

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

HOBBS OCD
APR 06 2018
RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMNM118722
2. Name of Operator MESQUITE SWD, INC. Contact: MELANIE J WILSON E-Mail: mjp1692@gmail.com		6. If Indian, Allottee or Tribe Name
3a. Address PO BOX 1479 CARLSBAD, NM 88221	3b. Phone No. (include area code) Ph: 575-914-1461	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T26S R32E Mer NMP SWSW 290FSL 10FWL		8. Well Name and No. SALADO DRAW SWD 13 1
		9. API Well No. 30-025-42354
		10. Field and Pool or Exploratory Area SWD;DEVONIAN
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input 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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mesquite SWD, Inc. respectfully requests permission to enter the TAd well bore, set cement plug and whipstock, sidetrack at approximately 11530 ft with 8 1/2 inch bit, drill to approximately 17820 ft and run 7 5/8 inch liner. Drill 6 1/2 inch open hole to 19300 ft. Detailed drilling plan and proposed well bore diagram are attached.

*plug lengthened.
10m tested to 10,000 psi!*

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #407575 verified by the BLM Well Information System
For MESQUITE SWD, INC., sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/16/2018 ()**

Name (Printed/Typed)	MELANIE J WILSON	Title	REGULATORY ANALYST
Signature	(Electronic Submission)	Date	03/13/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date	APR 4 2018
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	BUREAU OF LAND MANAGEMENT CARLSBAD FIELD 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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Mesquite SWD, Inc.
 Salado Draw SWD 13 #1
 API #30-025-42354
 290' FSL & 10' FWL
 Section 13, T26S, R32E
 Lea County, New Mexico

Proposed Drilling Program

Attached to BLM Form 3160-5, Sundry Notice requesting permission to enter the above described temporarily abandoned well bore.

1. Geologic Formation

TVD of Target	19300'	Pilot hole depth	N/A
MD at TD	19300'	Deepest expected fresh water	N/A

Formation	TVD	Water/Mineral Bearing/Target Zone	Hazards
Rustler	700'	Water	
Lamar	4710'	Oil/Gas	
Bell Canyon	4745'	Oil/Gas	
Cherry Canyon	5735'	Oil/Gas	
Bone Spring	7285'	Oil/Gas	
Wolfcamp	11375'	Oil/Gas	
Morrow	14650'	Oil/Gas	
Barnett Shale	15440'	Oil/Gas	
Mississippian	15840'	Oil/Gas	
Woodford	17405'	Oil/Gas	
Silurian	17730'	Target	
TD	19300'		

2. Casing Program

see well bore diagram

Hole Size	Casing Interval		Casing Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Body
	From	To							
20"	0	735 747	16"	75	J55	BTC	Existing	Existing	Existing
14.75"	0	455 4547	13.375"	68	J55	W513	Existing	Existing	Existing
12.25"	0	12198	9.625"	53.5	P110	BTC	Existing	Existing	Existing
8.5"	11130	17820	7.625"	39	P110	FJM	1.23	1.18	3.4
6.5"	17820	19300	Open	Hole					

11765' (215' plug needed)

Propose to set cement plug 11550-11660'. Set whipstock and sidetrack at 11530'. Drill 8.5" hole to top of Devonian and run 7.625" flush joint liner. Drill 6.5" open hole disposal interval to approximately 19300'.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes, attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	Sks	Wt lb/gal	Yld ft ³ /sk	H ₂ O gal/sk	Slurry Description	TOC	% Excess
Surface	840	Existing				Surface/Circ	
1st Intermediate	1100	Existing				Surface/Circ	
2nd Intermediate	1920	Existing				Surface/Circ	
Production	300	Existing				11609'/CBL	
Production	390	13	1.465	7.46	Neocem w/ 0.5% Gas Stop	11130'/CBL	30

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP Installed and tested before drilling which hole?	Size	Min. Required WP	Type	X	Tested to:
8 1/2"	13-5/8"	10M	Annular	x	5000 psi
			Blind Ram		10M
			Pipe Ram		
			Double Ram		
			Other:		

10,000 psi

BOP/BOPE will be tested by an independent service company to 260 psi low and the high pressure indicated above per Onshore Order 2 Requirements. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. N Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
11530'	17820'	Weighted polymer	12.0 – 13.5	38 - 45	8 - 10
17820'	19300'	Fresh water	8.4 – 9.0	28	NC

