BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : **5,000 psi**

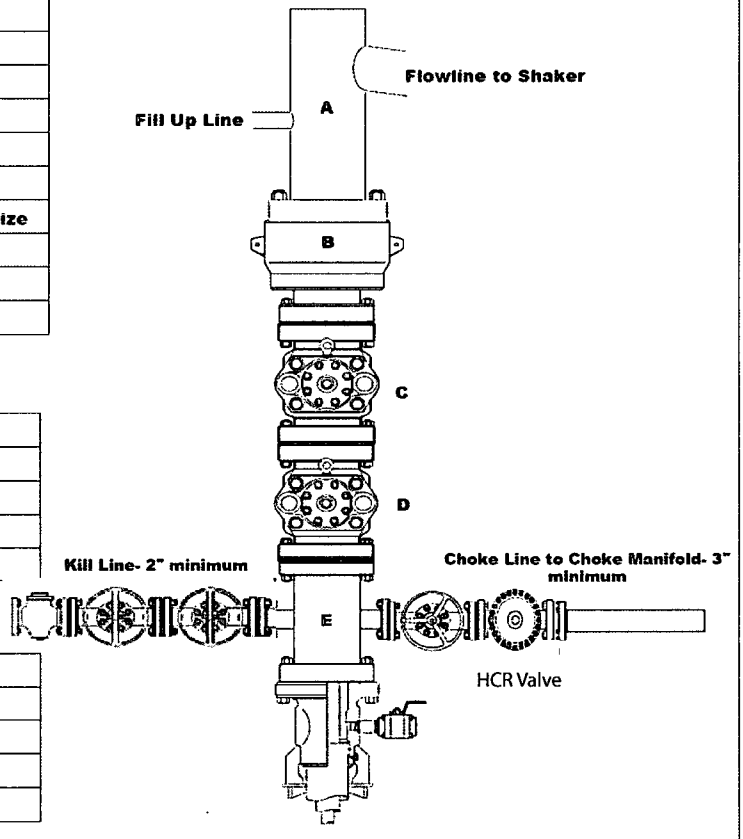
	SIZE	PRESSURE	DESCRIPTION
A		N/A	Bell Nipple
B	13 5/8"	5,000 psi	Annular
C	13 5/8"	5,000 psi	Pipe Ram
D	13 5/8"	5,000 psi	Blind Ram
E	13 5/8"	5,000 psi	Mud Cross
F			
DSA	As required for each hole size		
C-Sec			
B-Sec	13-5/8" 5K x 11" 5K		
A-Sec	13-3/8" SOW x 13-5/8" 5K		

Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5,000 psi	Gate Valve
2"	5,000 psi	Gate Valve
2"	5,000 psi	Check Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Gate Valve
3"	5,000 psi	HCR Valve



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ **The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.**
- ☐ **All valves on the kill line and choke line will be full opening and will allow straight though flow.**
- ☐ **The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration.**
- ☐ **Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line and kill line.**
- ☐ **A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.**
- ☐ **Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

JUN 16 2015

CHOKE MANIFOLD SCHEMATIC

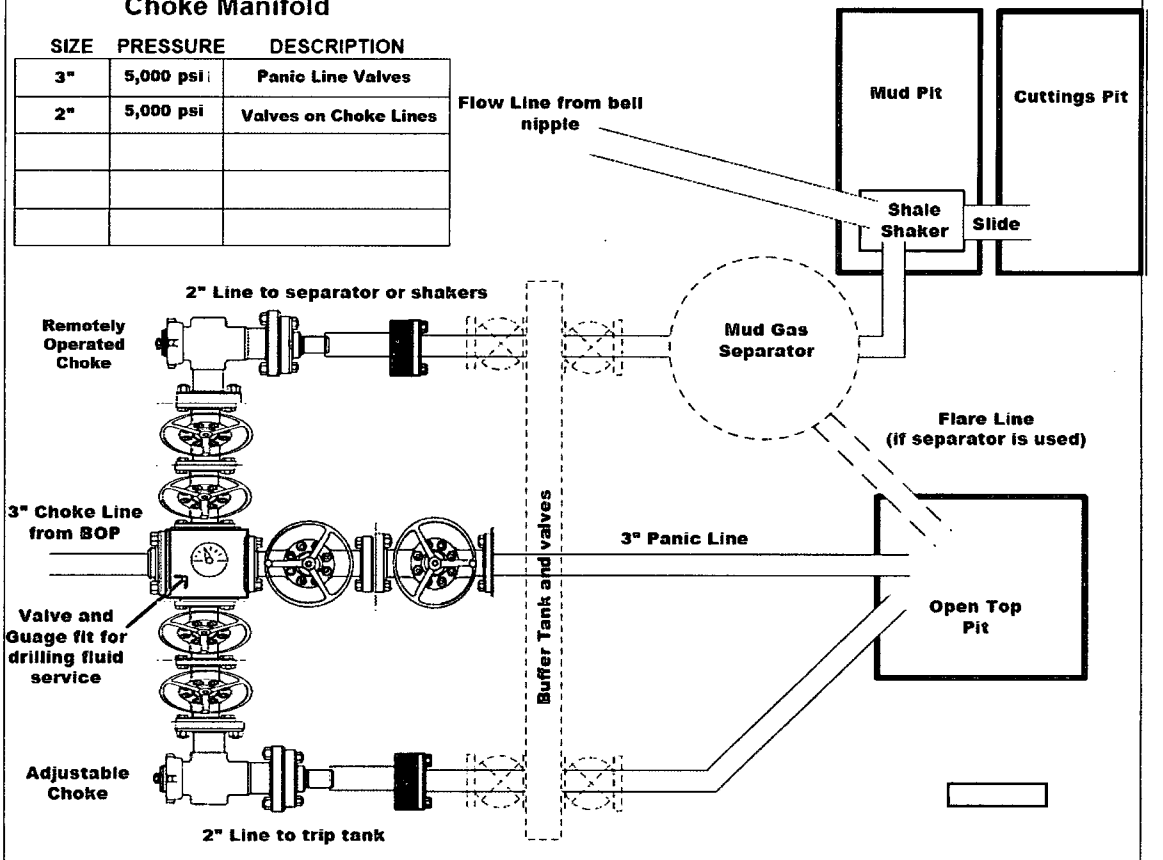
Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : **5,000 psi**

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Panic Line Valves
2"	5,000 psi	Valves on Choke Lines



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- ☐ **Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.**
- ☐ **Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.**
- ☐ **The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.**
- ☐ **All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.**
- ☐ **All manual valves will have hand wheels installed.**
- ☐ **If used, flare system will have effective method for ignition**
- ☐ **All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)**
- ☐ **If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

