

Submit a Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-51441
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP		6. State Oil & Gas Lease No.
3. Address of Operator 333 W SHERIDAN AVE OKLAHOMA CITY, OK 73102		7. Lease Name or Unit Agreement Name NORTH THISTLE 3 34 STATE COM
4. Well Location Unit Letter <u>A</u> : <u>695</u> feet from the <u>NORTH</u> line and <u>1309</u> feet from the <u>EAST</u> line Section <u>34</u> Township <u>22S</u> Range <u>33E</u> NMPM County <u>LEA</u>		8. Well Number 403H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3542.9		9. OGRID Number 6137
		10. Pool name or Wildcat BRINNINSTOOL;BONE SPRING

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>		Notify OCD 24 hrs. prior to any work done. gilbert.cordero@emnrd.nm.gov	
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: NAME CHANGE <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Company L.P. respectfully requests the following P&A procedure:

SEE CHANGES TO PROCEDURE

Please see attached plan, fishing report, and wellbore diagram.

Spud Date:

Rig Release Date:

\*\*\*SEE ATTACHED COA's\*\*\*

MUST BE PLUGGED BY 8/1/25

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rebecca Deal TITLE REGULATORY PROFESSIONAL DATE 9/11/2024

Type or print name Rebecca Deal E-mail address: rebecca.deal@dv.com PHONE: 405-228-8492

**For State Use Only**

APPROVED BY: [Signature] TITLE Staff Manager DATE 9/25/24

Conditions of Approval (if any):

North Thistle 3 34 State Com 403C  
API 30-025-51441  
P&A Proposal

13 3/8" 54.5# J-55 BTC Surface Casing Set @ 1,068' w/ cement to surface.  
11" open hole to 5,575'.

Top of fish @ 2,865'.

Remove RBP @ 1,000'.

TIH and pump 1 1/2 times volume cement 5575' - 2800' - WOC & Tag  
Fill OH with cement 2800' - 800' - WOC & Tag - T Salt, T Rustler and Shoe

TOOH to 500' and pump plug from 500' to Surface.

14.8 ppg Class C Neat Cement @ 1.32 yield

78 bbls (332 sx) for 500 ft.

Cut off wellhead 3 ft. below ground. Weld on plate with identification and marker. Fill in cellar.

### **Fishing Report**

While drilling ahead @ 5,575', became stuck in 11" hole. After having been stuck for a while and attempting to get free the drill pipe parted in two different places – one part at approximately 2,865' and the other near surface at around 250'. The upper part of the fish fell downhole next to the lower fish, wrapping the two fish around each other in the hole. For the next three days we pulled on and jarred on the upper fish that we could latch onto achieving no movement in the fish. We made several attempts to back off pieces of the fish and latching on to the fish at deeper points still unable to move the fish. The final backoff depth of the upper fish was 3,000' which places the top of that fish below the top of the lower fish in the hole. After being stuck for over 72 hours with no movement on the interlocked fish, we made the decision to abandon the hole and re-drill. Plugging proposal was done per conversation with Ward Rikala as Gilbert Cordero was unavailable at the time.



