# District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

#### District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 **District IV** 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

# **State of New Mexico**

Form C-101 Revised July 18, 2013

# **Energy Minerals and Natural Resources**

**Oil Conservation Division** 

☐AMENDED REPORT

1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

		Ρ.(	Poperator Name  Ray Westall O  D. Box 4, Loco	oera ting	, Inc.					OGRID Nur 11930! API Numb 30-015-21!	ber er	
4. Proper					<sup>3</sup> Property N <b>DHY State E</b>						Well No.	
					7. Surface Lo				•			
UL - Lot	Section	Township	_	Lot	Idn Feet fro		/S Line	Feet Fro	m	E/W Line	County	
L	11	19 S	28 E	• т	198		South	990'		West	Eddy	
UL - Lot	Section	Township	Range		Proposed Botton  Idn Feet from		/S Line	Feet Fro	om	E/W Line	County	
				Į	9. Pool Inform	nation						
				S	Pool Name  WD; Cisco-Canyor	1					Pool Code <b>96186</b>	
				A	dditional Well I	nformation	1					
<sup>11.</sup> Work	Type		<sup>12.</sup> Well Type		13. Cable/Re					<sup>15.</sup> Ground Level Elevation <b>3477'</b>		
*		17. Proposed Depth	•					<sup>20.</sup> Spud Date <b>9/15/2021</b>				
			nearest fresh water ~ 0.75 n	r well Distance			istance to 1	ce to nearest surface water  n/a				
X We will be	using a c	closed-loo	p system in lieu (	of lined p	oits			•				
		1	21	Propo	sed Casing and	Cement Pr	ogram	ı				
Туре	Hole	e Size	Casing Size	Ca	sing Weight/ft	Settin	g Depth	Sa	cks of Cer	nent	Estimated TOC	
Surface	7.	.5"	13.375"		48.0#	4:	15'		400 'C'		Circ. to Surf.	
Intermediate	11	.0"	8.625"	2	4.0/28.0#	28	:00'		1121 'C'	C' Circ. to Surf.		
Production *	7.8	75"	5.5"	1	7.0/20.0#	13349' / P	BTD 10000'	700 'H'		Calc to Circ.		
					ent Program: A		Comments					
*Drill out plu	gs to app	orx. 10,05	50' (Set CIBP @ 1	.0,030' v	v/ 30' cement cap	).)						
			22	Propo	sed Blowout Pro	evention Pr	ogram					
	Type			Working	Pressure		Test Pressur	re		1	Manufacturer	
Hydraulic or I	Vlan./ Db	ol. Blind R	am	3000	psi		5000 psi			Shaffer/ I	Hydril or equivalent	
<sup>23.</sup> I hereby cer best of my kno			tion given above is	true and	complete to the		OIL C	ONSE	RVATIO	ON DIVI	SION	
	fy that I l	nave comp	olied with 19.15.14	.9 (A) NI	MAC and/or	Approved B						

Title:

Approved Date:

Conditions of Approval Attached

Expiration Date:

Agent for Ray Westall Operating, Inc.

ben@sosconsulting.us

Phone:

903-488-9850

Signature:

E-mail Address:

Date:

Printed name: Ben Stone

8/20/2021

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n/a

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

X AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <sup>2</sup> Pool Code 30-015-21971 96186				<sup>3</sup> Pool Name SWD; Cisco-Canyon							
<sup>4</sup> Property (	Code				<sup>5</sup> Property 1	roperty Name				<sup>6</sup> Well Number	
TBD					DHY Sta	State B			1		
7 OGRID	No.	8 O				Name			<sup>9</sup> Elevation		
11930	Ray Westall Operating, Inc. 347					3477'					
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	East/West line County		
L	11	19S	28E		1980'	FSL	990'	FWL Eddy		Eddy	
	<sup>11</sup> Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	n the North/South line Feet from the East/West line Cou		County			
same											
12 Dedicated Acres	<sup>2</sup> Dedicated Acres   <sup>13</sup> Joint or Infill   <sup>14</sup> Consolidation Code   <sup>15</sup> Order No.										

