

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**



Mastob Dadd Fed #<sup>INS</sup>11

## INSPECTION RECORD - ABANDONMENT

Lease No./Unit/CA VMNM111789X	State NM	District CARLSBAD FIELD OFFICE	Field Area SQUARE LAKE
Well Name: JODD FEDERAL UNIT		Well Number: 11	Hazard? No
API No. 300150294800S1	Location 1/4, 1/4, S-T-R (Lat/Long) NWSE 11 17S 29E		Spud Date 03/27/1952
Operator/Representative VARBOB ENERGY CORPORATION		Rig/Contractor/Representative MAYO MARRS PETE 432-240-0653	

Well Type: (Circle One)

## Dry Hole

### Depleted Producer

Service

## Water Well

Etc.

INSP. TYPE	ACT. CODE	INSPECTOR	OPEN DATE	CLOSED DATE	OFFICE TIME	TRAVEL TIME	INSPECT. TIME	TRIPS
PD	HS	Carter	10-18-06	10-20-06	.3		16	3
	PD				.3	2	.3	

## PLUGGING OPERATIONS

WITNESSED

	YES	NO	N/A
1. Plugs spotted across perforations if casing set?	/		
2. Plugs spotted at casing stubs?	/		/
3. Open hole plugs spotted as specified?	/		/
4. Retainers, bridge plugs, or packers set as specified?	/		
5. Cement quantities as specified?	/		
6. Method of verifying and testing plugs as specified?	/		
7. Pipe withdrawal rate satisfactory after spotting plugs?	/		
8. All annular spaces plugged to surface?	/	/	
9. INC issued?		/	

Plug Tested: ☐ No ☐ Pressured ☒ Tagged

If tested, which plug(s):

Bottom Plug: Type Plug SEE ATTACHED Depth(s) \_\_\_\_\_ Amount of Cement \_\_\_\_\_

Stub Plug: Type Plug \_\_\_\_\_ Depth(s) \_\_\_\_\_ Amount of Cement \_\_\_\_\_

Intermediate Plug: Type Plug \_\_\_\_\_ Depth(s) \_\_\_\_\_ Amount of Cement \_\_\_\_\_

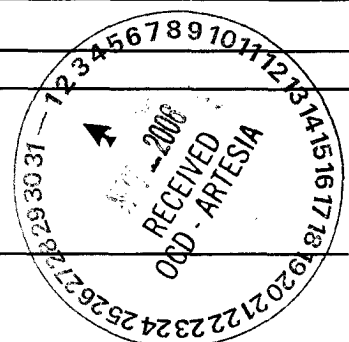
Surface Shoe Plug: Amount of Cement \_\_\_\_\_ Top of Plug \_\_\_\_\_

Other: Type of Plug \_\_\_\_\_ Depth(s) \_\_\_\_\_ Amount of Cement \_\_\_\_\_

Cement and mechanical plug placement data(attach service company report, if available):

Remarks:

Accepted for record  
NMOCD *[initials]*



# BALANCE PLUG PROGRAM

## CALCULATION

	Size	Weight	cf/lf	lf/cf	bbl/ft	ft/bbl
Hole/Casing						
Casing						
Tubing/D.P.						
Annular Volume						

Plug Set at \_\_\_\_\_ Size of Plug \_\_\_\_\_  
 H<sub>2</sub>O Ahead \_\_\_\_\_ bbl Cement Class \_\_\_\_\_ Additions \_\_\_\_\_  
 H<sub>2</sub>O Req: \_\_\_\_\_ gal/sk \_\_\_\_\_ cf/sk  
 Slurry Wt: \_\_\_\_\_ lbs/gal \_\_\_\_\_ lbs/cf  
 Slurry Vol: \_\_\_\_\_ cf/sk  
 CEMENT VOLUMES: \_\_\_\_\_ cf \_\_\_\_\_ bbls

