#### **State of New Mexico**

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

District I

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

Form C-101 Revised July 18, 2013

☐AMENDED REPORT

#### **Energy Minerals and Natural Resources**

**Oil Conservation Division** 

1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

APPL	ICATIO	N FOF	PE PE	RMIT Toerator Name	and Address	, RE-ENTE	R, DE	CEPEN	, PLUGB	ACK	OGRID Num	D A ZONE ber
J	reek Mids		_C .								37355	
		uston Pk	wy W	/, Suite #60	00; Houston, <sup>-</sup>					30-0	025-5186	5
4. Prop	erty Code	326981				Property Name	SA	LT CREE	< AGI		6. V	Vell No. 3
					7. St	urface Locatio	n					
UL - Lot	Section	Township		Range	Lot Idn	Feet from		/S Line	Feet From	ı	E/W Line	County
L	21	26-S		36-E		2329		DUTH	278		WEST	LEA
III I -+	Gti	T1.i-		D	1	ed Bottom Hol	1		Frat Francis	1	EAVII	Country
UL - Lot	Section	Township		Range	Lot Idn	Feet from		/S Line	Feet From		E/W Line	County
L	21	26-S		36-E		2329	SC	DUTH	278		WEST	LEA
					9. <b>P</b> e	ool Informatio	n					
						Name						Pool Code
					AGI; DI	ELAWARE						98335
			12		Addition	nal Well Inform	nation		14		15	
	ork Type		12	Well Type		13. Cable/Rotary			<sup>14.</sup> Lease Type		15. Gr	ound Level Elevation 2926'
1	Aultiple		<sup>17.</sup> Pı	roposed Depth		18. Formation			19. Contractor			<sup>20.</sup> Spud Date
	NO			7,040′		HERRY CANYO	N					NUG 1, 2023
Depth to Gro	ound water APPROX. 2	250′		Dista	ance from nearest	fresh water well			Dis	tance to	nearest surface	e water
Туре	Hol	e Size	Cas	ing Size	Proposed Ca	eight/ft		ogram g Depth	Sack	s of Cei	ment	Estimated TOC
Surface	. 2	26"		20"	133	3	2,1	00′		2,850		Surface
Intermedia	ate 17	7.5"	13	3.375"	54.	5	3,1	00′		1,680		Surface
Intermedia	ate 12	.25"	9	.625″	40		5,1	10′		715		Surface
Productio	on 8.	75"		7"	26		7,0	)40′	214	bbls, 5	0 sks	Surface
				Casir	ng/Cement Pr	ogram: Additi	ional (	Commen	ts			
Production	on interval	utilizes co	rrosic	n-resistant	casing and ce	ment (214 bbls \	WellLo	ck Resin a	nd CorrosaC	em sluı	rry (see atta	ched well diagram
				22.	Proposed Blo	owout Prevent	ion Pr	ogram				
	Туре			,	Working Pressure	e		Test Pres	ssure		М	lanufacturer
	Annula	r			3,000		3,000		0			
	Double R	am			5,000			5,00	0			
best of my k			ion giv	en above is	true and complete	e to the		OIL	CONSER	VATI	ON DIVIS	SION
I further ce	rtify that I	have comp		ith 19.15.14.	9 (A) NMAC 🔀	and/or	roved B	v.·				
19.15.14.9 (1 Signature:	B) NMAC [	∐, if appli	cable.			App						
-	<u> </u>	A 100					Kai	tz_				
Printed name		d A.Whit	-			Title		<u> </u>				
Title:					dstream, LLC	Appi	roved D	ate: <b>08</b> /	17/2023	Exp	iration Date:	08/17/2025
E-mail Addr		ite@geol										
Date: July	13, 2023		P	hone: (505	5)842-8000	Cond	ditions o	f Approval	Attached			

District I

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#### 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