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SWD pending

16		
10		<sup>17</sup> OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is true and complete
		to the best of my knowledge and belief, and that this organization either
		owns a working interest or unleased mineral interest in the land including
		the proposed bottom hole location or has a right to drill this well at this
		location pursuant to a contract with an owner of such a mineral or working
		interest, or to a voluntary pooling agreement or a compulsory pooling
		order heretofore entered by the division.
		8/09/2021
		Signature Date
		Ben Stone
		Printed Name
		ben@sosconsulting.us
		E-mail Address
		<sup>18</sup> SURVEYOR CERTIFICATION
9994		I hereby certify that the well location shown on this
990'		plat was plotted from field notes of actual surveys
<b>←</b>		made by me or under my supervision, and that the
		same is true and correct to the best of my belief.
		same is true and correct to the best of my bettef.
		November 9, 1976
		Date of Survey
1980'		Signature and Seal of Professional Surveyor:
		Herschel L. Jones
		3640 Certificate Number
<b>↓</b>		

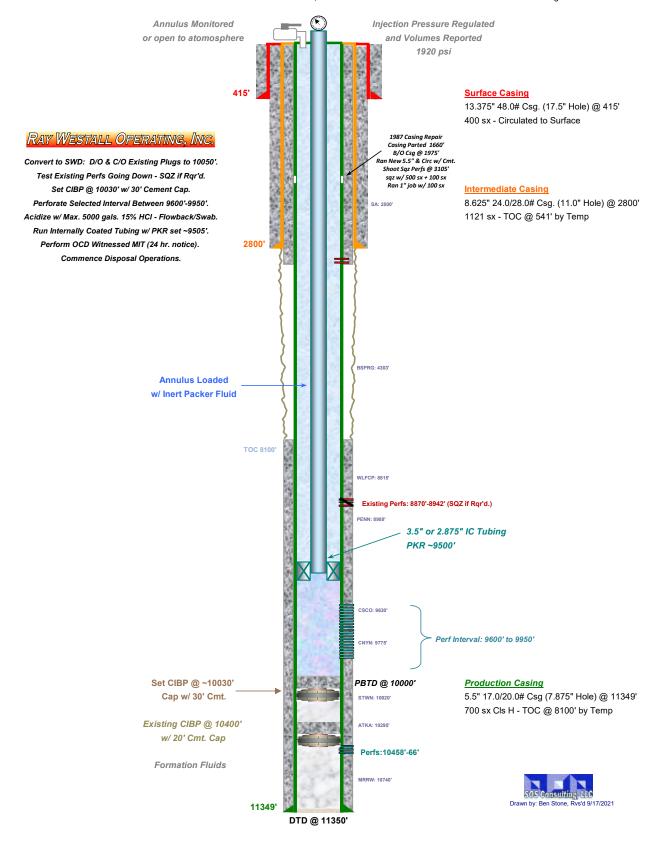


# **WELL SCHEMATIC - PROPOSED**

# DHY State 'B' Well No.1 SWD API 30-015-21971

1980' FSL & 990' FWL, SEC. 11-T19S-R28E EDDY COUNTY, NEW MEXICO

P&A Date: 3/22/2007 SWD Config Date: ~10/15/2021



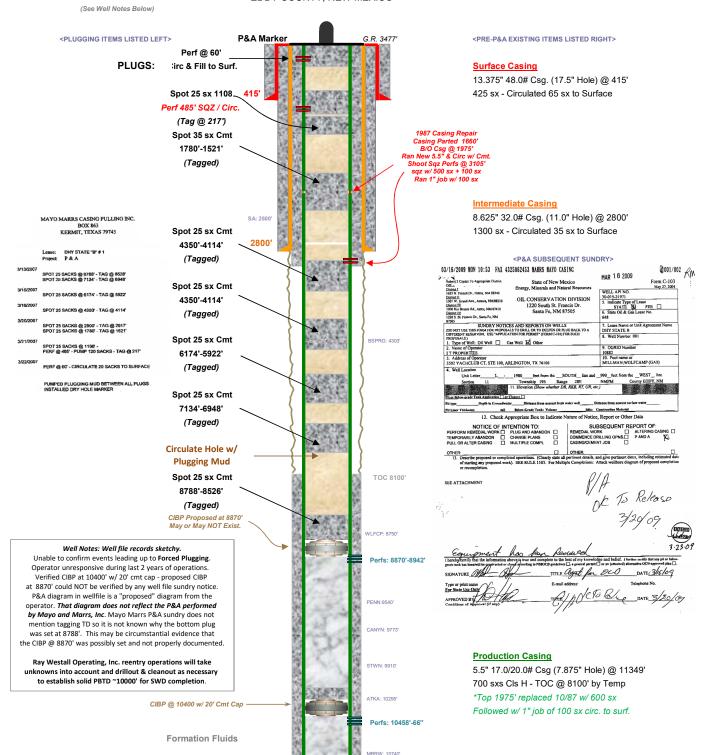
#### **CURRENT CONFIGURATION**

# PLUGGED WELL SCHEMATIC DHY State 'B' Well No.1

# Well Plugged by: Mayo Marrs, Inc.

#### API 30-015-21971

1980' FSL & 990' FWL, SEC. 11-T19S-R28E EDDY COUNTY, NEW MEXICO Spud Date: 2/07/1977 P&A Date: 3/22/2007



11349'

DTD @ 11350'

Ray Westall Operating, Inc. DHY B State SWD #I API No. 30-015-21971 1980' FSL & 990' FWL Sec. II, Twp 19S, Rng 28 E Eddy County, New Mexico

