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

Form C-101
Revised July 18, 2013

☐AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
BC&D Operating Inc. 2702 N. Grimes ST B Hobbs, New Mexico 88240	25670
	3. API Number **30-025-52782**

4. Property Code	5. Property Name	6. Well No.
335724	Javelina 34-25-37	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
G	34	25-S	37-E		2425	N	2422	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name	Pool Code
SWD, San Andres	96121

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	S	R	P	3010'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
	5184'	San Andres	to be determined	Upon C101 approval

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
85'	.46 Miles (CP 01097 POD1)	No surface water within two miles

☒**We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	13.50"	10.75"	45.5	890'	710'	0'
Production	8.75"	7"	26	5184'	660'	0'

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular & Rams	3000 psi	3000 psi	to be determined

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
Signature:

Printed name: Richard Hill
Title: SVP Engineering
E-mail Address: rhill@wellconsultant.com
Date: 1/28/2024 Phone: (405) 837-8147

OIL CONSERVATION DIVISION

Approved By: P Kautz
Title:
Approved Date: **04/16/2024** Expiration Date: **04/16/2026**
Conditions of Approval Attached

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
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 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	Pool Code	Pool Name
30-025-52782	96121	SWD, San Andres

Property Code	Property Name	Well Number
335724	JAVELINA 34 25 37 SWD	1

OGRID No.	Operator Name	Elevation
25670	BC & D OPERATING, INC	3010'

Surface Location

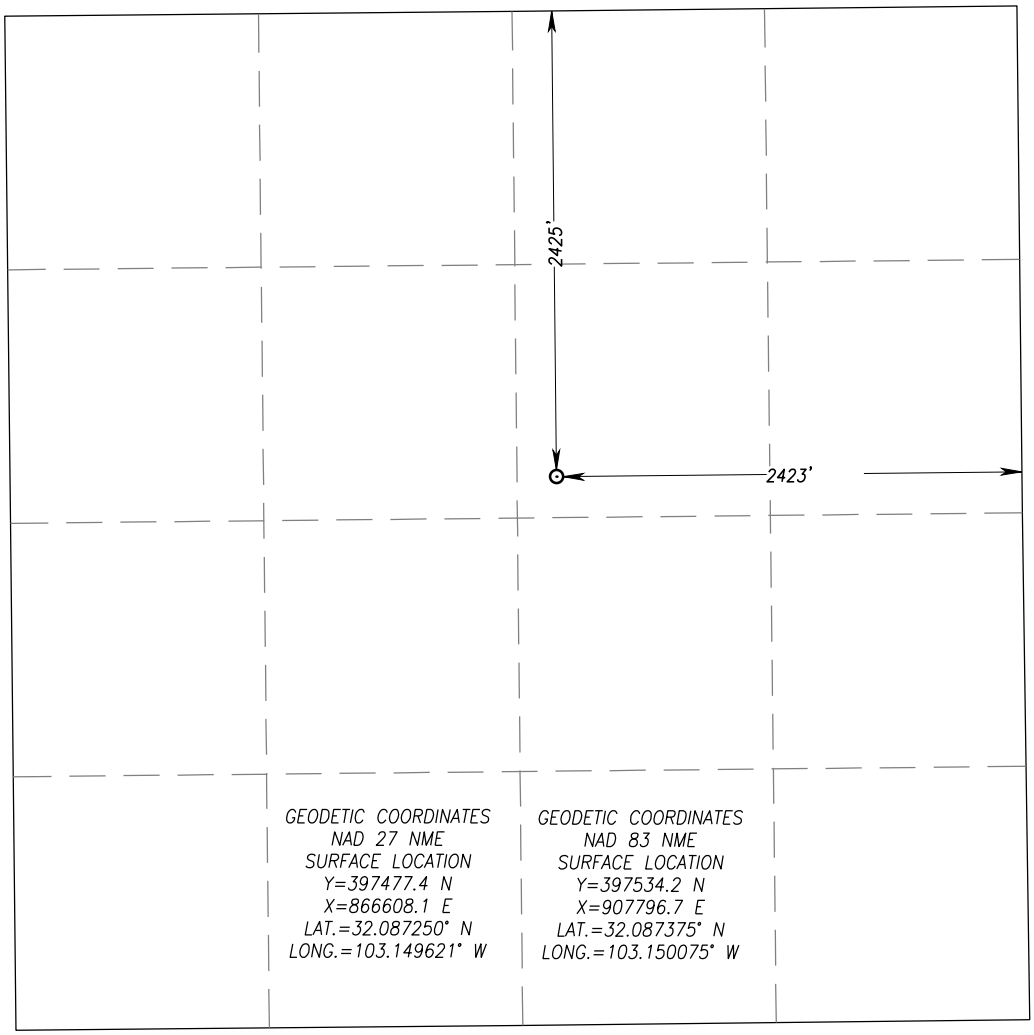
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	34	25-S	37-E		2425	NORTH	2422	EAST	LEA

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 Code	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



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 1/28/2024 Date

Richard Hill
Printed Name

rhill@wellconsultant.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 27, 2023
Date of Survey

Signature & Seal of Professional Surveyor:

GARY G. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

Gary G Eidson 01/05/2024
Certificate Number Gary G. Eidson 12641

ACK JWSC W.O.: 23.11.0401

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
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 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	Pool Code	Pool Name
	96121	SWD, San Andres

Property Code	Property Name	Well Number
	JAVELINA 34-25-37	1

OGRID No.	Operator Name	Elevation
25670	BC & D OPERATING, INC	3010'

