B SUNDRY	UNITED STATES EPARTMENT OF THE D UREAU OF LAND MANA NOTICES AND REPO	NTERIOR GEMENT	arlsbad ellsOCI) Artesi	Expires: Ja Sease Serial No. NMNM19848	O. 1004-0137 anuary 31, 2018
BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS OCD ATTE Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.			6.	6. If Indian, Allottee or Tribe Name		
SUBMIT IN	TRIPLICATE - Other inst	tructions or	n page 2	7.	If Unit or CA/Agre	ement, Name and/or No.
I. Type of Well ☐ Oil Well ☐ Gas Well ⊠ Oth	ner: INJECTION	· · · · · ·			Vell Name and No. AKESIDE 20702	SWD 1
2. Name of Operator Contact: MELANIE WILSON MESQUITE SWD INCORPORATED E-Mail: mjp1692@gmail.com					9. API Well No. 30-015-45146-00-X1	
			o. (include area code) 14-1461		10. Field and Pool or Exploratory Area SWD-DEVONIAN	
	' R M or Survey Description))			County or Parish	State
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T23S R29E 1750FNL 2640FEL 32.278263 N Lat, 104.006508 W Lon			• •		11. County or Parish, State EDDY COUNTY, NM	
12. CHECK THE AN	PROPRIATE BOX(ES)	TO INDICA	ATE NATURE O	F NOTICE, REI	PORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
X Notice of Intent			epen ·	Production (Start/Resume)	□ Water Shut-Off
_	□ Alter Casing	🗖 Hy	draulic Fracturing	Reclamation		Well Integrity
Subsequent Report	Casing Repair	🗌 Ne	w Construction 🛛 🗖 Recomplete			🛛 Other
Final Abandonment Notice	 Change Plans Convert to Injection 		g and Abandon g Back	Temporarily		Change to Original PD
Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi Mesquite SWD, Inc. requests	operations. If the operation res andonment Notices must be file nal inspection.	ults in a multip ed only after all	le completion or reco requirements, includ	mpletion in a new ir ing reclamation, hav	terval a Form 3160	1 must be filed once
		ig changes i		J.		
Well Control Approved: 10M BOP system Change to: Nipple up on 20" surface casin Nipple up on 13 3/8" casing with Nipple up on 9 5/8" casing with	th 3M BOP system	M annular ()	well control plan a	ttached)		eived 1 2 2019
Casing Approved: Liner - 7" 29# P110 Change to: Liner - 7 5/8" 39#) LTC set 10500'-14507'					
 I hereby certify that the foregoing is Com Name (Printed/Typed) MELANIE 	Electronic Submission #4 For MESQUITE S\ mitted to AFMSS for proce	60120 verifie WD INCORP(d by the BLM Well DRATED, sent to t SCILLA PEREZ on	Information Syst	em 21556SE)	
			THE RECOL	ATOICT ANALTS		
Signature (Electronic St	ubmission) THIS SPACE FO		Date 04/03/20	· · · · · · · · · · · · · · · · · · ·	<u></u>	
_Approved By_DYLAN_ROSSMANG	Q		TitlePETROLEU	JM ENGINEER		Date 04/04/20
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.		ot warrant or subject lease	Office Carlsbad		·······	
which would entitle the applicant to conduc						

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Pur	7-25-19
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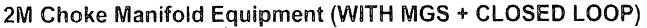
Additional data for EC transaction #460120 that would not fit on the form