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

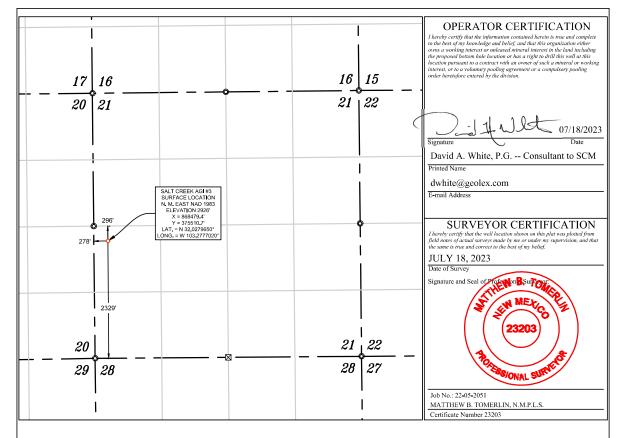
API Number 30-025-51865	Pool Code 98335	Pool Name AGI; DELAWARE	
Property Code	Proper	y Name	Well Number
326981	SALT CR	EEK AGI	#3
ogrid №.		or Name	Elevation
373554		IDSTREAM, LLC	2926'
	Surface	Location	

					Surface Locatio	n			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	21	26 S	36 E		2329	SOUTH	278	WEST	LEA

Bottom Hole Location If Different From Surface

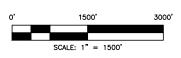
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill	Consolidation Co	de O	der No.				

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.









#### NOTES

1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001), NAVD 88.

2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING MAY, 2023. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.

3. ELEVATIONS MSL, DERIVED FROM GINS S. OBSERVATION AND DERIVED FROM SAID ON THE-GROUND SURVEY.

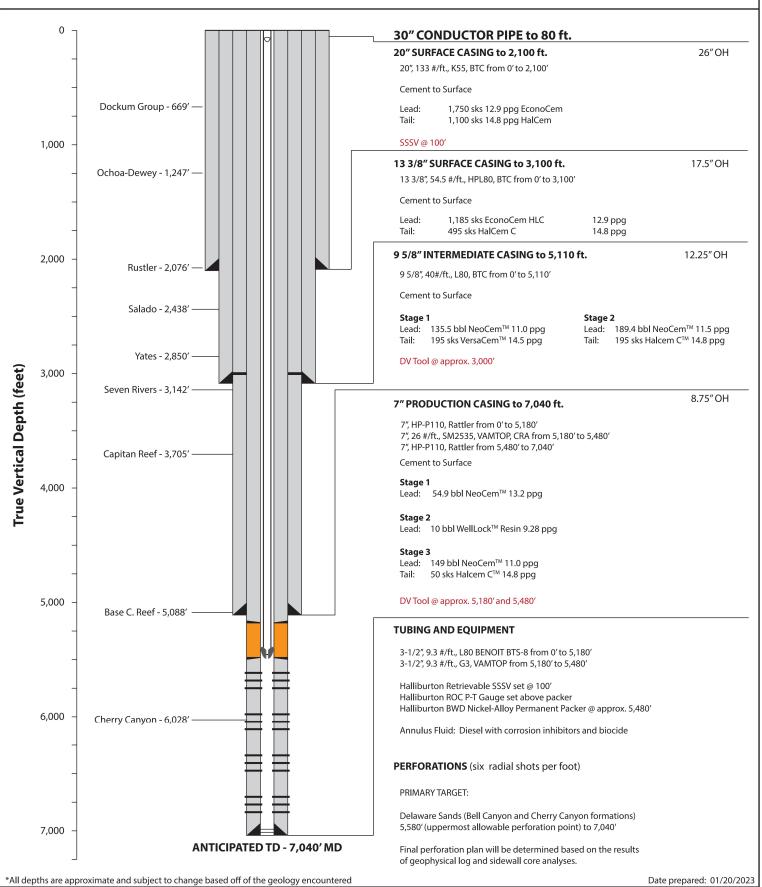
### **ATTACHMENT A**

PROPOSED WELL BORE DIAGRAM SALT CREEK AGI #3



## SALT CREEK AGI #3 REVISED WELL SCHEMATIC





### **ATTACHMENT B**

EXAMPLE DRILLING PROGRAM SALT CREEK AGI #3

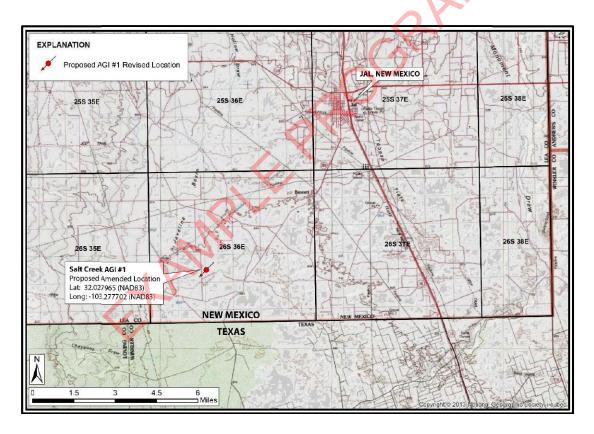




# PRELIMINARY DRILLING PROGRAM SALT CREEK AGI #3

Location: Section 21 Township 26 South, Range 36 East 2,329' FSL & 278'FWL Lea County, New Mexico