Surface Location

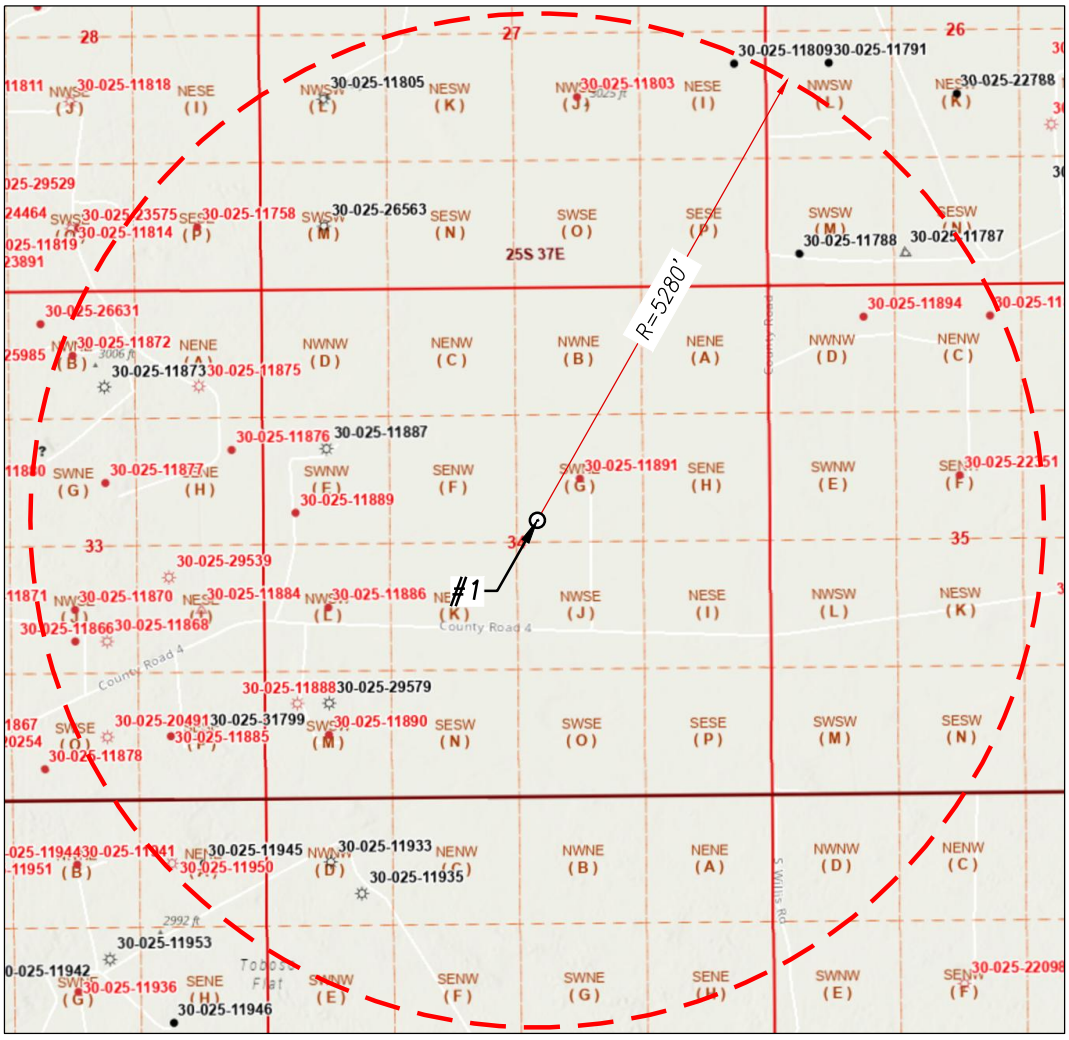
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	34	25-S	37-E		2425	NORTH	2422	EAST	LEA

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 Code	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



Scale:1"=2000'

LEGEND
⊙ DENOTES PROPOSED WELL

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 27, 2023
Date of Survey

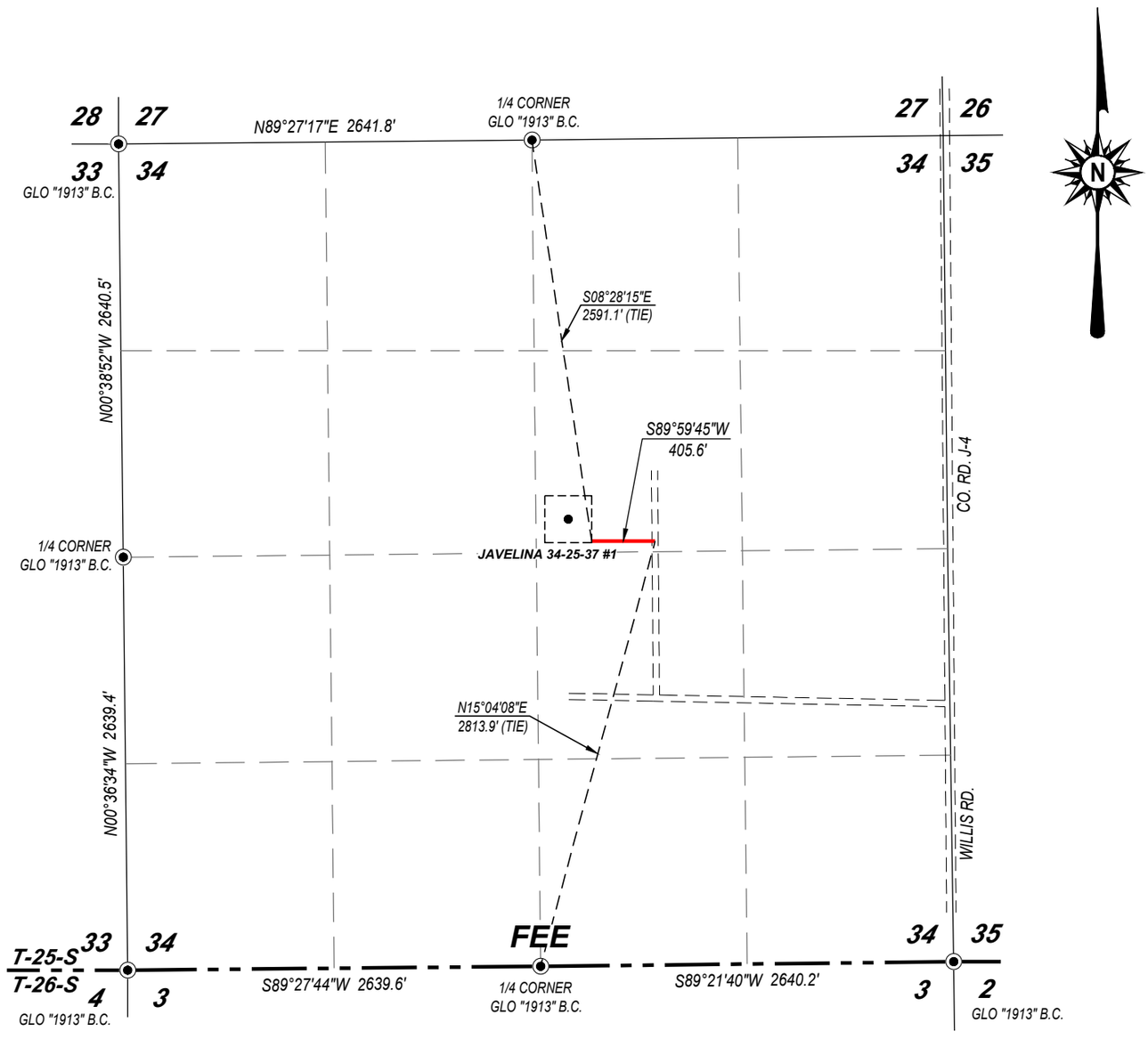
Signature & Seal of Professional Surveyor:

GARY G. EIDSON NEW MEXICO 12641 REGISTERED PROFESSIONAL SURVEYOR

Gary G Eidson 01/05/2024

Certificate Number Gary G. Eidson 12641

ACK JWSC W.O.: 23.11.0401



DESCRIPTION

SURVEY FOR AN ACCESS ROAD CROSSING SECTION 34, TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHEAST QUARTER OF SECTION 34, WHICH LIES N15°04'08"W 2813.9 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION; THEN S89°59'45"W 405.6 FEET TO A POINT IN THE NORTHEAST QUARTER OF SAID SECTION 34, WHICH LIES S08°28'15"E 2591.1 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 34.