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging and Testing Procedures	
Y	Will run GR/CNL from TD to KOP Stated logs run will be in the Completion Report and submitted to the BLM
Y	No logs are planned based on well control or offset log information
N	Drill stem test? If yes, explain
N	Coring? If yes, explain

Additional logs planned		
N	Resistivity	
N	Density	
Y	CBL	7 5/8" Production liner
Y	Mud log	Sidetrack to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure	8214 PSI at 19130' TVD
Abnormal Temperature	No Anticipated BHT 270°

8. Other Facets of Operation

Attachments	
X	H2S Plan
X	BOP & Choke Diagrams
X	Directional Plan
X	Request for Flex Hose Variance

Current
WELLBORE DIAGRAM

Created	<u>8/19/2015</u>	By	<u>PTB</u>	Well No	<u>1</u>	Field	<u>SWD Devonian, Silunan</u>
Updated	<u>1/11/2017</u>	By	<u>PTB</u>	Unit Ltr	<u>M</u>	Sec	<u>13 TSHP/Range 26S / 32E</u>
Lease	<u>Salado Draw SWD 13</u>	St	<u>NM</u>	St Lease		API	<u>30-025-42354</u>
Surface Location	<u>290' FSL & 10' FWL</u>	St	<u>NM</u>	Elevation	<u>3171'</u>	Cost Center	
County	<u>Lea</u>	St	<u>NM</u>			CHEVNO	<u>PD6336</u>
Current Status	<u>TA'd</u>						

Surface Csg
 Size 16"
 Wt 75#, J-55
 Set @ 737'
 Sxs cmt 840
 Circ yes, 106 bbl
 TOC surface
 Hole Size 20"

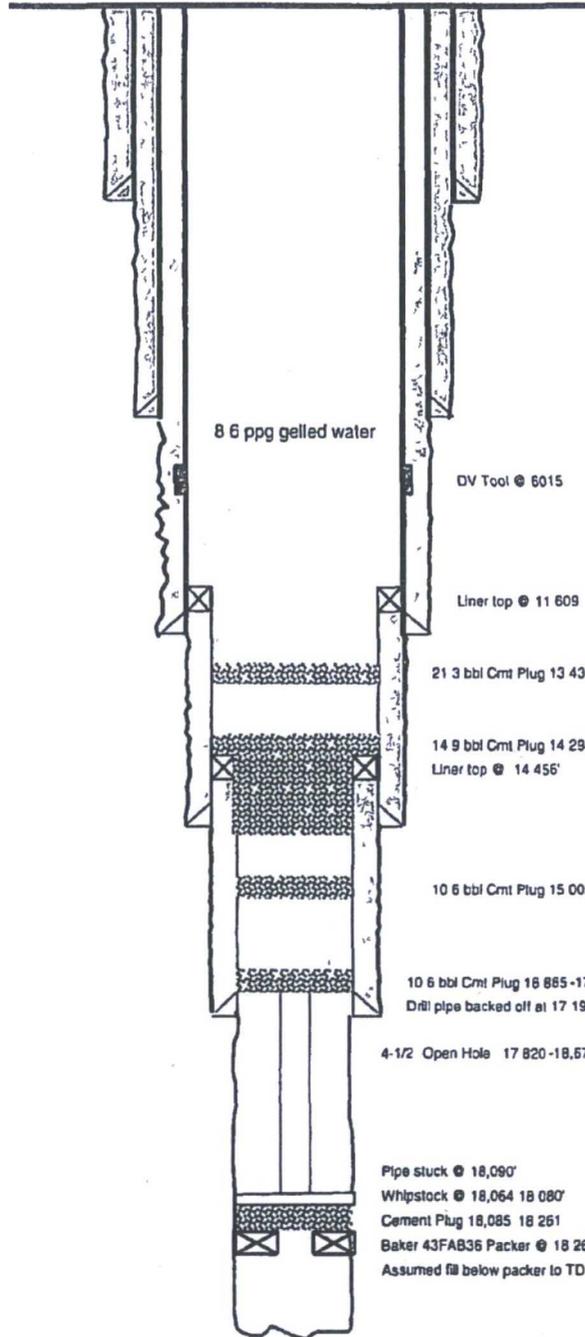
1st Intermediate Csg
 Size 13-3/8"
 Wt 68#, J-55
 Set @ 4,555'
 Sxs Cmt 1100
 Circ yes, 71 bbls
 TOC surface
 Hole Size 14-3/4"