**Directions**: From Jal, New Mexico, drive south on 3<sup>rd</sup> Street (a.k.a Frying Pan Road) for approximately 8 miles. Turn right on lease road marked with Salt Creek Midstream signage and continue for approximately 1.5 miles to the end of road. Turn right (north) at T-intersection of lease road and continue for approximate 500 feet. Turn right at lease road marked with Salt Creek Midstream signage and continue 0.25 mile to east plant entrance.



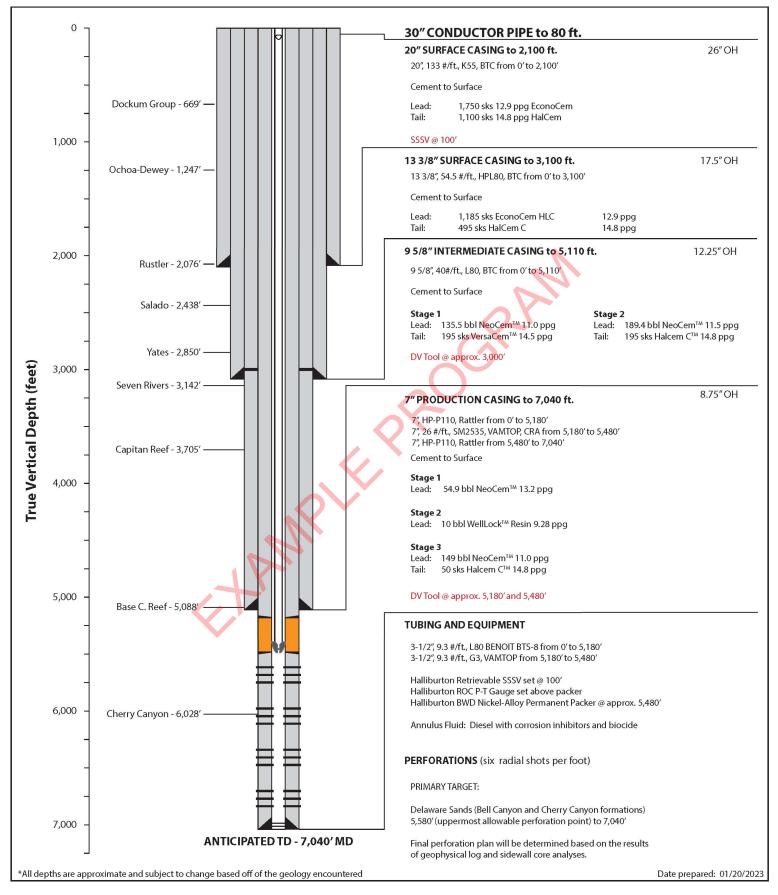
#### WELL SUMMARY DATA

County:	Lea	Field	Delaware
API:	TBD	NMOCC Order No.	R-20913-F
AFE Number:	TBD	Drilling Rig:	TBD
<b>Elevation:</b>	2926'	KB Elevation:	-
NAD83 Coordinates:	32.027965	Location:	2329' FSL, 278' FWL
	-103.277702		T26S, R36E, Sec. 21



## SALT CREEK AGI #3 REVISED WELL SCHEMATIC







	TAT		
Hole Section	Hole Size	Depth Interval (hole section   Depth Criteria	Depth Criteria
Single	"90	, 3 100,	Set at $\pm 2,100$ °
Sulface	50	0 -2,100	Casing and Cement to Surface
Tetamoralist (181)	17 5.,	2 1001 2 1003	Below Rustler Fm. Instability
Intermediate (1 ° )	5./1	2,100 - 3,100	Casing and Cement to Surface
(buc) -1-: 1:1	12.35;;	2011 2 1001 6	Isolation of Capitan Rf.
intermediate (2)	12.23	3,100 - 3,110	Casing and Cement to Surface
Droduction	8 75"	5 110, 7 040,	Cosing and Compatto Curface
Todaction	67.9	0+0,1 - 011,0	Casing and Coment to Surface