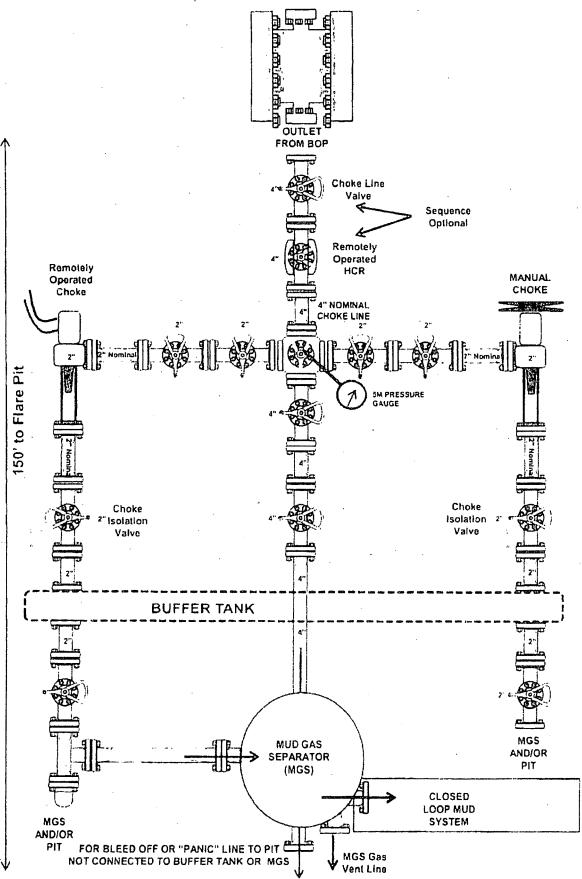
32. Additional remarks, continued

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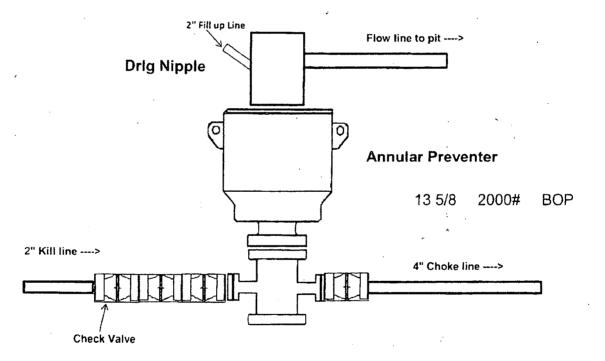
Note: We plan to run 53.5# L-80 LTC 9 5/8" 2nd intermediate casing as approved in drilling plan

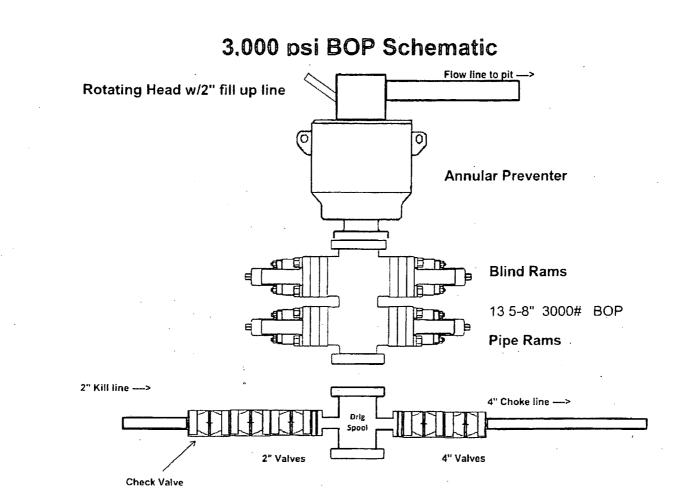
Open Hole Approved: 6" open hole to 16000' Change to: 6 1/2" open hole to 16000'



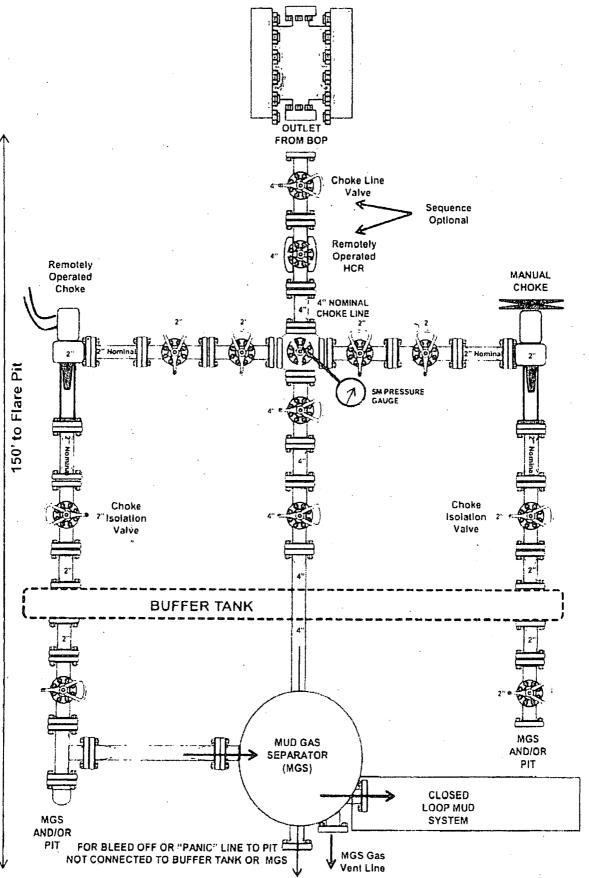


2,000 psi BOP Schematic





3M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)