INTR, INTR1, DRLG, TANGENT; 5/10/2024 19:30

Rpt #: 5 Date: 5/13/2024 05:00

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN EAST		Field Name THISTLE FLD		County LEA	State/Province NM	API/UWI 3002551441							
DUWI WA022050487		Surface Legal Location 34-22S-33E			Latitude (°) 32° 21' 12.892" N		Longitude (°) 103° 33' 21.506" W		Ground Elev (ft) 3,542.90	KB - GL (ft) 25.00	Orig KB Elev (ft) 3,567.90				
Jobs								Responsible Teams							
Current Well Status DRILLING		Job Category DRILLING/COMPLETIONS		Job Type DRILLING	Target Formation 2ND BONE SPRING		Auth MD (ftKB) 20,596.0		Contact Name		Role				
WBS #								Emissions (GHG)							
XX-156187.01.SLC								Length of Gas Flared 0		Gas Flared Duration 0					
XX-156187.01.FTA								Safety							
XX-156187.01.DRL								Days LTI (days) 337.00		Days RI (days)		# Safe/Stop			
Planned Days (days) 16.75				Job % Complete (ML) (%) 20.5				Head Count		Pers Tot Hrs (hr)		Cum Pers Hrs (hr)			
Original Drlg Spud Date 5/6/2024 22:30		Job Spud Date 5/6/2024 22:30		RR Date 5/15/2024 05:00		Proj Job Dur (days) 17.60		Days From Spud (days) 6.27		Cum Time Log Sp... 3.38					
Rigs								Safety Check Summary							
Contractor, Rig Name HELMERICH & PAYNE INTERNATIONAL DRILLING CO.				Rig Number 269		Rig Start Date 5/10/2024 17:00		Rig End Date 5/15/2024 05:00		Type		Last Date	Next (days)		
Job Phase				Cum Duration (days)								BOP PRESSURE TEST		5/8/2024	17
MOB				0.06								H2S		5/9/2024	4
SURF				1.15								SAFETY MEETING		5/12/2024	1
INTR				2.40								Daily Contacts			
PROD				0.00								Job Contact		Office	
NPT Analysis to Date								HOOKS, SPENCER, SUPERINTENDENT				405-439-5147			
Time Log Hrs (hr) 24.00		Problem Time Hours (hr) 17.00		Daily NPT Percent (%) 70.83		Cum Time Log Total (hr) 130.50		Cum Job NPT (hr) 65.00		Cum Job NPT (%) 49.81		FATHEREE, LANCE, FOREMAN		940-366-0711	
Daily Operations								LALONDE, BILLY, PIC DAY				575-231-2225			
Report Start Date 5/12/2024 05:00		Drilled Last 24 Hours (ft) 939.00		End Depth (ftKB) 5,575.0		Avg ROP (ft/hr) 134.1		Drilling Hours (hr) 7.00		Circulating Hours (hr)		BRADFORD, TRAVIS, PIC NIGHT		575-231-2225	
Operations at Report Time ATTEMPT BACK OFF						24 Hour Forecast CONTINUE WITH FISH JOB UNTIL TOOLS ARE RETRIEVED						RIGGS, PAUL, RIG MANAGER		432-202-4321	
24 Hour Summary DRILLING 11" INTERMEDIATE TANGENT F/ 4,636' T/ 5,575', STUCK PIPE WHILE SLIDING ON BOTTOM, WORK PIPE & STRING BACKED OUT, TOOH 2 STDS & DOUBLE, WAIT ON FISHING TOOLS, P/U SAME & TIH TO FISH, LATCH ON & WORK STRING, ATTEMPT TO RELEASE OVER SHOT, R/U WIRELINE & RUN COLLAR LOCATOR, RUN 240 GRAIN STRING SHOT & ATTEMPT TO GET OVERSHOT OFF WITH NO SUCCESS, RUN IN WITH 480 GRAIN SHOT TO ATTEMPT BACK OFF BELOW OVERSHOT															
Remarks TOTAL DRILLED = 939' ROTATE 857' = 91% SLIDE 82' = 9%															
LAST SURVEY BIT PROJ. MD: TVD: INC: AZI 5,483' 5,426.95' 11.95° 297.96°															
22' AHEAD 1' RIGHT															
H&P DAYS CREW =6, NIGHT CREW =6, RIG MANAGER=1 NO ACCIDENTS, INCIDENTS OR SPILLS REPORTED															
Last Casing String SURFACE 1, 1,068.8ftKB						Next Casing OD (in) 8.625		Next Casing Set Depth (ftKB) 6,034							
Geological Activity at Report Time															
Safe/Stop Cards															
Stop Job Description NTI EMPLOYEE WALKED IN FRONT OF THE DRILL PIPE IN THE CATWALK TROUGH AS OTHER EMPLOYEE WAS BRINGING THE PIPE UP TO BE LATCHED WITH ELEVATORS. STOPPED JOB, EXPLAINED TO THE NTI EMPLOYEE THE HAZARD HE WAS IN & SPOKE WITH CATWALK OPERATOR ABOUT NOT MOVING IF SOMEONE IS WALKING INTO THE BUFFER ZONE.															
Mud Check: 5/12/2024 17:00 @ 5,572.0 ftKB Source:suction															
Depth (ftKB) 5,572.0		Density (lb/gal) 10.40		T Flowline (°F) 0.0		Funnel Vis (s/qt) 32		pH 11.00		Gel (10s) (lb/100ft²) 5		Gel (10m) (lb/100... 7		Gel (30m) (lb/100... 8	
PV Calc (cP) 4.0		YP Calc (lb/100ft²) 12		Vis 6rpm 6		Filtrate (mL/30min) 95.0		Filter Cake (1/32") 2		HTHP WL (mL/30... 		HTHP FC... 		ECD-Manua... 	
LGS (%) 3.7		HGS (%) 0.0		WPS (ppm) 		Electric Stab (V) 		MBT 		Pf (mL/mL) 		Mf (mL/mL) 1.7		Pm (mL/mL) 2.9	
Chlorides (mg/L) 184,000		Calcium (mg/L) 0		LCM 		Oil Water Ratio 0/100		Bk Gas Max 0.00		Conn Gas Max 0.00		Max Trip Gas 0.00		Max Drill Gas 0.00	
Time Log															
Start Time	End Time	Dur (hr)	Operation	Start Depth (ftKB)	End Depth (ftKB)	Description						NPT			
05:00	12:00	7.00	DRLG	4,636.0	5,575.0	DRILL AHEAD W/ 11" 1 INT DIRECTIONAL ASSEMBLY AS FOLLOWS: F/ 4,636' T/ 5,575' NOTE: START 9.62 DREG TANGET W/ 313.11 AZI @ 1,600'. AND HOLD TO THE DROP @ 7,100 AC CONCERN: NO ISSUES									
12:00	13:00	1.00	TRIP	5,575.0	5,572.0	DRILL STRING STUCK WHILE SLIDING ON BOTTOM, WORK PIPE WITH 50K-75K PULL, WORK 18K-25K TORQUE DOWN. CALL & DECISION MADE TO WORK TORQUE UP IN INCREMENTS TO 30K & PULL TO 400K ON STRING. WHILE WORKING STRING WITH HOOKLOAD AT 250K THE STRING PARTED.						HOLE			
13:00	13:30	0.50	TRIP	5,572.0	0.0	POOH WITH 2 STANDS DRILL PIPE & A DOUBLE						HOLE			
13:30	20:30	7.00	FISH	0.0	0.0	WAIT ON FISHING TOOLS TO ARRIVE ON LOCATION, STRAP & CALIPER SAME.						HOLE			
CONDUCTOR 20 in@ 106.0 ftKB															
Set Date 4/20/2024		Top Thread WELDED		String Grade J-55		Wt/Len (l... 94.00									
SURFACE 1 13 3/8 in@ 1,068.8 ftKB															
Set Date 5/7/2024		Top Thread BTC		String Grade J-55		Wt/Len (l... 54.50									

