to surface with rathole mix, ready mix or Class C Neat cement.
(Note: The gravel used in the cement is not to exceed 3/8" diameter)
TOC at surface.

8-5/8" Surface Casing Cementing Program:

The intention for the cementing program for the Surface Casing is to:

- Place the Tail Slurry from the casing shoe to 350' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	1039' – 1084'	13.6	450	765	+ 2% Extender + 2% CaCl ₂ + 0.125 lb/sx Lost Circulation Control Agent + 0.2% Defoamer Excess = 200% based on gauge hole volume	1.70
Tail	Class C	1039' – 1084'	1389' – 1434'	14.8	300	402	1% CaCl ₂ Excess = 100% based on gauge hole volume	1.34

Displacement: Fresh Water.

See COA

Note: In accordance with the Pecos District Conditions of Approval, we will Wait on Cement (WOC) for a period of not less than 18 hrs after placement or until at least 500 psi compressive strength has been reached in both the Lead Slurry and Tail Slurry cements on the Surface Casing, whichever is greater.

5-1/2" Production Casing Cementing Program – Single Stage Cementing Option:

The intention for the cementing program for the Production Casing – Single Stage Cementing Option is to:

- Place the Tail Slurry from the casing shoe to above the top of the Grayburg,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23
Tail	Poz/C Gas Tight Slurry	3000'	4241' – 4286'	14.0	320	438	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

5-1/2" Production Casing Cementing Program – Two-Stage Cementing Option (Shallow Flow):

ConocoPhillips Company respectfully requests an option to our cementing program. The intention for the cementing program for the Production Casing – Two-Stage Cementing Option is to:

- Provide a contingency plan for using a Stage Tool and Annulus Casing Packer(s) to isolate shallow saltwater or gas flow if either of these events occurs while drilling the well.
- Place the Stage 1 Cement from the casing shoe to surface.
- Proceed with Stage 2 Cement only if cement returns are contaminated or flow was observed after pumping 1st stage.

Spacer: 20 bbls Fresh Water

Stage 1 - Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23'
Tail	Poz/C Gas Tight Slurry	3000'	4241' – 4286'	14.0	320	438	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

1st stage displacement: FW followed by Weighted Spacer

Spacer: Remaining Weighted Spacer in cementing lines from the 1st stage displacement

Stage 2 - Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Tail	Class C	Surface	Stage Tool ~1450'	14.8	300	402	1% CaCl ₂ Excess = 100% based on gauge hole volume	1.34

2nd stage displacement: Fresh Water

5-1/2" Production Casing Cementing Program – Two-Stage Cementing Option (Lower Zone Losses or Waterflow):

ConocoPhillips Company respectfully requests an option to our cementing program. The intention for the cementing program for the Production Casing – Two-Stage Cementing Option is to:

- Provide a contingency plan for using a Stage Tool and Annulus Casing Packer(s) to isolate losses or waterflow if either of these events occurs while drilling the well.
- Place the Stage 1 Cement from the casing shoe to the stage tool,
- Bring Stage 2 Cement from the stage tool to surface.

Spacer: 20 bbls Fresh Water

See COA

Stage 1 - Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Poz/C Gas Tight Slurry	Stage Tool ~2900'	4241' – 4286'	14.0	320	438	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

1st stage displacement: FW followed by Brine

Spacer: 20 bbls Fresh Water

Stage 2 - Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	Stage Tool ~2900'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23

Displacement: Fresh Water

Proposal for Option to Adjust Production Casing Cement Volumes:

*See
C/L* The production casing cement volumes for the proposed single stage and two-stage option presented above are estimates based on gauge hole. We will adjust these volumes based on the caliper log data for each well and our trends for amount of cement returns to surface. Also, if no caliper log is available for any particular well, we would propose an option to possibly increase the production casing cement volume to account for any uncertainty in regard to the hole volume.

4. Pressure Control Equipment:

A 11" 3M system will be installed, used, maintained, and tested accordingly as described in Onshore Oil and Gas Order No. 2.

Our BOP equipment will be:

- o Rotating Head
- o Annular BOP, 11" 3M
- o Blind Ram, 11" 3M
- o Pipe Ram, 11" 3M

After nipping up, and every 30 days thereafter or whenever any seal subject to test pressure is broken followed by related repairs, blowout 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 done by an independent service company and recorded on the daily drilling reports. BOP will be tested using a test plug to isolate BOP stack from casing. BOP test will include a low pressure test from 250 to 300 psi for a minimum of 10 minutes or until requirements of test are met, whichever is longer. Ram type preventers and associated equipment will be tested to the approved stack working pressure of 3000 psi isolated by test plug. Annular type preventers will be tested to 50 percent of rated working pressure, and therefore will be tested to 1500 psi. Pressure will be held for at least 10 minutes or until provisions of test are met, whichever is longer. Valve on casing head below test plug will be open during testing of BOP stack. BOP will comply with all provisions of Onshore Oil and Gas Order No. 2 as specified. **See Attached BOPE Schematic.** A variance is respectfully requested to allow for the use of flexible hose. The variance request is included as a separate enclosure with attachments.