BOPE Testing

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BOPE Test Checklist

The following item must be ckecked off prior to beginning test

☐ **BLM will be given at least 4 hour notice prior to beginning BOPE testing**

☐ **Valve on casing head below test plug will be open**

☐ **Test will be performed using clear water.**

The following item must be performed during the BOPE testing and then checked off

☐ **BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 days intervals. Test pressure and times will be recorded by a 3rd party on a test chart and kept on location through the end of the well.**

☐ **Test plug will be used**

☐ **Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).**

☐ **Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).**

☐ **Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s)**

☐ **Each pressure test will be held for 10 minutes with no allowable leak off.**

☐ **Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOP testing**

☐ **Record BOP tests and pressures in drilling reports and IADC sheet**

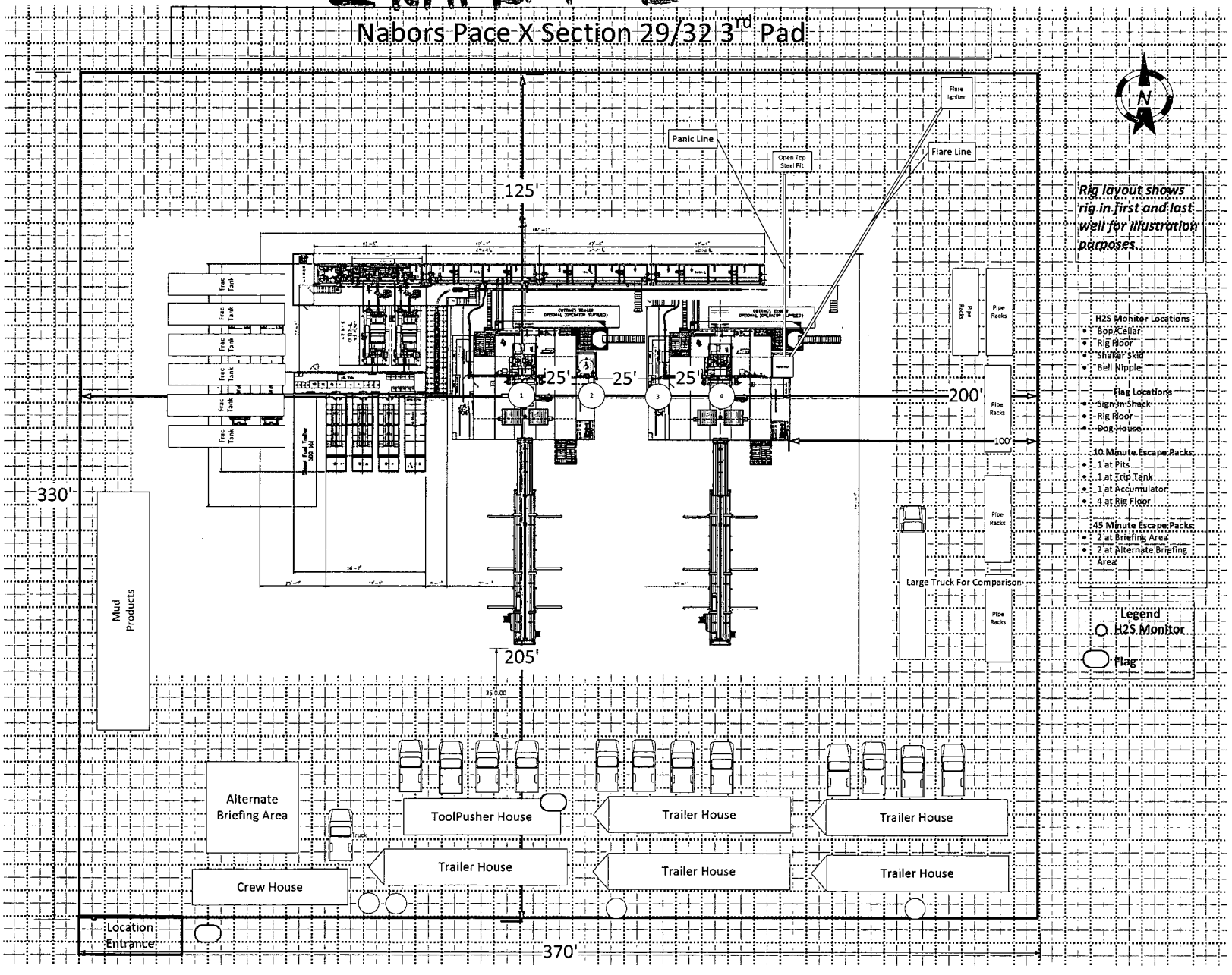
After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer along with any/all BOP and accumulator test charts and reports from 3rd parties.