2nd Intermediate Csg
 Size 9-5/8"
 Wt 53.5#, P-110
 Set @ 12,188'
 Sxs Cmt 1,920
 TOC
 Hole Size 12-1/4"

Production Liner No 1
 Size 7-5/8"
 Wt 39#, P-110
 TOL 11,609'
 BOL 14,678'
 Sxs Cmt 300
 Hole Size 8-1/2"

Production Liner No 2
 Size 5-1/2"
 Wt 23#, P-110
 TOL 14,456'
 BOL 17,820'
 Sxs Cmt 286
 Hole Size 6-1/2"

KB _____
 DF _____
 GL 3171'
 Spud Date 2/20/2015
 Compl Date 8/23/2015



8.6 ppg gelled water

DV Tool @ 6015

Liner top @ 11 609

21.3 bbl Cmt Plug 13 430' 14 004'

14.9 bbl Cmt Plug 14 294' 14 730'

Liner top @ 14 456'

10.6 bbl Cmt Plug 15 005' 15 505'

10.6 bbl Cmt Plug 16 865' 17 192'

Drill pipe backed off at 17 192'

4-1/2" Open Hole 17 820' - 18,675'

Pipe stuck @ 18,090'

Whipstock @ 18,064' 18 080'

Cement Plug 18,085' 18 261'

Baker 43FAB36 Packer @ 18 261'

Assumed fill below packer to TD

MESQUITE SWD INC.

WELL NAME:

Salado Draw SWD 13-1

API:

SURFACE LOCATION:

FOOTAGE:

COUNTY:

STATE:

3002542354

SEC 13, T26S - R32E

290' FSL & 10' FWL, UNIT M

LEA

NM

PROPOSED WELL DIAGRAM

Surface Csg

Size: 16"
 WT: 75#, J-55
 Set @: 737'
 Sxs cmt: 840
 Circ: Yes, 106 bbl
 TOC: Surf
 Hole Size: 20"

Intermediate Csg

Size: 13-3/8"
 WT: 68#, J-55
 Set @: 4,555'
 Sxs cmt: 1100
 Circ: Yes, 71 bbl
 TOC: Surf
 Hole Size: 14-3/4"

Intermediate-2 Csg

Size: 9-5/8"
 WT: 53.5#, P-110
 Set @: 12,188'
 Sxs cmt: 1,920
 Circ:
 Hole Size: 12-1/4"

Re-Entry Side - Track

Size: 7-5/8"
 WT: 39# LTC
 Set @: 11,450
 Sxs cmt:
 Circ:
 Hole Size: 8-1/2"