See CSA

5. Proposed Mud System:

The mud systems that are proposed for use are as follows:

DEPTH	TYPE	Density ppg	FV sec/qt	API Fluid Loss cc/30 min	pH	Vol bbl
0 – Surface Casing Point	Fresh Water or Fresh Water Native Mud in Steel Pits	8.5 – 9.0	28 – 40	N.C.	N.C.	150 – 300
Surface Casing Point to TD	Brine (Saturated NaCl ₂) in Steel Pits	10	29	N.C.	10 – 11	300 – 1000
Conversion to Mud at TD	Brine Based Mud (NaCl ₂) in Steel Pits	10	33 – 40	5 – 10	10 – 11	0 – 1000

Gas detection equipment and pit level flow monitoring equipment will be on location. A flow paddle will be installed in the flow line to monitor relative amount of mud flowing in the non-pressurized return line. Mud probes will be installed in the individual tanks to monitor pit volumes of the drilling fluid with a pit volume totalizer. Gas detecting equipment and H₂S monitor alarm will be installed in the mud return system and will be monitored. A mud gas separator will be installed and operable before drilling out from the Surface Casing. The gases shall be piped into the flare system. Drilling mud containing H₂S shall be degassed in accordance with API RP-49, item 5.14.

In the event that the well is flowing from a waterflow, then we would discharge excess drilling fluids from the steel mud pits through a fas-line into steel frac tanks at an offset location for containment. Depending on the rate of waterflow, excess fluids will be hauled to an approved disposal facility, or if in suitable condition, may be reused on the next well.

No reserve pit will be built.

Proposal for Option to Not Mud Up at TD:

FW, Brine, and Mud volume presented above are estimates based on gauge 12-1/4" or 7-7/8" holes. We will adjust these volume based on hole conditions. We do not plan to keep any weighting material at the wellsite. Also, we propose an option to not mud up leaving only brine in the hole if we have good hole stability.

6. Logging, Coring, and Testing Program:

- a. No drill stem tests will be done
- b. Remote gas monitoring planned for the production hole section (optional).
- c. No whole cores are planned
- d. The open hole electrical logging program is planned to be as follows:
 - Total Depth to 1700' MD: Spectral Gamma Ray, PE, Resistivity (laterologs), Bulk Density, and Sonic
 - Total Depth to surface Casing Shoe: Caliper
 - Total Depth to surface, Total Gamma Ray and Neutron
 - Total Depth to 2350' MD ; Mud Log (optional)
 - Total Depth to 2350' MD ; Dielectric Scanner (optional)
 - Formation pressure data (XPT) on electric line if needed (optional)
 - Rotary Sidewall Cores on electric line if needed (optional)
 - FMI (Formation MicroImager) if needed (optional)
 - UBI (Ultrasonic Borehole Imager) if needed (optional)
- e. Cement Bond Log (optional).

7. Abnormal Pressures and Temperatures:

- No abnormal pressures are expected to be encountered.
- Loss of circulation is a possibility in the horizons below the Top of Grayburg. We expect that normal Loss of Circulation Material will be successful in healing any such loss of circulation events.
- The bottom hole pressure is expected to be 7.8 ppg gradient.
- The expected Bottom Hole Temperature is 100 degrees F.
- The estimated H₂S concentrations and ROE calculations for the gas in the zones to be penetrated are presented in the table below for the various producing horizons in this area:

FORMATION / ZONE	H2S (PPM)	Gas Rate (MCFD)	ROE 100 PPM	ROE 500 PPM
Seven Rivers	6	50 - 100 MCFD	0	0
Grayburg / San Andres	18360	20 - 50 MCFD	95	43

ConocoPhillips will comply with the provisions of Oil and Gas Order # 6, Hydrogen Sulfide Operations. Also, ConocoPhillips will provide an H₂S Contingency Plan (please see copy attached) and will keep this plan updated and posted at the wellsite during the drilling operation.

8. Anticipated starting date and duration of operations:

Well pad and road constructions will begin as soon as all agency approvals are obtained. Anticipated date to drill these wells is mid-2014 after receiving approval of the APD.

Attachments:

- Attachment # 1 Two-stage Cementing Schematic
- Attachment # 2 BOP and Choke Manifold Schematic – 3M System
- Attachment # 3 Diagram of Choke Manifold Equipment

Contact Information:

Proposed 6 February 2014 by:
James Chen
Drilling Engineer, ConocoPhillips Company
Phone (832) 486-2184
Cell (832) 768-1647
SEMU #247

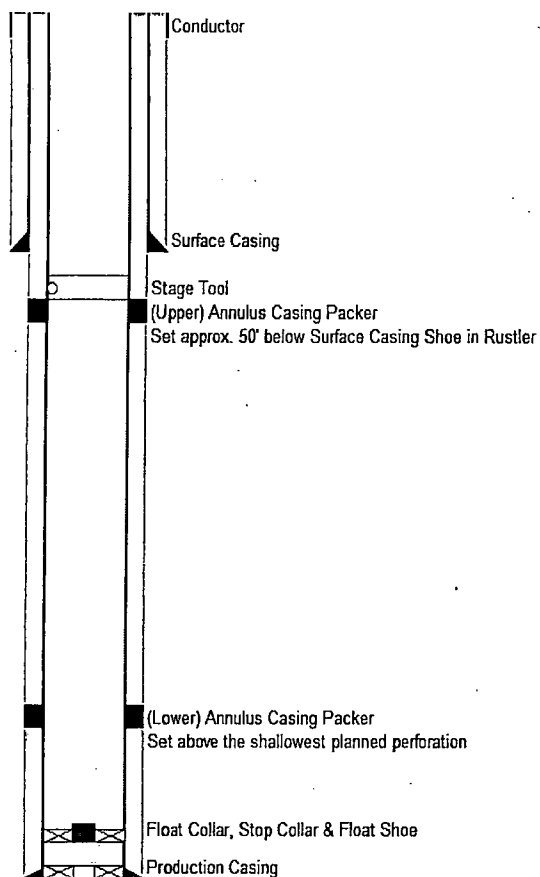
(Date: 2/6/2014)