Time Log												
Start Time	End Time	Dur (hr)	Operation	Start Depth (ftKB)	End Depth (ftKB)	Description					NPT	
20:30	23:00	2.50	FISH	0.0	1,361.0	P/U FISH TOOLS TO RIG FLOOR & MAKE UP TOOLS - OVERSHOT & TWO CROSS OVER SUBS. TIH 2 STANDS & P/U 38 JOINTS FROM RACK TO TAG UP @ 1,361'.					HOLE	
23:00	00:00	1.00	FISH	1,361.0	1,361.0	LATCH ON TO FISH @ 1,321', HOOKLOAD @ 65K, SET 20K DOWN TO GET ON FISH, WORK PIPE 250K-300K, DECISION MADE TO GET OFF FISH TO COME OUT FOR JARS. UNSUCCESSFUL GETTING OVERSHOT OFF. DECISION MADE TO RIG UP WIRELINE					HOLE	
00:00	05:00	5.00	FISH	1,361.0	1,361.0	R/U WIRELINE, RUN COLLAR LOCATOR, BOTTOM OF FISH @ 3,976' (FISH LENTH 2,608'), ATTEMPT TO GET OVERSHOT OFF FISH WITH NO SUCESS. WIRELINE IN HOLE 240 GRAIN STRING SHOT TO ATTEMPT OVERSHOT RELEASE @ 1,368' - NO SUCESS, RUN IN HOLE WITH 480 GRAIN SHOT TO ATTEMPT TO BACK OFF STRING 2 JOINTS BELOW OVERSHOT @ 1,431'					HOLE	
NPT Details												
5/12/2024 12:00 -HOLE - TIGHT HOLE - STUCK PIPE - DEVON ENERGY												
Dur (Net) (hr)		Start Depth (ftKB)		End Depth (ftKB)		Est Lost Time (hr)		Estimated Cost (Cost)		Trouble Item		
65.00		5,572.0		5,572.0		65.00		1,332,978.91				
Description								NPT Continuity		NPT Capacity		
DRILL STRING STUCK WHILE SLIDING ON BOTTOM								UNINTERRUPTED		UNDIMINISHED		
BIT # 2 , BHA # 2 , INTR TANGENT												
Bit Size (in)	SN	Bit Type	Make	Model		Nozzles (1/32")			Gauge Length...	IADC Bit Dull		
11	A304494	PDC	NOV	TKF66E3		14/14/14/14/14/14			7	8-8-LT-A-X-0-LT-LIH		
Depth In (ftKB)	Depth Out (ftKB)		Total Drilled (ft)		Total Drill Hrs (hr)		Avg ROP (ft/hr)	SPP Min (psi)	SPP Max (psi)	WOB Max (1000lbf)	Max RPM (r/min)	
1,083.0	5,575.0		4,492.00		37.50		119.8	3,550.0	5,000.0	60	197	
Drilling Parameters												
Param Type		End Time	Start Depth (ftKB)	End Depth (ftKB)	Int Depth (ft)	WOB (1000lbf)	RPM (rpm)	Q Flow (gpm)	SPP (psi)	dP (SPP) (psi)	Drill Tq	Int ROP (ft/hr)
DRILL FORMATION		12:00	4,636.0	5,575.0	939.00	60	75	900	5,000.0	700.0	20,000.0	134.1
Mud Motors												
BHA #	Lobe Config	# Stages	Bend Type	Bend Setting	BB to Bnd Len (ft)	RPM to Flow Ratio	Kick Pad?	Make			Model	
2	6/7	6.6	FIXED	1.5	6.80	0.135	YES	PHOENIX TECHNOLOGY SERVICES US			6/7, 6.6 STG W/ SLICK SLEEVE	
Drill String Components												
Item Des				OD (in)	ID (in)	Jts	Len (ft)	Cum Len (ft)	Gauge (in)	Make		
Mud Motor				9.000	2.50	1	38.78	39.78		PHOENIX TECHNOLOGY SERVICES US		
Stabilizer - Straight IBS				8.000	3.00	1	6.26	46.04	10.13	J A OILFIELD MANUFACTURING, INC.		
Drill Collar - Pony				7.980	3.25	1	14.23	60.27		PHOENIX TECHNOLOGY SERVICES US		
MWD - Directional				8.250	3.25	1	18.01	78.28		PHOENIX TECHNOLOGY SERVICES US		
NMDC				7.920	3.25	1	29.22	107.50		PHOENIX TECHNOLOGY SERVICES US		
XO Sub				8.000	3.00		3.53	111.03		J A OILFIELD MANUFACTURING, INC.		
Drill Collar				8.000	3.00	3	88.71	199.74		HELMERICH & PAYNE INC		
XO Sub				4.500	2.88		3.88	203.62		WORKSTRINGS INTERNATIONAL LLC		
HWDP				4.500	2.75	45	1,398.74	1,602.36		WORKSTRINGS INTERNATIONAL LLC		
Drill Pipe				4.500	3.83	126	3,972.64	5,575.00		WORKSTRINGS INTERNATIONAL LLC		
Bulk Supply Amounts												
Supply Item Des				Type			Unit Label	Received	Used	Cum Used	Cum On Loc	
DIESEL FUEL 2				FUEL OIL 2 - OFF ROAD			GAL US	0.0	4,192.0	8,032.0	11,798.0	
DIESEL MUD				MUD			GAL US	0.0	0.0	0.0	2,451.0	
Lease Fluids												
Fluid Type			Action Type			Volume to Lease (bbl)			Source		Volume from Lease (bbl)	
FRESH WATER (= 1,000)			CONSUMPTION			480.0			THIRD-PARTY			
General Notes												
Date		Type 1				Type 2			Com			
Survey Data												
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)		VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Build (°/100ft)		
3,789.00		8.26	318.60	3,762.58		-223.12	240.50	-238.12	0.32	-0.22		