Hole cap (cf/lf) x size of plug = cf x .1781 = bbls

SACKS OF CEMENT: \_\_\_\_\_ sks

Cmt vol (cf) / slurry vol (cf/sk)

MIXING H<sub>2</sub>O REQUIRED: \_\_\_\_\_ bbls

Sks of cmt x H<sub>2</sub>O req (gal/sk = gallons / 42)

H<sub>2</sub>O BEHIND: \_\_\_\_\_ bbls

Annular vol (ft/bbl) x H<sub>2</sub>O ahead = \_\_\_\_\_ x tubing/D.P.(bbl/ft)

DISPLACEMENT: \_\_\_\_\_ bbls

Top of plug x tubing/D.P.(bbl/ft) = \_\_\_\_\_ tubing volume

## CALCULATION

	Size	Weight	cf/lf	lf/cf	bbl/ft	ft/bbl
Hole/Casing						
Casing						
Tubing/D.P.						
Annular Volume						

Plug Set at \_\_\_\_\_ Size of Plug \_\_\_\_\_  
 H<sub>2</sub>O Ahead \_\_\_\_\_ bbl Cement Class \_\_\_\_\_ Additions \_\_\_\_\_  
 H<sub>2</sub>O Req: \_\_\_\_\_ gal/sk \_\_\_\_\_ cf/sk  
 Slurry Wt: \_\_\_\_\_ lbs/gal \_\_\_\_\_ lbs/cf  
 Slurry Vol: \_\_\_\_\_ cf/sk  
 CEMENT VOLUMES: \_\_\_\_\_ cf \_\_\_\_\_ bbls

Hole cap (cf/lf) x size of plug = cf x .1781 = bbls

SACKS OF CEMENT: \_\_\_\_\_ sks

Cmt vol (cf) / slurry vol (cf/sk)

MIXING H<sub>2</sub>O REQUIRED: \_\_\_\_\_ bbls

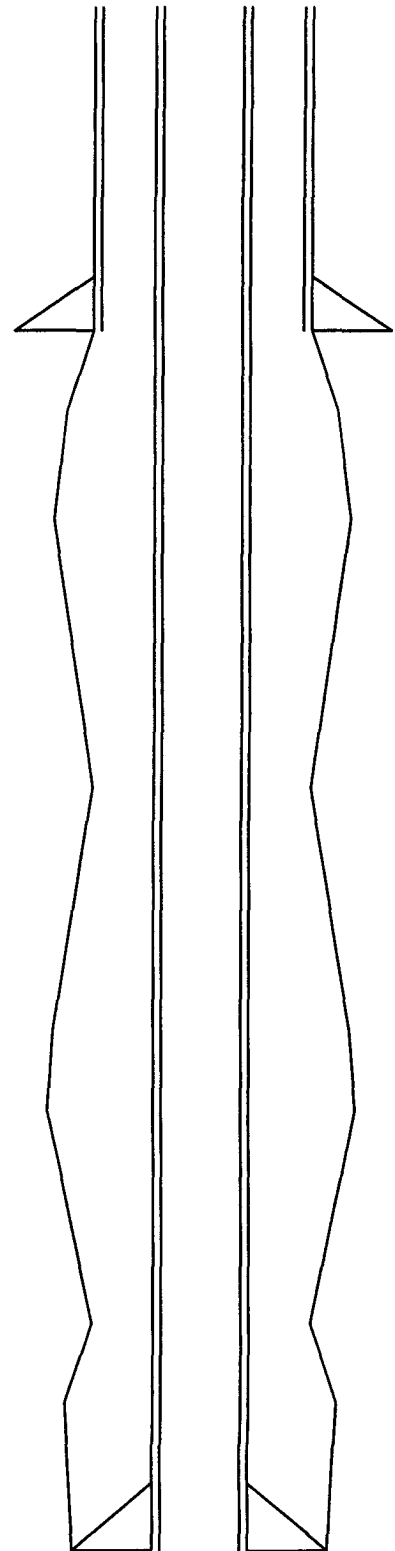
Sks of cmt x H<sub>2</sub>O req (gal/sk = gallons / 42)