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Attachment # 1

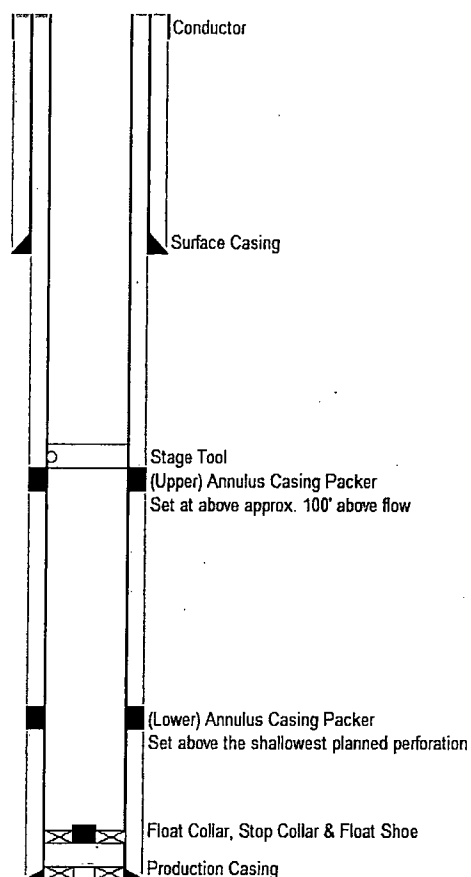
Two-Stage Cementing (Alternative for Shallow Gas / Salt Water / Gas & Water Flow)

Provide contingency plan for using two-stage cementing for the production casing cement job if gas flow occurs during the drilling operations. See APD Drill Plan Section 3. Proposed cementing program.

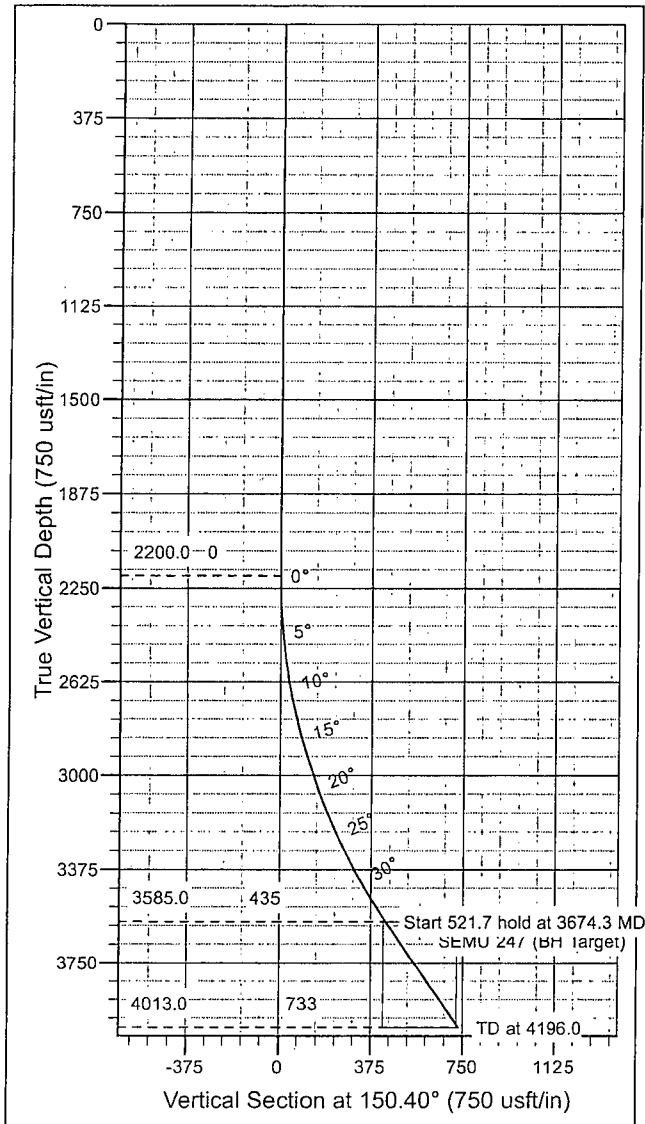


Two-Stage Cementing (Alternative for Oil / Water / Gas & Water Flow)

Provide contingency plan for using two-stage cementing for the production casing cement job if oil or water flow occurs during the drilling operations. See APD Drill Plan Section 3. Proposed cementing program.



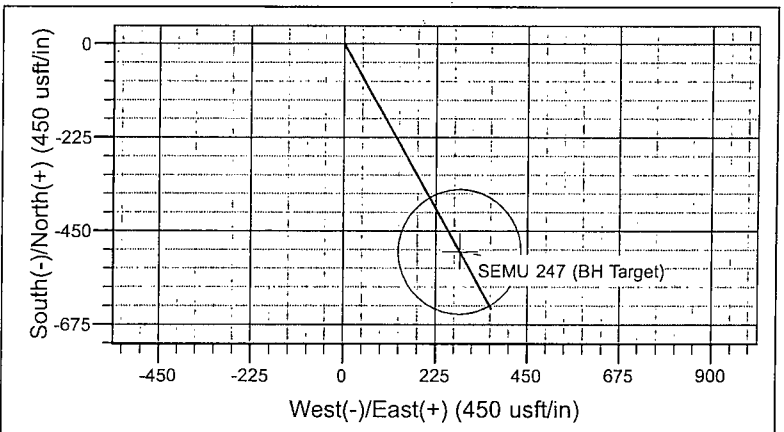
Proposed Directional Well Plan



Project: Buckeye
 Site: SEMU
 Well: SEMU 247
 Wellbore: SEMU 247
 Design: Plan Design