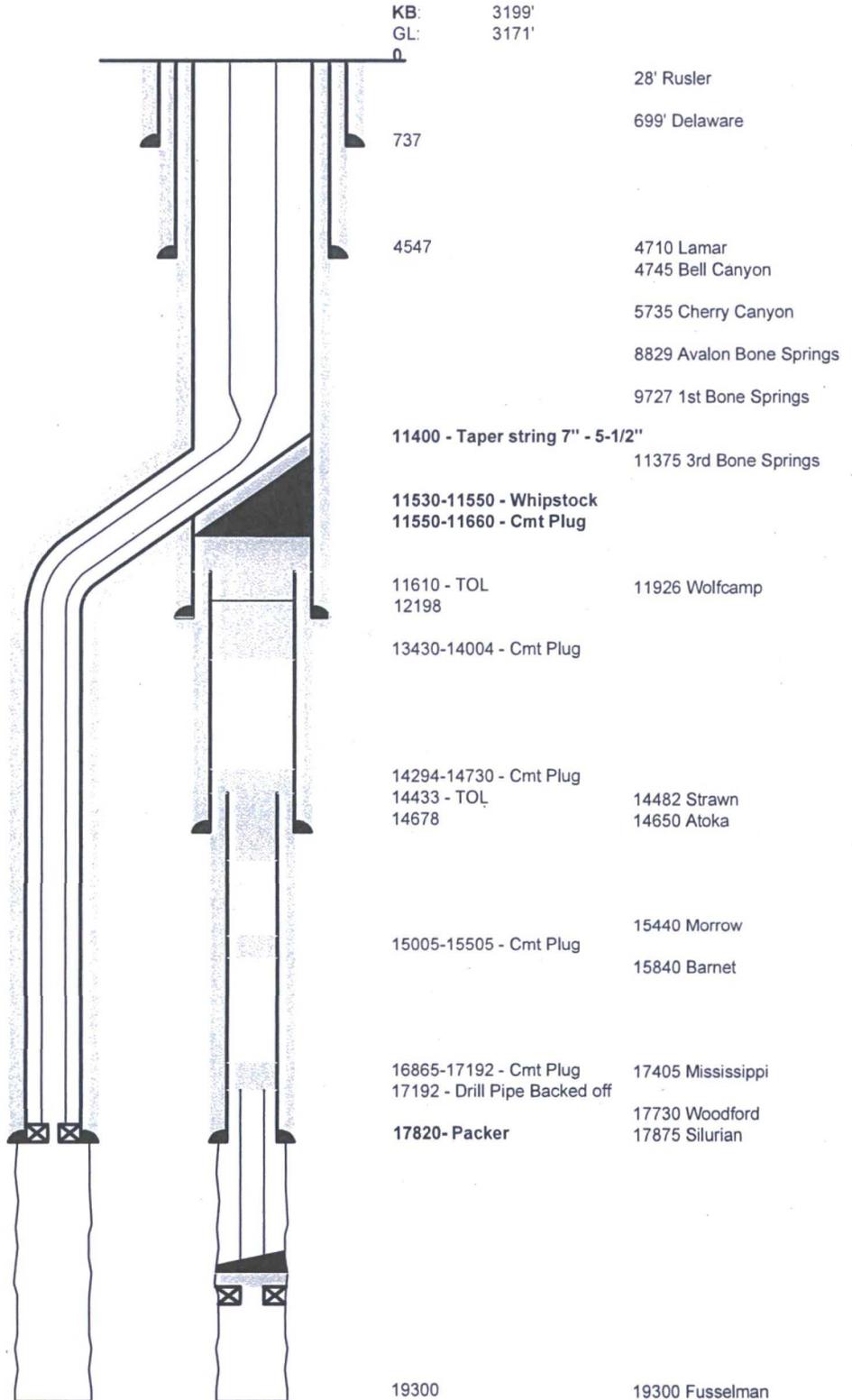
Liner

Size: 7-5/8"
 WT: 39# P-110
 TOL: 11,450'
 BOL: 17,820'
 Sxs cmt:
 Circ: Yes
 Hole Size: 8-1/2"

Open Hole

Interval: 17,820-19300'
 Hole Size: 6-1/2"

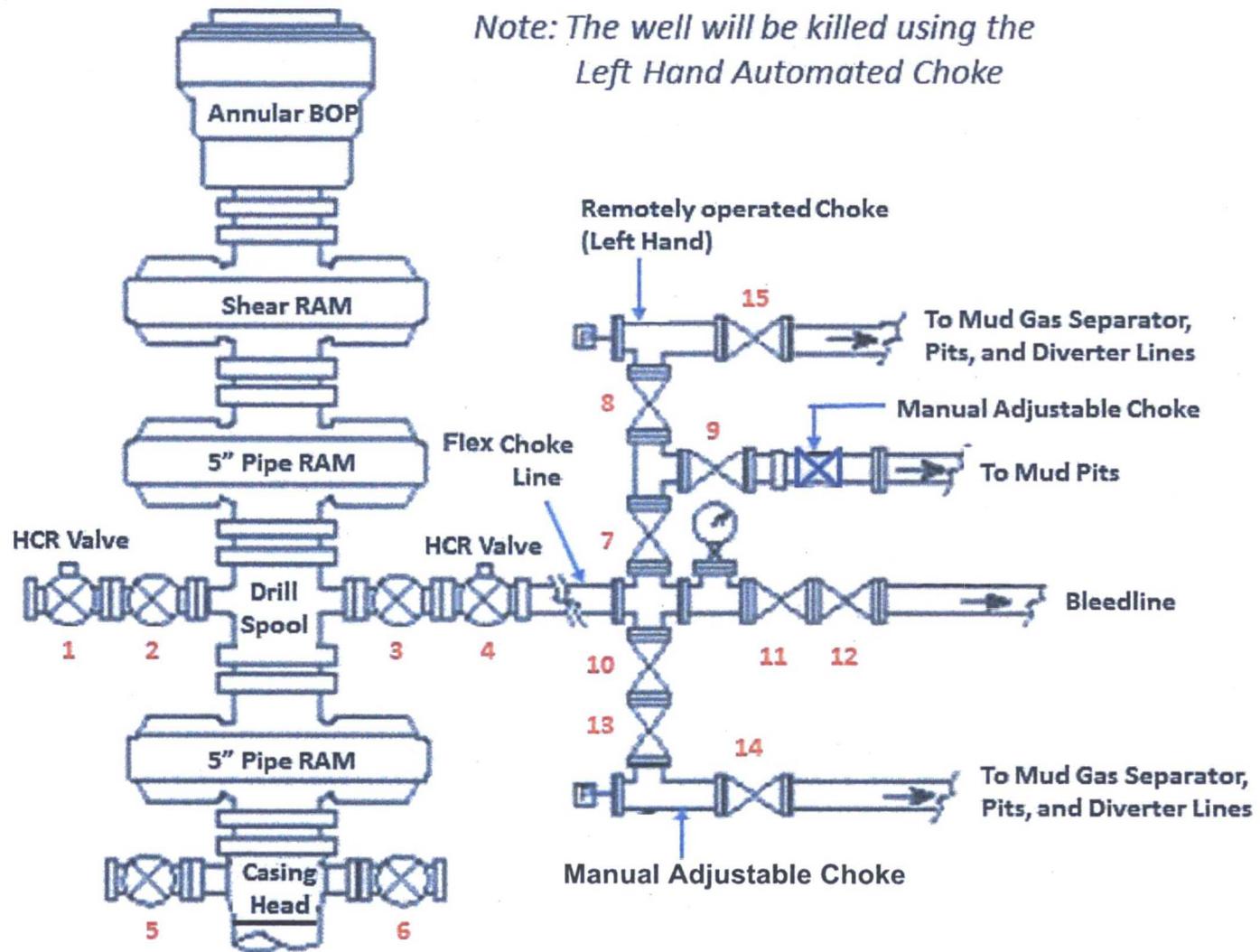
Tubing requirements: 7" 26 # P-110
 Taper string to 5-1/2"
 5-1/2" to 17,820'
 Lok- Set or equivalent approx 17,820'