H<sub>2</sub>O BEHIND: \_\_\_\_\_ bbls

Annular vol (ft/bbl) x H<sub>2</sub>O ahead = \_\_\_\_\_ x tubing/D.P.(bbl/ft)

DISPLACEMENT: \_\_\_\_\_ bbls

Top of plug x tubing/D.P.(bbl/ft) = \_\_\_\_\_ tubing volume



Accepted for record  
 NMOCD

## PRIORITY REMARKS

SUNDRY(ABD): NOI TO P+A

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NMOCD**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

I&amp;E-CFO

FORM APPROVED  
OM B No. 1004-0137  
Expires: March 31, 2007

ENTERED

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator **Marbob Energy Corporation**3a. Address  
**PO Box 227, Artesia, NM 88211-0227**3b. Phone No. (include area code)  
**505-748-3303**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1980 FSL 1980 FEL, Sec. 11-T17S-R29E, Unit J**

5. Lease Serial No.

**NMLC058362**

6. If Indian, Allottee or Tribe Name

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

**NMNM111789X**

8. Well Name and No

**Dodd Federal Unit #11**

9. API Well No.

**30-015-02948**

10. Field and Pool, or Exploratory Area

**Grbg Jackson SR Q Grbg SA**

11. County or Parish, State

**Eddy Co., NM**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Plug and abandon as follows:

Notify BLM 24 hours before starting plugging operation.

1. POOH w/ pkr & tbq.
2. Shoot 4 sqz holes @ 900' (50' below base salt @ 850').
3. Set CIBP on tbq @ 2300'. Spot 40 sx Class "C" neat cmt on top of CIBP. Pull up to 2100' & circ well bore full of 9 ppg brine mixed w/ 25 sx per 100 bbs of salt gel (appx 35 bbls csg volume).
4. Pull tbq to 750'. Pump 45 sx Class "C" + 2% CaCl2 to the end of the tbq (placing cmt inside & outside the csg). TOOH w/ tbq, load csg. WOC a couple of hours & tag cmt w/ tbq.
5. Shoot 4 sqz holes @ 510' (50' below 8 5/8" shoe @ 460'). Pump 40 sx Class "C" + 2% CaCl2 down 7" csg & up 8 5/8" x 7" annulus to fill the well from 510' to 410' w/ cmt. WOC a couple of hours, then tag plug.
6. Shoot 4 deep penetrating sqz holes @ 100' (above calculated TOC behind 8 5/8"). Pump 60 sx Class "C" + 2% CaCl2 down 7" csg & up 8 5/8" x 7" annulus & outside 8 5/8" to fill well from 100' to surface w/ cmt.
7. Cut wellhead & csg off 3' below ground level & remove. Weld plate onto 8 5/8" stub. Weld 4" dry hole marker onto plate such that 4' of it is above ground level.
8. Cut off anchors & reclaim location per BLM specs.

SEE ATTACHED FOR  
CONDITIONS OF APPROVALAccepted for record  
NMOCBENTERED IN  
AFMSS