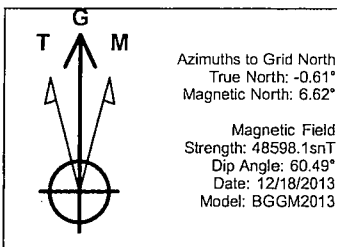
WELL DETAILS: SEMU 247						
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude
0.0	0.0	569250.23	3359.0	850159.24	32° 33' 35.417 N	103° 11' 48.624 W

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0
3	33674.3	34.87	150.40	3585.0	-378.2	214.8	2.37	150.40	435.0 SEMU 247 (BH Target)
4	4196.0	34.87	150.40	4013.0	-637.5	362.1	0.00	0.00	733.2



CASING DETAILS			
TVD	MD	Name	Size
85.0	85.0	Conductor	16
1252.0	1252.0	Surface	8-5/8
3854.6	4003.0	Production	5-1/2

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1182.0	1182.0	Rustler
1273.0	1273.0	Salado
2371.0	2371.1	Tansill
2500.0	2500.8	Yates
2747.0	2751.8	Seven Rivers
3320.0	3364.3	Queen
3445.0	3507.6	Penrose
3585.0	3674.3	Grayburg
3813.0	3952.2	San Andres



ConocoPhillips MCBU

Buckeye

SEMU

SEMU 247

SEMU 247

Plan: Plan Design

Standard Planning Report - Geographic

18 December, 2013

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SEMU 247
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3372.0usft (PD 822)
Project:	Buckeye	MD Reference:	WELL @ 3372.0usft (PD 822)
Site:	SEMU	North Reference:	Grid
Well:	SEMU 247	Survey Calculation Method:	Minimum Curvature
Wellbore:	SEMU 247		
Design:	Plan Design		

Project	Buckeye, 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		Using geodetic scale factor

Site	SEMU, New Mexico, East		
Site Position:		Northing:	574,584.87 usft
From:	Lat/Long	Easting:	839,762.30 usft
Position Uncertainty:	3.5 usft	Slot Radius:	8 "
		Latitude:	32° 34' 29.280 N
		Longitude:	103° 13' 49.440 W
		Grid Convergence:	0.59 °

Well	SEMU 247, Deviated Well		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 33' 35.417 N
		Longitude:	103° 11' 48.624 W
		Ground Level:	3,359.0 usft

Wellbore	SEMU 247				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	12/18/2013	7.23	60.49	48,598

Design	Plan Design			
Audit Notes:				
Version:	1	Phase:	PROTOTYPE	Tie On Depth:
				0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	150.40

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,674.3	34.87	150.40	3,585.0	-378.2	214.8	2.37	2.37	0.00	150.40	SEMU 247 (BH Targe
4,196.0	34.87	150.40	4,013.0	-637.5	362.1	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SEMU 247
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3372.0usft (PD 822)
Project:	Buckeye	MD Reference:	WELL @ 3372.0usft (PD 822)
Site:	SEMU	North Reference:	Grid
Well:	SEMU 247	Survey Calculation Method:	Minimum Curvature
Wellbore:	SEMU 247		
Design:	Plan Design		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
85.0	0.00	0.00	85.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
Conductor										
100.0	0.00	0.00	100.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
200.0	0.00	0.00	200.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
300.0	0.00	0.00	300.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
400.0	0.00	0.00	400.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
500.0	0.00	0.00	500.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
600.0	0.00	0.00	600.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
700.0	0.00	0.00	700.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
800.0	0.00	0.00	800.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
900.0	0.00	0.00	900.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,182.0	0.00	0.00	1,182.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
Rustler										
1,200.0	0.00	0.00	1,200.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,252.0	0.00	0.00	1,252.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
Surface										
1,273.0	0.00	0.00	1,273.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
Salado										
1,300.0	0.00	0.00	1,300.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	569,250.24	850,159.24	32° 33' 35.417 N	103° 11' 48.624 W	
2,300.0	2.37	150.40	2,300.0	-1.8	1.0	569,248.44	850,160.26	32° 33' 35.399 N	103° 11' 48.613 W	
2,371.1	4.05	150.40	2,371.0	-5.3	3.0	569,244.98	850,162.22	32° 33' 35.365 N	103° 11' 48.590 W	
Tansill										
2,400.0	4.73	150.40	2,399.8	-7.2	4.1	569,243.06	850,163.31	32° 33' 35.346 N	103° 11' 48.578 W	
2,500.0	7.10	150.40	2,499.2	-16.1	9.2	569,234.11	850,168.40	32° 33' 35.257 N	103° 11' 48.519 W	
2,500.8	7.11	150.40	2,500.0	-16.2	9.2	569,234.02	850,168.45	32° 33' 35.256 N	103° 11' 48.519 W	
Yates										
2,600.0	9.46	150.40	2,598.2	-28.6	16.3	569,221.59	850,175.51	32° 33' 35.132 N	103° 11' 48.438 W	
2,700.0	11.83	150.40	2,696.5	-44.7	25.4	569,205.53	850,184.63	32° 33' 34.972 N	103° 11' 48.333 W	
2,751.8	13.05	150.40	2,747.0	-54.4	30.9	569,195.83	850,190.14	32° 33' 34.876 N	103° 11' 48.270 W	
Seven Rivers										
2,800.0	14.19	150.40	2,793.9	-64.3	36.5	569,185.96	850,195.75	32° 33' 34.777 N	103° 11' 48.206 W	
2,900.0	16.56	150.40	2,890.3	-87.3	49.6	569,162.90	850,208.84	32° 33' 34.548 N	103° 11' 48.056 W	
3,000.0	18.92	150.40	2,985.5	-113.8	64.7	569,136.41	850,223.89	32° 33' 34.284 N	103° 11' 47.883 W	
3,100.0	21.29	150.40	3,079.4	-143.7	81.6	569,106.53	850,240.87	32° 33' 33.987 N	103° 11' 47.689 W	
3,200.0	23.65	150.40	3,171.8	-176.9	100.5	569,073.30	850,259.74	32° 33' 33.656 N	103° 11' 47.472 W	
3,300.0	26.02	150.40	3,262.6	-213.4	121.2	569,036.78	850,280.49	32° 33' 33.292 N	103° 11' 47.235 W	
3,364.3	27.54	150.40	3,320.0	-238.6	135.6	569,011.59	850,294.80	32° 33' 33.042 N	103° 11' 47.070 W	
Queen										
3,400.0	28.38	150.40	3,351.5	-253.2	143.8	568,997.04	850,303.06	32° 33' 32.897 N	103° 11' 46.976 W	
3,500.0	30.75	150.40	3,438.5	-296.1	168.2	568,954.13	850,327.43	32° 33' 32.470 N	103° 11' 46.696 W	