U. S. Steel Tubular Products

7.625" 39.00lbs/ft (0.500" Wall) P110 HC USS-LIBERTY FJM[®]

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MECHANICAL PROPERTIES	Pipe	USS-LIBERTY FJM	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	140,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-LIBERTY FJM [®]	
Outside Diameter	7.625	7.625	in, .
Wall Thickness	0.500		in.
Inside Diameter	6.625	6.539	in:
Standard Drift	6.500	6.500	in.
Alternate Drift	·		in.
Nominal Linear Weight, T&C	39.00		lbs/ft
Plain End Weight	38.08		lbs/ft
SECTIONAREA	Pipe	USS-LIBERTY FJM®	
Critical Area	11,192	6.665	sq. in.
Joint Efficiency		59.5	%
PERFORMANCE	Pipe	USS-LIBERTY FJM®	
Minimum Collapse Pressure	12,180	12,180	psi
External Pressure Leak Resistance		12,180	psi
Minimum Internal Yield Pressure	12,640	12,640	psi
Minimum Pipe Body Yield Strength	1,231,000		lbs
Joint Strength		733,000	lbs
Compression Rating		733,000	lbs
Reference Length		12,843	ft
Maximum Uniaxial Bend Rating		39.4	deg/100 ft
MAKE UP DATA	Pipe	USS-LIBERTY FJM®	
Make-Up Loss		4.75	in. :
Minimum Make-Üp Torque		14,700	ft-lbs
Maximum Make-Up Torque		20,750	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).

2. Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.

4. USS-LIBERTY FJM™ connections are optimized for each combination of OD and wall thickness and cannot be interchanged.

5. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

6. Reference length is calculated by joint strength divided by nominal plain end weight with 1.5 safety factor.

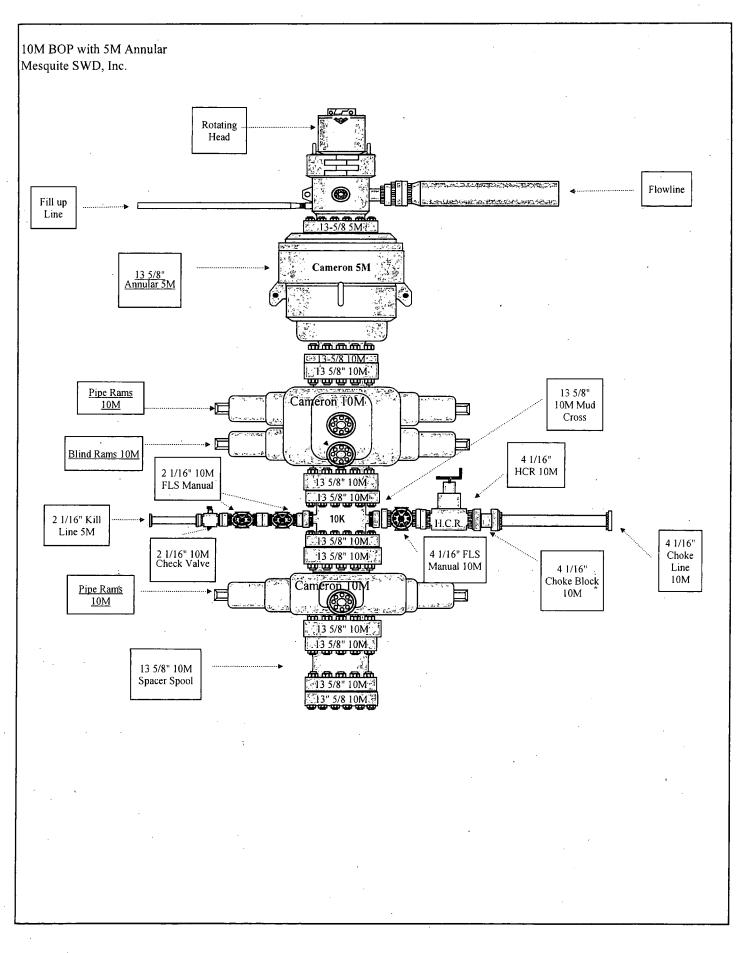
7. Connection external pressure leak resistance has been verified to 100% API pipe body collapse pressure following the guidelines of API 5C5 Cal III.

