Form 3160-3 (March 2012) UNITED STATES DEPARTMENT OF THE IN			OMB	APPROVED No. 1004-0137 October 31, 2014
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D			6. If Indian, Allotee	or Tribe Name
la. Type of work: DRILL REENTER	λ		7. If Unit or CA Agree	eement, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multi	ple Zone	8. Lease Name and	Well No. <b>[319733</b>
2. Name of Operator	[161968]		9. API Well No. 30-025-44	106
3a. Address 3	b. Phone No. (include area code)		10. Field and Pool, or	
<ul> <li>4. Location of Well (<i>Report location clearly and in accordance with any</i> At surface At proposed prod. zone</li> </ul>	State requirements.*)		11. Sec., T. R. M. or E	Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office* OCD – HOBBS			12. County or Parish	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17. Spacin	g Unit dedicated to this	well
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth	20. BLM/F	BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	ırt*	23. Estimated duration	n
I	24. Attachments			
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No.1, must be a	ttached to thi	s form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office).</li> </ol>	ands, the 5. Operator certific	cation		existing bond on file (see s may be required by the
25. Signature	Name (Printed/Typed)			Date
Title				
Approved by (Signature)	Name (Printed/Typed)			Date
Title	Office			
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those righ	nts in the sub	ject lease which would e	entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crin States any false, fictitious or fraudulent statements or representations as to	me for any person knowingly and any matter within its jurisdiction.	willfully to m	ake to any department of	or agency of the United

(Continued on page 2)	SWD-1681	
	nnRA	<b>JED WITH CONDITIONS</b>
	APPRO	

\*(Instructions on page 2)

Kz 10/11/2017



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT **Operator Certification Data Report** 10/10/2017

#### **Operator Certification**

### 30-025-44106

I hereby certify that I, or someone under my direct supervision, have inspected the 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. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. OCD – HOBBS

10/11/2017 RECEIVED

State: NM

NAME: Melanie Wilson

Title: Regulatory Analyst

Street Address: 106 W. Riverside Drive

City: Calsbad

Phone: (575)914-1461

Email address: mjp1692@gmail.com

#### **Field Representative**

Representative Name: Riley Neatherlin Street Address: PO Box 1479 City: Carlsbad State: NM Phone: (575)702-7288

Email address: rgneatherlin@gmail.com

Signed on: 06/20/2017

Zip: 88220

Zip: 88220

# **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Application Data Report

10/10/2017

#### **APD ID:** 10400015188

Operator Name: MESQUITE SWD INCORPORATED

Well Name: DEEP PURPLE SWD

Well Type: INJECTION - DISPOSAL

Submission Date: 06/20/2017

Well Number: 1 Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

## 30-025-44106

ection 1 - General	
10400015188 Tie to previous NOS?	Submission Date: 06/20/2017
CARLSBAD User: Melanie Wilson	Title: Regulatory Analyst
n APD: FED Is the first lease penetrated fo	r production Federal or Indian? FED
r: NMNM106915 Lease Acres: 339.84	
ss agreement in place? Allotted? Res	servation:
place? NO Federal or Indian agreement:	OCD - HOBBS
umber:	10/11/2017
ame:	RECLIVES
tion confidential? NO	
gent? NO APD Operator: MESQUITE SW	/D INCORPORATED
er of designation:	
n APD: FEDIs the first lease penetrated for Lease Acres: 339.84ss agreement in place?Allotted?Resa place? NOFederal or Indian agreement: umber: ame: tion confidential? NOAPD Operator: MESQUITE SW	er production Federal or Indian? FED servation: OCD – HOBBS 10/11/2017 RECEIVED

#### **Operator Info**

Operator Organization Name: MESQUITE SWD INCORPORATED Operator Address: 602 S Canyon Street Operator PO Box: PO Box 1479 Operator City: Carlsbad State: NM Operator Phone: (575)887-0980 Operator Internet Address: mjp1692@gmail.com

#### **Section 2 - Well Information**

Well in Master Development Plan? NO	Mater Development Plan name	:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: DEEP PURPLE SWD	Well Number: 1	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: SWD	Pool Name: DEVONIAN