Sub-Division DELAWARE BASIN		Region DELAWARE BASIN EAST		Field Name THISTLE FLD		County LEA	State/Province NM	API/UWI 3002551441										
DUWI WA022050487	Surface Legal Location 34-22S-33E			Latitude (°) 32° 21' 12.892" N	Longitude (°) 103° 33' 21.506" W	Ground Elev (ft) 3,542.90	KB - GL (ft) 25.00	Orig KB Elev (ft) 3,567.90										
Jobs							Responsible Teams											
Current Well Status DRILLING		Job Category DRILLING/COMPLETIONS	Job Type DRILLING	Target Formation 2ND BONE SPRING		Auth MD (ftKB) 20,596.0		Contact Name	Role									
WBS #							Emissions (GHG)											
XX-156187.01.SLC							Length of Gas Flared 0		Gas Flared Duration 0									
XX-156187.01.FTA							Safety											
XX-156187.01.DRL							Days LTI (days) 338.00											
Planned Days (days) 16.75			Job % Complete (ML) (%) 24.7				Days RI (days)	# Safe/Stop										
Original Drlg Spud Date 5/6/2024 22:30		Job Spud Date 5/6/2024 22:30	RR Date 5/15/2024 05:00	Proj Job Dur (days) 18.60	Days From Spud (days) 7.27	Cum Time Log Sp... 4.38	Head Count	Pers Tot Hrs (hr)	Cum Pers Hrs (hr)									
Rigs							Safety Check Summary											
Contractor, Rig Name HELMERICH & PAYNE INTERNATIONAL DRILLING CO.			Rig Number 269	Rig Start Date 5/10/2024 17:00		Rig End Date 5/15/2024 05:00		Type	Last Date	Next (days)								
Job Phase			Cum Duration (days)				BOP PRESSURE TEST	5/8/2024	16									
MOB			0.06				H2S	5/9/2024	3									
SURF			1.15				SAFETY MEETING	5/13/2024	1									
INTR			3.40				Daily Contacts											
PROD			0.00				Job Contact	Office										
NPT Analysis to Date			Time Log Hrs (hr) 24.00				Problem Time Hours (hr) 24.00	Daily NPT Percent (%) 100.00	Cum Time Log Total (hr) 130.50	Cum Job NPT (hr) 65.00	Cum Job NPT (%) 49.81							
Daily Operations			Report Start Date 5/13/2024 05:00				Drilled Last 24 Hours (ft) 0.00	End Depth (ftKB) 5,575.0	Avg ROP (ft/hr)	Drilling Hours (hr)	Circulating Hours (hr)							
Operations at Report Time JARRING STUCK PIPE			24 Hour Forecast CONTINUE WITH FISH JOB UNTIL TOOLS ARE RETRIEVED				HOOKS, SPENCER, SUPERINTENDENT				405-439-5147							
24 Hour Summary STRING BACKED OUT WHEN APPLY 10K TQ, R/D WIRELINE, TOOHP, P/U 4 STDS HWT, WAIT ON OVERSHOT, M/U TOOLS, TIH & LATCH ON TO FISH, JAR & DERRICK INSPECTION, GRAPPLE SLIPPED OFF FISH, TOOHP, RIG SERVICE, WAIT ON GRAPPLE, TIH T/ 1,364', LATCH ON & JAR ON FISH 1 HR & PERFORM DERRICK INSPECTION EACH INTERVAL			Remarks TOTAL DRILLED = 0' ROTATE 0' = 0% SLIDE 0' = 0%				FATHEREE, LANCE, FOREMAN				940-366-0711							
LAST SURVEY BIT PROJ. MD: 5,483' TVD: 5,426.95' INC: 11.95° AZI: 297.96°			22' AHEAD 1' RIGHT				LALONDE, BILLY, PIC DAY				575-231-2225							
H&P DAYS CREW =6, NIGHT CREW =6, RIG MANAGER=1 NO ACCIDENTS, INCIDENTS OR SPILLS REPORTED			Last Casing String SURFACE 1, 1,068.8ftKB				Next Casing OD (in) 8.625		Next Casing Set Depth (ftKB) 6,034		BRADFORD, TRAVIS, PIC NIGHT	575-231-2225						
Geological Activity at Report Time			Safe/Stop Cards				STOP JOB DESCRIPTION EMPLOYEE WAS ABOUT TO PLACE HIS HAND ON THE FISHING JARS WHILE IT WAS OPENED UP. STOPPED JOB, EXPLAINED TO HIM THE DANGER OF PUTTING HANDS ON JARS WHEN OPENED UP IN CASE THEY CLOSE UP.				RIGGS, PAUL, RIG MANAGER	432-202-4321						
Mud Check: 5/13/2024 17:30 @ 5,575.0 ftKB Source:suction			Depth (ftKB) 5,575.0				Density (lb/gal) 10.40	T Flowline (°F) 0.0	Funnel Vis (s/qt) 33	pH 11.00	Gel (10s) (lb/100ft²) 6	Gel (10m) (lb/100... 7	Gel (30m) (lb/100... 9	PUMP #1 GARDNER-DENVER PZ-11	Pump # 1	Model PZ-11	Pump Rating (hp) 1,600.0	
PV Calc (cP) 6.0			YP Calc (lb/100ft²) 10	Vis 6rpm 6	Filtrate (mL/30min) 96.0	Filter Cake (1/32") 2	HTHP WL (mL/30... 	HTHP FC... 	ECD-Manua... 	Losses (bbl) 0.0	PUMP #2 GARDNER-DENVER PZ-11	Pump # 2	Model PZ-11	Pump Rating (hp) 1,600.0				
LGS (%) 3.6			HGS (%) 0.0	WPS (ppm) 	Electric Stab (V) 	MBT 	Pf (mL/mL) 	Mf (mL/mL) 1.9	Pm (mL/mL) 2.5	Cum Losses (bbl) 0.0	Liner Size (in) 5 1/2	Stroke Length (in) 11.00	Vol/Stk OR (bbl/stk) 0.077	P (psi)	Slow R... 	Strokes R... 	Q Flow... 	Depth (ftKB)
Chlorides (mg/L) 184,500			Calcium (mg/L) 0	LCM 	Oil Water Ratio 0/100	Bk Gas Max 0.00	Conn Gas Max 0.00	Max Trip Gas 0.00	Max Drill Gas 0.00	PUMP #3 GARDNER-DENVER PZ-11	Pump # 3	Model PZ-11	Pump Rating (hp) 1,600.0					
Time Log			Start Time	End Time	Dur (hr)	Operation	Start Depth (ftKB) 1,361.0	End Depth (ftKB) 1,361.0	Description WHEN APPLIED 10K TQ TO THE LEFT PRIOR TO SETTING OFF 480 GRAIN STRING SHOT THE STRING BACKED OUT, PICKED DRILL STRING UP 5', VERIFIED WITH WIRELINE THE BACK OUT ABOVE CROSS OVERS @ DRILL PIPE. R/D WIRELINE IN PREPARATION TO TOOHP WITH DRILL STRING.	NPT HOLE								
05:00 06:00 1.00 FISH			06:00 07:30 1.50 FISH	07:30 09:00 1.50 FISH	09:00 10:00 1.00 FISH	10:00 12:00 2.00 FISH	1,361.0	0.0	TRIP OUT OF HOLE F/ 1,361' T/ 0' NOTE: STRING BACKED OUT ABOVE CROSS OVER @ FISH TOOLS	HOLE								
									P/U 4 STANDS (12 JTS) 4.5" HWT DRILL PIPE & RACK BACK IN DERRICK, P/U JARS & BUMPER SUB WHILE WAIT ON OVERSHOT TO ARRIVE	HOLE								
									WAIT ON OVERSHOT & GRAPPLE	HOLE								
									M/U OVERSHOT, CROSSOVER, LUBESTER SUB, CROSSOVER, HWT DP, INTENSIFIER, CROSSOVER & TIH TO TOP OF FISH @ 1,364'	HOLE								