KB: 3199'
 GL: 3171'

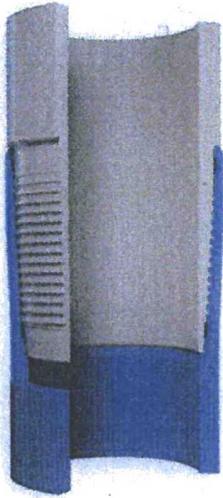
28' Rusler
 699' Delaware
 4710 Lamar
 4745 Bell Canyon
 5735 Cherry Canyon
 8829 Avalon Bone Springs
 9727 1st Bone Springs
 11375 3rd Bone Springs
 11926 Wolfcamp
 14482 Strawn
 14650 Atoka
 15440 Morrow
 15840 Barnet
 17405 Mississippi
 17730 Woodford
 17875 Silurian
 19300 Fusselman

10M BOP/BOPE/Choke Diagram



Note: The well will be killed using the Left Hand Automated Choke

P = Positive Closing Choke



SEAL-LOCK SF

7.625" 39.00 LB/FT (.500" Wall)

USS P110 HC

Pipe Body Data

Nominal OD:	7.625	in
Nominal Wall:	.500	in
Nominal Weight:	39.00	lb/ft
Plain End Weight:	38.08	lb/ft
Material Grade:	USS P110 HC	
Mill/Specification:	USS	
Yield Strength:	110,000	psi
Tensile Strength:	140,000	psi
Nominal ID:	6.625	in
API Drift Diameter:	6.500	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	1,231,000	lbf
Burst:	12,640	psi
Collapse:	12,180	psi

Connection Data

Standard OD:	7.844	in
Pin Bored ID:	6.575	in
Critical Section Area:	8.396	in ²
Tensile Efficiency:	75.0 %	
Compressive Efficiency:	52.4 %	
Longitudinal Yield Strength:	924,000	lbf
Compressive Limit:	646,000	lbf
Internal Pressure Rating:	12,640	psi
External Pressure Rating:	12,180	psi
Maximum Bend:	34.6	°/100ft

Operational Data

Min Shoulder Torque:	1,300	ft*lbf
Max Shoulder Torque:	4,400	ft*lbf
Minimum Makeup Torque:	11,900	ft*lbf
Optimum Makeup Torque:	12,900	ft*lbf
Maximum Makeup Torque:	13,900	ft*lbf
Minimum Yield:	21,300	ft*lbf
Makeup Loss:	5.21	in

Notes



Mesquite SWD

Lea County, NM (NAD 83)