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

#### Well Number: 1

Desc	ribe c	other I	miner	als:														
Is the	e prop	osed	well i	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	<b>d?</b> NO	Ne	ew s	surface o	listurl	bance	?
Туре	of W	ell Pa	d: SIN	IGLE	WELL				Multij	ple Well P	ad Nar	ne:	Νι	umb	per:			
Well	Class	: VER	RTICA	L					Numb	per of Leg	s:							
Well	Work	Туре	: Drill															
Well	Туре:	INJE	CTIO	N - DIS	SPOS	AL												
Desc	ribe V	Vell T	ype:															
Well	sub-T	ype:	INJEC	TION	- DIS	POSA	\L											
Desc	ribe s	ub-ty	pe:															
Dista	ince t	o tow	<b>n:</b> 39	Miles			Dist	tance to	nearest v	<b>vell:</b> 2100	FT	Dist	ance t	o le	ase line	: 1310	FT	
Rese	rvoir	well s	pacin	ig ass	ignec	acre	s Mea	asuremo	ent: 0 Acre	es								
Well	plat:	De	ep_P	urple_	SWD_	_1_C1	02_2	0171004	4155003.p	df								
Well	work	start	Date:	10/15	/2017				Durat	t <b>ion:</b> 45 DA	AYS							
	Sec	tion	3 - V	Vell	Loca	ation	Tab	ole										
Surv	еу Тур	be: RE	ECTA	NGUL	AR													
Desc	ribe S	Survey	/ Туре	<b>:</b> :														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88						
Surv	ey nui	mber:																
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	270	FSL	380	FWL		32E	30	Lot 4	32.35593 2	- 103.7217	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 106915	354 4	0	0
BHL Leg #1	270	FSL	380	FWL	22S	32E	30	Lot 4	32.35593 2	- 103.7217	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 106915	- 145 91		181 35

# **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400015188 30-025-44106

Submission Date: 06/20/2017

**Operator Name: MESQUITE SWD INCORPORATED** 

Well Name: DEEP PURPLE SWD

Well Type: INJECTION - DISPOSAL

Well Number: 1

Well Work Type: Drill

Highlighted data

reflects the most recent changes

> Producing Formation

> > No

NATURAL GAS.OIL

NATURAL GAS,OIL

NATURAL GAS,OIL

NONE

10/10/2017

: Drill OCD - HOBBS<u>Show Final Text</u> 10/11/2017

Drilling Plan Data Report

RECEIVED

**Section 1 - Geologic Formations** 

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	
1	UNKNOWN	3544	Ö	0		NONE	
2	RUSTLER	2734	850	850		NONE	
3	SALADO	2404	1180	1180		NONE	
4	TOP SALT	1199	2385	2385		NONE	
5	BASE OF SALT	-736	4320	4320		NONE	
6	LAMAR	-1004	4588	4588		NATURAL GAS,OIL	
7	BONE SPRING	-4916	8500	8500		NATURAL GAS,OIL	
8	WOLFCAMP	-7581	11165	11165		NATURAL GAS,OIL	

-9716

-10516

-12316

-13351

#### Section 2 - Blowout Prevention

**STRAWN** 

MORROW

**MISSISSIPPIAN** 

DEVONIAN

Pressure Rating (PSI): 10M

9

10

11

12

Rating Depth: 19000

13300

14100

15900

16935

13300

14100

15900

16935

**Equipment:** A 10M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams and a blind ram. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3" line, and kill side will be a minimum 2" line). Kill line will be installed with (2) valves and a check valve (2" min) of proper pressure rating for the system. Remote kill line (2' min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3" min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.

Well Name: DEEP PURPLE SWD

Well Number: 1

#### Requesting Variance? YES

Variance request: Flex hose variance

**Testing Procedure:** BOP and BOPE shall be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe, unless otherwise stated by APD. The Annular shall be functionally operated at least weekly, and, pipe and blind rams shall be activated each trip. • The surface (20") BOP/BOPE pressure test will be made to hold 250 psi low, and 2000 psi high, • The first intermediate (13 3/8") BOP/BOPE pressure tests will be made to hold 250 psi low, and 5000 psi high, before drilling out the 1st intermediate shoe. • The second intermediate (9 5/8") BOP/BOPE pressure tests will be made to hold 250 psi low, and 5000 psi high, before drilling out the 1st intermediate shoe. • The second intermediate shoe.