Time Log							
Start Time	End Time	Dur (hr)	Operation	Start Depth (ftKB)	End Depth (ftKB)	Description	NPT
12:00	13:30	1.50	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP 50 BBL DIESEL TO SPOT @ 3976' UP TO 3456'	HOLE
13:30	14:30	1.00	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
14:30	15:30	1.00	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP 50 BBL FRESH WATER TO SPOT @ 3976' UP TO 3456'	HOLE
15:30	16:00	0.50	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
16:00	18:00	2.00	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP 100 BBL FRESH WATER TO SPOT @ 3976' UP TO 2955' LOST STRING WT & PUMP PSI, CHECK TO SEE IF BROKE IN DIFFERENT SPOT, WORK PIPE ON TOP OF FISH TO SEE IF TORQUE BACK INTO IT, NO SUCCESS, DECISION MADE TO TOO H	HOLE
18:00	19:00	1.00	FISH	1,364.0	0.0	TOOH, L/D JARS & FISHING TOOLS. GRAPPLE WAS MISSING FROM INSIDE THE OVERSHOT	HOLE
19:00	19:30	0.50	RIGSVC	0.0	0.0	PERFORM RIG SERVICE, PERFORM DERRICK & TOP DRIVE INSPECTION	HOLE
19:30	23:30	4.00	FISH	0.0	0.0	WAIT ON GRAPPLE & FISH TOOLS	HOLE
23:30	01:00	1.50	FISH	0.0	1,364.0	M/U FISH TOOLS WITH 6.25" GRAPPLE IN OVERSHOT, TIH T/ 1,364'	HOLE
01:00	02:30	1.50	FISH	1,364.0	1,364.0	LATCH ON TO FISH, P/U SINGLE FOR SPACING, JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE	HOLE
02:30	03:00	0.50	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
03:00	04:00	1.00	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE	HOLE
04:00	04:30	0.50	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
04:30	05:00	0.50	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE	HOLE

NPT Details								
5/12/2024 12:00 -HOLE - TIGHT HOLE - STUCK PIPE - DEVON ENERGY								
Dur (Net) (hr)	Start Depth (ftKB)	End Depth (ftKB)	Est Lost Time (hr)	Estimated Cost (Cost)	Trouble Item			
65.00	5,572.0	5,572.0	65.00	1,332,978.91				
Description				NPT Continuity		NPT Capacity		
DRILL STRING STUCK WHILE SLIDING ON BOTTOM				UNINTERRUPTED		UNDIMINISHED		
Bulk Supply Amounts								
Supply Item Des		Type		Unit Label	Received	Used	Cum Used	Cum On Loc
DIESEL FUEL 2		FUEL OIL 2 - OFF ROAD		GAL US	7,201.0	1,229.0	9,261.0	17,770.0
DIESEL MUD		MUD		GAL US	0.0	2,451.0	2,451.0	0.0
General Notes								
Date	Type 1			Type 2		Com		
Survey Data								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Build (°/100ft)
3,789.00	8.26	318.60	3,762.58	-223.12	240.50	-238.12	0.32	-0.22
3,883.00	9.76	312.35	3,855.42	-232.80	250.93	-248.47	1.90	1.60
3,977.00	8.77	319.61	3,948.20	-242.86	261.75	-259.00	1.63	-1.05
4,071.00	7.57	326.27	4,041.24	-252.87	272.36	-267.08	1.62	-1.28
4,166.00	9.55	323.44	4,135.18	-263.80	283.90	-275.25	2.13	2.08
4,260.00	9.21	331.27	4,227.93	-276.05	296.76	-283.51	1.40	-0.36
4,354.00	11.56	317.70	4,320.39	-288.88	310.32	-293.47	3.59	2.50
4,449.00	11.60	317.83	4,413.46	-302.06	324.44	-306.29	0.05	0.04
4,542.00	10.85	321.44	4,504.68	-314.97	338.22	-318.02	1.10	-0.81
4,636.00	11.42	309.55	4,596.92	-326.89	351.06	-330.72	2.51	0.61
4,730.00	10.57	310.32	4,689.20	-337.40	362.57	-344.47	0.92	-0.90
4,824.00	10.96	306.87	4,781.54	-347.35	373.51	-358.19	0.80	0.41
4,918.00	10.76	302.56	4,873.86	-356.38	383.59	-372.73	0.89	-0.21
5,013.00	11.43	302.42	4,967.09	-365.09	393.41	-388.15	0.71	0.71
5,107.00	12.00	301.84	5,059.13	-374.07	403.56	-404.32	0.62	0.61
5,201.00	11.73	301.09	5,151.12	-382.98	413.65	-420.80	0.33	-0.29
5,295.00	11.99	299.64	5,243.11	-391.54	423.41	-437.47	0.42	0.28
5,389.00	12.19	299.63	5,335.03	-400.05	433.15	-454.58	0.21	0.21
5,483.00	11.95	297.96	5,426.95	-408.28	442.62	-471.80	0.45	-0.26
5,575.00	11.95	297.96	5,516.96	-416.00	451.55	-488.63	0.00	0.00

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INTR, INTR1, DRLG, TANGENT; 5/10/2024 19:30