TOTAL LENGTH EQUALS 405.6 FEET OR 24.58 RODS.

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, GARY G. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 12641, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Gary G Eidson

DATE: 01/05/2024

GARY G. EIDSON 12641 REGISTERED PROFESSIONAL SURVEYOR

LEGEND

- DENOTES FOUND CORNER AS NOTED
- DENOTES CENTERLINE SURVEY

1000 0 1000 2000 FEET

Scale:1"=1000'

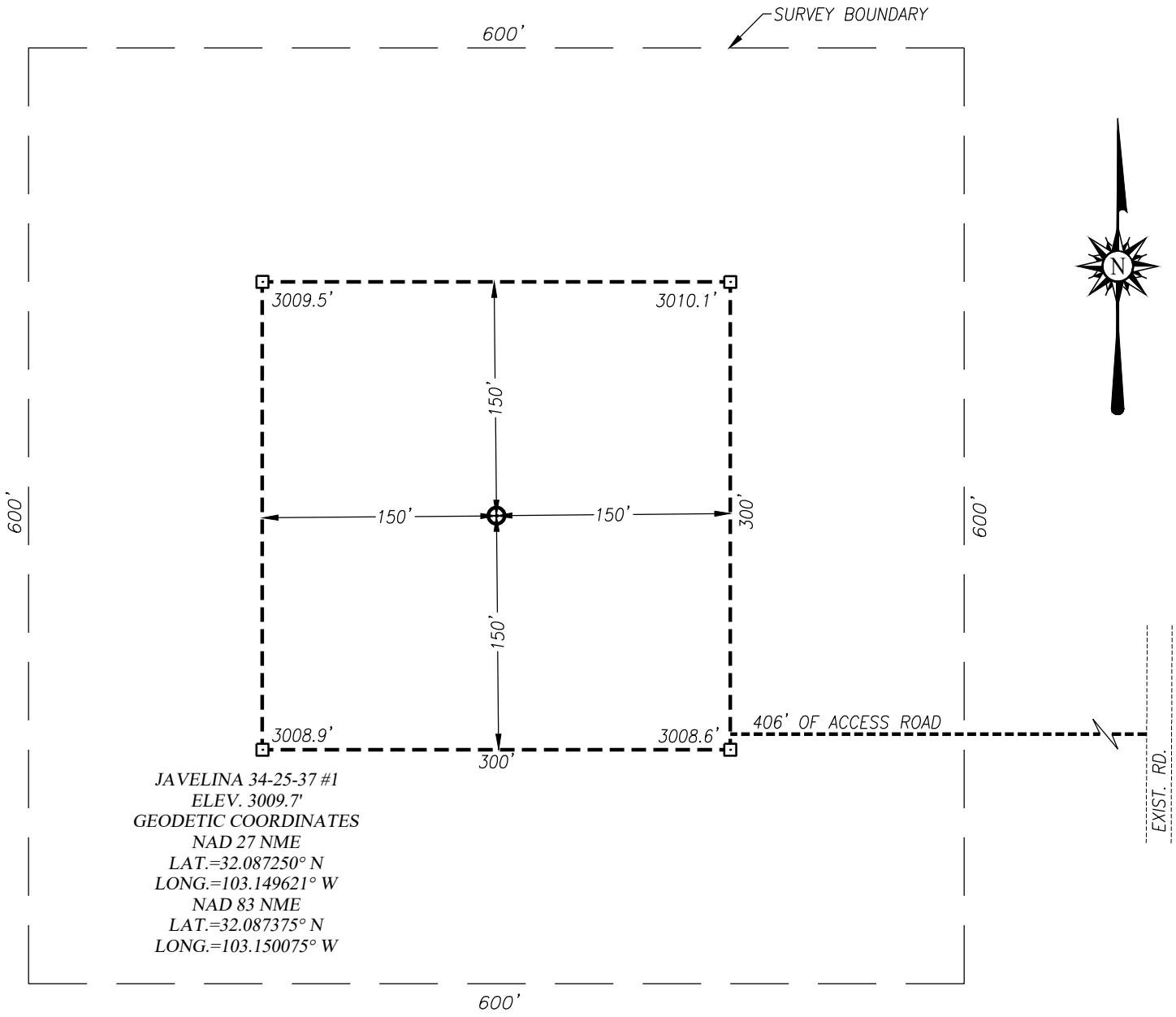
PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

BC & D OPERATING, INC

SURVEY FOR AN ACCESS ROAD TO THE JAVELINA 34-25-37 #1 WELL PAD CROSSING SECTION 34, TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO

Survey Date: 12/27/2023	CAD Date: 1/04/2024	Drawn By: ACK
W.O. No.: 23110401	Rev: .	Rel. W.O.:	Sheet 1 of 1

WELL SITE PLAN



JAVELINA 34-25-37 #1
ELEV. 3009.7'
GEODETIC COORDINATES
NAD 27 NME
LAT.=32.087250° N
LONG.=103.149621° W
NAD 83 NME
LAT.=32.087375° N
LONG.=103.150075° W

NOTE:
SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR ACCESS ROAD LOCATION.

I, GARY G. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 12641, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GARY G. EIDSON 12641 REGISTERED PROFESSIONAL SURVEYOR

Gary G Eidson

DATE: 01/05/2024

100 0 100 200 Feet

Scale: 1"=100'