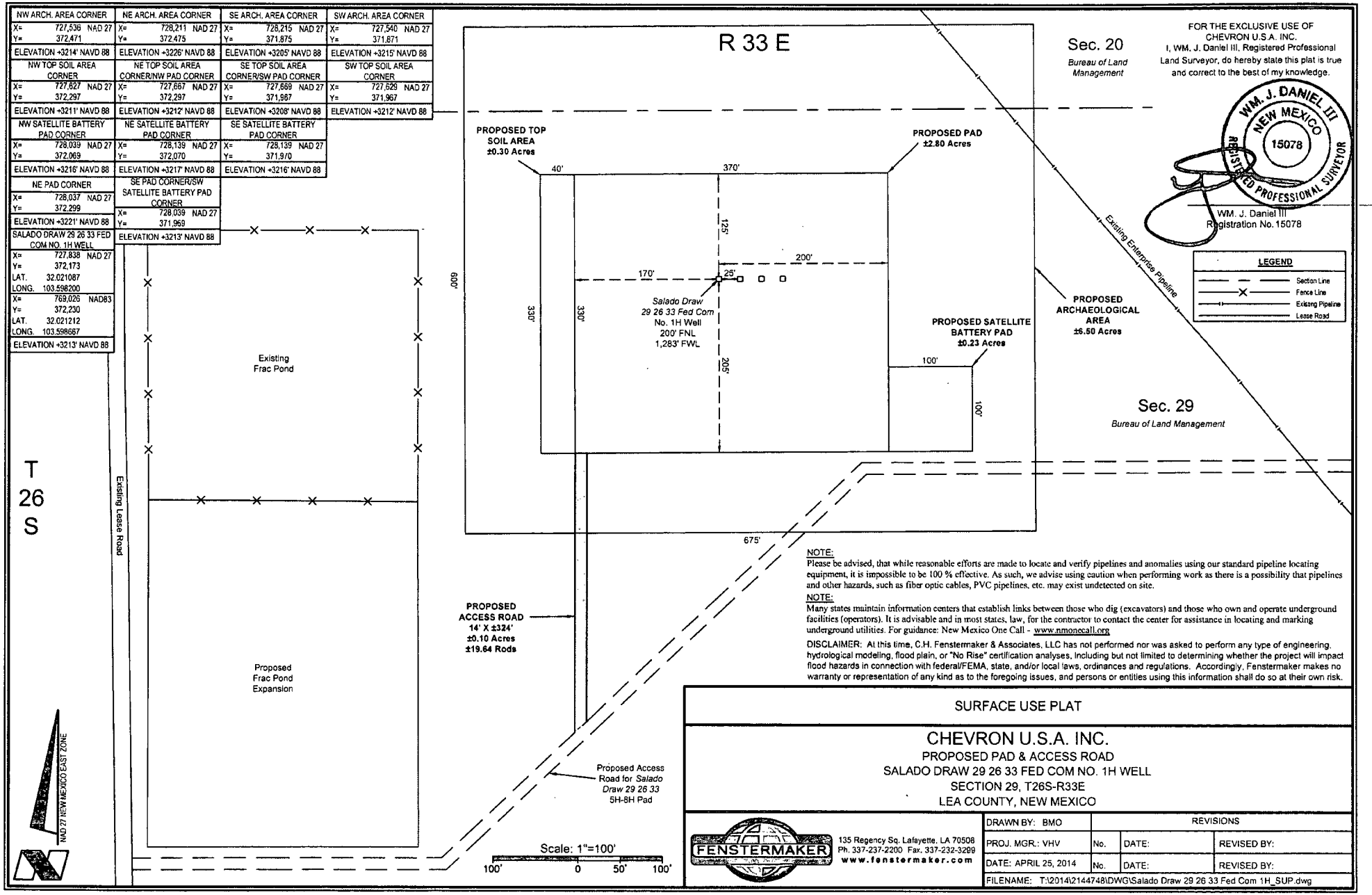
Wellname: _____

Representative: _____

Date: _____

Exhibit D


Nabors Pace X Section 29/32 3rd Pad
Flare Igniter
Panic Line
Flare Line
Open Top Steel Pit
125'
25'
25'
25'
200'
100'
330'
205'
370'
Frac Tank
Pipe Racks
Mud Products
Large Truck For Comparison
Alternate Briefing Area
ToolPusher House
Trailer House
Trailer House
Trailer House
Trailer House
Trailer House
Crew House
Location Entrance
Rig layout shows rig in first and last well for illustration purposes.
H2S Monitor Locations
Bop/Cellar
Rig Floor
Shaker Skid
Bell Nipple
Flag Locations
Sign-in Shack
Rig Floor
Dog House
10 Minute Escape Packs
1 at Pits
1 at Trip Tank
1 at Accumulator
4 at Rig Floor
45 Minute Escape Packs
2 at Briefing Area
2 at Alternate Briefing Area
Legend
H2S Monitor
Flag



FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NOTE:
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DISCLAIMER: At this time, C.H. Fenstermaker & Associates, LLC 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.

SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
SALADO DRAW 29 26 33 FED COM NO. 1H WELL
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: APRIL 25, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\2144748\DWG\Salado Draw 29 26 33 Fed Com 1H_SUP.dwg			

H_2S Preparedness and Contingency Plan Summary

Salado Draw 29 26 33 Fed 1H **Salado Draw 29 26 33 Fed 3H**

Salado Draw 29 26 33 Fed 2H **Salado Draw 29 26 33 Fed 4H**

Training

MCBU Drilling and Completions H_2S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H_2S training;
6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H_2S Equipment

Respiratory Protection

a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.

b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.

b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H_2S Detection and Monitoring System

a) H_2S monitoring system (sensor head, warning light and siren) placed throughout rig.

- Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
- Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

1. Use of a degasser
2. Use of a zinc based mud treatment
3. Increasing mud weight

Public Safety - Emergency Assistance

Agency	Telephone Number
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

Chevron MCBU D&C Emergency Notifications

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	Vicente Ruiz	Drilling Engineer	(713) 372-6181	(713) 898-5436
2.	Phil Clark	Superintendent	(713) 372-7588	(832) 741-4175
5.	Kim McHugh	Drilling Manager	(713) 372-7591	(713) 204- 8550
6.	Darrell Hammons	Operations Manager	(713) 372-5747	(281) 352 2302
7.	Andrea Calhoun	D&C HES	(713) 372-7586	(832) 588-0100
8.	Said Daher	Completion Engineer	(713) 372-0233	(832) 714-0724