# CASING PROGRAM

String         Casing Size (in)           Surface Casing         20           Intermediate (1st)         13.325           Intermediate (2nd)         9.675	Weight (lb/ft)	, P. C., C				
		Grade	Thread	Top (ft., MD)	Base (ft., MD)	Length
	133	K55	BTC	0	2,100	2,100
	54.5	HPL-80	BTC	0	3,100	3,100
	40	L80	BTC	0	5,110	5,110
Production 7	29	HP-P110	Rattler	0	5,180	5,180
Production (CRA) 7	26	SM2535	VAMTOP	5,180	5,480	300
Production (Inj. Zone) 7	29	HP-P110	Rattler	5,480	7,040	1560

# **CEMENT PROGRAM**

String	Lead/Tail	Type	Density (ppg)	# Sacks	Estimated TOC
Surface	Lead	EconoCem HLC (or equivalent)	12.9	2850	Surface
	Tail	Halcem C,	14.8		
Intermediate (1st)	Lead	EconoCem HLC	12.9	1680	Surface
	Tail	HalCem C	14.8		
2 <sup>nd</sup> Int. (Stage 1)	Lead	NeoCem	11.0	135.5 bbls	Surface
	Tail	VersaCem	14.5	195 sks	
2 <sup>nd</sup> Int. (Stage 2)	Lead	NeoCem	11.5	189.4 bbls	Surface
	Tail	Halcem C	14.8	195 sks	
Prod. (Stage 1)	-	NeoCem	13.2	54.9 bbls	5,480'
Prod. (Stage 2)	-	WellLock Resin	9.28	10 bbls	5,180'
Prod. (Stage 3)	Lead	NeoCem	11.0	149 bbls	Surface
	Tail	Halcem C	14.8	50 sks	

\*NOTE: DV Tools at 3,000', 5180', and 5480'

 $\mathfrak{C}$ 





#### **PRE SPUD**

## Notify regulatory agency (NMOCD – Hobbs District) 24 hours prior to spud. Document notification on IADC and morning report

- 1. Level and grade the location with caliche or comparable material, as required
- 2. Install a corrugated steel cellar around well site
- 3. Auger a 36-inch hole to approximately 80 feet and set 30-inch conductor pipe
- 4. Cement conductor pipe to the surface using sufficient volume of Redi-mix cement
- 5. Install a 4-inch outlet for draining the conductor pipe after cementing the surface casing
- 6. Drill a mouse hole per drilling contractor. Ensure rat hole contractor is using correct layout.
- 7. Prior to moving rig, drive to location and note any road hazards and/or power lines
- 8. Move in and rig up drilling rig and associated equipment
  - a. Move in and rig up a closed-loop system for handling drill cuttings and drilling fluid
  - b. Inspect drill collars and drill pipe (or use most recent if supplied as per IADC contract) and circulate inspection report to drilling superintendent
  - c. Make sure all drill pipe has been inspected with paperwork in hand before spud and all pipe on location is counted prior to spud. Keep an up-to-date and correct account (OD, ID, length) of all tubulars on location at all times, including 3<sup>rd</sup>-party equipment.
  - d. Perform a pre-spud rig inspection prior to accepting the rig on daywork.





#### **26" SURFACE INTERVAL: 0'-2,100'**

**Objective:** Drill a 26" hole to approximately 2,100' and set 20" casing to protect usable water intervals and to isolate potentially problematic intervals of flowing sand. Casing string will be cemented to surface.

