TPIT-SDP149-01

Salado Draw Reserve Pit
SD 14 Fed P149
Temporary Pit
Permit Application
Appendix D Design and Construction Plan
Addendum

Chevron USA Inc
September 16, 2020

LucasKamat, Susan, EMNRD

From: Fisher, Jonathon D <JonathonFisher@chevron.com>
Sent: Wednesday, September 16, 2020 11:58 AM
To: LucasKamat, Susan, EMNRD
Cc: Bridge, Cas; Chu, Jacob N; Tozzi, Mark J; Verner, Frederick C; Fuller, Christopher Gabriel
Subject: [EXT] Chevron USA Incorporated Temporary Pit Application Design and Construction Plan Addendum
Attachments: Chevron_Salado_Draw_Pad_419_C144_Design&Construction_Addendum.pdf

Susan,

As discussed on the phone, please find the attached addendum for Appendix D – Design Plan of the C-144 for Salado Draw P419. Let me know if you have any further questions.

Thanks,

Jonathon Fisher
Wells Engineer
Chevron Mid-Continent
1400 Smith St | Rm 43134 | Houston, TX
Office: (713) 372-0005 | Mobile: (281) 221-1455
JonathonFisher@chevron.com

September 16, 2020

New Mexico Oil Conservation Division
Energy, Minerals, and Natural Resources Department
5200 Oakland Avenue
Albuquerque, NM 87113

Via Electronic Submittal

RE: Chevron USA Incorporated Temporary Pit Application Design and Construction Plan Addendum

Susan Lucas Kamat,

Enclosed is an addendum to the Design and Construction Plan for the C-144 permit application for a Temporary Pit with non-low chloride drilling fluid at an existing Chevron USA Inc. BLM lease #NMNM118722 located in Section 15, T26S R32E. The addendum highlights Chevron's commitment to upholding 19.15.17 NMAC.

Please utilized this supplement along with the C-144 in your review of Chevron's proposal. Let me know if you have further questions.

Sincerely,

Jonathon Fisher
Wells Engineer
JonathonFisher@chevron.com

Chevron USA Incorporated
Chevron USA Inc.
6301 Deauville Blvd
Midland, TX 79706
Tel 432 687 7866

Appendix D – **Design Plan - Addendum**

Temporary Pit containing non-low chloride fluids

Salado Draw P419 Pit

Section 15, T26S, R32E

Appendix D – Design Plan
Salado Draw P419 Pit
Temporary Pit

The Operator will design and construct the temporary pit to contain liquids and solids; prevent contamination of fresh water; and protect public health and the environment. The Design and Construction will follow the requirements listed below:

- The topsoil will be stripped and stockpiled prior to construction for use as the final cover during closure.
- A sign, consistent the requirements of 19.15.16.8 NMAC, will be utilized and made viewable at the location of the pit.
- Fencing will be in place around the perimeter of the pits and the Operator will ensure it remains in good repair until closure.
- Netting will not be installed on the temporary pit; however, the operator will inspect for and report any discovery of dead migratory birds or other wildlife while the pit contains fluid and is in use.
- The design of the pit, including the berms, geomembrane material, and construction notes below, is intended to ensure the confinement of liquids to prevent releases.
- The subgrade and interior slopes will be screened for deleterious materials and rocks and will be suitable for the liner installation. An underlying geotextile may be used to provide additional protection from puncture or stress cracking.
- The slopes of the pit will be constructed at a two horizontal to one vertical foot ratio.
- A 40-mil HDPE liner resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions, and ultraviolet light will be installed in the pit. Liner compatibility will comply with EPA SW-846 Method 9090A. Technical data sheets for the liner material can be found in *Variance Request 2 of 2 – Proposed Use of High-Density Polyethylene (HDPE) Liner for Temporary Pit in lieu of Linear Low-Density Polyethylene (LLDPE) Liner.*
- Liner seams will be minimized as is practical during construction and will only be oriented up and down a slope. When field welding the liner seams, the liner will overlap a minimum of 4 inches and a maximum of 6 inches. Welds will be minimized in corners and irregularly shaped area. Welds will only be performed by qualified personnel.
- Construction will avoid excessive stress-strain on the liner by screening the subgrade for deleterious materials and rock and using geotextile where needed, utilized experienced personnel for the installation of the liner, taking care when unrolling liner material and limiting the use of any machinery that could damage the liner.