H_2S Preparedness and Contingency Plan Summary

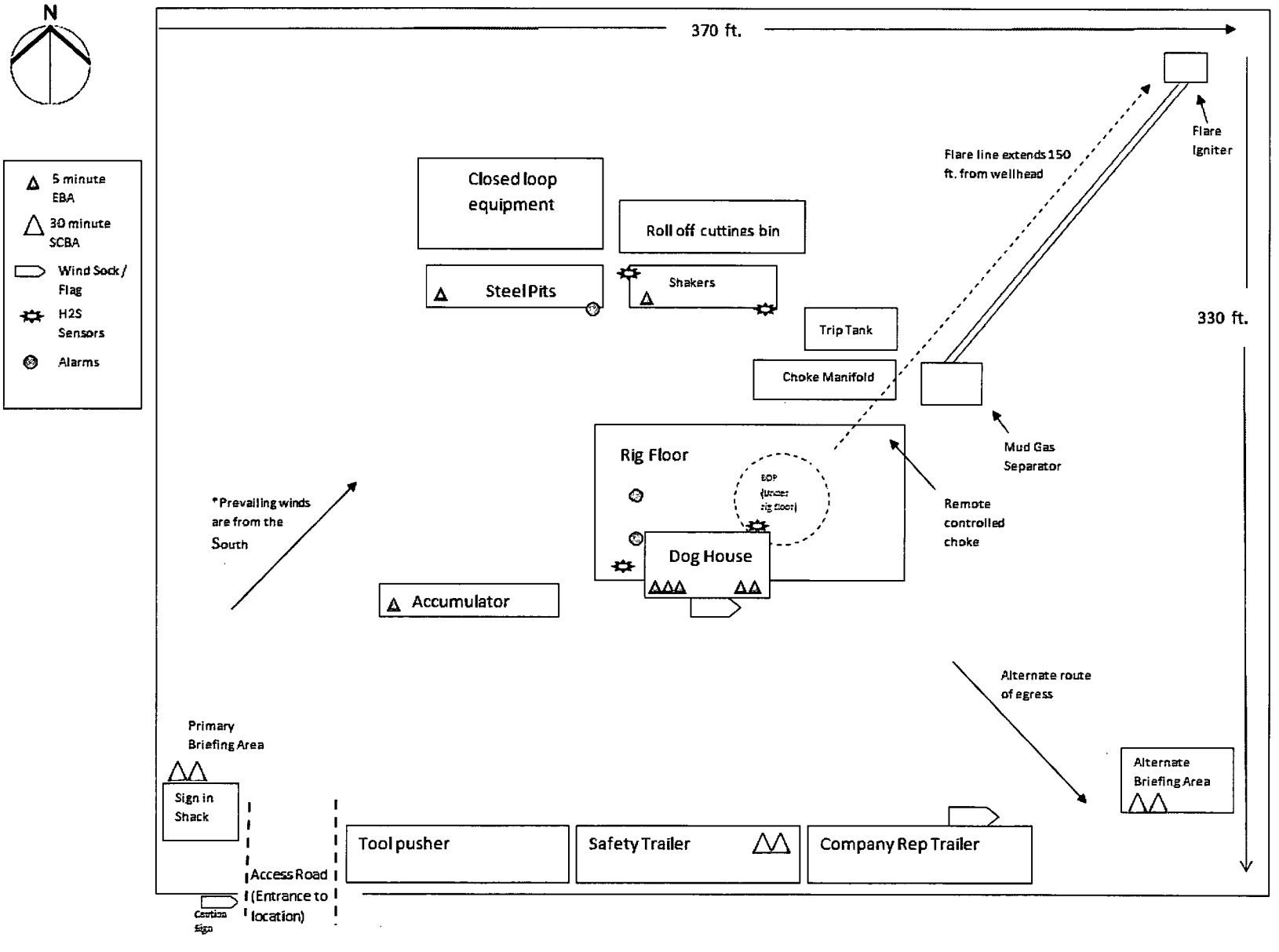
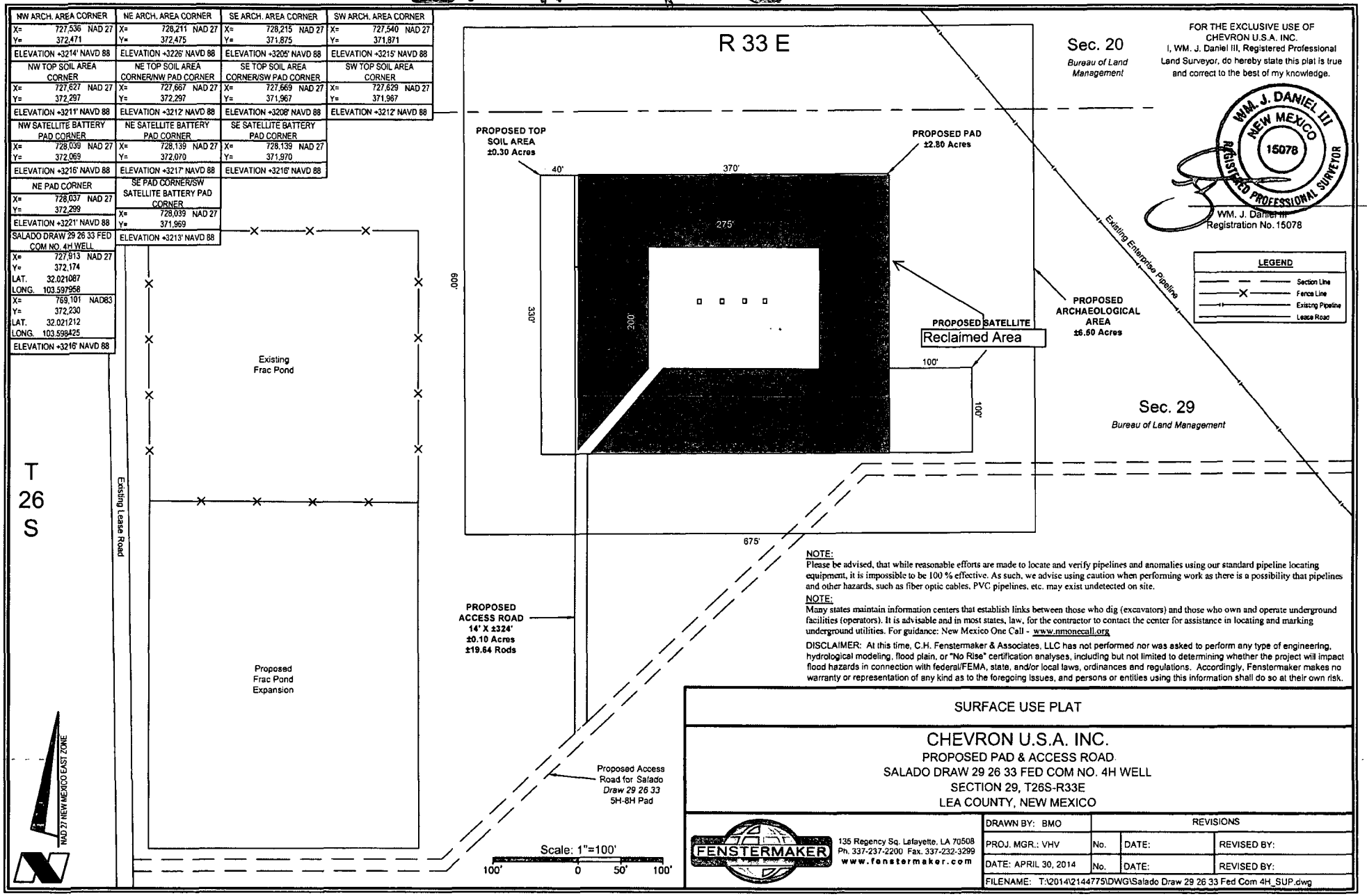


Exhibit E

NW ARCH. AREA CORNER	NE ARCH. AREA CORNER	SE ARCH. AREA CORNER	SW ARCH. AREA CORNER
X= 727,536 NAD 27	X= 728,211 NAD 27	X= 728,215 NAD 27	X= 727,540 NAD 27
Y= 372,471	Y= 372,475	Y= 371,875	Y= 371,871
ELEVATION +3214' NAVD 88	ELEVATION +3226' NAVD 88	ELEVATION +3205' NAVD 88	ELEVATION +3215' NAVD 88
NW TOP SOIL AREA CORNER	NE TOP SOIL AREA CORNER/NW PAD CORNER	SE TOP SOIL AREA CORNER/SW PAD CORNER	SW TOP SOIL AREA CORNER
X= 727,627 NAD 27	X= 727,667 NAD 27	X= 727,669 NAD 27	X= 727,629 NAD 27
Y= 372,297	Y= 372,297	Y= 371,967	Y= 371,967
ELEVATION +3211' NAVD 88	ELEVATION +3212' NAVD 88	ELEVATION +3208' NAVD 88	ELEVATION +3212' NAVD 88
NW SATELLITE BATTERY PAD CORNER	NE SATELLITE BATTERY PAD CORNER	SE SATELLITE BATTERY PAD CORNER	
X= 728,039 NAD 27	X= 728,139 NAD 27	X= 728,139 NAD 27	
Y= 372,069	Y= 372,070	Y= 371,970	
ELEVATION +3216' NAVD 88	ELEVATION +3217' NAVD 88	ELEVATION +3216' NAVD 88	
NE PAD CORNER	SE PAD CORNER/SW SATELLITE BATTERY PAD CORNER		
X= 728,037 NAD 27	X= 728,039 NAD 27		
Y= 372,299	Y= 371,969		
ELEVATION +3221' NAVD 88	ELEVATION +3213' NAVD 88		