BC & D OPERATING, INC

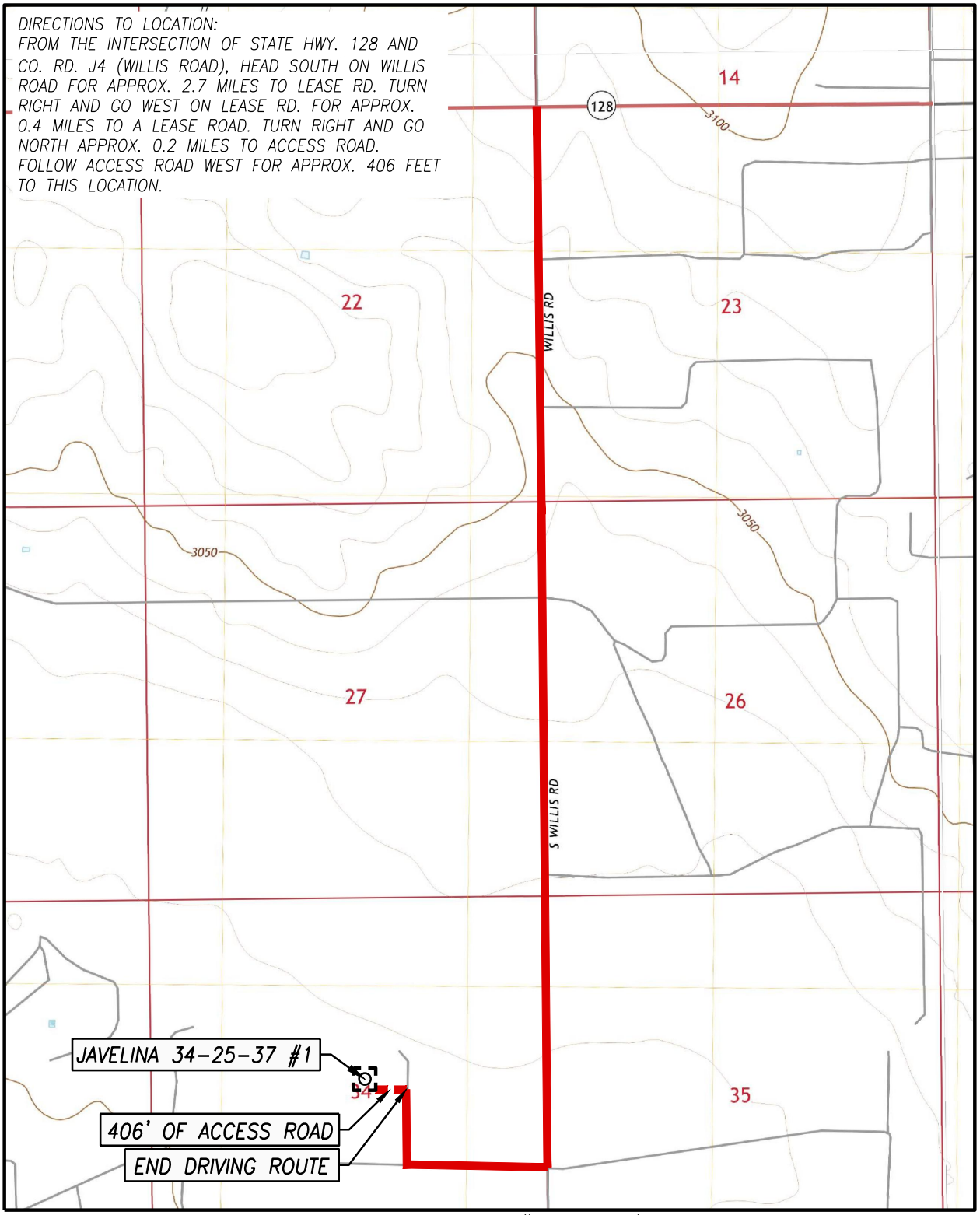
JAVELINA 34-25-37 #1 WELL LOCATED 2425 FEET FROM THE NORTH LINE AND 2422 FEET FROM THE EAST LINE OF SECTION 34, TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/27/2023	CAD Date: 01/03/2024	Drawn By: ACK	
W.O. No.: 23110401	Rev: .	Rel. W.O.:	Sheet 1 of 1

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

TOPOGRAPHIC AND ACCESS ROAD MAP

DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF STATE HWY. 128 AND CO. RD. J4 (WILLIS ROAD), HEAD SOUTH ON WILLIS ROAD FOR APPROX. 2.7 MILES TO LEASE RD. TURN RIGHT AND GO WEST ON LEASE RD. FOR APPROX. 0.4 MILES TO A LEASE ROAD. TURN RIGHT AND GO NORTH APPROX. 0.2 MILES TO ACCESS ROAD. FOLLOW ACCESS ROAD WEST FOR APPROX. 406 FEET TO THIS LOCATION.



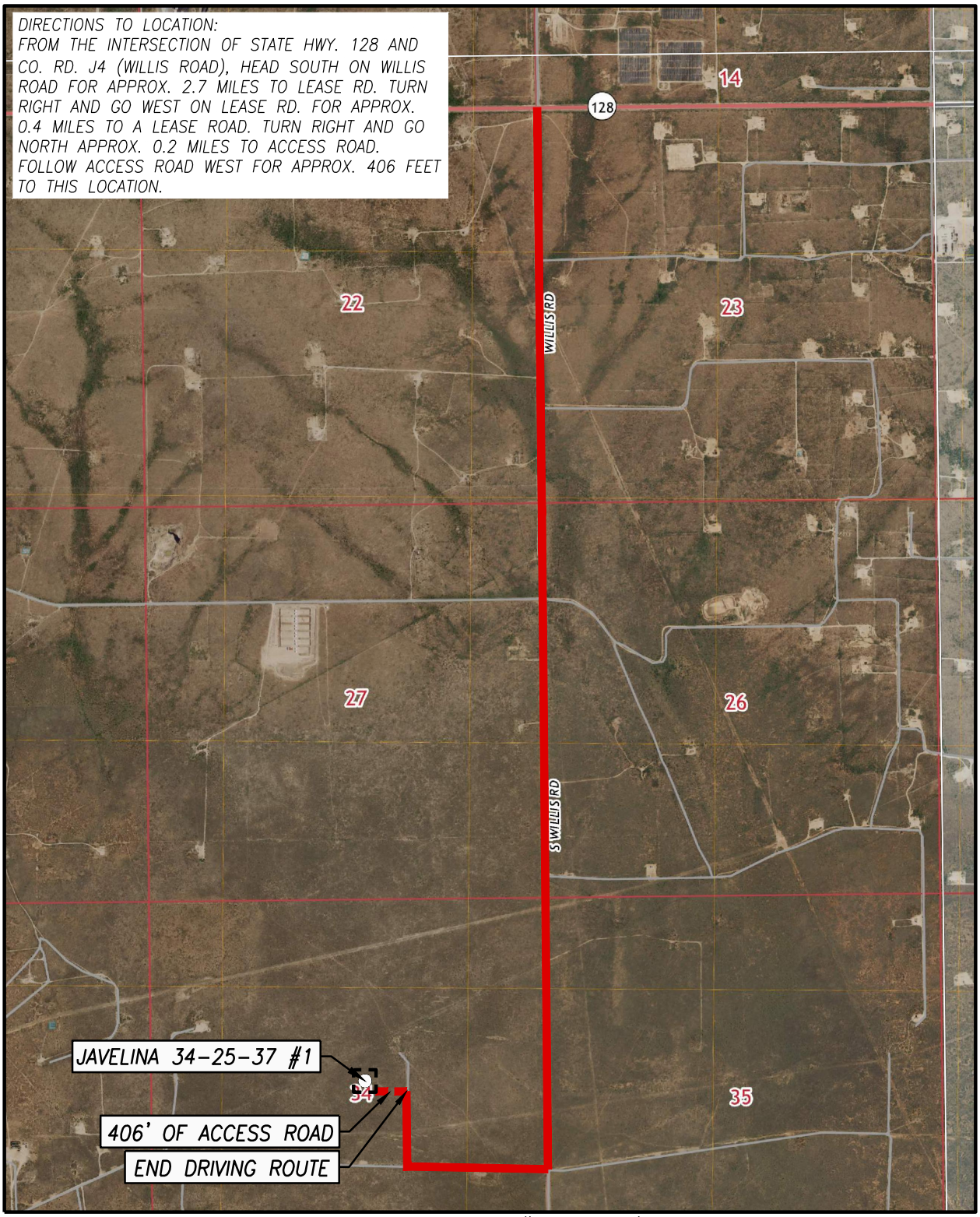
SEC. 34 TWP. 25-S RGE. 37-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 2425' FNL & 2423' FEL
ELEVATION 3010'
OPERATOR BC & D OPERATING, INC
LEASE JAVELINA 34-25-37
U.S.G.S. TOPOGRAPHIC MAP
JAL, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
JAL, N.M. – 10'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