# **Well Re-entry Program**

Objective: Re-enter the existing wellbore by drilling out plugs, squeeze old perfs, circulate clean, set CIBP w/ cement cap to new PBTD of 10000', perforate, acidize and run new tubulars to configure for salt water disposal.

I. **Geologic Information** - The Cisco Formation (Upper Penn) is a gray micritic (fine grained) fossiliferous limestone with vugular porosity. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up.

The [Pennsylvanian] Canyon formation consists of similarly medium-grained carbonates, primarily dolomite and porous and permeable sandstone interbedded with shale and is generally 150 to 200 feet in thickness.

The combined zones offer good porosity in the proposed injection interval located from 9600 feet to 9950 feet with some very good porosity interspersed throughout the overall interval.

The Cisco is overlain by the Wolfcamp and the Canyon is underlain by the Strawn and Atoka.

Fresh water in the area is generally available from the Santa Rosa formation (Capitan Basin). Based on State Engineer's records for a water well in Section 11, Twp 19S, Rng 28E, groundwater is at a depth to water of 265 feet.

# **Formation Tops**

San Andres	2500
Bone Spring	4303
Wolfcamp	8815
Penn	8988
Canyon	9540
Strawn	10020
Atoka	10297

# 2. Reentry Prep and Procedure

- a) Excavate around the cutoff casing at the surface and constructing cellar.
- b) Expose surface casing or conductor by cutting back exterior casing stubs and removing cement between them, as required.
- c) Extend the surface casing to the surface or to the platform wellhead deck.
- d) Install new wellhead with the as sized (grade/ weight) and bradenhead valves.
- e) Test wellhead and casing extension with pressure sufficient to assure that the reconstructed well segment can contain expected surface pressures.
- f) Nipple up and test BOP.