ConocoPhillips

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SEMU 247
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3372.0usft (PD 822)
Project:	Buckeye	MD Reference:	WELL @ 3372.0usft (PD 822)
Site:	SEMU	North Reference:	Grid
Well:	SEMU 247	Survey Calculation Method:	Minimum Curvature
Wellbore:	SEMU 247		
Design:	Plan Design		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude		Longitude
3,507.6	30.93	150.40	3,445.0	-299.5	170.1	568,950.76	850,329.35	32° 33' 32.436 N		103° 11' 46.674 W
Penrose										
3,600.0	33.11	150.40	3,523.4	-342.1	194.3	568,908.15	850,353.55	32° 33' 32.012 N		103° 11' 46.397 W
3,674.3	34.87	150.40	3,585.0	-378.2	214.8	568,872.01	850,374.08	32° 33' 31.652 N		103° 11' 46.162 W
Grayburg										
3,700.0	34.87	150.40	3,606.0	-391.0	222.1	568,859.25	850,381.32	32° 33' 31.525 N		103° 11' 46.079 W
3,800.0	34.87	150.40	3,688.1	-440.7	250.3	568,809.54	850,409.56	32° 33' 31.030 N		103° 11' 45.755 W
3,900.0	34.87	150.40	3,770.1	-490.4	278.5	568,759.82	850,437.80	32° 33' 30.536 N		103° 11' 45.431 W
3,952.2	34.87	150.40	3,813.0	-516.4	293.3	568,733.85	850,452.55	32° 33' 30.277 N		103° 11' 45.262 W
San Andres										
4,000.0	34.87	150.40	3,852.2	-540.1	306.8	568,710.11	850,466.04	32° 33' 30.041 N		103° 11' 45.108 W
4,003.0	34.87	150.40	3,854.6	-541.6	307.6	568,708.62	850,466.89	32° 33' 30.026 N		103° 11' 45.098 W
Production										
4,100.0	34.87	150.40	3,934.2	-589.8	335.0	568,660.40	850,494.28	32° 33' 29.546 N		103° 11' 44.784 W
4,196.0	34.87	150.40	4,013.0	-637.5	362.1	568,612.66	850,521.39	32° 33' 29.071 N		103° 11' 44.473 W

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
SEMU 247 (BH Target)	0.00	0.00	3,585.0	-500.2	284.1	568,750.02	850,443.37	32° 33' 30.438 N	103° 11' 45.367 W
- plan misses target center by 115.1usft at 3754.6usft MD (3650.8 TVD, -418.1 N, 237.5 E)									
- Circle (radius 150.0)									

Casing Points							Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name						
85.0	85.0	Conductor					16	20
1,252.0	1,252.0	Surface					8-5/8	12-1/4
4,003.0	3,854.6	Production					5-1/2	7-7/8

Formations							Dip (°)	Dip Direction (°)
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology					
1,182.0	1,182.0	Rustler						0.00
1,273.0	1,273.0	Salado						0.00
2,371.1	2,371.0	Tansill						0.00
2,500.8	2,500.0	Yates						0.00
2,751.8	2,747.0	Seven Rivers						0.00
3,364.3	3,320.0	Queen						0.00
3,507.6	3,445.0	Penrose						0.00
3,674.3	3,585.0	Grayburg						0.00
3,952.2	3,813.0	San Andres						0.00