TOPOGRAPHIC AND ACCESS ROAD MAP



SEC. 34 TWP. 25-S RGE. 37-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 2425' FNL & 2423' FEL
ELEVATION 3010'
OPERATOR BC & D OPERATING, INC
LEASE JAVELINA 34-25-37
U.S.G.S. TOPOGRAPHIC MAP
JAL, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

BC&D Operating, Inc.

2702 N Grimes ST B
Hobbs, New Mexico 88240
(405) 837-8147

Javelina 34-35-37 #1 SWD
Central BASIN Platform
DRILLING WELL PLAN
January 28, 2024

WELL INFO	**Well:** Javelina 34-25-37 #1 SWD	**Area:** East Jal	**AFE #**	**AFE COST:**
	County: Lea	**State:** New Mexico	**Rig:**	**RR COST:**
	API #	**Permit#**	**Permit Depth(TVD)** 5,184’	
	MD:	**TVD:**	**KB :** 12’	**GL Elev:** 3,039’ **KB Elev:**

LOCATION	**Survey:**	Section 26, Township 25S, Range 37E		
	Co-ordinates:	Latitude: 32.087250° N (NAD 27)	Longitude: 103.149621° W (NAD 27)	
	Surface:	Survey Lines: 2425’ FNL & 2422' FEL, Section 34	Lease Lines: 2425’ FNL & 2422' FEL, Section 34	
	Bottom Hole:	Survey Lines:	Lease Lines:	
	Directions:			

THIS WELL IS TO BE DRILLED WITH SAFETY AND PROTECTION OF THE ENVIRONMENT AS THE PRIMARY CONCERNS

Contacts:

Drilling Manager		
Drilling Engineer		
Drilling Superintendent		

Major Vendors:

Directional -	TBD	
Mud -	TBD	
Cement –	TBD	
Wellhead -	TBD	

BC&D Operating, Inc. POLICY

Regulatory/NMOCD:

- Post a copy of the Drilling Permit and GAU letter in the BC&D Operating Representatives Office.
- Notify NMOCD 24 hours prior spud time and date.
- Notify NMOCD 12 hours prior to running casing and cementing.
- Notify NMOCD of any cement plugging or sidetracking.

BC&D Operating, Inc. Policy Requirements:

1. **General**
   - Any changes to the approved drilling program must go through the Drilling Engineer and Drilling Supt.
   - All incidents and spills to be reported immediately and documented in morning report.
   - Hold a pre-spud meeting with key vendors and Drilling Engineer/Supt prior to spud.
   - Standing orders shall be posted at the Driller's Control Station.

2. **Safety Equipment**
   - Rig Fire Extinguishers in place at Rig-up. Engine kill switches/ water engine kill system in place and operational.
   - H2S Detection Equipment installed and Personnel Training by first nipple up.
   - Rotating Head installed on stack during first nipple up.
   - PVT system operational before spud.
   - Mud-Gas separator in service prior drilling out of 9-5/8" casing

3. **Drilling**
   - Lined up for a Soft Shut In.
   - Slow Pump Rates (SPR's) shall be obtained every 500' of hole drilled or mud weight change of 1 #/gal. 20/30/40 on both pumps.
   - Trip sheets shall be filled out for every trip in and out of the hole. BC&D Representative shall check the trip sheet to ensure accuracy. Any discrepancies to be reported to the BC&D Representative immediately. Trip sheets should be stored on location until the end of the well.
   - Barite stock levels must be able to accommodate weighting up the active system by 1ppg.
   - A tested Full Opening Safety Valve (FOSV) with proper thread in the open position with proper wrench must be on the rig floor during all operations. FOSV to be functioned each tour.
   - A tested inside grey valve must be on the floor and in the open position
   - All BHA tools shall be measured and drifted.
   - Reamers and bits need to be gauged w/ gauge ring in and out of hole.
   - All subs and cross over to be a minimum length of three feet.
   - Drill pipe and BHA will be tested to DS1 CAT 4 with shear wave every third well.
   - Corrosion inhibitor should be rigged up and running prior to spud.
   - All shock subs, jars, and motors should be inspected prior to spud.

4. **Casing & Cementing**
   - Fit test all circulating swages and circulating tools for casing operations.
   - Cement will **NOT** be pumped until an approved field blend test is available.
   - Two pump trucks required for every string of casing being cemented.
   - Wait a minimum of 4 hours on cement before making cuts and a minimum of 8 hours before drilling out.
   - Make sure to make proper accommodations for float equipment and x-overs to TDS before needing equipment. This should be ordered weeks in advance of running casing.
   - When running D.V. tool on production casing, circulate minimum of 4 hours after opening tool. No cancelation bomb will be required.

5. **Blowout Preventers**
   - Refer to BOP schematic.
   - Ref to manifold schematic.

6. **Testing**
   - Test BOP's every 21 days and function every trip (ensure on all trips this requirement is met).
   - Next test date to be posted in office and carried on report.
   - Test Hydril to 2500 psi.
   - Test BOP on 9-5/8" casing to 3000 psi high and 250 psi low. Test casing to 1500 psi for 30 minutes.
   - Casing/BOP tests should all be charted and forwarded to office.
   - All casing strings need to be tested third party and have chart documentation sent to the office.

7. **Reports must include the following.**
   - NMOCD spud notification, note the time, date, operator name and number.
   - Why we tripped, any tight spots, and noted depth.
   - Bit grade with pictures.
   - Motor specs must be reported along with issues upon laying down the motor.
   - Clean up cycles need to be documented and include what was coming back (with pictures).
   - Latest survey must be in email and time breakdown in morning report.
   - Report should show previous two BHA's in the event there is anything in question.

8. **Other**
   - When running wire line in open hole a pack off must be in place.