Sec 13-T26S-R32E

Salado Draw SWD #13-1

Wellbore #1

Plan: Plan #1

Standard Planning Report

28 February, 2018

Planning Report

Database:	EDM 5000.1	Local Co-ordinate Reference:	Site Sec 13-T26S-R32E
Company:	Mesquite SWD	TVD Reference:	KB=28 @ 3199.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	KB=28 @ 3199.0usft
Site:	Sec 13-T26S-R32E	North Reference:	Grid
Well:	Salado Draw SWD #13-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 13-T26S-R32E		
Site Position:	Map	Northing:	377,688.00 usft
From:		Easting:	757,118.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 11.156 N
		Longitude:	103° 38' 13.101 W
		Grid Convergence:	0.37 °

Well	Salado Draw SWD #13-1				
Well Position	+N-S	0.0 usft	Northing:	377,688.00 usft	
	+E-W	0.0 usft	Easting:	757,118.00 usft	
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,171.0 usft
		Latitude:	32° 2' 11.156 N		
		Longitude:	103° 38' 13.101 W		

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/28/2018	6.80	59.70	47,829

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	90.00

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	
8,913.4	0.00	0.00	8,913.4	0.0	0.0	0.00	0.00	0.00	0.00	
9,163.4	5.00	90.00	9,163.1	0.0	10.9	2.00	2.00	0.00	90.00	
11,208.4	5.00	90.00	11,200.3	0.0	189.1	0.00	0.00	0.00	0.00	
11,458.4	0.00	0.00	11,450.0	0.0	200.0	2.00	-2.00	0.00	180.00	
19,300.0	0.00	0.00	19,291.6	0.0	200.0	0.00	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.1	Local Co-ordinate Reference:	Site Sec 13-T26S-R32E
Company:	Mesquite SWD	TVD Reference:	KB=28 @ 3199.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	KB=28 @ 3199.0usft
Site:	Sec 13-T26S-R32E	North Reference:	Grid
Well:	Salado Draw SWD #13-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
8,913.4	0.00	0.00	8,913.4	0.0	0.0	0.0	0.00	0.00	0.00	0.00
Nudge 2°/100'										
9,163.4	5.00	90.00	9,163.1	0.0	10.9	10.9	2.00	2.00	0.00	
EON HLD 5° Inc.										
11,208.4	5.00	90.00	11,200.3	0.0	189.1	189.1	0.00	0.00	0.00	
DROP 2°/100'										
11,458.4	0.00	0.00	11,450.0	0.0	200.0	200.0	2.00	-2.00	0.00	
EOD HLD 0° Inc.										
19,300.0	0.00	0.00	19,291.6	0.0	200.0	200.0	0.00	0.00	0.00	
TD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Salado Draw SWD #13- - hit/miss target - Shape	0.00	0.00	0.0	0.0	0.0	377,688.00	757,118.00	32° 2' 11.156 N	103° 38' 13.101 W	
TD Salado Draw SWD # - plan hits target center - Point	0.00	0.00	19,291.6	0.0	200.0	377,688.00	757,318.00	32° 2' 11.143 N	103° 38' 10.777 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
8,913.4	8,913.4	0.0	0.0	Nudge 2°/100'	
9,163.4	9,163.1	0.0	10.9	EON HLD 5° Inc.	
11,208.4	11,200.3	0.0	189.1	DROP 2°/100'	
11,458.4	11,450.0	0.0	200.0	EOD HLD 0° Inc.	
19,300.0	19,291.6	0.0	200.0	TD	

Salado Draw SWD 13 1
30-025-42354
Mesquite SWD, Inc.
April 4, 2018
Conditions of Approval

Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.

Work to be completed by July 4, 2018.

1. Operator shall tag cement at 14,004'. If cement does not tag at that depth, contact the BLM prior to continuing.
2. Operator shall set a balanced Class H plug from 11,765'-11,550' to seal top of liner. WOC and TAG. Operator is approved to set whipstock as proposed.
3. Operator approved to run 7.625" casing. Cement calculates to 10%, more cement may be required. Must conduct a casing integrity test prior to continuing on, submit results to BLM. Open hole from 17,820'-19,300'.
4. Surface disturbance beyond the originally approved pad must have prior approval.
5. Closed loop system required.
6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
7. Operator to have H2S monitoring equipment on location.
8. A minimum of a **10000 (10M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (10M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
9. **Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**

10. See attached for general requirements.

JAM 040418

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

General Requirements for Plug Backs

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. **Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.