**Notes:** Notify NMOCD – Hobbs District Office 24 hours prior to running and cementing surface casing string.

- 1. Weld a flange to the 30-inch conductor pipe and install an annular blowout preventer (BOP)
- 2. Install riser pipe with bell nipple and flowline to the BOP
- 3. Mix a spud mud for the surface hole
- 4. Make up a bottom-hole assembly (BHA) with a 26" bit (TBD, based on availability)
- 5. Drill ahead to 2,100' (top of Rustler Formation) taking deviation surveys at approximately 250' intervals and maintaining deviation below 2°.
- 6. Monitor cellar to ensure ground is not washing out
- 7. Vary RPM, differential psi, and WOB to optimize ROP. Ream each stand 2-3 on surface hole.
- 8. Monitor pickup, slack off, torque, returns, and standpipe pressure to evaluate hole cleaning
- 9. Sweep the hole with paper/MF-55 sweeps and drop a soap stick every connection.
- 10. Circulate and condition mud for running casing
- 11. Sweep the hole with a high-viscosity, fresh gel sweep at surface casing TD and spot a high-viscosity sweep at TD
- 12. Run fluid caliper
- 13. TOOH to run surface casing
- 14. Move in and rig up casing crew and run centralized 20", 133 #/ft., K55, BTC surface casing to approximately 2,100'. Run two bow spring centralizers on the float joint (1 in center of joint on a stop ring and 1 on collar) and one centralizer per every third joint at the collars back to surface
- 15. Dimensional data and minimum performance properties (TBD) of the surface casing are presented on page 7.
- 16. Move in and rig up cementing equipment. Cement the surface casing as follows:
  - a. Pump a freshwater spacer followed by a tuned spacer designed for the rheology of the drilling fluid and lead cement.





- b. Pump 1750 sks of ECONOCEM with additives (density 12.9 ppg) followed by 1100 sks HALCEM with additives (density 14.8 ppg) according to the current cement program
- c. Drop wiper plug and displace with drilling fluid according to the cementing program
- d. Bump wiper plug and pressurize over final circulating pressure
- e. Monitor pressure for five (5) minutes and bleed off to cement unit to ensure floats are holding
- f. Wait on cement at least eight (8) hours (cement volumes are based on bit size, plus 100% excess for open-hole section. Actual cement volumes will be based on fluid caliper hole volume, plus 25% excess)
- g. If cement was not circulated to surface, additional cement bond logging may be required and it may be necessary to perform a top out operation using a 1" pipe to place up to 200 sks of standard cement.
- 17. After waiting at least 8 hours for cement to set, release the 20" surface casing and lift the stack to make a rough cut on the 20" surface casing. Nipple down the bell nipple, flow line, and BOP. Cut the conductor and make a final cut on the 20" casing. Weld a temporary flange to the 20" casing. Re-install the BOP. Nipple up the bell nipple with flow line and riser pipe to the top of the BOP and test. Pressure test and function test the BOP.





#### Casing and Cementing - 20" Section

			CASII	NG				
Hole Size	Wt./ft.	Grade	Connec	ction	Top Set	Botton	n Set	Length
26	133	K55	ВТС	2	0'	2,10	00'	2,100'
		C	CASING D	ETAIL	S			
	ID:	18.73 inches		Inte	rnal Yield Pr	essure:	3,060	
	Drift:	18.54 inches		] ]	Pipe Body St	rength:	2,125,	000 lbs
Со	upling OD:	21 inches			Joint St	rength:	1,453,	000 lbs.
	Collapse:	1,500			Ca	pacity:	0.3408	3 bbl/ft

		Float E	quipm	ent & Accessories
Item	Model	Depth	Qty	Remarks
Float Collar	HOWCO	2,060	1	
Shoe	HOWCO	2,100'	1	
Centralizers	HOWCO		15	2 on float joint, and 1 every 3 <sup>rd</sup> joint to surface
Stop ring		2,059'	1	2

	Cement
Spacer:	20 bbl gel spacer with red dye
Type:	EconoCem HLC & Halcem C (2850 sks total)
EXA	





#### 17.5" FIRST INTERMEDIATE INTERVAL: 2,100' – 3,100'

**Objective:** Drill a 17.5" hole to planned TD of 3,100' and set 13.375" intermediate casing. Casing will be set to cover interval of anticipated wellbore instability within the Rustler Formation geologic strata.