Legal Notice

USS-LIBERTY FJM® is a trademark of U.S. Steel Corporation. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U.S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

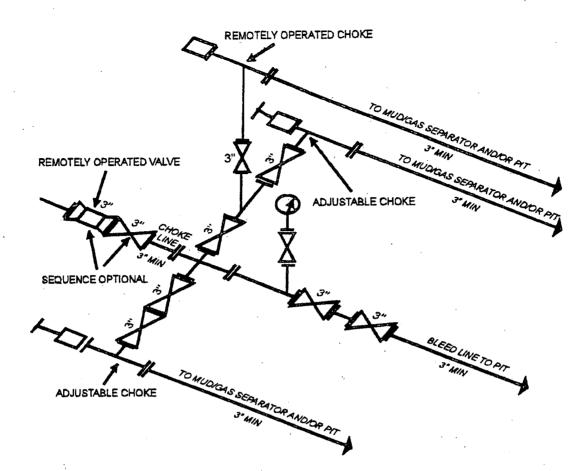
1-877-893-9461 connections@uss.com www.usstubular.com



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10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY [53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Mesquite SWD, Inc. Well Control Plan

A. Component and Preventer Compatibility Table

Component	OD.	Preventer	RWP
Drill Pipe	5"	Upper VBR: 4" - 7" Lower: 5" fixed	10M
Heavyweight Drill Pipe	5 <u>"</u>	Upper VBR: 4" - 7" Lower: 5" fixed	10M
Drill Collars & MWD Tools	6 1/2"	Upper VBR: 4" – 7"	10M
Mud Motor	6 1/2"	Upper VBR: 4" 7"	10M
Production Casing	5 1/2"	Upper VBR: 4" – 7"	10M
All	0 – 13 5/8"	Annular	5M
Open Hole		Brind Rams	10M

B. Well Control Procedures

I.

General Procedures While Drilling:

- a. Sound alarm alert crew
- b. Space out drill string
- c. Shut down pumps and stop rotary
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and Mesquite SWD, Inc. company representative
- i. Call Mesquite SWD, Inc. engineer
- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan

II. General Procedures While Tripping:

a. Sound alarm - alert crew

b. Stab full opening safety valve and close

- c. Space out drill string
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and Mesquite SWD, Inc. company representative
- i. Call Mesquite SWD, Inc. engineer
- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan

Mesquite SWD, Inc. Well Control Plan

III. General Procedures While Running Casing:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and Mesquite SWD, Inc. company representative
- i. Call Mesquite SWD, Inc. engineer
- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan

IV. <u>General Procedures With No Pipe in Hole (Open Hole)</u>:

- a. Sound alarm alert crew
- b. Open HCR
- c. Shut well in with blind rams
- d. Close choke
- e. Confirm shut in
- f. Notify rig manager and Mesquite SWD, Inc. company representative
- g. Call Mesquite SWD, Inc. engineer
- h. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- i. Regroup, identify forward plan
- V. <u>General Procedures While Pulling BHL Through BOP Stack</u>
 - 1. Prior to pulling last joint of drill pipe through stack
 - A. Perform flow check and if flowing:
 - a. Sound alarm alert crew
 - b. Stab full opening safety valve and close
 - c. Space out drill string with tool joint just beneath upper pipe ram
 - d. Open HCR
 - e. Shut well in utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut in
 - h. Notify rig manager and Mesquite SWD, Inc. company representative
 - i. Call Mesquite SWD, Inc. engineer
 - j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
 - k. Regroup, identify forward plan

Mesquite SWD, Inc. Well Control Plan

2.

With BHL in the BOP stack and compatible ram preventer and pipe combo immediately available.