SALADO DRAW 29 26 33 FED COM NO. 4H WELL	
X=	727,913 NAD 27
Y=	372,174
LAT.	32.021087
LONG.	103.597958
X=	769,101 NAD83
Y=	372,230
LAT.	32.021212
LONG.	103.598425
ELEVATION +3216' NAVD 88	



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SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
SALADO DRAW 29 26 33 FED COM NO. 4H WELL
SECTION 29, T26S-R33E
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DRAWN BY: BMO	REVISIONS			
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:	
DATE: APRIL 30, 2014	No.	DATE:	REVISED BY:	
FILENAME: T:\2014\2144775\DWG\Salado Draw 29 26 33 Fed Com 4H_SUP.dwg				

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

Salado Draw 29 26 33 FED #4H
200' FNL and 1,358' FWL
Section 29, Township 26, Range 33
Lea County, New Mexico

A. EXISTING ROADS/LEASE ROADS (Surface Land)

Driving directions are from Jal, New Mexico. The location is approximately 50.5 miles from the nearest town, which is Jal, New Mexico. From Jal, NM. Proceed on Highway 128 approximately 30 miles and turn left onto highway 1 and go approximately 14.2 miles to Battle Axe road (CR 2) and turn left or east, and go approximately 6.7 miles and turn left and go about 0.5 of a mile north to the well.

The proposed access to the location is approximately 1 mile off of Battle Axe Road (CR 2) being approximately 1 mile in length and 14' in travel way width with a maximum disturbance area of 20' will be used, and in accordance with guidelines set forth in the BLM Onshore Orders. No turnouts are expected.

Existing county and lease roads will be used to enter proposed access road.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Location, access, and vicinity plats attached hereto. **See Exhibits A-1 to A-4.**

Plans for improvement and/or maintenance of existing roads planned to access the well site:
Chevron will improve or maintain existing roads in a condition the same as or better than before operations begin. Chevron will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.)

B. NEW OR RECONSTRUCTED ACCESS ROADS (Surface Land)

There will be approximately 1,600' of new access to be constructed.

The new access road will be upgraded to a crowned and ditched road and will be graveled as needed for drilling. If requested by the surface owner, upgrading of this portion of the road will be kept to a minimum.

All existing roads (previously improved) will be used "as is" with the exception of minor blading as needed.

Surface disturbance and vehicular travel will be limited to the approved access route. Any additional area will be approved in advance.

Road Width: 14 – 20 feet traveling surface.

Maximum Grade: Road gradient less than 8%

Crown Design: 2%

Turnouts will be installed along the access route as needed.

Ditch design: Drainage, interception and outlet.

Erosion Control: 6" rock under road.

Re-vegetation of Disturbed Area: All disturbed areas will be seeded by Broadcast or Drill and Crimp. Ground conditions will determine the method used.

Cattle guard(s) will be installed as needed.

Major Cuts and Fills: 2:1 Slope.

Surfacing material (road base derived from caliche or river rock) will be placed on the access road during construction. All surface disturbing activities will be discussed with and agreed to with the surface owner.

C. LOCATION OF EXISTING WELLS (Geology)

All wells located within a 1-mile radius of the Surface & Bottom Hole Location. **See Exhibit B.**

D. LOCATION OF PRODUCTION FACILITIES (Surface Land/Facilities)

It is anticipated that the existing Porter Brown production facility, located in Section 19, will be utilized and oil to be sold at that tank battery.

The production line will be dual surface laid 4" Flexpipes with a working pressure no greater than 125 psig run along existing disturbances.

Oil and gas measurement will be installed on this well location. **See Exhibits C.**

The permanent water disposal system will utilize the Salado Draw SWD facilities (permitted separately). Facilities will include a water transfer pipeline as well as SWD station storage and injection facilities.

The permanent electrical supply route will be determined prior to construction of permanent distribution lines. A generator will be utilized until permanent power is connected.

E. LOCATION AND TYPES OF WATER SUPPLY (Surface Land)

Water will be obtained from a private water source.

Chevron will utilize the fresh water holding pond in Section 29-T26S-R33E. for fresh water.

Water to be hauled into or piped by a private provider into Section 29-T26S-R33E.

A 10" black expanding water pipe transfer line will run approx. 6.5 miles from Section 32-T26-R32E to Section 29-T26S-R33E. All transfer lines will be laid on a **"pre-disturbed**) area.

F. CONSTRUCTION MATERIALS (Facilities)

All construction materials will be used from the nearest Private, BLM, or State pit. All material (i.e. shale) will be acquired from private or commercial sources.

No construction material will be needed for well pad construction; subsurface spoil material will be utilized.

Surfacing material (caliche) will be purchased from a supplier having a permitted source of materials.

G. METHODS FOR HANDLING WASTE DISPOSAL

A closed system will be utilized consisting of above ground steel tanks.

All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in a state approved facility.

Disposal of cuttings: **Tervita, LLC**

Sewage and gray water before and after treatment are not allowed to be discharged to the ground. They are collected from storage tank(s) and portable potty at drilling and completions locations and transported by an approved transporter to be disposed of at a Chevron's select-for-use disposal facility.

H. ANCILLARY FACILITIES (Facilities)

None.

I. WELLSITE LAYOUT

The proposed site layout plat is attached showing the Ensign 767 orientation and equipment location. **See Exhibit D.**

In order to level the location, cut and fill will be required. Please see attached Well Location and Acreage Dedication Plat – Exhibits A-1 to A-4.

A locking gate will be installed at the site entrance.

Any fences cut will be repaired. Cattle guards will be installed, if needed.

J. PLANS FOR RECLAMATION OF THE SURFACE (Facilities)

Within 6 months, Chevron will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation will consist of reclaiming the pad to +/-50 feet outside the anchors, or approximately 200 x 200 feet. **See Exhibit E.**

In addition, the following procedures shall be followed:

i. Caliche will be removed from reclaimed areas to increase the success of revegetation. Removed caliche that is free of contaminants may be reused for future projects.
ii. The portions of the cleared well site not needed for operational and safety purposes will be re-contoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Sufficient level area remains for setup of a workover rig and to park vehicles/equipment.
iii. All surface soil materials (topsoil) are to be removed from the entire cut and fill area and temporarily stockpiled for reuse during interim reclamation. Topsoil will be respread over areas not needed for all-weather operations to ensure successful revegetation. Any topsoil pile set aside should be revegetated to prevent it from eroding and to help maintain its biological viability.
iv. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture advised by the BLM. The seed mix will be evenly and uniformly distributed over the disturbed area. Seeding will be accomplished by using a drilling or, when drilling is not available, by broadcasting the seed. When broadcasting the seed, the amount of seed shall be doubled.

v. Weed control will be used on disturbed land, including the roads, pads, associated pipeline corridor, and adjacent land affected by the operations. There shall be no primary or secondary noxious weeds in the seed mixture used for reseeding.