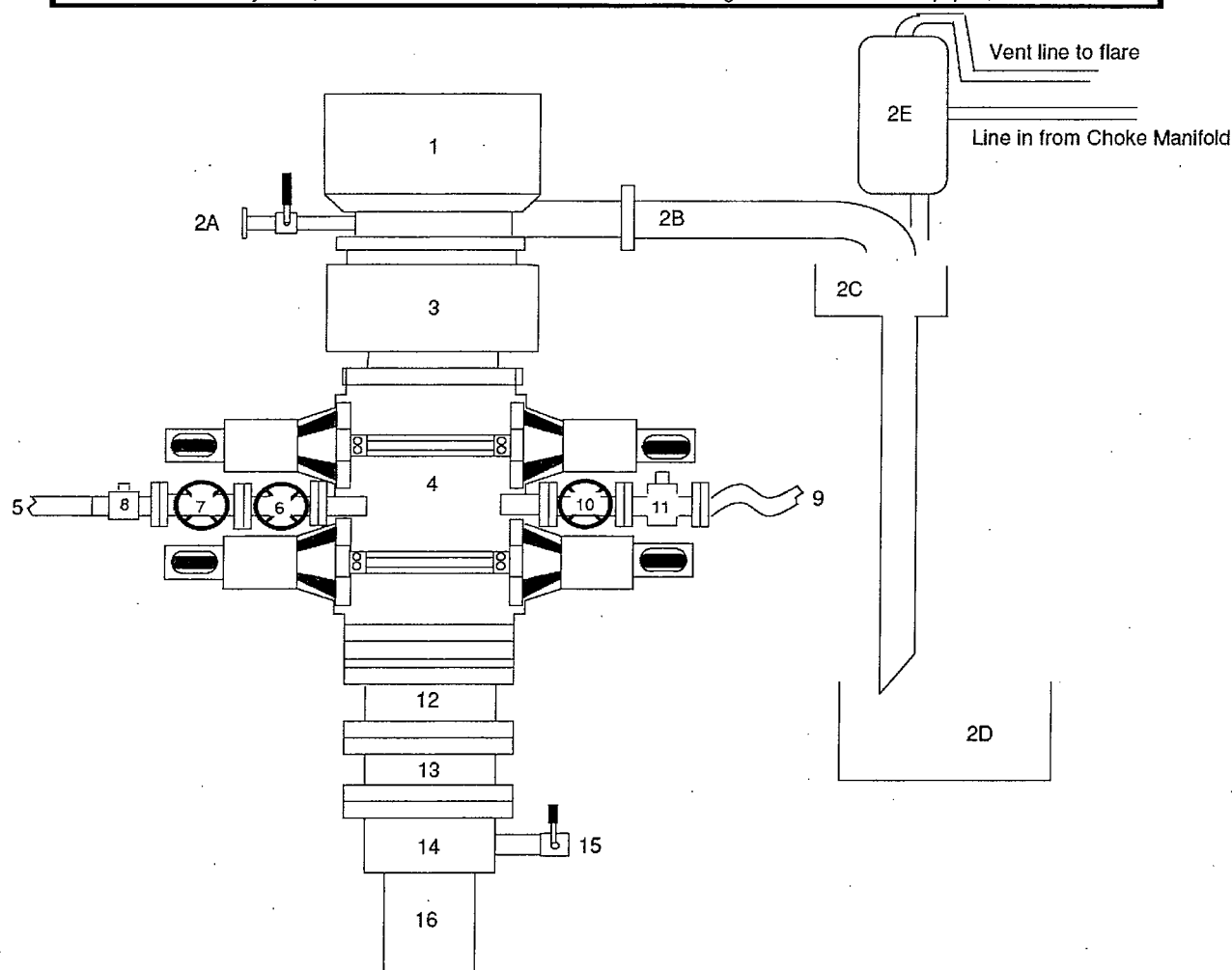
ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SEMU 247
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3372.0usft (PD 822)
Project:	Buckeye	MD Reference:	WELL @ 3372.0usft (PD 822)
Site:	SEMU	North Reference:	Grid
Well:	SEMU 247	Survey Calculation Method:	Minimum Curvature
Wellbore:	SEMU 247		
Design:	Plan Design		