- The edged of the liner will be anchored in the bottom of a compacted earth field trench that is 18 inches deep.
- Impingement of liquids onto the liner will be prevented by use of a loose hose discharge method. The design ensures fluid enters a malleable section of hose laying on the pit berm prior to entering the pit preventing direct impingement.
- The design includes a 4 foot berm and bar ditch around the entirety of the pit to prevent run on of surface water. The berm will be maintained from construction to closure.
- The volume of the temporary pit is 6.6 acre-ft including freeboard.
- No venting or flaring of gas will take place during the construction, use, and closure of the pit and, as such, the entirety of the pit will be lined.

Construction Work Package

CWP #: 1	Date Printed: 6/24/2020

1.0 Scope

Construction of 4-well below "megapad" and associated access roads, and drilling reserve pit.

- 20ft wide roads ~900'
- Actual Pad dimensions are 690'x480'
- Construction of drilling reserve pit

A onecall will need to be initiated by the contractor. Once onecall is received by Chevron, a dig plan will be completed and sent for approval. Please allow one week from time onecall is initiated to dig plan approval.

Contracting Plan

Contract Type	Contractor	Contact Information
Unit Rates	Sweatt	
T&M (if not defined in unit rates)	TBD	

2.0 Location

Facility	Salado Pad 419			
Pad 419	LAT	32.037268	LONG	-103.657465

3.0 Execution Plan

Well Pad (Pad 419):

Contractor will construct one four well 'megapads' with drilling reserve pit

- Clear and complete subgrade for two 690'x480' pads according to standards in the master service agreement including the 6" caliche cap.
- Construct drilling reserve pit according to standard drawing attached. Reserve pit will overlap pad by 100'
- Walking areas specified in drawings shall be brought to compaction as per Geotech recommendations.
- Silo area to be compacted to the same compaction requirements as the walking area.
- Caliche shall be watered and compacted to obtain a smooth surface that will drain rainwater without ponding
- Chevron construction rep to call out cellar/conductor. The layout for each well is attached.

Road:

- Construct 900 ft of 20-ft wide access road according to the drawings.

Construction Work Package

CWP #: 1	Date Printed: 6/24/2020

Chevron Scope:

- Conduct geotechnical work and provide geotechnical report to contractor for strong back compaction