14. I hereby certify that the foregoing is true and correct
- 
- Name (Printed/Typed)

**Diana J. Briggs**Title **Production Analyst**

Signature

Date

**06/13/2006**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

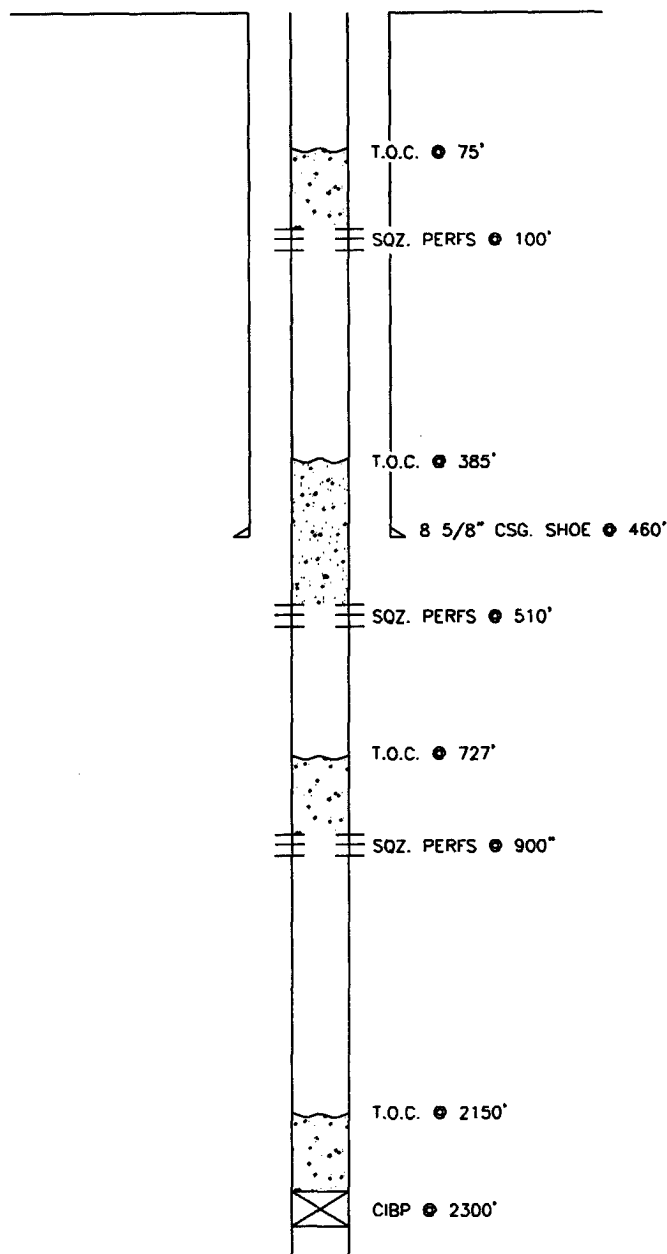
**(ORIG. SGD.) ALEXIS C. SWOBODA**Title **PETROLEUM ENGINEER**Date **JUN 19 2006**

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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.

(Instructions on page 2)



SET CIBP • 2300'. PLACED  
25 SXS CEMENT ON TOP OF  
CIBP.  
SQZ PERFS AT 900'. RIH W/PKR.  
RUN 45 SXS CEMENT. TTOC= 745'.  
ACTUAL TAG AT 727'.  
SQZ PERF • 510'. RIH W/6 JTS.  
PKR WOULD NOT SET AT 196'. CAME  
UP TO 186' TO SET PKR..  
PUMPED 40 SXS CEMENT. PKR STUCK.  
FINALLY UNSEATED.  
TAG TOC • 385. PRESSURED UP TO 500#.  
SQZ PERFS AT 100'. SPOT 40 SXS  
CEMENT. NO TAG. RAN ANOTHER  
40 SXS. TAGGED CEMENT AT 75'.  
FINISHED W/ 15 SXS TO SURF.