Attachment # 2

BLOWOUT PREVENTER ARRANGEMENT

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

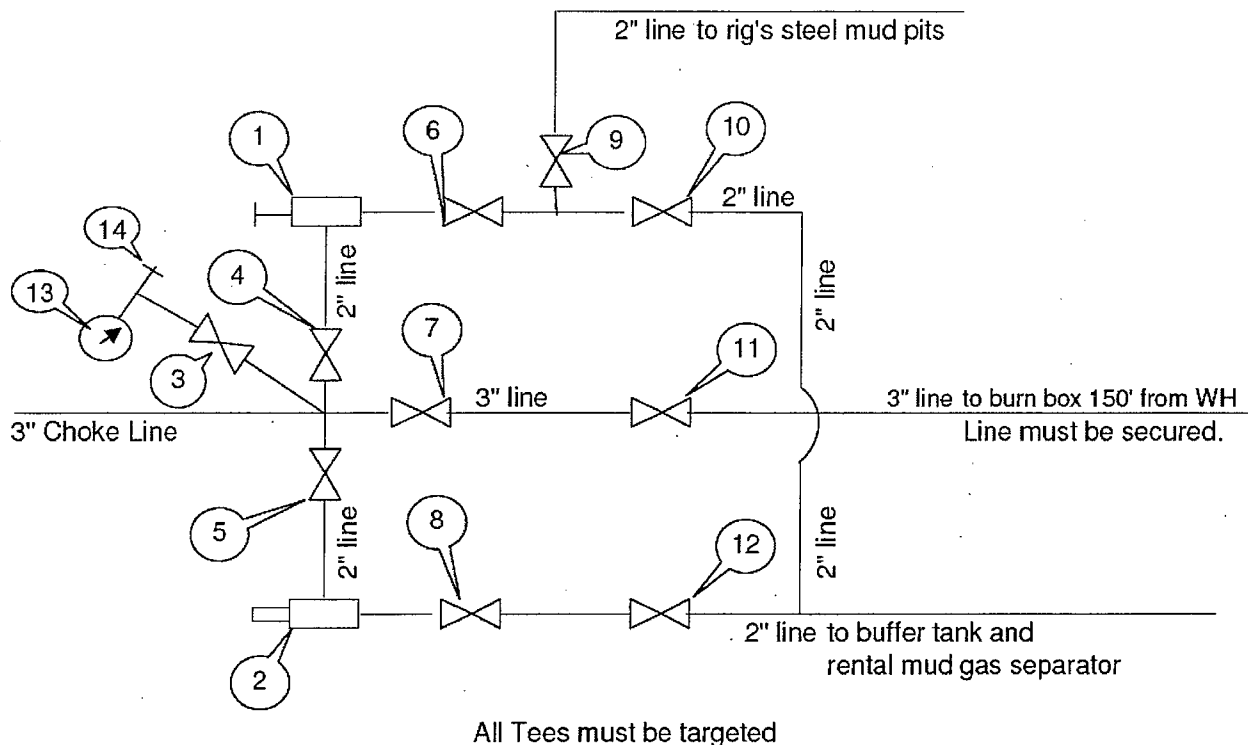


Item	Description
1	Rotating Head, 11"
2A	Fill up Line and Valve
2B	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (11", 3M)
4	Double Ram (11", 3M, equipped with Blind Rams and Pipe Rams)
5	Kill Line (2" flexible hose, 3000 psi WP)
6	Kill Line Valve, Inner (3-1/8", 3000 psi WP)
7	Kill Line Valve, Outer (3-1/8", 3000 psi WP)
8	Kill Line Check Valve (2-1/16", 3000 psi WP)
9	Choke Line (5M Stainless Steel Coffex Line, 3-1/8" 3M API Type 6B, 3000 psi WP)
10	Choke Line Valve, Inner (3-1/8", 3000 psi WP)
11	Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP)
12	Adapter Flange (11" 5M to 11" 3M)
13	Spacer Spool (11", 5M)
14	Casing Head (11" 5M)
15	Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M
16	Surface Casing

Submitted by: James Chen, Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 25-Sep-2012

CHOKE MANIFOLD ARRANGEMENT

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



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

We will test each valve to 3000 psi from the upstream side.

Submitted by:
 James Chen
 Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company
 Date: 21-March-2013

Request for Variance

ConocoPhillips Company

Lease Number: NMLC031670 (A)

Well: SEMU #247

Location: Sec. 24, T20S, R38E

Date: 2/6/2014

Request:

See COA
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:

Steven Herrin

Drilling Engineer, ConocoPhillips Company

Phone: (281) 206-5115

Cell: (432) 209-7558

Date: 2 January 2014

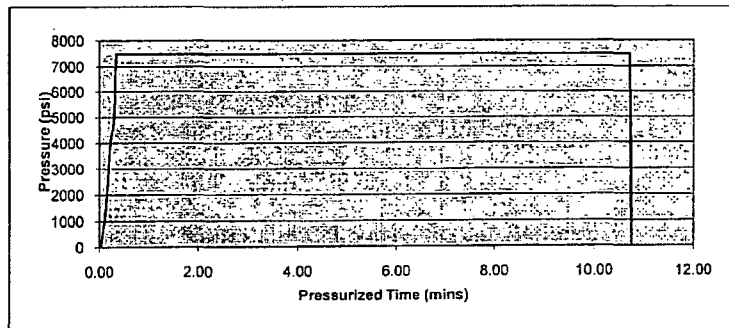
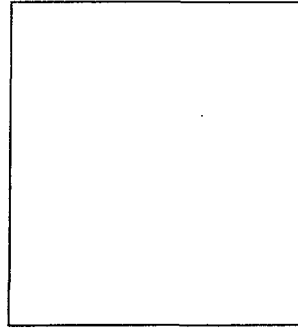


2030 E. 8th Street, Suite B • Greeley, CO 80631
Ph: (970) 346-3751 • Fax: (970) 353-3168 • Toll Free: (866) 771-9739

TEST CERTIFICATE

Customer: PRECISION DRILLING
P.O. #: RIG 822
Invoice #: 27792
Material: 3 1/2" FIREGUARD
Description: 3 1/2" X 10'
Coupling 1: 3 1/2" FLANGE R31
" Serial:
" Quality:
Coupling 2: 3 1/2" FLOATING R31
" Serial:
" Quality:
Working Pressure: 3000
Test Pressure: 7500
Duration (mins): 10

Cert No.: 27792
Date: 9/21/2012



Conducted By: FLORES M.,
Test Technician

☒ Acceptable
☐ Not Acceptable



Reliance Eliminator Choke & Kill

This hose can be used as a choke hose which connects the BOP stack to the bleed-off manifold or a kill hose which connects the mud stand pipe to the BOP kill valve.

The Reliance Eliminator Choke & Kill hose contains a specially bonded compounded cover that replaces rubber covered Asbestos, Fibreglass and other fire retardant materials which are prone to damage. This high cut and gouge resistant cover overcomes costly repairs and downtime associated with older designs.

The Reliance Eliminator Choke & Kill hose has been verified by an independent engineer to meet and exceed EUB Directive 36 (700°C for 5 minutes).

Nom. ID		Nom OD		Weight		Min Bend Radius		Max WP	
in.	mm.	in.	mm	lb/ft	kg/m	in.	mm.	psi	Mpa
3	76.2	5.11	129.79	14.5	21.46	48	1219.2	5000	34.47
3-1/2	88.9	5.79	147.06	20.14	29.80	54	1371.6	5000	34.47