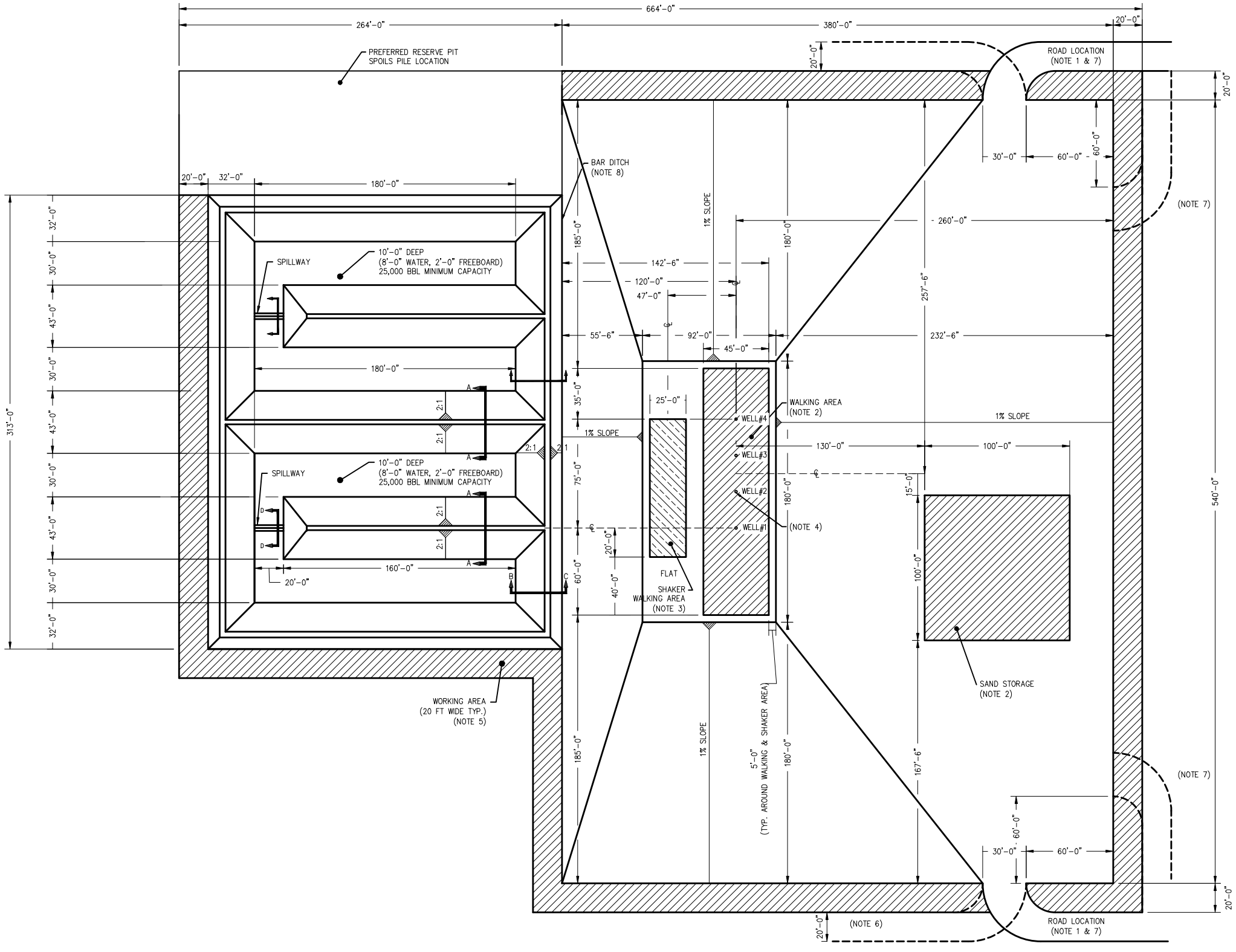
4.0 Materials

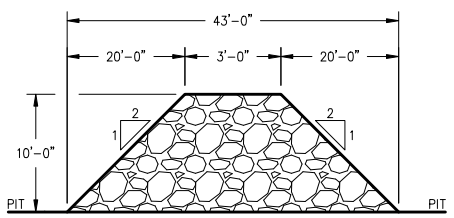
4.1 Chevron Order

All materials will need to be provided by the Contractor.