#### **Choke Diagram Attachment:**

Deep\_Purple\_SWD\_1\_Flex\_Hose\_Data\_06-17-2017.pdf

#### **BOP Diagram Attachment:**

Deep\_Purple\_SWD\_1\_10M\_BOP\_06-17-2017.pdf

Deep\_Purple\_SWD\_1\_2M\_3M\_BOP\_06-17-2017.pdf

#### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	26	20.0	NEW	API	N	0	850	0	850			850	K-55	133	BUTT	4.3	1.42	DRY	19.9 5	DRY	19.9 7
	INTERMED IATE	17.5	13.375	NEW	API	N	0	4510	0	4510			4510	HCP -110	68	BUTT	1.32	1.24	DRY	7.23	DRY	7.44
-	PRODUCTI ON	12.2 5	9.625	NEW	API	N	0	11650	0	11650			11650	P- 110	53.5	BUTT	1.28	1.18	DRY	3.29	DRY	3.4
4	LINER	8.5	7.625	NEW	API	N	11415	16935	11415	16935			1	OTH ER	39	FJ	1.23	1.27	BUOY	4.01	BUOY	5.35

#### **Casing Attachments**

Well Number: 1

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Deep\_Purple\_SWD\_1\_Casing\_Program\_06-19-2017.pdf

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Deep\_Purple\_SWD\_1\_Casing\_Program\_06-19-2017.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Deep\_Purple\_SWD\_1\_Casing\_Program\_06-19-2017.pdf

#### **Casing Attachments**

Casing ID: 4 String Type:LINER

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

Deep\_Purple\_SWD\_1\_Casing\_Program\_06-19-2017.pdf

#### Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	850	1125	1.91	12.9	2149	100	Class C	35/65 Poz/C + 5% (BWOW) PF44 Salt + 6% PF20 Bentonite + 3 pps PF42 Kol-Seal + .4 pps PF45 Defoamer + .125 pps PF29 Cellophane
SURFACE	Tail		0	850	200	1.34	14.8	268	100	Class C	2% PF1 Calcium
INTERMEDIATE	Lead		0	4510	2115	1.91	12.9	4040	50	Class C	35/65 Poz/C + 5% (BWOW) PF44 Salt + 6% PF20 Bentonite + .3% PF13 Retarder + 3 pps PF42 Kol-Seal + .4 pps PF45 Defoamer + .125 pps PF29 Cellophane
INTERMEDIATE	Tail		0	4510	200	1.33	14.8	266	50	Class C	.3% PF13 Retarder
PRODUCTION	Lead		0	1165 0	1650	2.47	11.9	4076	30	Class H	50/50 Poz/H + 5% (BWOW) PF44 Salt + 10% PF20 Bentonite + .4% PF153 Antisettleing Agent + .2% PF813 Retarder + 3 pps PF42 Kol-Seal + .4 pps PF45

#### Well Name: DEEP PURPLE SWD

#### Well Number: 1

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											Defoamer
PRODUCTION	Tail		0	1165 0	400	1.19	15.6	476	30	Class H	.3% PF13 Retarder + .3% PF606 Fluid Loss + .4 pps PF45 Defoamer
LINER	Lead		1141 5	1693 5	380	1.33	14.2	505	30	Class H	50/50 Poz/H + 3% PF44 (BWOW) (Salt) + 2% PF20 Bentonite + 1.2% PF606 Fluid Loss + .3% PF65 Dispersant + .14% PF813 Retarder + .1% PF153 Antisettling Agent + .4 pps PF45 Defoamer

#### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	850	SPUD MUD	8.4	9							

Well Name: DEEP PURPLE SWD

#### Well Number: 1

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
850	4510	SALT SATURATED	9.8	10.2							
4510	1165 0	SALT SATURATED	9	9.4							
1165 0	1693 5	SALT SATURATED	12	13.5							
1693 5	1813 5	OTHER : FRESH WATER	8.4	8.6							

#### Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: None planned

List of open and cased hole logs run in the well:

CBL,CNL,DIL,EL,FDC,GR,MUDLOG

Coring operation description for the well:

None planned

#### **Section 7 - Pressure**

**Anticipated Bottom Hole Pressure: 8424** 

Anticipated Surface Pressure: 4434.3

Anticipated Bottom Hole Temperature(F): 270

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Deep\_Purple\_SWD\_1\_H2S\_Plan\_06-17-2017.pdf Deep\_Purple\_SWD\_1\_H2S\_Plan\_Rig\_Layout\_06-19-2017.pdf

Well Name: DEEP PURPLE SWD

#### Well Number: 1

### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Mesquite SWD, Inc. Deep Purple SWD #1 Flex Hose Data

		st Hose	
E)	& Speci	alty, Inc.	
Inte	rnal Hvdrosta	tic Test Certificate	
General Infor		Hose Specifi	cations
Customer	PRECISION DRILLING	Hose Assembly Type	Choke & Kill
WWH Sales Representative	TYLER HILL	Certification	API 7K
Date Assembled	8/19/2014	Hose Grade	MUD
ocation Assembled	ОКС	Hose Working Pressure	10000
Sales Order #	268122	Hose Lot # and Date Code	7448-07/11
Customer Purchase Order #	245230	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	268122-2	Hose O.D. (Inches)	5.36"
Hose Assembly Length	36'	Armor (yes/no)	YES
	Fitt	ings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	MM141420	Stem (Heat #)	MM141420
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	J0965	Ferrule (Heat #)	J0965
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Used	5.37"	Dies Used	5.45
	Hydrostatic Tes	t Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
Test Pressure Hold Time (minutes	15 1/2	temperatu	ire.
Date Tested 8/19/2014	Testeo	1ByA	pproved By