MARBOB DODD FEDERAL #11

Accepted for record  
NMOCD

10-19-06 Perf @ 900'

Balanced Plug Work Sheet for Single Diameter Plugs

6.366 115

Hole/Pipe Size	7	inches	Hole/Pipe Cap.	.2210	cuft/ft	
Plug Length	100	feet				
Plug Depth	900	feet	Annular Vol.	.0710	cuft/ft	.0126 bbls/ft
Workstring	2.375	inches	AV			AV 2
Workstring Wt.	4.8	lbs/ft	Workstring Capacity	.0217	cuft/ft	.00387 bbls/ft
Cmt. Type	C	Class	Ws cap.			Ws cap. 2
Cmt. Yield	1.32	cuft/sx	Preflush length		feet	
Mix H2O	6.32	gals/sx	Spacer length		feet	

1. How much cement is needed in cubic feet?

$$\frac{100}{\text{Plug Length}} \text{ ft plug} \times \frac{.2210}{\text{Hole/Pipe capacity}} \text{ cuft/ft} = \frac{22.1}{A} \text{ cuft}$$

2. How many sacks is that?

$$\frac{22.1}{A} \text{ cuft} \div \frac{1.32}{\text{Cement Yield}} \text{ cuft/sx} = \frac{16.7}{\text{SXS}}$$

ROUND UP TO THE NEXT HIGHEST 5 SACKS

3. Convert sacks back to cubic feet.

$$\frac{20}{B} \text{ sxs} \times \frac{1.32}{\text{Cement Yield}} \text{ cuft/sx} = \frac{26.4}{C} \text{ cuft}$$

4. How many barrels of cement slurry?

$$\frac{26.4}{C} \text{ cuft} \times \frac{0.1781}{\text{Constant}} \text{ bbls/cuft} = \frac{4.7}{\text{bbls cement to pump}}$$

5. How much mix water will be needed?

$$\frac{20}{B} \text{ sxs} \times \frac{6.32}{\text{Mix H2O}} \text{ gals/sx} + 42 \text{ gal/bbl} = \frac{3.00}{\text{bbls}}$$

6. What is the height of the cement inside outside of the workstring in feet?

$$\frac{.0710}{AV} \text{ cuft/ft} + \frac{.0217}{Ws \text{ cap.}} \text{ cuft/ft} = \frac{.0927}{\text{cuft/ft}}$$

$$\frac{26.4}{C} \text{ cuft} \div \frac{.0927}{AV + Ws \text{ cap.}} \text{ cuft/ft} = \frac{284.8}{D} \text{ ft}$$

7. How many barrels of preflush and spacer will be used?

$$\frac{PL \text{ preflush length}}{\text{ft}} \times \frac{AV 2}{\text{bbls/ft in annulus}} = \text{bbls}$$

$$\frac{SL \text{ spacer length}}{\text{ft}} \times \frac{Ws \text{ cap.2}}{\text{bbls/ft in workstring}} = \text{bbls}$$

8. How many barrels of displacement to balance the plug?

$$\frac{284.8}{D} \text{ ft} + \frac{SL \text{ spacer length}}{\text{ft}} = \frac{284.8}{\text{ft}}$$

$$\frac{900}{\text{Plug Depth}} \text{ ft} - \frac{284.8}{D + SL} \text{ ft} \times \frac{.00387}{Ws \text{ cap.2}} \text{ bbls/ft} = \frac{2.38}{\text{bbls to disp}}$$

9. What is the height of the cement with the workstring out of the plug?

$$\frac{26.4}{C} \text{ cuft} + \frac{.2210}{\text{Hole/Pipe capacity}} \text{ cuft/ft} = \frac{119.5}{E} \text{ ft}$$

10. Where will top of cement be?

$$\frac{900}{\text{Plug Depth}} \text{ ft} - \frac{119.5}{E} \text{ ft} = \frac{780}{\text{ft}}$$

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NMOC

T.O.C. 727'

Mar 60 #11

10-19-06

Balanced Plug Work Sheet for Two Diameter Plugs

Perf @ 510

T.O.C. 385

Hole Size	8.625	inches	Hole Capacity	.4057	cuft/ft
Pipe Size	7	inches	Pipe Capacity	.2210	cuft/ft
Pipe Wt.	23	lbs/ft			
Plug Length	100	feet	Annular Vol. hole & Ws	.3750	cuft/ft
Plug Depth	510	feet	Annular Vol. pipe & Ws	.1903	cuft/ft
Workstring	2.375	inches			
Workstring Wt.	4.8	lbs/ft	Workstring Capacity	.0217	cuft/ft
Cmt. Type	C	Class	Ws cap.		
Cmt. Yield	1.32	cuft/sx	Preflush length	—	feet
Mix H2O	6.32	gals/sx	Spacer length	—	feet