# 3. Completion Procedure

- a) MIRU WSU, reverse unit and associated equipment. (Refer to NGMP info.)
- b) Install B.O.P. RIH with bit and collars to drill out plugs.
- c) D/O & C/O plugs to apprx. 10,030'. Spot 30 ft cmt on CIBP to 1000' PBTD.
- d) Squeeze existing permt 8870' to 8942' as needed.
- e) Perf interval at selected porosity between 9600' to 9950'.
- f) Acidize w/ ~2500 gals HCl per 1000'. Swab and/or circulate hole clean.
- g) RIH with nickel plated 5.5" or equiv. VFE retrievable packer or equivalent on 2.875" or 3.5" IPC or equiv. tubing w/ PKR @ 9500'+, pump clean fresh water containing corrosion inhibitor, biocide and oxygen scavenger down annulus, set packer. Prepare to run MIT test and notify OCD to witness 24 hours in advance.
- h) Build injection facility and start water disposal. Per SWD-1582; limit injection pressure to 1920 psi.
- 3. **Tubular program** The well casing is set as described above. (See attached Proposed Well Schematic) 2-7/8" (3.5" optionally) internally coated tubing will be run and set in a packer located at approximately 9500' (within 100' of the uppermost injection perfs).
- 4. **Cementing Program** Existing Surface and Intermediate casing strings were all circulated to surface during the <u>original well drilling and completion</u> operations as follows:

Surface	13.375"	48.0#	17.5" hole	415'	400 sx 'C'	Circ to Surf
Intermediate	8.625"	24.0/28.0#	I I.0" hole	2800'	1121 sx 'C'	Circ to Surf
Production 5.5" 17.0/20.0# 7.875" hole 11349' 700 sx 'H' Calc. to Circ.						
Set CIBP @ 10030' - Spot 30 ft cement for estimated 10000' PBTD						

- 5. **Pressure Control** BOP diagram is attached to this application. All BOP and related equipment shall comply with well control requirements as described NMOCD rules and regulations. Minimum working pressure of the BOP and related equipment required for the drillout shall be 3000 psi. OCD will be notified a minimum of 4 hours prior to BOP pressure tests. The test shall be performed by an independent service company utilizing a test plug (no cup or J-packer). The results of the test shall be recorded on a calibrated test chart submitted to the OCD Artesia district office. The BOP test(s) will be conducted at:
  - a) Installation;
  - b) after equipment or configuration changes;
  - c) at 30 days from any previous test, and;
  - d) anytime operations warrant, such as well conditions
- 6. **Mud Circulation System** the plugs will be drilled with 8.4 lb/gal fresh water looped through the reverse unit with all cutting recovered for disposal. Visual inspection will be made by personnel while reverse unit is in operation so cement plug cuttings and potential losses are witnessed and acted upon.
- 7. Auxiliary Well Control and Monitoring Not Applicable
- 8.  $H_2S$  Safety There is a low risk of H2S in this area. The operator will comply with the provisions of company  $H_2S$  contingency plan as applicable. All personnel will wear monitoring devices and a wind direction sock will be placed on location.

- 9. **Logging, Coring and Testing** Ray Westall Operating is not anticipating running additional logs. No corings or drill tests will be conducted. (The well may potentially be step rate tested in the future if additional injection pressures are required.)
- 10. **Potential Hazards** No abnormal pressures or temperatures are expected. No loss of circulation is expected to occur. All personnel will be familiar with the safe operation of the equipment being used to drillout and reenter this well. The maximum anticipated bottom hole pressure is 4500 psi and the maximum anticipated bottom hole temperature is 130° F.
- 11. **Waste Management** All drill cuttings and other wastes associated with the re-entry and drill out operations will be transported to a commercial surface waste disposal facility permitted by the Environmental Bureau of the New Mexico Oil Conservation Division.
- 12. **Anticipated Start Date** Ready now MIRU 8/22/2021. Completion of the well operations will take two to three weeks. Installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval.

In any event, it is not expected for the construction phase of the project to last more than 30 days, depending on availability of contractors and equipment. At the time of this submittal, the anticipated start date is:

# August 23, 2021.

13. Configure for Salt Water Disposal – SWD Permit No. SWD-1582 (extended expiration date September 23, 2022). Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the following tasks: drillout and workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity. Anticipated daily volume is ~5,000 bpd at a maximum surface injection pressure of 1920 psi.