In the Event of a Dry Hole/Final Reclamation

Upon final abandonment of the well, a new reclamation plan will be submitted with the Notice of Intent to Abandon (NIA) or Subsequent Report Plug and Abandon (SRA) using the Sundry Notices and Reports on Wells Form 3160-5. The location will be restored to as near as original condition as possible. Reclamation of the surface shall be done in strict compliance with the existing New Mexico Oil Conservation Division regulations and BLM regulations.

In addition, the following procedures shall be followed:

i. Caliche material from the well pad and access road will be removed and utilized to re-contour to a final contour that blends with the surrounding topography as much as possible. Any caliche material not used will be utilized to repair roads within the lease.
ii. On sloped ground, the topsoil and interim vegetation will be restripped from portions of the site that are not at the original contour, the well pad recontoured, and the topsoil will be respread over the entire disturbed.
iii. Topsoil will be distributed over the reclamation area and cross ripped to control erosion
iv. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture advised by the BLM. The seed mix will be evenly and uniformly distributed over the disturbed area. Seeding will be accomplished by using a drilling or, when drilling is not available, by broadcasting the seed. When broadcasting the seed, the amount of seed shall be doubled.
Weed control will be used on disturbed land, including the roads, pads, associated pipeline corridor, and adjacent land affected by the operations. There shall be no primary or secondary noxious weeds in the seed mixture used for reseeding.

K. SURFACE OWNER

Bureau of Land Management

SURFACE TENANT (Surface Land)

Oliver Kiehne
P.O. Box 35
Orla, Texas 79770
432-448-6337

ROAD OWNERSHIP

All access roads are located on **County Road 2 (Battle Axe) & Federal** lands.

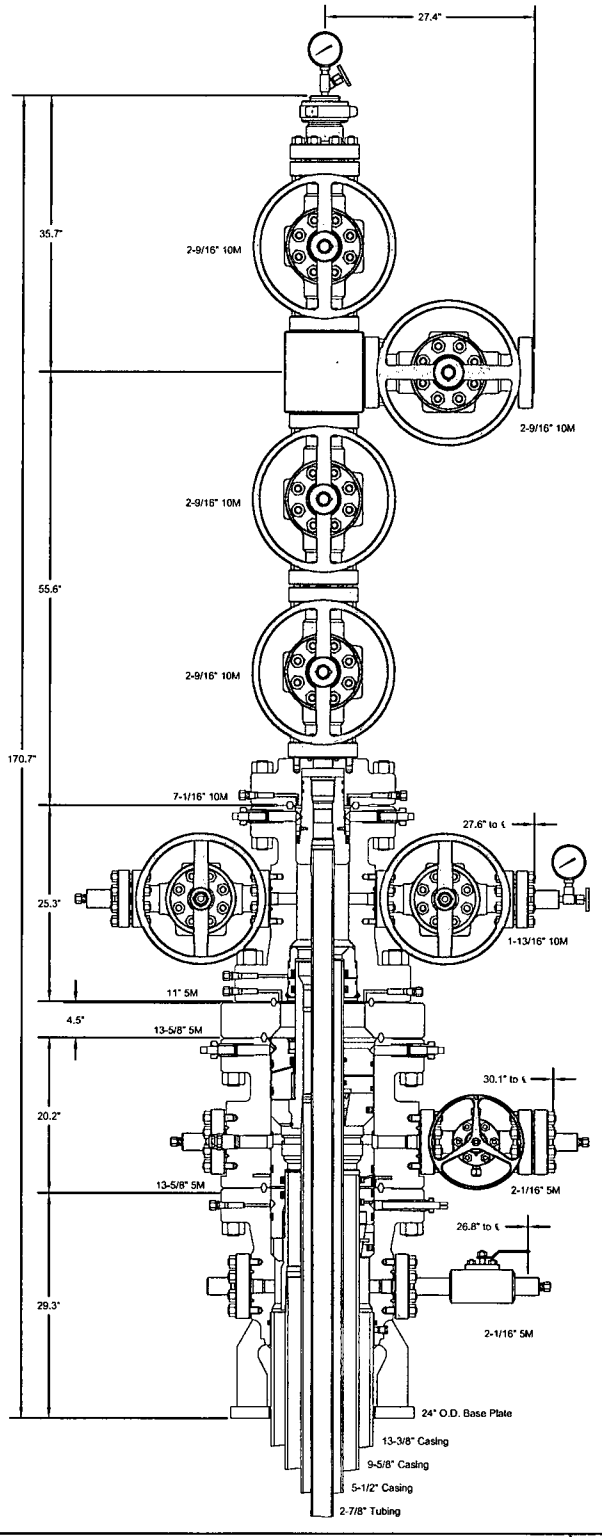
L. ADDITIONAL INFORMATION

Class III cultural resource inventory report was prepared by Boone Arch Services of NM, Carlsbad, New Mexico for the proposed location. A copy of the report has been sent to the BLM office under separate cover and is also attached for reference. **Exhibit F.**

M. CHEVRON REPRESENTATIVES

Project Manager James Ward 1400 Smith Street, 40055 Houston, TX 77002 Office: 713-372-1748 JWGB@chevron.com	**Drilling Engineer** Vicente Ruiz 1400 Smith Street, 43104 Houston, TX 77002 Office: +1 (713) 372-6181 vruiz@chevron.com
Surface Land Representative Stephen Tarr 15 Smith Road, 5103 Claydesta Plaza Midland, TX 79705 Office: +1 432-687-7956 Cell: +1 432-238-6316 STarr@chevron.com	**Facility Engineer** Nick Wann 15 Smith Road, 6220 Claydesta Plaza Midland, TX 79705 Office: +1 504-224-0597 NWann@chevron.com
Geologist Patrick Taha 1400 Smith Street, 40034 Houston, TX 77002 Office: +1 713-372-1543 PatrickTaha@chevron.com	**Execution Team Lead** Ed Van Reet 1400 Smith Street. 40040 Houston, TX 77002 EVTR@chevron.com 713-372-1559
Regulatory Specialist Cindy Herrera-Murillo 1616 W Bender Blvd, 121 Hobbs, NM 88240 Office: +1 575-263-0431 CHerreraMurillo@chevron.com	**Land** Robert Morrison 1400 Smith Street. 45010 Houston, TX 77002 Office: 713-372-6707 UAMZ@Chevron.com