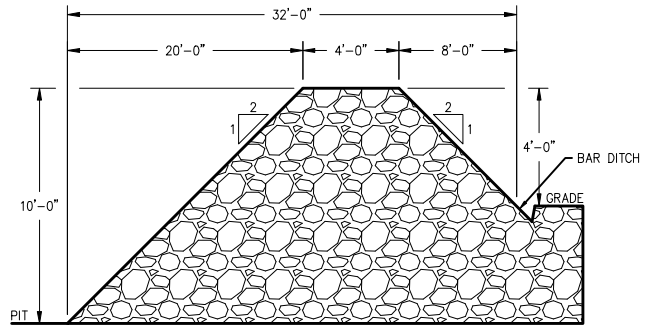
5.0 Project Drawings & Figures

5.1	Factory Standard 4-Well Pad Plan, Open Loop	
5.2	Dimension Plat - New Disturbance	
5.3	Dimension Plat - Reserve Pit	

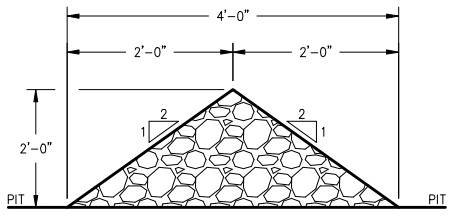




SECTION A-A
NOT TO SCALE



SECTION B-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE

NOTES:
1. PRIMARY PAD ENTRANCE MUST BE ON WEST OR EAST SIDE OF PAD FOR DRILLING LAYOUT.
2. SEE GEO-TECHNICAL INVESTIGATION REPORT FOR COMPACTION RECOMMENDATION. SEE DRILLING MAT LAYOUT FOR DETAILS.
3. SHAKER WALKING AREA IS REQUIRED WHEN USING NABORS M800 SERIES DRILLING RIG.
4. FOR COMPLETIONS GRAVEL LOCATIONS, SEE DWG. FACTSTD-COMGRVL-CIV-PVD-MCB-0001-01.
5. SHADED WORKING AREA IS NOT A PART OF THE PERMITTED PAD. PERMITTED PAD AREA IS 540 FT X 380 FT FOR A 3 WELL PAD.
6. ROAD CAN COME FROM EITHER THE NORTH OR SOUTH DIRECTION DEPENDING ON LEASE ORIENTATION.
7. SECONDARY ACCESS ROAD IS REQUIRED FOR COMPLETIONS DRIVE-THROUGH. SECONDARY ACCESS ROAD CAN BE EITHER ON EAST/WEST EDGE OF PAD OR SOUTH EDGE OF PAD, BUT MUST BE OPPOSITE OF PRIMARY PAD ENTRANCE (REF. NOTE 1) FE MUST CONSULT D&C ADVISOR TO COMPLETE PMOC IF SECONDARY ROAD IS NOT FEASIBLE.
8. 1FT. X 1FT. BAR DITCHING TO BE PROVIDED BETWEEN PAD AND RESERVE PIT, DITCH WILL BE FILLED WITH 1" CLEAN ROCK.
9. 6 LOADS OF ROCK FOR DRILLING TRAILERS & DITCH COM ROCK DROPPED IN NEW CORNER.

80' 40' 0' 20' 40' 60' 80'

SCALE: 1"=40'

MAGNETIC NORTH

PLOT DATE: 06/20/2019, FILE NAME: CIV008-FACTSTD-4WPADOPN-CIV-PVD-MCB-0001-01

LEASE NUMBER *

API NUMBER

ALTERNATE DWG NUMBER

SHEET CIV008

REVISIONS

1	2019 DESIGN BASIN DESIGN, DRF 19249 JLH 06/21/19	′	′	4			7	
2				5			8	
3				6			9	

AFC
APPROVED FOR CONSTRUCTION

Chevron U.S.A. Inc.