Ray Westall Operating, Inc. DHY B State SWD #I API No. 30-015-21971 1980' FSL & 990' FWL Sec. II, Twp 19S, Rng 28 E Eddy County, New Mexico

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- 7. Auxiliary Well Control and Monitoring Not Applicable
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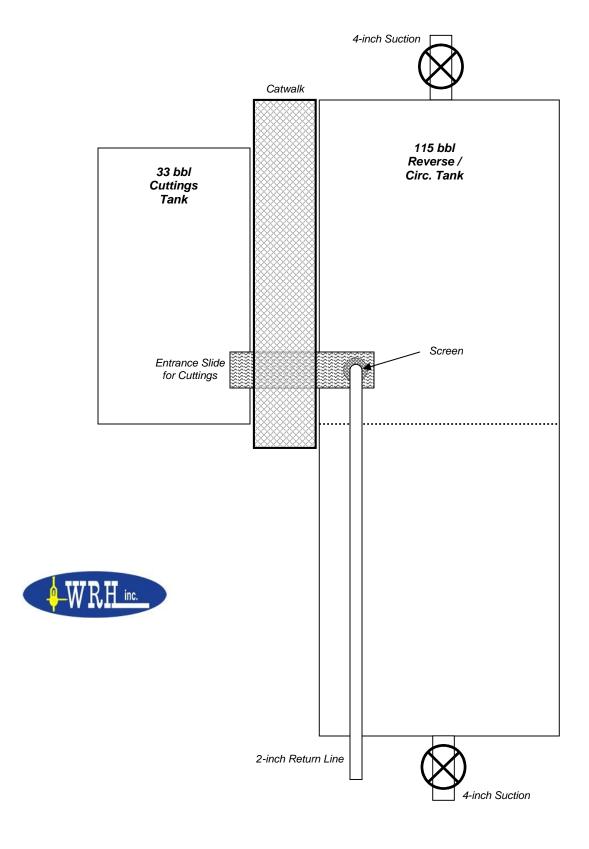
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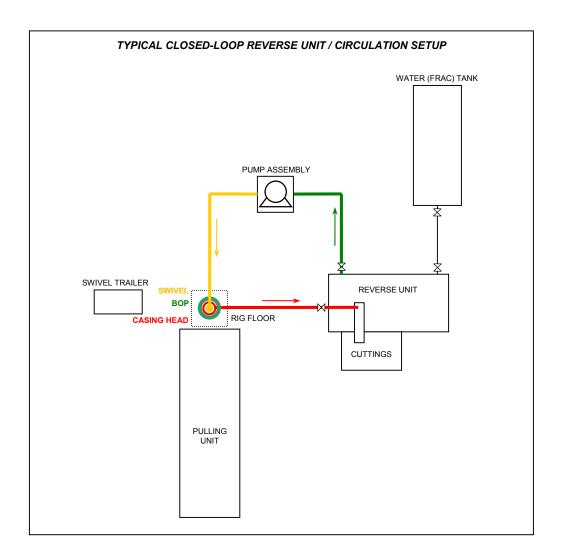
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# Reverse / Circulation Tank for Workovers & Drillouts



# Standard Operating Procedure - Re-entry Closed-Loop Reverse Unit Diagram

- 1. Blow Out Preventer tested prior to any operations. Notify OCD at least 4 hours prior.
- 2. Visual monitoring maintained on returns. Proceed with drillout operations accordingly.
- 3. Cuttings / waste hauled to specified facility. CRI LEA COUNTY
- 4. Spills contained & cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify OCD within 24 hours. Remediation started ASAP if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.
- 5. Subsequent sundry / forms filed as needed well returned to service.