Rpt #: 7 Date: 5/15/2024 05:00

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN EAST		Field Name THISTLE FLD		County LEA	State/Province NM		API/UWI 3002551441												
DUWI WA022050487		Surface Legal Location 34-22S-33E			Latitude (°) 32° 21' 12.892" N		Longitude (°) 103° 33' 21.506" W		Ground Elev (ft) 3,542.90		KB - GL (ft) 25.00		Orig KB Elev (ft) 3,567.90								
Jobs								Responsible Teams													
Current Well Status DRILLING		Job Category DRILLING/COMPLETIONS		Job Type DRILLING		Target Formation 2ND BONE SPRING		Auth MD (ftKB) 20,596.0		Contact Name		Role									
WBS #								Emissions (GHG)													
XX-156187.01.SLC								Length of Gas Flared 0				Gas Flared Duration 0									
XX-156187.01.FTA								Safety													
XX-156187.01.DRL								Days LTI (days) 339.00				Days RI (days)		# Safe/Stop							
Planned Days (days) 16.75				Job % Complete (ML) (%) 28.6				Head Count		Pers Tot Hrs (hr)		Cum Pers Hrs (hr)									
Original Drlg Spud Date 5/6/2024 22:30		Job Spud Date 5/6/2024 22:30		RR Date 5/15/2024 05:00		Proj Job Dur (days) 19.60		Days From Spud (days) 8.27		Cum Time Log Sp...		Safety Check Summary									
Rigs								Type				Last Date		Next (days)							
Contractor, Rig Name HELMERICH & PAYNE INTERNATIONAL DRILLING CO.				Rig Number 269		Rig Start Date 5/10/2024 17:00		Rig End Date 5/15/2024 05:00		BOP PRESSURE TEST 5/8/2024 15											
Job Phase				Cum Duration (days)				H2S 5/9/2024 2				SAFETY MEETING 5/14/2024 1									
MOB				0.06				Daily Contacts													
SURF				1.15				Job Contact				Office									
INTR				4.40				HOOKS, SPENCER, SUPERINTENDENT				405-439-5147									
PROD				0.00				FOREHEE, LANCE, FOREMAN				940-366-0711									
NPT Analysis to Date								LALONDE, BILLY, PIC DAY				575-231-2225									
Time Log Hrs (hr) 24.00		Problem Time Hours (hr) 24.00		Daily NPT Percent (%) 100.00		Cum Time Log Total (hr) 130.50		Cum Job NPT (hr) 65.00		Cum Job NPT (%) 49.81		BRADFORD, TRAVIS, PIC NIGHT									
Daily Operations								RIGGS, PAUL, RIG MANAGER				432-202-4321									
Report Start Date 5/14/2024 05:00		Drilled Last 24 Hours (ft) 0.00		End Depth (ftKB) 5,575.0		Avg ROP (ft/hr)		Drilling Hours (hr)		Circulating Hours (hr)		FOSTER, CLARENCE, SAFETY TECH									
Operations at Report Time INSTALLING TA CAP.						24 Hour Forecast RELEASE TO NORTH THISTLE 3-34 STATE COM 504H						ALEXANDER, BRANDON, MUD ENGINEER									
24 Hour Summary JAR ON PIPE, RUN FREE POINT WITH WIRELINE, JAR ON FISH 1 HR & PERFORM DERRICK INSPECTION EACH INTERVAL, RUN FREE POINT WITH WIRELINE, PERFORM BACK OFF @ 3000', TOOH & L/D FISH TOOLS, L/D RECOVERED PIPE T/1,068', DISPLACE HOLE WITH 10# BRINE, L/D RECOVERED PIPE, REMOVE WEAR BUSHING, P/U RETRIEVABLE BRIDGE PLUG & TIH, SET @ 1,005', TOOH, N/D BOP'S, DUMP SAND TO COVER 10' OF BRIDGE PLUG.												LARNER, KYRAN, DIR DRILLER NIGHT									
Remarks TOTAL DRILLED = 0' ROTATE 0' = 0% SLIDE 0' = 0%												FABIAN, JOSH, DIR DRILLER NIGHT									
LAST SURVEY BIT PROJ. MD:            TVD:            INC:            AZI 5,483'    5,426.95'    11.95°    297.96°												Mud Additive Amounts									
22' AHEAD    1' RIGHT												Additive Des									
H&P DAYS CREW =6, NIGHT CREW =6, RIG MANAGER=1 NO ACCIDENTS, INCIDENTS OR SPILLS REPORTED												Used									
Last Casing String SURFACE 1, 1,068.8ftKB						Next Casing OD (in) 8.625		Next Casing Set Depth (ftKB) 6,034		BLUE MAX 25											
Geological Activity at Report Time												ENGINEER PER DIEM 1									
Safe/Stop Cards												LIME 6									
Stop Job Description WHILE MAKING UP BRIDGE PLUG ASSEMBLY, DERRICK HAND OBSERVED THE MOUSEHOLE LEFT UNCOVERED. DERRICK HAND STOPPED THE JOB, INSTALLED THE MOUSEHOLE COVER, AND DISCUSSED THE HAZARDS OF THE MOUSEHOLE LEFT UNCOVERED. OPERATIONS CONTINUED WITHOUT INCIDENT.												MUD ENGINEER 1									
Mud Check: 5/14/2024 17:00 @ 5,575.0 ftKB Source:suction												TAX (SALES) 4,485									
Depth (ftKB) 5,575.0		Density (lb/gal) 10.40		T Flowline (°F) 0.0		Funnel Vis (s/qt) 33		pH 11.00		Gel (10s) (lb/100ft²) 6		Gel (10m) (lb/100... 8		Gel (30m) (lb/100... 8		ZINC OXIDE 20					
PV Calc (cP) 5.0		YP Calc (lb/100ft²) 13		Vis 6rpm 7		Filtrate (mL/30min) 91.0		Filter Cake (1/32") 2		HTHP WL (mL/30... 		HTHP FC... 		ECD-Manua... 		Losses (bbl) 0.0		PUMP #1 GARDNER-DENVER PZ-11			
LGS (%) 3.7		HGS (%) 0.0		WPS (ppm)		Electric Stab (V)		MBT		Pf (mL/mL)		Mf (mL/mL) 1.6		Pm (mL/mL) 2.7		Cum Losses (bbl) 0.0		PUMP #2 GARDNER-DENVER PZ-11			
Chlorides (mg/L) 184,000		Calcium (mg/L) 0		LCM		Oil Water Ratio 0/100		Bk Gas Max 0.00		Conn Gas Max 0.00		Max Trip Gas 0.00		Max Drill Gas 0.00		PUMP #3 GARDNER-DENVER PZ-11					
Time Log								Pump # 3				Model PZ-11				Pump Rating (hp) 1,600.0					
Start Time 05:00		End Time 05:30		Dur (hr) 0.50		Operation FISH		Start Depth (ftKB) 1,364.0		End Depth (ftKB) 1,364.0		Description JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE				NPT HOLE					
05:30		09:00		3.50		FISH		1,364.0		1,364.0		R/U WIRELINE, RUN FREE POINT TOOL, P/U STRING 165K, S/O STRING 125K FOR STRETCH, R/D WIRELINE NOTE: 2,750' = 100% FREE, 3,000' = 90% FREE, 3,500' = 80% FREE, 3,900 = 40% FREE				HOLE					
09:00		10:00		1.00		FISH		1,364.0		1,364.0		JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARRING PIPE				HOLE					
10:00		10:30		0.50		FISH		1,364.0		1,364.0		PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN				HOLE					
10:30		11:30		1.00		FISH		1,364.0		1,364.0		JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE				HOLE					
								Set Date 4/20/2024				Top Thread WELDED		String Grade J-55		Wt/Len (l... 94.00					
								Set Date 5/7/2024				Top Thread BTC		String Grade J-55		Wt/Len (l... 54.50					