**Notes:** Notify NMOCD – Hobbs District Office 24 hours prior to running and cementing production-casing string.

- 1. RU mud loggers
- 2. Make up suitable BHA and trip in the hole to the float collar. Drill out the float collar and approximately 30' of cement in the shoe track joint.
- 3. Trip in hole with a 17.5" bit and BHA which includes a straight-hole motor. Pressure test the 20" surface casing to 1,000 psi for at least 30 minutes and record the test on a chart recorder. Drill the remainder of the shoe track cement and float shoe. Drill 10 feet of formation and perform a Formation Integrity Test (FIT) to 100 psi for 30 minutes.
- 4. Continue drilling an 17.5" hole to approximately 3,100, maintaining a low fluid loss mud system as the developed mud program.
- 5. Move in and rig up casing crew and run centralized 13.375", 54.5 #/ft. casing to 3,100' from 0' to 3,100'
- 6. Run two bow spring centralizers on the float joint (1 in center of joint on a stop ring and 1 on collar) and one centralizer per every third joint at the collars back to surface. The float joint will consist of a float shoe, one joint of casing, and a float collar. Circulate and condition the mud for cementing in three stages.
- 7. Dimensional data and minimum performance properties of the production casing are presented on page 10.
- 8. Cement the 13.375" intermediate casing back to the surface in the following three stages:
  - a. Establish circulation and conditions the mud for optimum cementing conditions. Pump a freshwater spacer followed by a 20 bbl gel spacer w/ red dye designed for the rheology of the drilling fluid and lead cement. Pump 1185 sks EconoCem and 495 sks HalCem C and flush with 2% KCl water according to the final cementing plan.
  - b. If cement was not circulated to surface, additional cement bond logging may be required and it may be necessary to perform a top out operation using a 1" pipe to place up to 200 sks of standard cement.
- 9. After waiting at least 8 hours for cement to set, release the 13.375" casing and lift the stack to make a rough cut on the intermediate casing. Nipple down the bell nipple, flow line, and BOP. If necessary, perform a top out operation using a 1" pipe to place up to 200 sks of standard cement. Cut the conductor and make a final cut on the casing. Weld a temporary flange to the 13.375" casing. Re-install the BOP. Nipple up the bell nipple with flow line and riser pipe to the top of the BOP and test. Pressure test and function test the BOP.





#### Casing and Cementing – 13.375" Section

			CASII	NG			
Hole Size	Wt./ft.	Grade	Connec	ction	Top Set	<b>Bottom Set</b>	Length
17.5	54.5	HPL80	ВТС	C	0'	3,100'	3,100'
		(	CASING D	ETAIL	S		
	ID:	TBD		Inte	rnal Yield Pr	ressure: TBD	
	Drift:	TBD		]	Pipe Body St	rength: TBD	
Со	upling OD:	TBD			Joint St	rength: TBD	
	Collapse:	TBD			Ca	pacity: TBD	

Float Equipment & Accessories								
Item	Item Model Depth Qty Remarks							
Float Collar	HOWCO	3,060'	1					
Float Shoe	HOWCO	3,100'	1					
Centralizers	HOWCO		-	2 on float joint and 1 every 3 <sup>rd</sup> joint to surface				
Stop ring	HOWCO	3,059	1					

Cement						
Spacer: 20 bbls gel spacer with red dye						
Type:	EconoCem (1185 sks) & HalCem C (495 sks)					





#### 9.625" SECOND INTERMEDIATE INTERVAL: 3,100' - 5,110'

**Objective:** Drill a 12.25" hole to planned TD of 5,110' and set 9.625" casing. Note that open-hole geophysical logs, from original SCM AGI #1 location, are available and are to be reviewed prior to drilling intermediate interval. Primary objective is to isolate, via casing, the interval of the Capitan Reef.

**Notes:** Notify NMOCD – Hobbs District Office 24 hours prior to running and cementing production-casing string.

- 1. RU mud loggers
- 2. Make up 12.25" PDC drill bit and trip in the hole to the float collar. Drill out the float collar and approximately 30' of cement in the shoe track joint.
- 3. Trip in hole with a 12.25" bit and BHA which includes a straight-hole motor. Pressure test the 13.375" intermediate casing to 1,000 psi for at least 30 minutes and record the test on a chart recorder. Drill the remainder of the shoe track cement and float shoe. Drill 10 feet of formation and perform a Formation Integrity Test (FIT) to 100 psi for 30 minutes.
- 4. Continue drilling an 12.25" hole to approximately 5,110', maintaining a low fluid loss mud system as per developed mud program.
- 5. Move in and rig up casing crew and run centralized 9.625", 40 #/ft. casing to 5,110' as follows:
  - a. 9.625", 40 #/ft., L80, BTC from 0' to 5,110'
  - b. DV Tool will be installed at approximately 3,000'
- 6. Run two bow spring centralizers on the float joint (1 in center of joint on a stop ring and 1 on collar) and one centralizer per every third joint at the collars back to surface. The float joint will consist of a float shoe, one joint of casing, and a float collar. A DV tool will be positioned in the casing string at approximately 3,000' for the first stage. Circulate and condition the mud for cementing in two stages.
- 7. Dimensional data and minimum performance properties of the production casing are presented on page 10.
- 8. Cement the 9.625" casing back to the surface in the following three stages:
  - a. Stage 1 Establish circulation and conditions the mud for optimum cementing conditions. Pump a freshwater spacer followed by a 20 bbl gel spacer w/ red dye designed for the rheology of the drilling fluid and lead cement. Pump 135.5 bbls Halliburton NeoCem (11.0 ppg) and 195 sks VersaCem (14.5 ppg) and flush with 2% KCl water according to the final cementing plan.