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Pick

Pick Ticket #: 268122

 Hose Specifications
 Verification

 Hose Type
 Length
 Type of Fitting
 Coupling Method

 Ck
 36'
 41/16 10K
 Swage

 LD
 0.D
 Die Size
 Einal 0.D

 3"
 4.79"
 5.37"
 5.36"

 Working Pressure
 Burst Pressure
 Hose Serial #
 Hose Assembly Serial #

 1000 PSI
 Standard Safety Multiplier Applies
 7448
 268122-2

Pressure Test 14000 14000 PSI 8000 400					
Pressure Test 14000 12000 1	Peak Pressure 15556 PSI	Actual Burst Pressure	<u>Time Held at Test Pressure</u> 15 2/4 Minutes	Test Pressure 15000 PSI	
Pressure Test 1900 14000 100000 100000 10000 10000 10000 10000 10000 10000		linutes	Time in N		
Pressure Test			4 40 40 40 40 40 40 40 40 40 40 40 40 40	NA MAESS	
Pressure Test	ىرىدى ھەر يەر يەر يەر يەر يەر يەر يەر يەر يەر ي	ક્રમ મહેત્વે મેળે સૌને તે તે તે તે તે છે. આ ગામ છે	وليشتخط والمساطرة وأراقيا وأخرافه والمساطرة والمحاطرة والمحاطرة والمحاطرة والمحاطرة والمحاطرة والمحاطرة والمحاطرة والمحاطرة		
Pressure Test	n e de commença e con e de decimiente en contra en en managémente de contra de contra de contra de contra de c			2000	-
Pressure Test				4000	
Pressure Test				6000	-
Pressure Test				8000 BOOM	
Pressure Test				10000 ·	
Pressure Test				12000	
	and the second			14000	
	etranice of exemption of the participation of the state of the			16000	
	on Constant of a constitue survivous and shift as in the or Constant of a survivous survivous and the survivous s	e Test	Pressur	18000	

3 191

Comments: Hose assembly pressure tested with water at ambient temperature.