Time Log							
Start Time	End Time	Dur (hr)	Operation	Start Depth (ftKB)	End Depth (ftKB)	Description	NPT
11:30	12:00	0.50	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
12:00	13:00	1.00	FISH	1,364.0	1,364.0	JARRING PIPE, P/U 200K, S/O 55K, PUMP FRESH WATER WITH 12 PH @ 100-200 GPM WHILE JARING PIPE	HOLE
13:00	13:30	0.50	FISH	1,364.0	1,364.0	PERFORM TOP DRIVE & DERRICK INSPECTION WHILE LET JARS COOL DOWN	HOLE
13:30	17:00	3.50	FISH	1,364.0	1,364.0	R/U WIRELINE, RUN FREE POINT TOOL T/ 3,962', P/U STRING 165K, S/O STRING 125K FOR STRETCH, RUN 640 GRAIN STRING SHOT TO BACK OFF @ 3,000', R/D WIRELINE	HOLE
17:00	19:00	2.00	FISH	3,000.0	1,635.0	TOOH F/ 3000' TO FISHING TOOLS & L/D SAME	HOLE
19:00	20:30	1.50	DPIPE	1,635.0	1,068.0	L/D RECOVERED 4.5" DRILL PIPE F/ 1,635' T/ 1,068'	HOLE
20:30	21:30	1.00	CIRC	1,068.0	1,068.0	DISPLACE HOLE WITH 10# BRINE	HOLE
21:30	00:30	3.00	DPIPE	1,068.0	0.0	L/D RECOVERED 4.5" DRILL PIPE F/ 1,068' T/ 0'	HOLE
00:30	01:00	0.50	WLHEAD	0.0	0.0	REMOVE WEAR BUSHING	HOLE
01:00	02:30	1.50	PLUGA	0.0	1,005.0	M/U RETRIEVABLE BRIDGE PLUG & TIH T/ 1,005', SET BRIDGE PLUG	HOLE
02:30	03:00	0.50	PLUGA	1,005.0	1,005.0	NOTE: STRAP IN HOLE	
03:00	03:30	0.50	RIGSVC	1,005.0	1,005.0	TEST BRIDGE PLUG/CASING 1500 PSI - 30 MIN, GOOD TEST	HOLE
03:30	04:00	0.50	PLUGA	1,005.0	0.0	PERFORMED RIG SERVICE	HOLE
04:00	04:30	0.50	BOPN	0.0	0.0	NOTE: GREASE CROWN, BLOCKS, TOP DRIVE, ST-80	HOLE
04:30	05:00	0.50	WLHEAD	0.0	0.0	FUNCTION VARIABLES & ANNULAR	HOLE
						TOOH & L/D RUN TOOL, DUMP 18 BAGS OF SAND DOWN HOLE TO COVER BRIDGE PLUG 10'	
						INSTALL CAP	
						RELEASE TO NORTH THISTLE 3-34 STATE COM 504H @ 06:00 CST ON 5/15/24.	
NPT Details							
5/12/2024 12:00 -HOLE - TIGHT HOLE - STUCK PIPE - DEVON ENERGY							
Dur (Net) (hr)	Start Depth (ftKB)	End Depth (ftKB)	Est Lost Time (hr)	Estimated Cost (Cost)	Trouble Item		
65.00	5,572.0	5,572.0	65.00	1,332,978.91			
Description				NPT Continuity		NPT Capacity	
DRILL STRING STUCK WHILE SLIDING ON BOTTOM				UNINTERRUPTED		UNDIMINISHED	
Bulk Supply Amounts							
Supply Item Des		Type		Unit Label	Received	Used	Cum Used
DIESEL FUEL 2		FUEL OIL 2 - OFF ROAD		GAL US	0.0	521.0	9,782.0
							0.0
General Notes							
Date	Type 1			Type 2		Com	
Survey Data							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
3,789.00	8.26	318.60	3,762.58	-223.12	240.50	-238.12	0.32
3,883.00	9.76	312.35	3,855.42	-232.80	250.93	-248.47	1.90
3,977.00	8.77	319.61	3,948.20	-242.86	261.75	-259.00	1.63
4,071.00	7.57	326.27	4,041.24	-252.87	272.36	-267.08	1.62
4,166.00	9.55	323.44	4,135.18	-263.80	283.90	-275.25	2.13
4,260.00	9.21	331.27	4,227.93	-276.05	296.76	-283.51	1.40
4,354.00	11.56	317.70	4,320.39	-288.88	310.32	-293.47	3.59
4,449.00	11.60	317.83	4,413.46	-302.06	324.44	-306.29	0.05
4,542.00	10.85	321.44	4,504.68	-314.97	338.22	-318.02	1.10
4,636.00	11.42	309.55	4,596.92	-326.89	351.06	-330.72	2.51
4,730.00	10.57	310.32	4,689.20	-337.40	362.57	-344.47	0.92
4,824.00	10.96	306.87	4,781.54	-347.35	373.51	-358.19	0.80
4,918.00	10.76	302.56	4,873.86	-356.38	383.59	-372.73	0.89
5,013.00	11.43	302.42	4,967.09	-365.09	393.41	-388.15	0.71
5,107.00	12.00	301.84	5,059.13	-374.07	403.56	-404.32	0.62
5,201.00	11.73	301.09	5,151.12	-382.98	413.65	-420.80	0.33
5,295.00	11.99	299.64	5,243.11	-391.54	423.41	-437.47	0.42
5,389.00	12.19	299.63	5,335.03	-400.05	433.15	-454.58	0.21
5,483.00	11.95	297.96	5,426.95	-408.28	442.62	-471.80	0.45
5,575.00	11.95	297.96	5,516.96	-416.00	451.55	-488.63	0.00

**State of New Mexico**  
**Energy, Minerals and Natural Resources Department**  
**Oil Conservation Division**  
**Standard Plugging Conditions**



This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
  - North Contact, Monica Kuehling, 505-320-0243, [monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)
  - South Contact, Gilbert Cordero, 575-626-0830, [gilbert.cordero@emnrd.nm.gov](mailto:gilbert.cordero@emnrd.nm.gov)
2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.
4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
  - North, water or mud laden fluids
  - South, mud laden fluids
6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.
7. Class of cement shall be used in accordance with the below table for depth allowed.

Class	TVD Lower Limit (feet)
Class A/B	6,000
Class I/II	6,000
Class C or III	6,000
Class G and H	8,000
Class D	10,000

Class E	14,000
Class F	16,000

8. After cutting the well head any "top off cement jobs" must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.
9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD C-133 permit.
  - A copy of this permit shall be available in each truck used to haul waste products.
  - It is the responsibility of the Operator and Contractor to verify that this permit is in place prior to performing work.
  - Drivers shall be able to produce a copy upon request of an OCD Compliance Officer.
10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.
11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.
12. Produced water or brine-based fluids **may not** be used during any part of plugging operations without **prior OCD approval**.
13. Cementing;
  - All cement plugs will be neat cement and a minimum of 100' in length. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
  - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50' below the formation top and the cement retainer shall be set no more than 50' from the perforations.
  - WOC (Wait on Cement) time will be:
    - 4 hours for accelerated (calcium chloride) cement.
    - 6 hours on regular cement.
  - Operator must tag all cement plugs unless it meets the below condition.
    - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
  - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
    - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
  - Cement can only be bull-headed with specific prior approval.
  - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.
14. A cement plug is required to be set from 50' below to 50' above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
  - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than

50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.

- Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
- Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35' of cement in lieu of the 100' plug. The bridge plug or retainer must be set within 50ft of the perforations.
- Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:

- Northwest See Figure A
- South (Artesia) See Figure B
- Potash See Figure C
  - In the R-111-P (Or as subsequently revised) Area a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
- South (Hobbs) See Figure D1 and D2
- Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers

- Dry hole marker requirements 19.15.25.10.  
The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
  1. Operator name
  2. Lease name and well number
  3. API number
  4. Unit letter
  5. Section, Township and Range
- AGRICULTURE (Below grade markers)  
In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
  - A) Aerial photo showing the agricultural area
  - B) Request from the landowner for the below ground marker.

C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

Note: A below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.



Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
  - 1. Bell Canyon
  - 2. Cherry Canyon
  - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

## Figure C

## Potash Area R-111-P

## T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All  
except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

## T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23.  
Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

## T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec  
10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec  
24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32  
Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

## T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

## T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec  
23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit  
A-H. Sec 36 Unit B-G.

## T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P.  
Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

## T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P.  
Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

## T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec  
23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

## T 21S – R 30E

Sec 1 – Sec 36

## T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E

Sec 36 Unit A,H,I,P.

T 22S – R 29E

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit

A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

T 22S – R 30E

Sec 1 – Sec 36

T 22S – R 31E

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25

Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

T 23S – R 28E

Sec 1 Unit A

T 23S – R 29E

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit

A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33

Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

T 23S – R 30E

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit

A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec

33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

T 23S – R 31E

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P.

Sec 16 Unit

I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec

34. Sec 35 Unit C,D,E.

T 24S – R 29E

Sec 2 Unit A, B, C, D. Sec 3 Unit A

T 24S – R 30E

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11.

Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

T 24S – R 31E

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O, P. Sec 10 Unit B – G, K – N. Sec

35 Unit E – P. Sec 36 Unit E, K, L, M, N.

T 25S – R 31E

Sec 1 Unit C, D, E, F. Sec 2 Unit A – H.

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

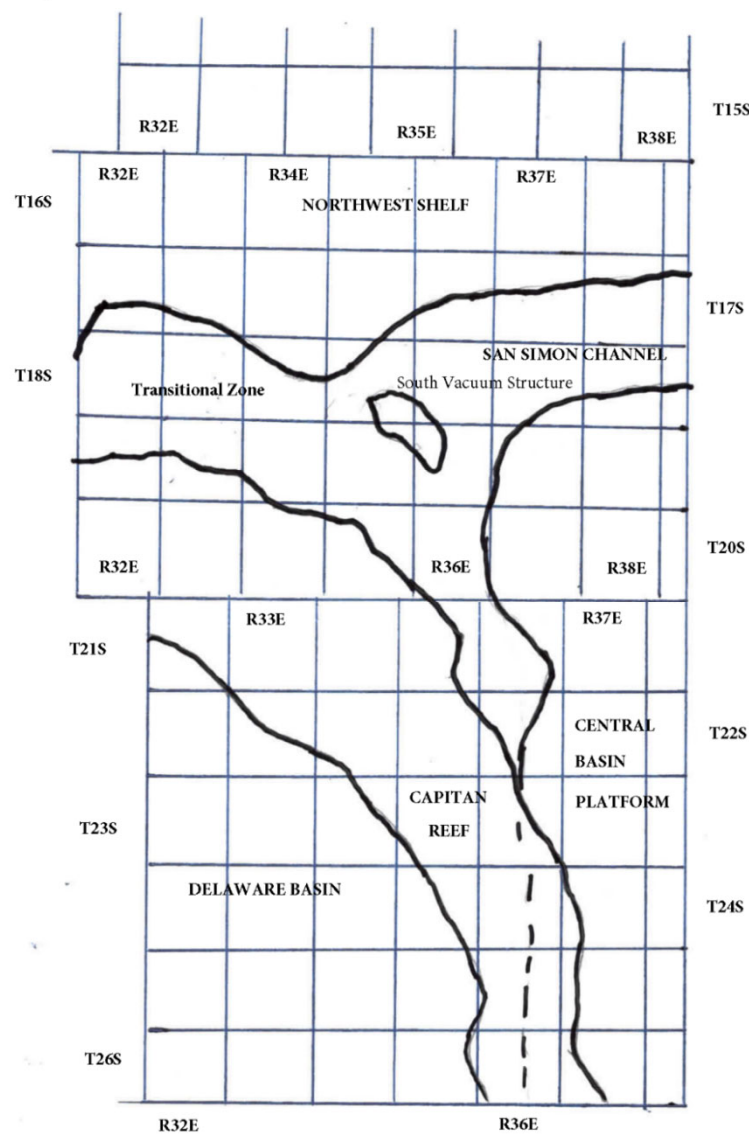


Figure D2 Formation Table

100' Plug to isolate upper and lower fresh water zones (typically 250' to 350')						
Northwest Shelf	Captan Reef Area	Transition Zone	San Simon Channel	South Vacuum Structure	Delaware Basin	Central Basin Platform
Granit Wash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit Wash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	McKee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	Wolfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	McKee
Chester	Pennsylvanian	Wolfcamp	Delaware	Barnett Shale	Lower Wolfcamp	Simpson Group
Austin	Wolfcamp	Bone Spring	San Andres	Morrow	Upper Wolfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	Wolfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of Wolfbone)	Silurian
Atoka	Queen, if present	Grayburg-San Andres	Base of Salt	Canyon	First Bone Spring Sand (Top of Lower Bone Spring)	Devonian
Lower Pennsylvanian	Bone Spring	Queen	Rustler	Pennsylvanian	Bone Spring	Strawn
Cisco-Canyon	Delaware	Seven Rivers		Blinbry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaware (Base of Salt)	Wolfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
Wolfcamp	Yates	Rustler		Queen		Abo Reef
Abo	Top Capitan Reef			Base of Salt		Drinkard
Abo Reef, if present	Base of Salt			Rustler		Tubb
Yeso (Township 15 South to Township 17 South)	Rustler					Blinbry
Drinkard or Lower Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinbry (Township 15 South to Township 17 South)						San Andres
Paddock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Grayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						



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

CONDITIONS  
  
Action 382707

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 382707
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	See changes to plugging plan	9/25/2024