Key topics for this well:

- This is a San Adres SWD well with a projected measured depth of 5,184'.
- This is a two-casing string design well.
- Deviation control will be utilized.
- Verify all tools unloaded on location upon arrival including but not limited to float equipment, bits, wellhead, and all directional tools.
- Ensure 7" float equipment/D.V. Tool is on location prior to drilling.
- Cement water should be tested in tanks prior to the job, not the source.

Drilling Hazards:

1. **13-1/2" Surface Hole**
   - This area has a history of inert gas pockets. If encountered pick up off bottom, shut down rotary, open diverter line valve, shut hydril, leave pumps running and circulate through panic line to pit system.
   - Minimize GPM's until a depth of 500' has been reached to reduce risk of washing out conductor. Keep the cellar under surveillance during this interval.
   - Be cognizant of hole cleaning while minimizing GPM's.
   - This area is known for lost circulation and running sand.
   - Deviation.
   - Gumbo.

2. **8-3/4" Production Hole**
   - This area has a history of inert gas pockets. If encountered pick up off bottom, shut down rotary, open HCR, shut hydril, leave pumps running and circulate through panic line to reserve pit.
   - Be cognizant of hole cleaning, the salt section will be washing out.
   - Salt can build up in your lines and fitting causing blockage.
   - This area is known for lost circulation.
   - Deviation can occur in the interval.
   - The San Andres is a known salt water disposal interval from 3665' to 5000'. Water flows due to injection well could be present.
   - H2S is known to be present so all safety requirements and precautions need to be implemented.
   - Loss circulation will occur with mud weights in excess of 9.3 lb/gal.

1. Pre-Spud

- Hold pre spud meeting with rig and BC&D Operating, Inc. reps.
- Nipple up diverter system and function test.
- Review BC&D Operating, Inc. procedure for handling air pockets before spud.
- Do not spud until rig is 100% capable of drilling which includes having two pumps available. Also please note we will not accept the rig until all equipment has been installed appropriately (shaker slides/diverter/etc). There will be no fabrication to the rig done after acceptance as is should be done prior.
- Rig up H2S monitoring package before spud (cascade on surface-basic after surface is set).

2. 13-1/2" Surface Hole Drilling: 80' to 890'

Drilling Fluid System	Spud Mud: Low solids/non-dispersed
Products	Freshwater Gel, Soda Ash, Lime, Paper
Solids Control	Closed Loop
Potential Problems	Hole Cleaning. Formation losses. Red Bed Formation.

Depth (ft)	**Density** (lb/gal)	**Viscosity** (sec/qt)	**YP** (lb/100ft^2)	**API FL** (ml/30min)	**Cl-** (mg/L)	**pH**	**Solids** (% Vol)
80'-890'	8.4-9.6	32-34	2-4	NC		10	<6

- Start depth will be at ~80' below ground level (20" conductor) and 10' from rig floor.
- Pick up vertical drill out BHA as follows:

Item	**Qty**	**Dia (in)**	**Notes**		
PDC Bit	1	13.500"	U616S	TFA: 1.17	GPM: 600-900
Mud Motor	1	8.000"	1.50° Fixed Bend, 7/8, 4.0, .16 rev/gal		
Shock Sub	1	8.000"			
UBHO	1	8.000"			
MWD	2	8.000"			
Drill Collar	3	8.000"			
Drill Collar	6	6.000"			
HWDP	-	5.000"			
NOTE:					

- Tag cement, note depth in report.
- While circulating the closed loop system, drill out shoe track, note quality of cement in report. Limit top drive torque to less than nominal casing makeup torque.
- Drill at reduced parameters (350-400 gpm) due to conductor washout potential. After 8" collars are below conductor drill ahead with the following parameters.
- Recommended Parameters:

  - WOB: 20-50k
  - SRPM: 40-90 rpm
  - Flowrate: 600-900 gpm

- Maintain Mud properties per mud program.

- While drilling surface hole be sure to clean and drift all threads for surface CSG. Float collar and shoe will need to be thread-locked on connections.
- At TD, circulate hole clean while rotating and reciprocating pipe. Pump a dye sweep and keep track of strokes as a "fluid caliper" to estimate washout. Discuss potential hole volume with engineer as adjustments may need to be made to cement volumes.
- Check for flow, slug, and POOH.
- Hold a pre-job safety meeting with all personnel regarding casing running procedures and cementing operations
- Surface CSG needs to be set 50' deeper than the water-board. **REMEMBER DEPTH IS FROM GROUND LEVEL. Verify WBL, setting depth, and pipe tally with engineer at least 24 hours before TD .
- Rig up CSG crew and run 10.75" 45.5# J-55 LTC CSG as follows (bottom to top):

  - Round Nose Guide Shoe
  - One joint 10.75" CSG (Centralize 6' above shoe and 5' below collar).
  - PDC drillable single valve float collar.
  - 10.75" CSG to surface (Centralize every 3rd joint back to surface).

- Monitor displacement to trip tank at all times to ensure the well is not flowing. Displacement volumes should be calculated for the lengths involved at the time casing is run.
- Document CSG size, weight, grade, and connection on DDR as well as final hook load, torque ranges, max RPM when rotating (if applicable), and float shoe and collar depth.
- Verify the number of excess casing joints. Coordinate with Midland office on transferring excess casing joints back to the pipe yard. Complete Material Transfer form after casing running operation is finished.
- Tag bottom to confirm depths then reciprocate & circulate at least one CSG volume before pumping cement.
- Rig up cementers, test all lines, and pump job as follows

  - Pump 40bbls fresh water (NO BOTTOM PLUG)
  - Mix and pump cement as per program and displace with water.
  - Do not over-displace by more than half the shoe track volume and bump the plug with no more than 500 psi over circulating pressure.

- Note and record number of barrels of cement or spacer circulated to surface (if any), quality of returns (full, partial, none), and the final lift pressure / rate / TOC in Wellcore. If there are no cement returns to surface contact drilling supt ASAP.
- With CSG on bottom WOC for at least 1 hour while rigging down surface equipment.
- Slack off and ensure CSG is stationary
- Cut off riser and be sure to check wellhead spacing below, cut off CSG and N/D diverter.
- Top out cement if necessary
- Weld on "A" section. Weld outside only and test to 50% of collapse, if test fails, weld inside. Top of wellhead setting depth to be verified drilling supt.
- Nipple up BOP's and test to 250 psi low and 3,000 psi high with the *Hydrill to2,500 psi*. Test mud lines back to the pump to 3,000 psi.

3. 8-3/4" Production Hole Drilling: 870' to 5,184'

Drilling Fluid System	Brine/Cut Brine
Products	Freshwater Gel, Lime, Paper, Plug, Fiber, MF-55, PHPA/Freshwater Gel, Lime, Caustic Soda, Soda Ash, PermaSeal, Paper, Plug, Lignite, Pac-R, Cedar Fiber, Permaseal
Solids Control	Closed loop
Potential Problems	H2S, water flow, deviation, lost circulation and gas.