- b. Stage 2 Drop stage collar opening plug and wait for it to reach stage collar. Pressure casing to open stage collar. Establish circulation through the stage collar and continue circulating for four (4) hours. Pump a gel spacer with red dye followed by approximately 189.4 bbls of NeoCem (11.5 ppg) and 195 sks HalCem C (14.8 ppg).
- c. If cement was not circulated to surface, additional cement bond logging may be required and it may be necessary to perform a top out operation using a 1" pipe to place up to 200 sks of standard cement.
- 9. After waiting at least 8 hours for cement to set, release the 9.625" casing and lift the stack to make a rough cut on the intermediate casing. Nipple down the bell nipple, flow line, and BOP. If necessary, perform a top out operation using a 1" pipe to place up to 200 sks of standard cement. Cut the conductor and make a final cut on the casing. Weld a temporary flange to the casing. Re-install the BOP. Nipple up the bell nipple with flow line and riser pipe to the top of the BOP and test. Pressure test and function test the BOP.





#### Casing and Cementing – 9.625" Section

CASING									
Hole Size	Wt./ft.	Grade	Connec	tion	Top Set	Bottom Set		Length	
12.25	40	L80	BTC		0'	5,11	0'	5,110'	
	CASING DETAILS								
	ID:	9.625 inches		Inte	rnal Yield Pr	essure:	5,750		
Drift:		8.679 inches		]	Pipe Body St	rength:	916,00	00 lbs	
Coupling OD:		-			Joint St	rength:	-		
	Collapse:	3,090	•		Ca	pacity:	0.0758	B bbls/ft.	

Float Equipment & Accessories							
Item	Model	Depth	Qty	Remarks			
Float Collar	HOWCO	5,070'	1				
Float Shoe	HOWCO	5,110'	1				
Centralizers	HOWCO		-	2 on float joint and 1 every 3 <sup>rd</sup> joint to surface			
Stop ring	HOWCO	5,069'	1				
DV Tool	-	3,000'	1				

Cement – Stage 1						
Spacer:	20 bbls gel spacer with red dye					
Type:	NeoCem (135.5 bbls) and VersaCem (195 sks)					
Cement – Stage 2						
Spacer:	20 bbls gel spacer with red dye					
Type:	NeoCem (189.4 bbls) and HalCem C (195 sks)					





#### 8.75" PRODUCTION INTERVAL: 5,110' – 7,040'

**Objective:** Drill a 8-3/4" hole to planned TD of 7,040' and set 7" casing. Open-hole geophysical logs are currently available from prior AGI #1 location. Collect sidewall cores on cap rock, top of injection interval, and various sections of the open-hole interval.

**Notes:** Notify NMOCD – Hobbs District Office 24 hours prior to running and cementing production-casing string.

- 1. RU mud loggers
- 2. Make up 8.75" PDC drill bit and trip in the hole to the float collar. Drill out the float collar and approximately 30' of cement in the shoe track joint.
- 3. Trip in hole with a 8.75" bit and BHA which includes a straight-hole motor. Pressure test the 9.625" surface casing to 1,000 psi for at least 30 minutes and record the test on a chart recorder. Drill the remainder of the shoe track cement and float shoe. Drill 10 feet of formation and perform a Formation Integrity Test (FIT) to 100 psi for 30 minutes.
- 4. Continue drilling an 8.75" hole to approximately 7,040', maintaining a low fluid loss mud system as per attached mud program.
- 5. Move in and rig up casing crew and run centralized 7", 26 #/ft. casing to 7,040" as follows:
  - a. 7", 26 #/ft., HP-P110, Rattler, from 5,480' 7,040'
  - b. 7", 26 #/ft., SM2535 (CRA), VAMTOP, from 5,180' 5,480'
  - c. 7", 26 #/ft., HP-P110, Rattler from 0' 5,180'
- 6. Run two bow spring centralizers on the float joint (1 in center of joint on a stop ring and 1 on collar) and one centralizer per every third joint at the collars back to surface. The float joint will consist of a float shoe, one joint of casing, and a float collar. A DV tool will be positioned in the casing string at approximately 5,480' for the first stage and another DV tool at 5,180' for the second stage cement. Circulate and condition the mud for cementing in three stages.
- 7. Dimensional data and minimum performance properties of the production casing are presented on page 10.
- 8. Cement the 7" casing back to the surface in the following three stages:
  - a. Stage 1 Establish circulation and conditions the mud for optimum cementing conditions. Pump a freshwater spacer followed by a 20 bbl gel spacer w/ red dye designed for the rheology of the drilling fluid and lead cement. Pump 54.9 bbls Halliburton NeoCem (13.2 ppg) and flush with 2% KCl water according to the final cementing plan.
  - b. <u>Stage 2</u> Drop stage collar opening plug and wait for it to reach stage collar. Pressure casing to open stage collar. Establish circulation through the stage collar and continue circulating for four (4) hours. Pump a gel spacer with red dye followed