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string with tool joint just beneath upper pipe ram

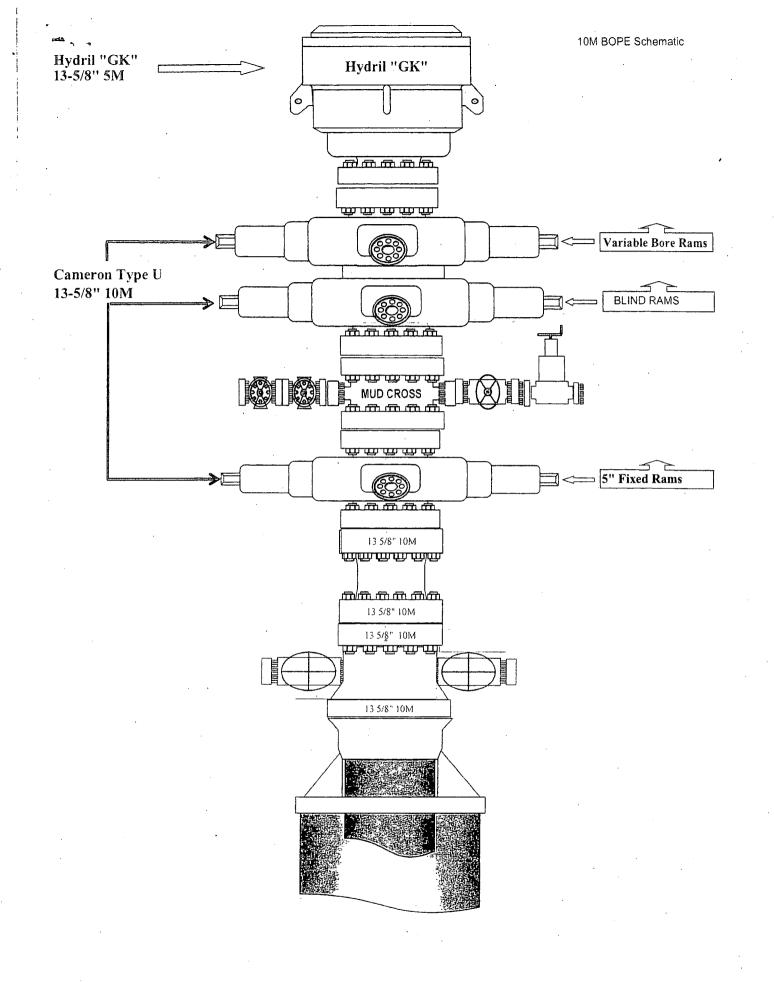
d. Open HCR

- e. Shut well in utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and Mesquite SWD, Inc. company representative
- i. Call Mesquite SWD, Inc. engineer
- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan

3. With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately available

- a. Sound alarm alert crew
- b. If possible to pick up high enough, pull string clear of the stack and follow Open Hole scenario (III)
- c. If impossible to pick up high enough to pull the string clear of the stack:
 - i. Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close
 - ii. Space out drill string with tool joint just beneath the upper pipe ram
 - iii. Open HCR
 - iv. Shut in utilizing upper VBRs
 - v. Close choke
 - vi. Confirm shut in
 - vii. Notify rig manager and Mesquite SWD, Inc. company representative
 - viii. Read and record:
 - 1. Shut in drill pipe pressure and shut in casing pressure
 - 2. Pit gain
 - 3. Time
- d. Regroup and identify forward plan

** If annular is used to shut in well and pressure build to or is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut in.



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PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL Change of APD Sundry EC#460120

OPERATOR'S NAME:	Mesquite SWD Incorporated
	NMNM19848
WELL NAME & NO.:	Lakeside 20702 SWD 1
SURFACE HOLE FOOTAGE:	1750' FNL & 2640' FEL
LOCATION:	Section 29, T. 23 S., R 29 E., NMPM
COUNTY:	Eddy County, New Mexico

H2S	C Yes	· No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	⊂ Low	• Medium	C High
Variance	(None	C Flex Hose	• Other
Wellhead	Conventional	• Multibowl	C Both
Other	☐4 String Area	Capitan Reef	└ WIPP
Other	Fluid Filled	Cement Squeeze	☐ Pilot Hole
Special Requirements	✓ Water Disposal	ГСОМ	└ Unit

A. CASING

1. The minimum required fill of cement behind the 7-5/8 inch production liner is

- a. Cement should tie-back at least 100 feet into previous casing string. **Operator** shall provide method of verification.
- 2. Note: Open hole size has been changed from 6" to 6.5" (14507' to 16000')

B. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-5/8 inch intermediate casing shoe shall be **3000 (3M)** psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to 100% of full working pressure (5000 psi).

All additional previous Conditions of Approval still apply. DR 4/3/2019