1. How much cement is needed in cubic feet?

$$\frac{100}{\text{ft plug}} \times \frac{.2210}{\text{Pipe capacity}} = 22.1 \text{ cuft}$$

$$\frac{100}{\text{ft plug}} \times \frac{.4057}{\text{Hole capacity}} = 40.57 \text{ cuft}$$

$$A1 + A2 = \frac{62.67}{A} \text{ cuft}$$

2. How many sacks is that?

$$\frac{62.67}{A} \text{ cuft} \div \frac{1.32}{\text{Cement Yield}} = 47.5 \text{ sxs}$$

ROUND UP TO THE NEXT HIGHEST 5 SACKS

3. Convert sacks back to cubic feet.

$$\frac{50}{B} \text{ sxs} \times \frac{1.32}{\text{Cement Yield}} = 66 \text{ cuft}$$

4. How many barrels of cement slurry?

$$\frac{66}{C} \text{ cuft} \times \frac{0.1781}{\text{Constant}} = 11.755 \text{ bbls cement to pump}$$

5. How much mix water will be needed?

$$\frac{50}{B} \text{ sxs} \times \frac{6.32}{\text{Mix H2O}} \times 42 \text{ gal/bbl} = 7.524 \text{ bbls}$$

6. What is the height of the cement inside outside of the workstring in feet?

a. Hole volume with workstring in hole.

$$\frac{.3750}{\text{cuft/ft}} + \frac{.0217}{\text{Ws cap.}} \times \frac{100}{\text{Plug Length in hole}} = 39.67 \text{ cuft}$$

b. Height of cement column from bottom of workstring

$$\frac{66}{C} \text{ cuft} - \frac{39.67}{\text{HV}} = 26.33 \text{ cuft}$$

$$\frac{.1903}{\text{cuft/ft}} + \frac{.0217}{\text{Ws cap.}} \times \frac{124.2}{\text{cuft/ft}} = 224.2 \text{ ft}$$

7. How many barrels of preflush and spacer will be used?

$$\frac{\text{PL preflush length}}{\text{ft}} \times \frac{\text{AV 2}}{\text{bbls/ft in annulus}} = \text{bbls}$$

$$\frac{\text{SL spacer length}}{\text{ft}} \times \frac{\text{Ws cap.2}}{\text{bbls/ft in workstring}} = \text{bbls}$$

8. How many barrels of displacement to balance the plug?

$$\frac{224.2}{D} \text{ ft} + \frac{\text{SL spacer length}}{\text{ft}} = 224.2 \text{ ft}$$

$$\frac{224.2}{\text{Pipe capacity}} \times \frac{D + \text{SL}}{\text{Ws cap.2}} = 1.1 \text{ bbls to displace}$$

9. What is the length of the cement with the workstring out of the plug?

c. Hole volume with workstring out of hole.

$$\frac{.4057}{\text{cuft/ft}} \times \frac{100}{\text{Plug Length in hole}} = 40.57 \text{ cuft}$$

d. Total plug length with workstring out of hole.

$$\frac{66}{C} \text{ cuft} - \frac{40.57}{Z} \text{ cuft} + \frac{2210}{\text{Pipe capacity}} \times \frac{115.06}{\text{cuft/ft}} + \frac{100}{\text{Plug Length in hole}} = 215.1 \text{ ft}$$

10. Where will top of cement be?

$$\frac{510}{\text{Plug Depth}} \text{ ft} - \frac{215}{E} \text{ ft} = 295 \text{ ft}$$