Depth (ft)	**Density** (lb/gal)	**Viscosity** (sec/qt)	**YP** (lb/100ft^2)	**API FL** (ml/30min)	**Cl-** (mg/L)	**pH**	**Solids** (% Vol)
870'-3,500'	10	29-30	N/A	NC	160K	10.5	<2
3,500'-5,184'	10	30-31	N/A	10-12	160K	10.5	<6

- Pick up vertical drill out BHA as follows:

Item	Qty	Dia (in)	Notes		
PDC Bit	1	8.750”	U716M	TFA:1.37	GPM: 600-900
Mud Motor	1	6.750”	1.50° Fixed Bend 7/8, 5.0, .28 rev/gal		
UBHO	1	6.000”			
MWD	1	6.000”			
Drill Collar	1	6.000”			
Drill Pipe	-	5.000”			
-	-	-			
-	-	-			
NOTE: 15 joints HWDP to follow 6.5” DC’s.					

- Tag cement, note depth in report.
- While circulating the closed loop system, drill out shoe track, note quality of cement in report. Limit top drive torque to less than nominal casing makeup torque.
- Recommended Parameters:

  - WOB: 20-50k
  - SRPM: 40-90 rpm
  - Flowrate: 600-900 gpm

- Maintain Mud properties per mud program.
- While drilling production hole be sure to clean and drift all threads for production CSG. Float collar and shoe will need to be thread-locked on connections.
- At TD, circulate hole clean while rotating and reciprocating pipe.
- Check for flow, slug, and TOOH 10 stands. If no excessive drag or tight hole start laying down drill pipe.
- Hold a pre-job safety meeting with all personnel regarding casing running procedures and cementing operations
- Verify setting depth, and pipe tally with engineer at least 24 hours before TD.
- Rig up CSG crew and run 7” 26# HCL-80 LTC CSG as follows (bottom to top):

  - Round nose guide shoe.
  - One joint 7” CSG (Centralize 6’ above shoe and 5’ below collar).
  - PDC drillable single valve float collar.
  - 7” CSG to D.V. Tool at 3,737’ (Centralize every other joint).
  - D.V. Tool
  - 7” CSG to surface (centralize every 3 joints back to surface).
  - Make up LTC casing to recommended specification.

- Monitor displacement to trip tank at all times to ensure the well is not flowing. Displacement volumes should be calculated for the lengths involved at the time casing is run.
- Document CSG size, weight, grade, and connection on DDR as well as final hook load, torque ranges, max RPM when rotating (if applicable), and float shoe and collar depth.
- Verify the number of excess casing joints. Coordinate with Midland office on transferring excess casing joints back to the pipe yard. Complete Material Transfer form after casing running operation is finished.
- Tag bottom to confirm depths then reciprocate & circulate at least one CSG volume before pumping cement.
- Rig up cementers, test all lines, and pump job as follows

  - Pump 40bbls fresh water (NO BOTTOM PLUG)
  - Mix and pump 1st and 2nd stage cement as per program and displace with water.
  - Do not over-displace by more than half the shoe track volume and bump the plug with no more than 500 psi over circulating pressure.

- Note and record number of barrels of cement or spacer circulated to surface (if any), quality of returns (full, partial, none), and the final lift pressure / rate / TOC in Wellcore.
- Check well for flow, lift stack, set slips with the weight of casing after cement job.
- Install tubing 7-1/16" 5K tubing head and test to 50 % of collapse.

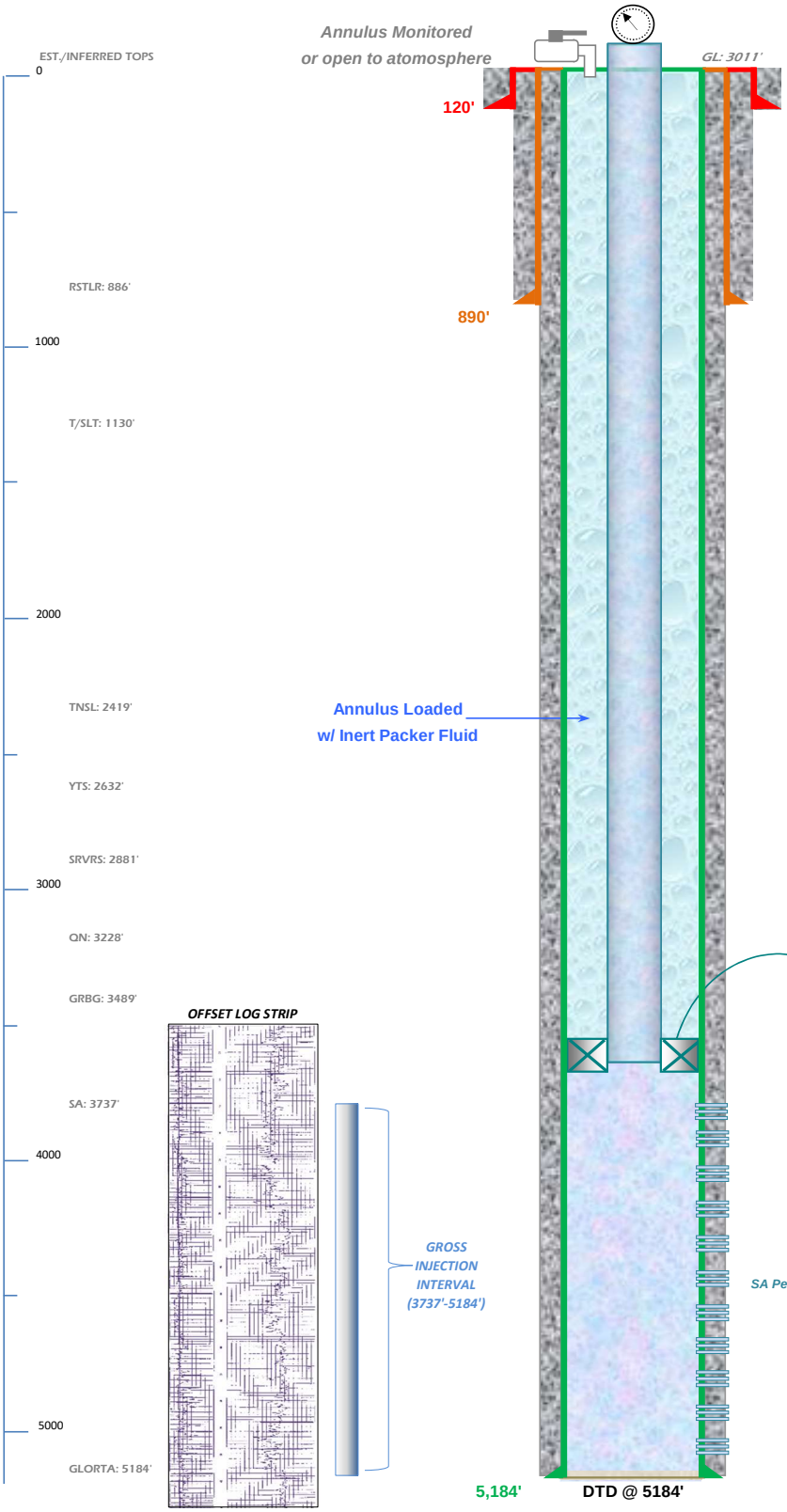
WELL SCHEMATIC - PROPOSED
Javelina 34-25-37 SWD #1