ł

Approved By: Ryon Adams

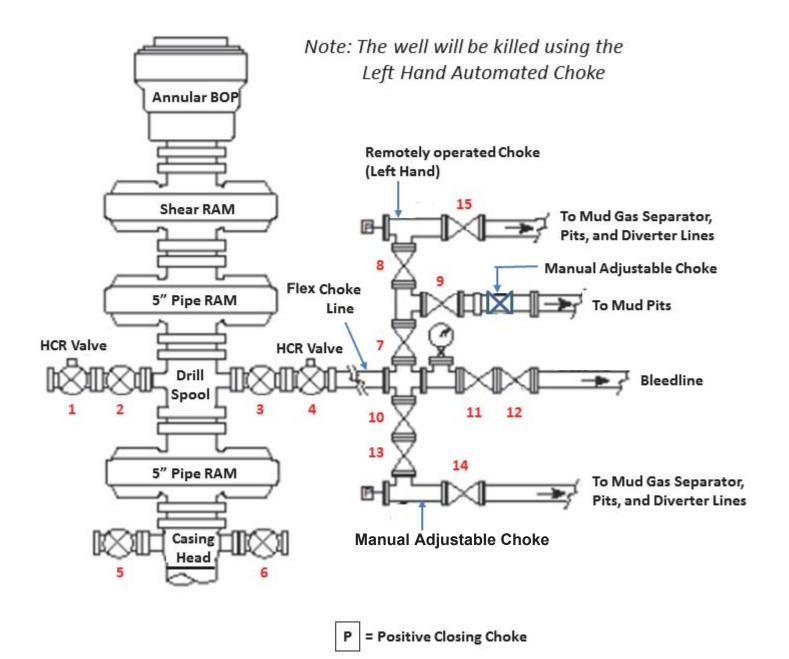
Tested By: Charles Ash

Internal Mile Customer: Precision Drilling

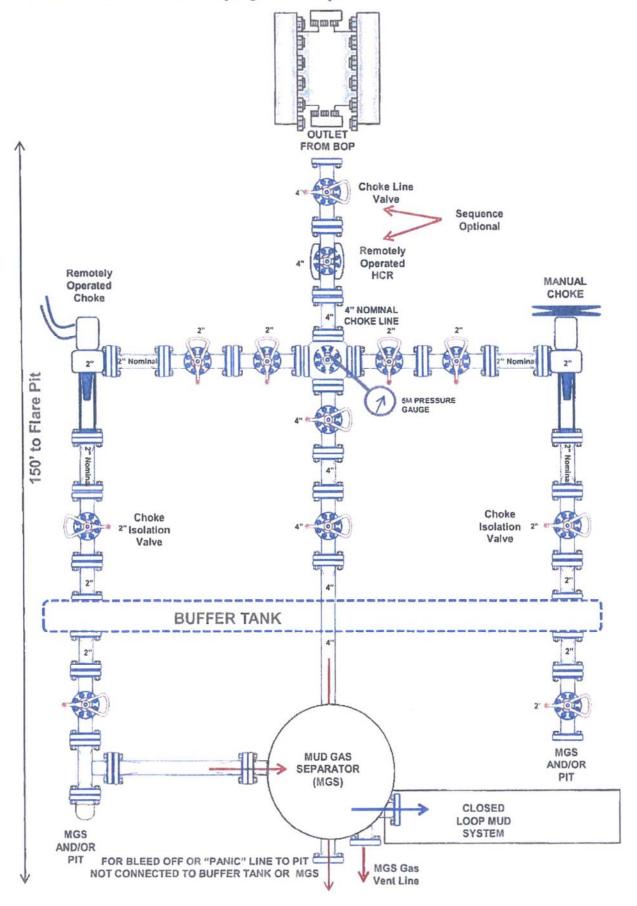
August 19, 2014

	. N		
		W.	
		est Hose ialty, Inc.	
		of Conformity	
Customer: PRECISIO	N DRILLING	Customer P.O.# 245230	
Sales Order # 268122		Date Assembled: 8/19/2014	
	Specifi	cations	
Hose Assembly Type:	Choke & Kill		
Assembly Serial #	268122-2	Hose Lot # and Date Code	7448-07/11
Hose Working Pressure (p	si) <b>10000</b>	Test Pressure (psi)	15000
		1	
		r the referenced purchase order	to be true according
o the requirements of the p	ourchase order and curren	t industry standards.	
Supplier:			
Aidwest Hose & Specialty, 1312 S I-35 Service Rd	Inc.		
Oklahoma City, OK 73129			
Comments:			
Approved By		Date	
Fran Alaus		8/20/2014	

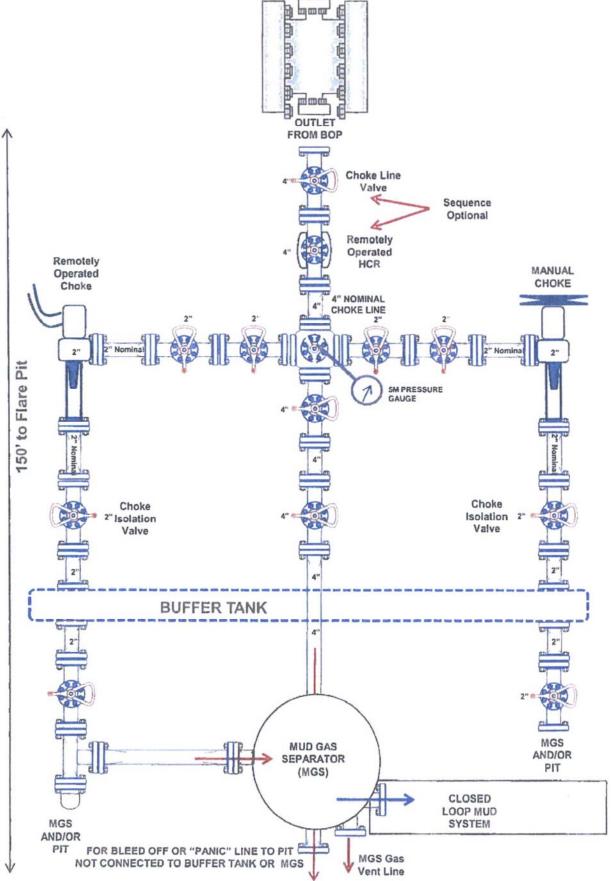
# 10M BOP/BOPE/Choke Diagram



2M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



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



# 2,000 psi BOP Schematic