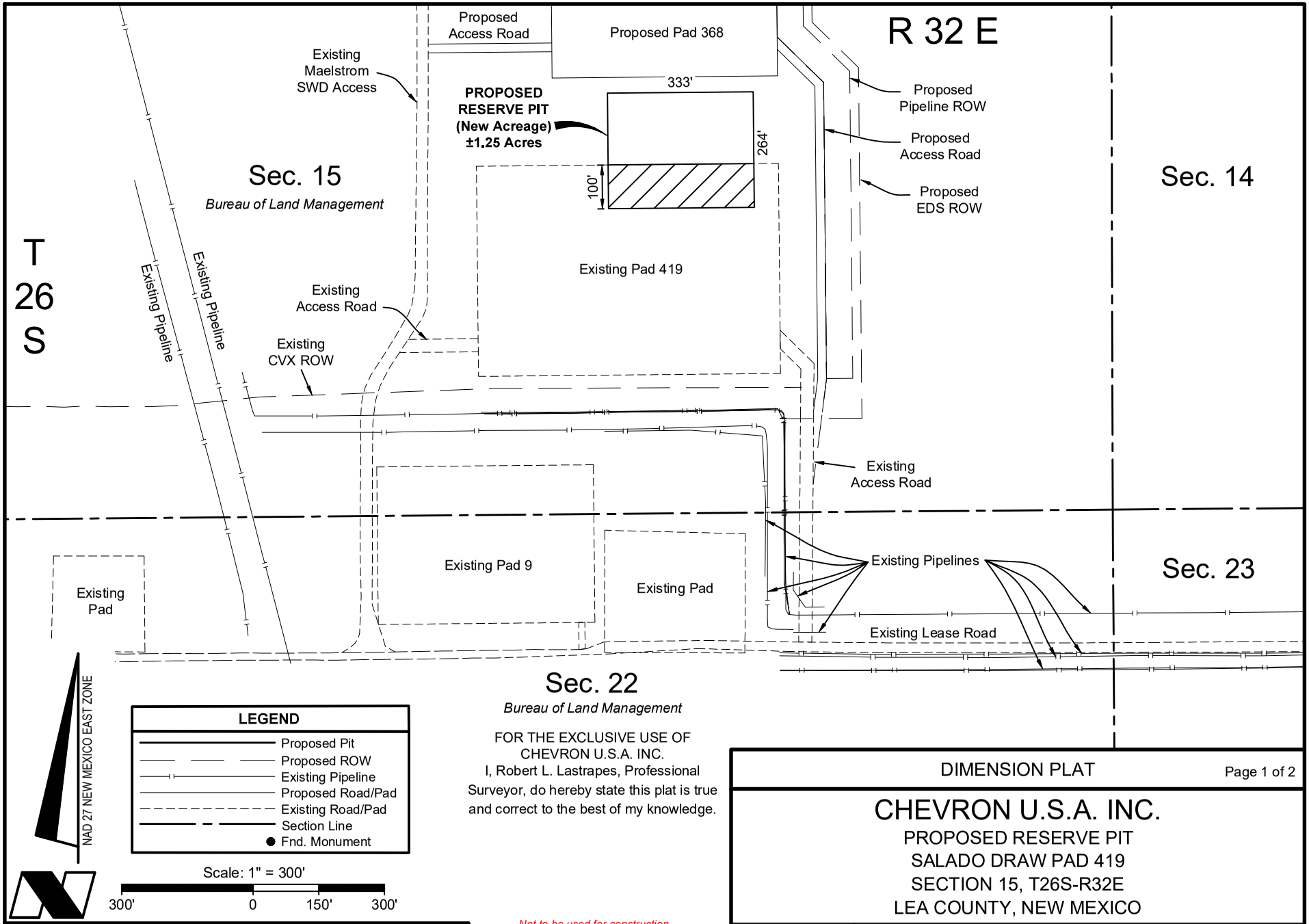
FACTORY STANDARD DRAWINGS
PROJECT DESCRIPTION – COUNTY, STATE

CIVIL – FACTORY STANDARD 4 WELL PAD PLAN – OPEN LOOP

DR. JLH
ENG. KVPY

FACTSTD-4WPADOPN-CIV-PVD-MCB-0001-01

10



FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

DIMENSION PLAT

CHEVRON U.S.A. INC.