GE Oil & Gas



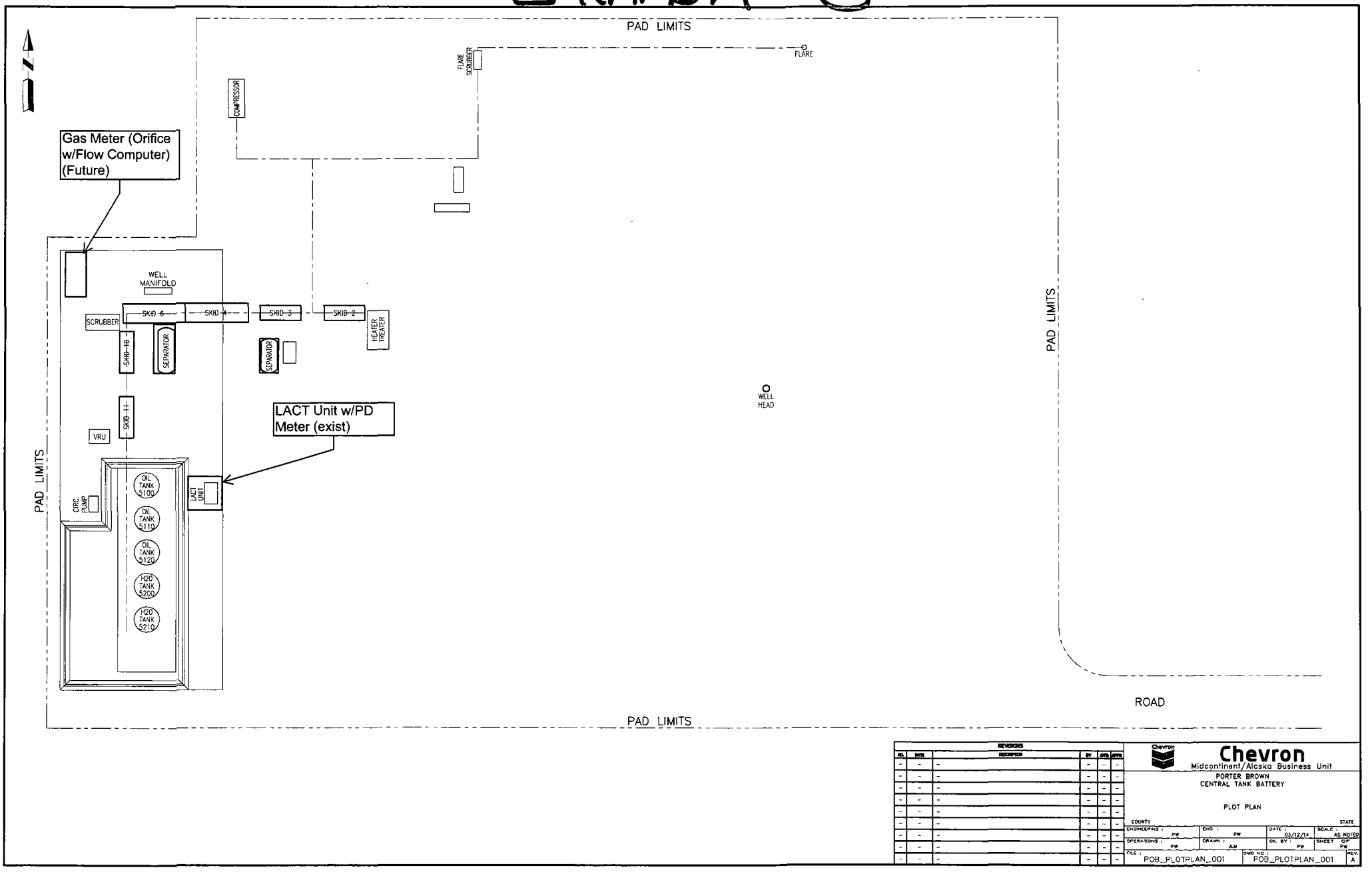
CHEVRON USA, INC.
DELAWARE BASIN

13-3/8" x 9-5/8" x 5-1/2" x 2-7/8" 10M SH2/Conventional Wellhead Assembly, With DSA, T-EBS-F Tubing Head, T-EN Tubing Hanger and A5PEN Adapter Flange

DRAWN	VJK	19MAR13
APPRV	KN	19MAR13

FOR REFERENCE ONLY
DRAWING NO. AE23705

Exhibit C



REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D
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Chevron
Midcontinent/Alaska Business Unit

PORTER BROWN
CENTRAL TANK BATTERY

PLOT PLAN

COUNTY | STATE

ENGINEERING : PW | ENG. : PW | DATE : 03/12/14 | SCALE : AS NOTED

OPERATIONS : PW | DRAWN : JLM | CK. BY. : PW | SHEET : OF PW

FILE : POB_PLOTPLAN_001 | DWG NO : POB_PLOTPLAN_001 | REV. A

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.nmonecall.org

DISCLAIMER: At this time, C.H. Fenstermaker & Associates, LLC 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.

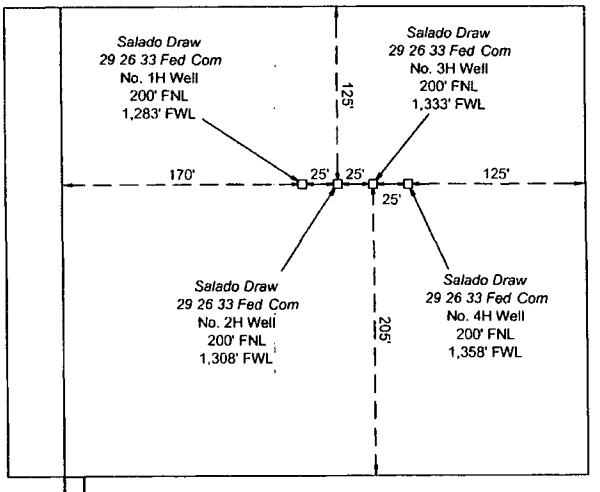
SALADO DRAW 29 26 33 FED COM NO. 1H WELL		SALADO DRAW 29 26 33 FED COM NO. 2H WELL		SALADO DRAW 29 26 33 FED COM NO. 3H WELL		SALADO DRAW 29 26 33 FED COM NO. 4H WELL	
X=	727,838 NAD 27	X=	727,863 NAD 27	X=	727,888 NAD 27	X=	727,913 NAD 27
Y=	372,173	Y=	372,173	Y=	372,173	Y=	372,174
LAT.	32.021087	LAT.	32.021087	LAT.	32.021087	LAT.	32.021087
LONG.	103.598200	LONG.	103.598119	LONG.	103.598039	LONG.	103.597958
X=	769,026 NAD83	X=	769,051 NAD83	X=	769,076 NAD83	X=	769,101 NAD83
Y=	372,230	Y=	372,230	Y=	372,230	Y=	372,230
LAT.	32.021212	LAT.	32.021212	LAT.	32.021212	LAT.	32.021212
LONG.	103.598667	LONG.	103.598586	LONG.	103.598506	LONG.	103.598425
ELEVATION +3213' NAVD 88		ELEVATION +3215' NAVD 88		ELEVATION +3215' NAVD 88		ELEVATION +3216' NAVD 88	