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385 TAG  
30 TAC

10-18-06

MAR 30 3 DODD FEB #11

## Balanced Plug Work Sheet for Single Diameter Plugs

Hole/Pipe Size	7	inches
Plug Length	150	feet
Plug Depth	2300	feet
Workstring	2.375	inches
Workstring Wt.		lbs/ft
Cmt. Type	C	Class
Cmt. Yield	1.32	cuft/sx
Mix H2O	6.32	gals/sx

6.366

Hole/Pipe Cap. .2210 cuft/ftAnnular Vol. .1902 cuft/ftWorkstring Capacity .0217 cuft/ftPreflush length  feet  
Spacer length  feet.0339 bbls/ftAV .0039 bbls/ft

Ws cap.2

1. How much cement is needed in cubic feet?

$$\frac{150}{\text{Plug Length}} \text{ ft plug} \times \frac{.2210}{\text{Hole/Pipe capacity}} = 33.15 \text{ cuft}$$

2. How many sacks is that?

$$\frac{33.15}{\text{A}} \text{ cuft} \div \frac{1.32}{\text{Cement Yield}} = 25.11 \text{ sxs}$$

ROUND UP TO THE NEXT HIGHEST 5 SACKS

3. Convert sacks back to cubic feet.

$$\frac{25}{\text{B}} \text{ sxs} \times \frac{1.32}{\text{Cement Yield}} = 33.15 \text{ cuft}$$

4. How many barrels of cement slurry?

$$\frac{33.15}{\text{C}} \text{ cuft} \times \frac{0.1781}{\text{Constant}} = 5.9 \text{ bbls cement to pump}$$

5. How much mix water will be needed?

$$\frac{25}{\text{B}} \text{ sxs} \times \frac{6.32}{\text{Mix H2O}} \text{ gals/sx} + 42 \text{ gal/bbl} = 3.76 \text{ bbls}$$

6. What is the height of the cement inside outside of the workstring in feet?

$$\frac{.1902}{\text{AV}} \text{ cuft/ft} + \frac{.0039}{\text{Ws cap.}} \text{ cuft/ft} = \frac{.1941}{\text{AV + Ws cap.}} \text{ cuft/ft}$$

$$\frac{33.15}{\text{C}} \text{ cuft} \div \frac{.1941}{\text{AV + Ws cap.}} = 170.78 \text{ ft}$$

7. How many barrels of preflush and spacer will be used?

$$\frac{\text{PL preflush length}}{\text{ft}} \times \frac{\text{bbls/ft in annulus}}{\text{AV 2}} = \text{bbls}$$

$$\frac{\text{SL spacer length}}{\text{ft}} \times \frac{\text{bbls/ft in workstring}}{\text{Ws cap.2}} = \text{bbls}$$

8. How many barrels of displacement to balance the plug?

$$\frac{170.78}{\text{D}} \text{ ft} + \frac{\text{SL spacer length}}{\text{D + SL}} \text{ ft} = \frac{170.78}{\text{D + SL}} \text{ ft}$$

$$\frac{2300}{\text{Plug Depth}} \text{ ft} \times \frac{.0039}{\text{Ws cap.2}} \text{ bbls/ft} = 8.3 \text{ bbls to disp}$$

9. What is the height of the cement with the workstring out of the plug?

$$\frac{33.15}{\text{C}} \text{ cuft} \div \frac{.2210}{\text{Hole/Pipe capacity}} \text{ cuft/ft} = 150 \text{ ft}$$

10. Where will top of cement be?

$$\frac{2300}{\text{Plug Depth}} \text{ ft} - \frac{150}{\text{E}} \text{ ft} = 2150 \text{ ft}$$

$$(6.366)^2 - (2.375)^2 \times .00545$$

$$40.526 - 5.6406$$

34.8854

.1902

$$40.525956 - 5.6406$$

.1902

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Accepted for record  
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