PROPOSED RESERVE PIT
SALADO DRAW PAD 419
SECTION 15, T26S-R32E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

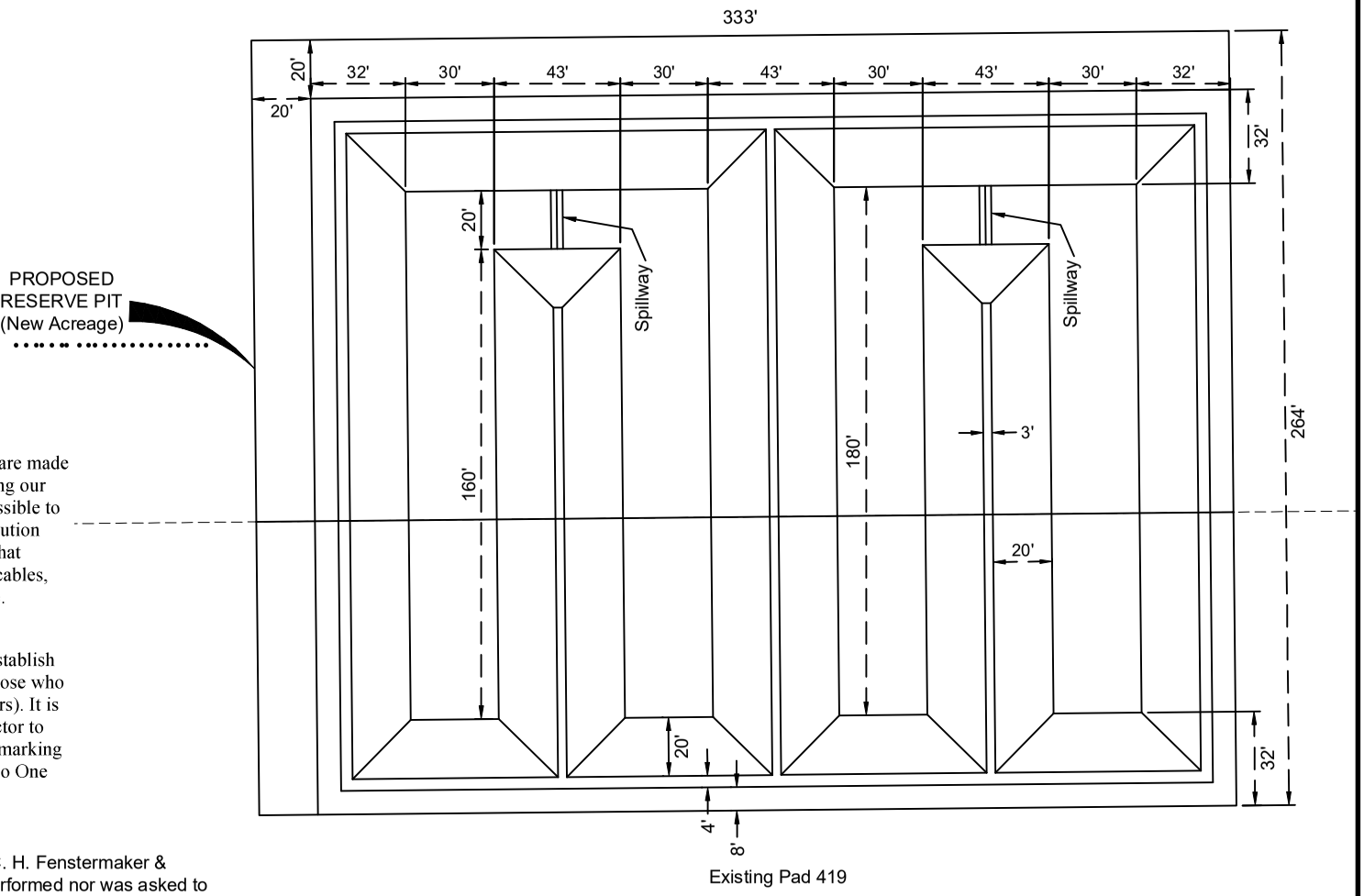
Not to be used for construction, bidding, recordation, conveyance, sales, or engineering design.

PRELIMINARY

Robert L. Lastrapes
Registration No. 23006

	REVISIONS			
DRAWN BY: RMB	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV				
DATE: 06/24/2020				

FILENAME: T:\2019\2190459\DWG\Salado Draw Pad 419 Reserve Pit_Dimensions.dwg



Existing Pad 419

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nm811.org

NAD 27 NEW MEXICO EAST ZONE

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

Scale: 1" = 60'

60' 0 30' 60'

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
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PRELIMINARY