Ray Westall Operating, Inc. DHY B State SWD #I API No. 30-015-21971 1980' FSL & 990' FWL Sec. II, Twp 19S, Rng 28 E Eddy County, New Mexico

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- b) Install B.O.P. RIH with bit and collars to drill out plugs.
- c) D/O & C/O plugs to apprx. 10,030'. Spot 30 ft cmt on CIBP to 1000' PBTD.
- d) Squeeze existing permt 8870' to 8942' as needed.
- e) Perf interval at selected porosity between 9600' to 9950'.
- f) Acidize w/ ~2500 gals HCl per 1000'. Swab and/or circulate hole clean.
- g) RIH with nickel plated 5.5" or equiv. VFE retrievable packer or equivalent on 2.875" or 3.5" IPC or equiv. tubing w/ PKR @ 9500'+, pump clean fresh water containing corrosion inhibitor, biocide and oxygen scavenger down annulus, set packer. Prepare to run MIT test and notify OCD to witness 24 hours in advance.
- h) Build injection facility and start water disposal. Per SWD-1582; limit injection pressure to 1920 psi.
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Production 5.5" 17.0/20.0# 7.875" hole 11349' 700 sx 'H' Calc. to Circ.						
Set CIBP @ 10030' - Spot 30 ft cement for estimated 10000' PBTD						

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- 9. **Logging, Coring and Testing** Ray Westall Operating is not anticipating running additional logs. No corings or drill tests will be conducted. (The well may potentially be step rate tested in the future if additional injection pressures are required.)
- 10. **Potential Hazards** No abnormal pressures or temperatures are expected. No loss of circulation is expected to occur. All personnel will be familiar with the safe operation of the equipment being used to drillout and reenter this well. The maximum anticipated bottom hole pressure is 4500 psi and the maximum anticipated bottom hole temperature is 130° F.
- 11. **Waste Management** All drill cuttings and other wastes associated with the re-entry and drill out operations will be transported to a commercial surface waste disposal facility permitted by the Environmental Bureau of the New Mexico Oil Conservation Division.
- 12. **Anticipated Start Date** Ready now MIRU 8/22/2021. Completion of the well operations will take two to three weeks. Installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval.

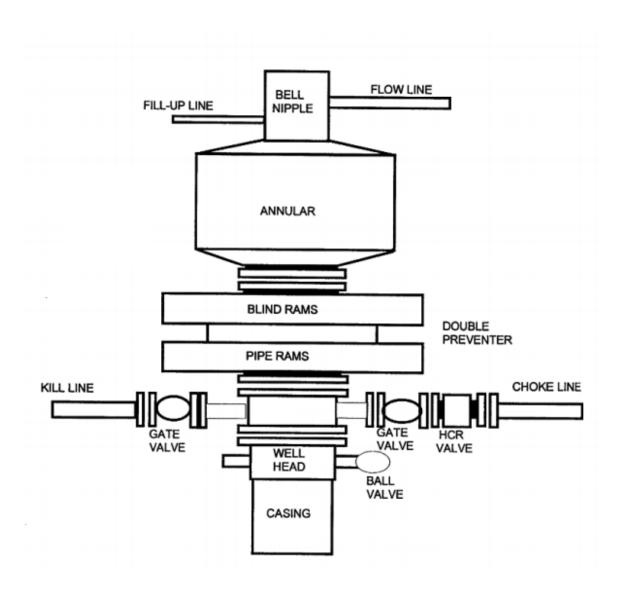
In any event, it is not expected for the construction phase of the project to last more than 30 days, depending on availability of contractors and equipment. At the time of this submittal, the anticipated start date is:

# August 23, 2021.

13. **Configure for Salt Water Disposal** – SWD Permit No. SWD-1582 (extended expiration date September 23, 2022). Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the following tasks: drillout and workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity. Anticipated daily volume is ~5,000 bpd at a maximum surface injection pressure of 1920 psi.

# **BLOWOUT PREVENTER DIAGRAM**

3000 PSI WORKING PRESSURE



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

COMMENTS

Action 43491

#### **COMMENTS**

Operator:	OGRID:
RAY WESTALL OPERATING, INC.	119305
P.O. Box 4	Action Number:
Loco Hills, NM 88255	43491
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

#### COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/17/2021	9/17/2021
ahvermersch	nersch Well status, well & work type will be changed upon receipt of completion report. 10/	

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CONDITIONS

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#### CONDITIONS

Created By	Condition	Condition Date
kpickford	None	9/17/2021