Fittings

RC4X5055
RC3X5055
RC4X5575

Flanges

R35 - 3-1/8 5000# API Type 6B
R31 - 3-1/8 3000# API Type 6B

Hammer Unions

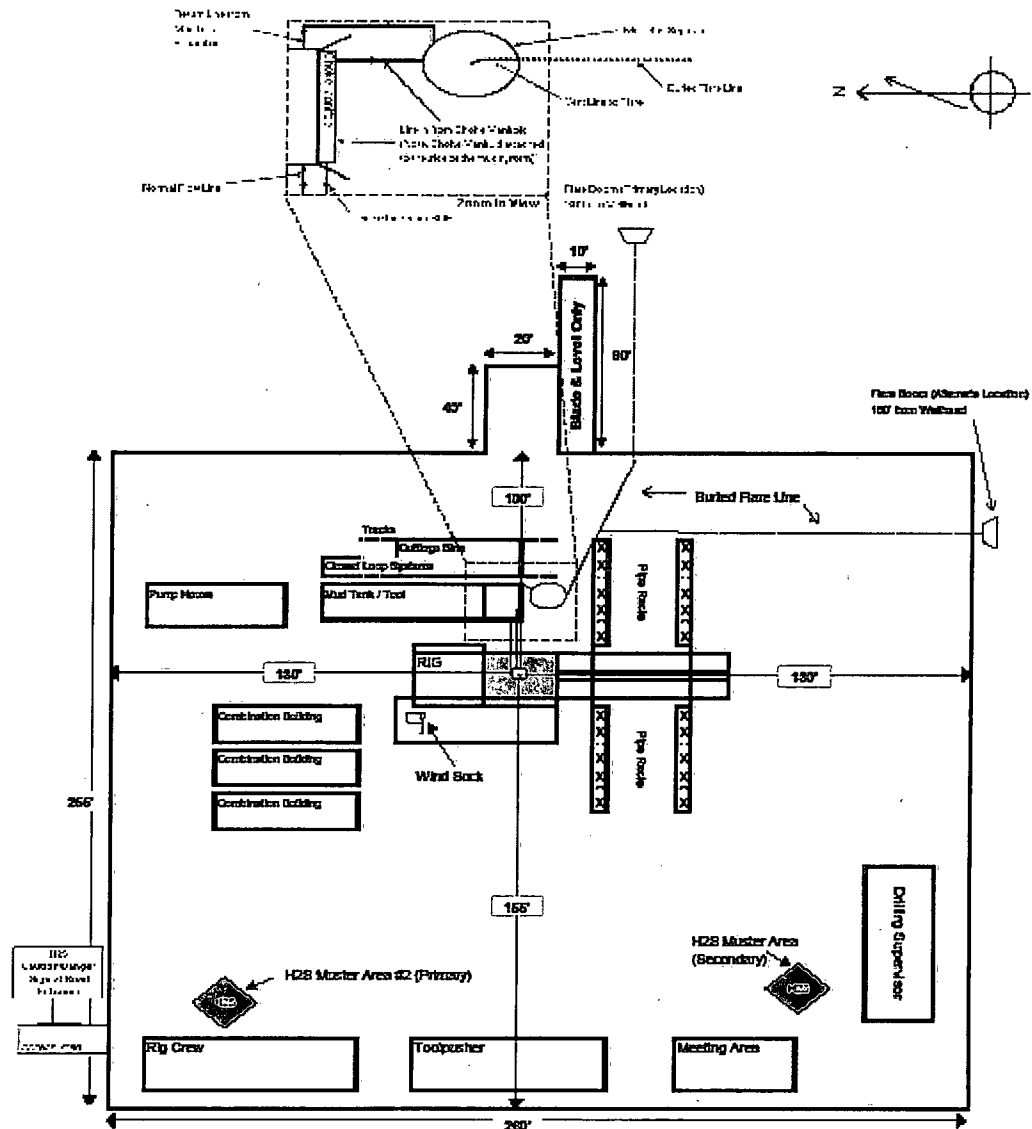
All Union Configurations

Other

LP Threaded Connection
Graylock
Custom Ends

(PICTURE NOT TO SCALE)

NOTE: There are two muster areas depending on the prevailing wind direction, generally south in this area. The muster area that is furthest upwind/crosswind will be the designated area for briefing and assessing the situation. In the event a full evacuation is deemed necessary, all personnel will exit the location via the access road. If the main access road is blocked off, they will exit via a secondary road (if available) or walk off route in the upwind/crosswind direction.



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

ConocoPhillips Company
Well: SEMU #247
Location: Sec. 24, T20S, R38E
Date: 2/6/2014

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 build an earth pit above ground level, 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' 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 tanks.

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:

R-360 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 R-360 is NM-01-0006.

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

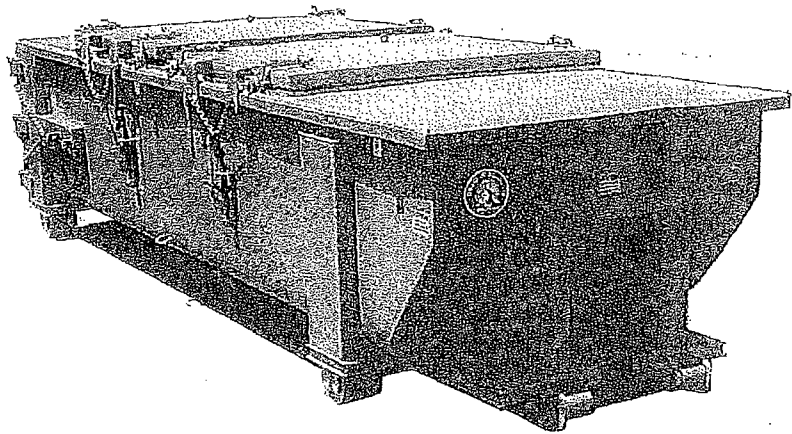
3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - 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, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

Steven Herrin
Drilling Engineer, ConocoPhillips Company
Phone (281) 206-5115
Cell (432) 209-7558

SPECIFICATIONS

Heavy Duty Split Metal Rolling Lid

FLOOR: 3/16" PL one piece
 CROSS MEMBER: 3 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 UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
 WHEELS: 10 DIA x 9 long with rease 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, Hell 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