Robert L. Lastrapes
Registration No. 23006

DIMENSION PLAT

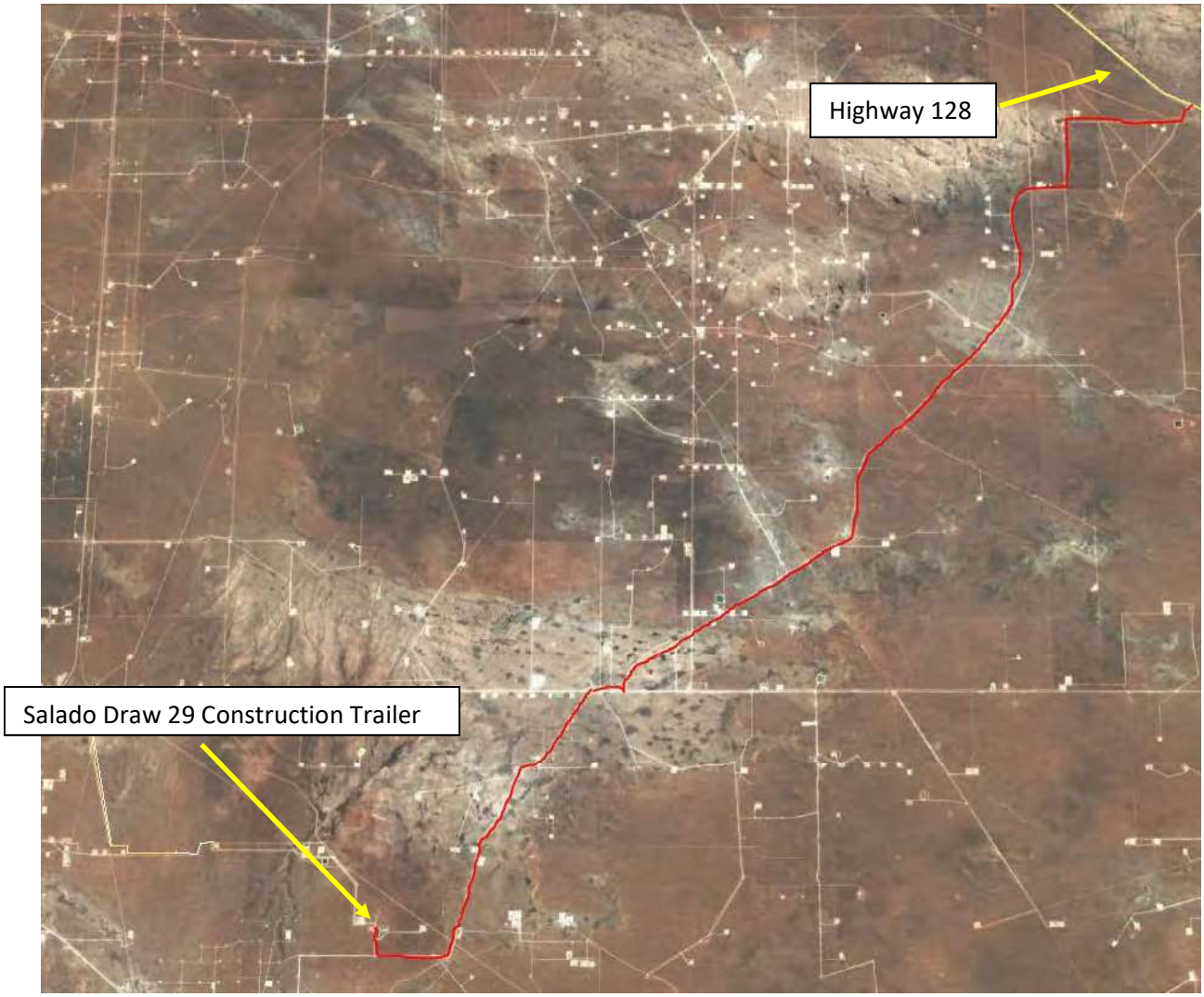
CHEVRON U.S.A. INC.