SWD; San Andres (96121)

API 30-025-xxxxx

2425' FNL & 2422' FEL, SEC. 34-25S-R37E
LEA COUNTY, NEW MEXICO

Spud Date: ~4/15/2024
Config SWD Dt: ~5/01/2024



Injection Pressure Regulated
and Volumes Reported
747 psi Max. Surface (0.2 psi/ft)

Conductor Casing
20.0" Csg. (24.0" Hole) @ 120'
8 yds - Surface

Surface Casing
10.75", 45.5# K-55 Csg. (13.5" Hole) @ 890'
310 sx - Circulated to Surface

BC&D OPERATING, INC.

Drill and Complete New SWD:
Drill and set casing as shown (25%-50% excess Cmt).
Perforate interval w/ 4-8 jspf.
Acidize w/ up to ~15,000 gals 15% HCl
Run PC Tubing and PKR - Conduct Witnessed MIT.
Commence Disposal Operations.
File all appropriate sundries and C-105 Completion Report.

4.5" IC Tubing (or smaller)
PKR ~3637'+
Note: PRK Set 100' Above Final Uppermost Perf Interval.

Production Casing
7.0", 26.0# L-80 Csg. (8.75" Hole) @ 5,184';
700 sx 'C' - Calc'd to Circ.

Drawn by: Ben Stone, 11/12/2023

SOS Consulting, LLC

GEOLEX INCORPORATED

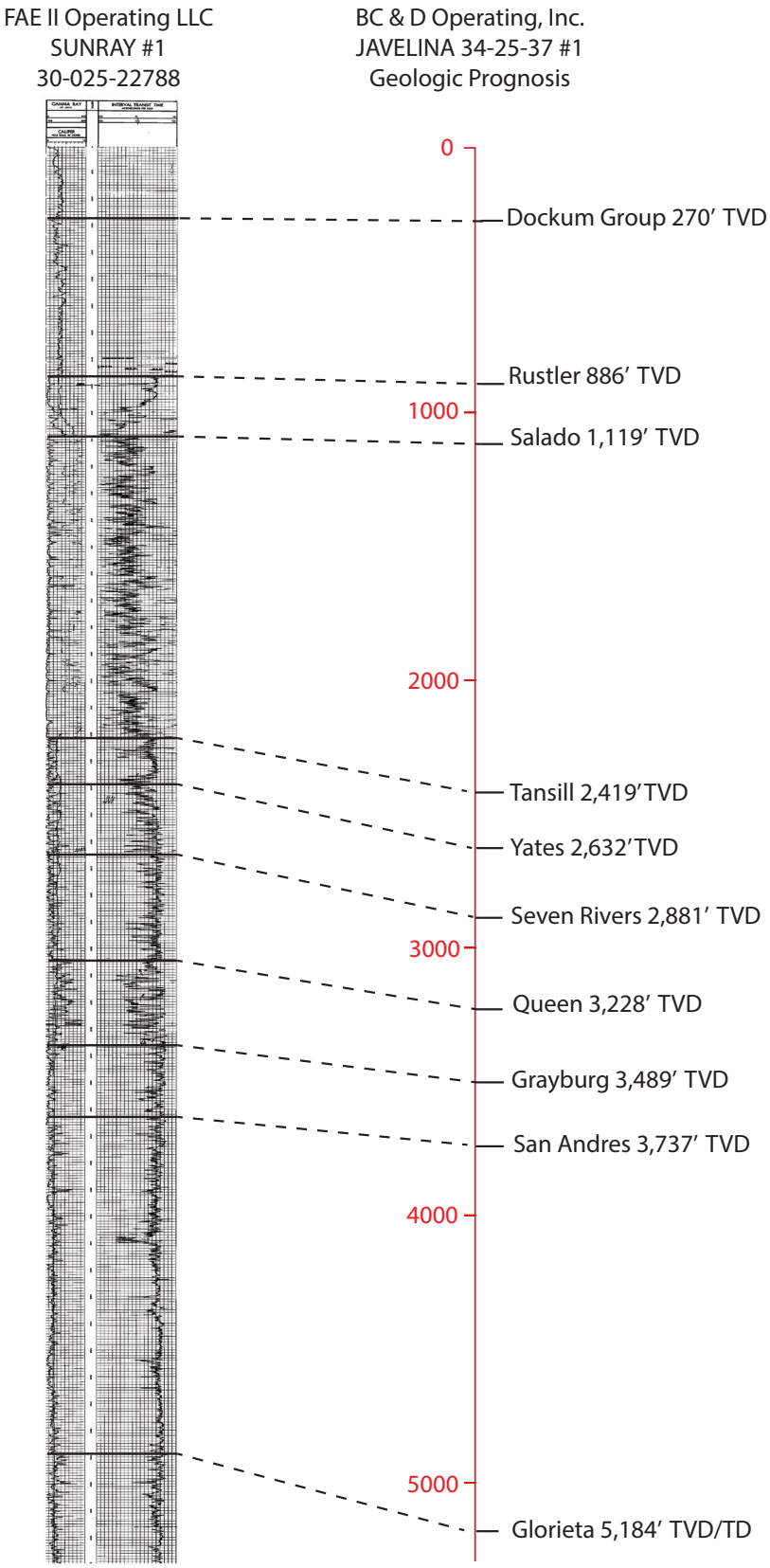


Figure 6. Geologic prognosis formation tops for the proposed Javelina 34-25-37 #1, based on the nearby Sunray #1 well (API 30-025-22788) type log.

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
District IV
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

CONDITIONS

Action 308687

CONDITIONS

Operator: BC & D OPERATING INC. 2702 N. Grimes ST B Hobbs, NM 88240	OGRID: 25670
	Action Number: 308687
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	MUST SUBMIT DEVIATION SURVEY WITH C-105	4/15/2024
pkautz	Cement is required to circulate on both surface and production strings of casing	4/15/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	4/15/2024
pkautz	Notify OCD 24 hours prior to casing & cement	4/15/2024
pkautz	MUST COMPLY WITH ALL COA'S IN ORDER SWD 2512.	4/15/2024