by approximately 10 bbls of Halliburton WellLock Resin and two (2) bbls solvent cleanup. Drop stage collar wiper/closing plug and displace with 2% KCl water. Bump wiper/closing plug and close stage collar with required pressure over final circulating pressure. Release pressure and assure that stage collar is holding.

- c. <u>Stage 3</u> Drop stage collar opening plug and wait for it to reach stage collar. Pressure casing to open stage tool and continue circulating for four (4) hours. Pump 20 bbl Gel spacer with red dye. Pump 149 bbls NeoCem (11.0 ppg) followed by 50 sks HALCEM "C" (14.8 ppg) according to the final cementing plan. Drop stage collar wiper/closing plug and flush with 2% KCl water.
- d. If cement was not circulated to surface, additional cement bond logging may be required and it may be necessary to perform a top out operation using a 1" pipe to place up to 200 sks of standard cement.
- 9. After waiting on cement, ND BOP and cut off 7" casing. NU wellhead.
- 10. RD and release drilling rig and all associated equipment.





#### Casing and Cementing – 7" Section

CASING									
Hole Size	Wt./ft.	Grade	Connection		Top Set	<b>Bottom Set</b>	Length		
7"	26.0	HP-P110	Rattler		0'	5,110'	5,110'		
7"	26.0	SM2535	VAMTOP		5,180'	5,480'	300'		
7"	26.0	HP-P110	Rattler		5,480'	7,040'	1,560'		
		(	CASING DI	ETAIL	S				
	ID: TBD					ressure: TBD			
Drift:		TBD		]	Pipe Body St	rength: TBD			
Coupling OD:		TBD			Joint St	rength: TBD			
Collapse:		TBD			Ca	pacity: TBD			

Float Equipment & Accessories								
Item	Model	Depth	Qty	Remarks				
Float Collar	HOWCO	_	1					
Float Shoe	HOWCO	7,040'	1					
Centralizers	HOWCO	-	<i>*</i>	2 on float joint and 1 every 3 <sup>rd</sup> joint to surface				
Stop ring	HOWCO	-	1	<u> </u>				
DV Tool #1	HOWCO	5,180'	1					
DV Tool #2	HOWCO	5,480'	1					

Cement – Stage 1						
Spacer:	20 bbls gel spacer with red dye					
Type:	NeoCem (54.9 bbls) – 13.2 ppg					
	Cement – Stage 2					
Spacer: 20 bbls gel spacer with red dye						
Type:	Halliburton WellLock Resin (10 bbls)					
	Cement – Stage 3					
<b>Spacer:</b> 20 bbls gel spacer with red dye						
Type: NeoCem (149 bbls) & HalCem C (50 sks)						

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

CONDITIONS

Action 240347

#### **CONDITIONS**

Operator:	OGRID:	
Salt Creek Midstream, LLC	373554	
5775 N Sam Houston Pkwy W	Action Number:	
Houston, TX 77086	240347	
	Action Type:	
	[C-101] Drilling Non-Federal/Indian (APD)	

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	Notify OCD 24 hours prior to casing & cement	8/17/2023
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	8/17/2023
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	8/17/2023
pkautz	CEMENT MUST CIRCULATE ON ALL STRINGS	8/17/2023
pkautz	In addition to the requirements of the APD, operator shall complete the conditions contained in the UIC permit including logging (CBL for liner; mud logging, etc.), well testing, and reporting as stipulated.	8/17/2023
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.	8/17/2023