PROPOSED RESERVE PIT
SALADO DRAW PAD 419
SECTION 15, T26S-R32E
LEA COUNTY, NEW MEXICO

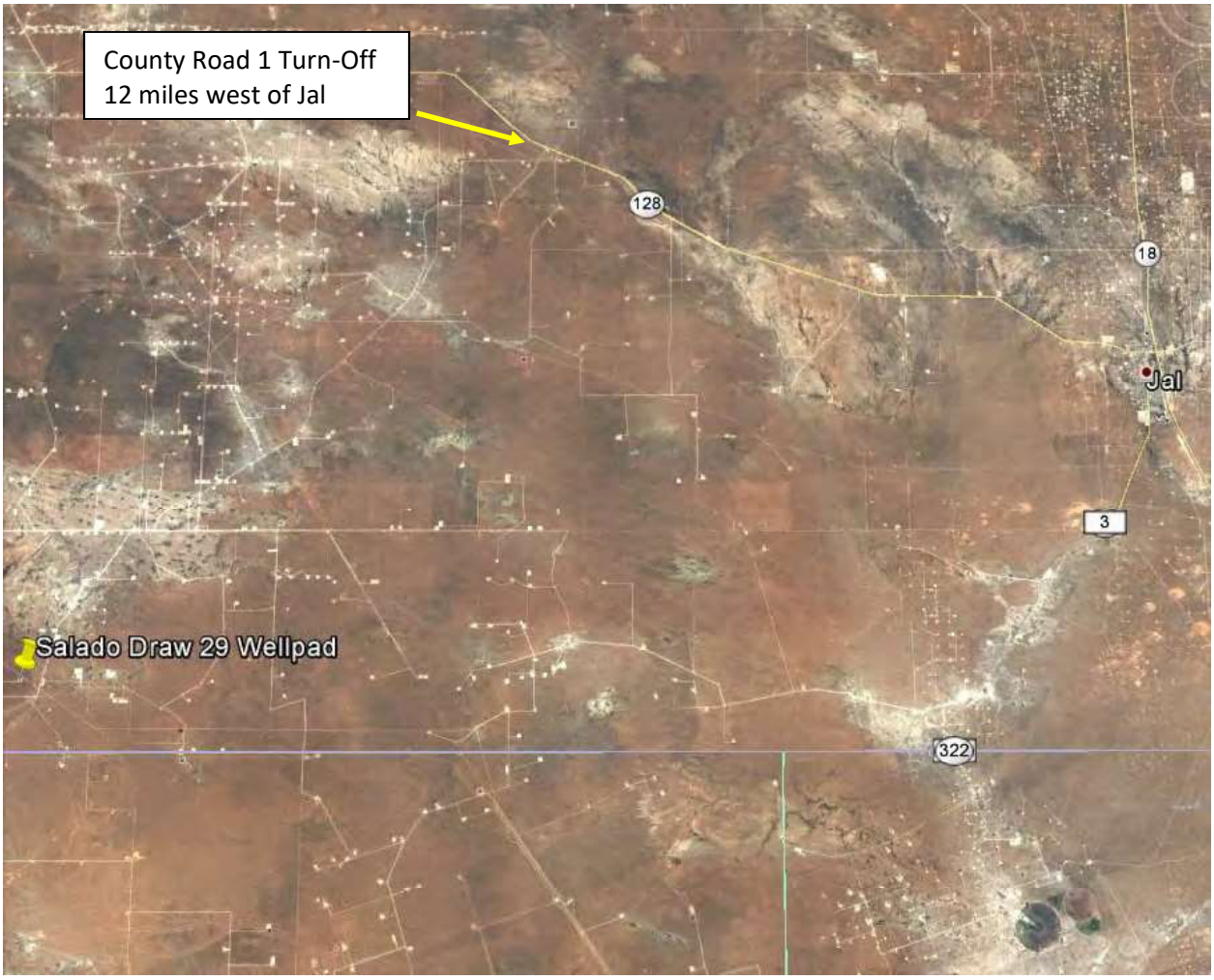
	REVISIONS			
DRAWN BY: RMB	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV				
DATE: 06/24/2020				

FILENAME: T:\2019\2190459\DWG\Salado Draw Pad 419 Reserve Pit_Dimensions.dwg

Salado Draw
Driving Directions



Salado Draw
Driving Directions



Head West out of Jal, NM

- Continue for roughly 13 miles, turn left (south) onto County Road 1 (Battle Axe Road)
- Continue on Battle Axe Road for roughly 18 miles, before turning right into the Salado Draw development. There will be a sign “Chevron Salado Draw Development” on the lease road.
- Continue up the road ½ mile to reach the Salado Draw Construction Trailer.

GPS: 32.022717, -103.604360

Delivery Contacts:
Art Strickland – 361-500-2217
Jason Bobo – 903-738-9435