R 33 E

Sec. 20

Bureau of Land Management

T 26 S



Sec. 29

Bureau of Land Management

NAD 27 NEW MEXICO EAST ZONE

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

DEVELOPMENT PAD DETAIL

SCALE: 1"=100'

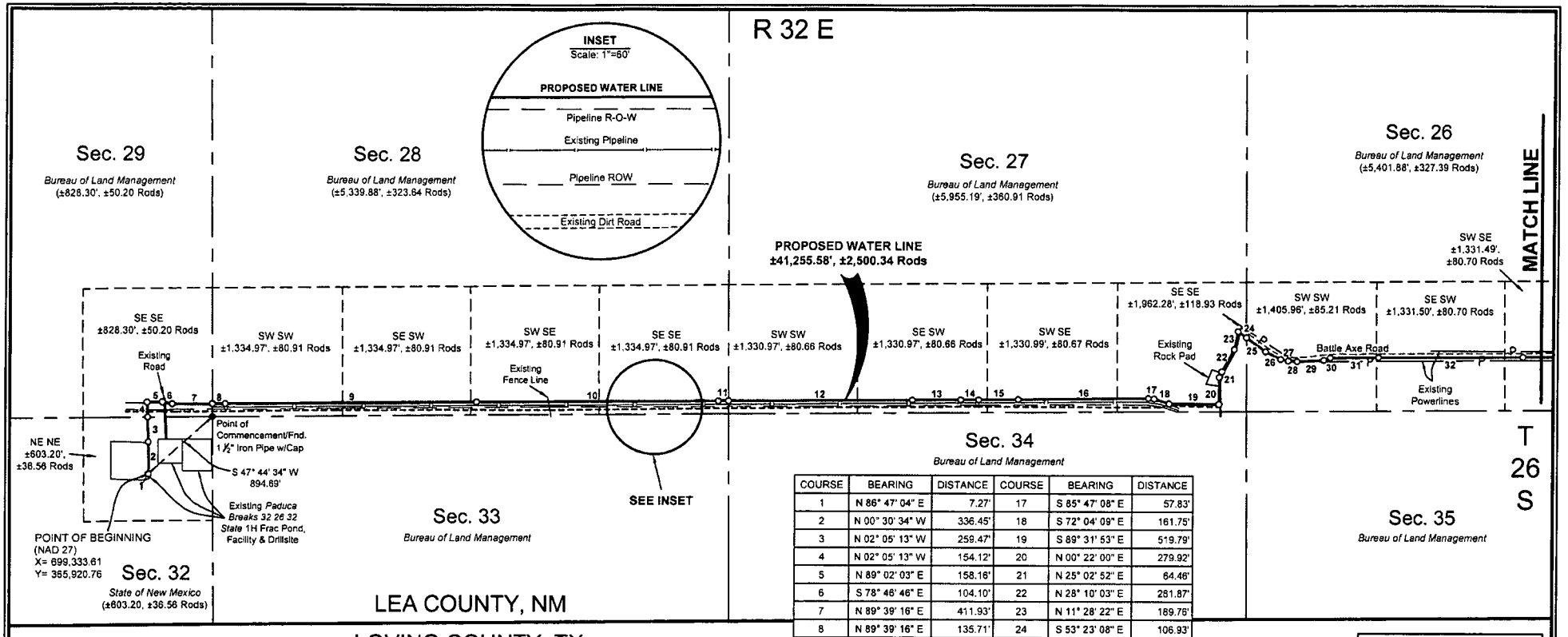
100' 0 50' 100'

CHEVRON U.S.A. INC.

PROPOSED DEVELOPMENT PAD
SALADO DRAW 29 26 33 FED COM 1H - 4H WELLS
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: VHV	REVISIONS		
PROJ. MGR.: VHV	No. #	DATE:	REVISED BY:
DATE: 05/09/2014	No. #	DATE:	REVISED BY:
FILENAME: T:\2014\2144748\DWG\Salado Draw 29 26 33 Fed Com 1H-4H_PadDetail.dwg			



COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
1	N 86° 47' 04" E	7.27'	17	S 85° 47' 08" E	57.83'
2	N 00° 30' 34" W	336.45'	18	S 72° 04' 09" E	161.75'
3	N 02° 05' 13" W	259.47'	19	S 89° 31' 53" E	519.79'
4	N 02° 05' 13" W	154.12'	20	N 00° 22' 00" E	279.92'
5	N 89° 02' 03" E	158.16'	21	N 25° 02' 52" E	64.46'
6	S 78° 46' 46" E	104.10'	22	N 28° 10' 03" E	281.87'
7	N 89° 39' 16" E	411.93'	23	N 11° 28' 22" E	189.76'
8	N 89° 39' 16" E	135.71'	24	S 53° 23' 08" E	106.93'
9	N 89° 37' 37" E	2597.59'	25	S 53° 23' 08" E	240.68'
10	N 89° 38' 05" E	2500.15'	26	S 62° 53' 37" E	174.04'
11	N 89° 38' 19" E	106.45'	27	S 77° 10' 45" E	77.56'
12	N 89° 38' 19" E	1891.75'	28	S 87° 09' 37" E	89.16'
13	N 89° 37' 57" E	497.98'	29	N 87° 12' 23" E	274.96'
14	N 89° 38' 05" E	183.01'	30	N 69° 59' 12" E	72.15'
15	N 89° 22' 33" E	407.10'	31	N 89° 27' 19" E	499.00'
16	N 89° 22' 31" E	1333.09'	32	N 89° 39' 46" E	1496.01'

LEGEND
- Section Line
- Existing Fence Line
- Proposed Water Line
- Existing Road
- Section Break
- Existing Pipeline
- R-O-W
- Existing Powerline
- Found Occupation

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NAD 27 NEW MEXICO EAST ZONE

Scale: 1"=1,000'
1,000' 0 500' 1,000'

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.

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. NEW MEXICO ONE CALL, www.nmonecall.org.

DISCLAIMER: AT THIS TIME, C. H. FENSTERMAKER & ASSOCIATES, LLC. 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

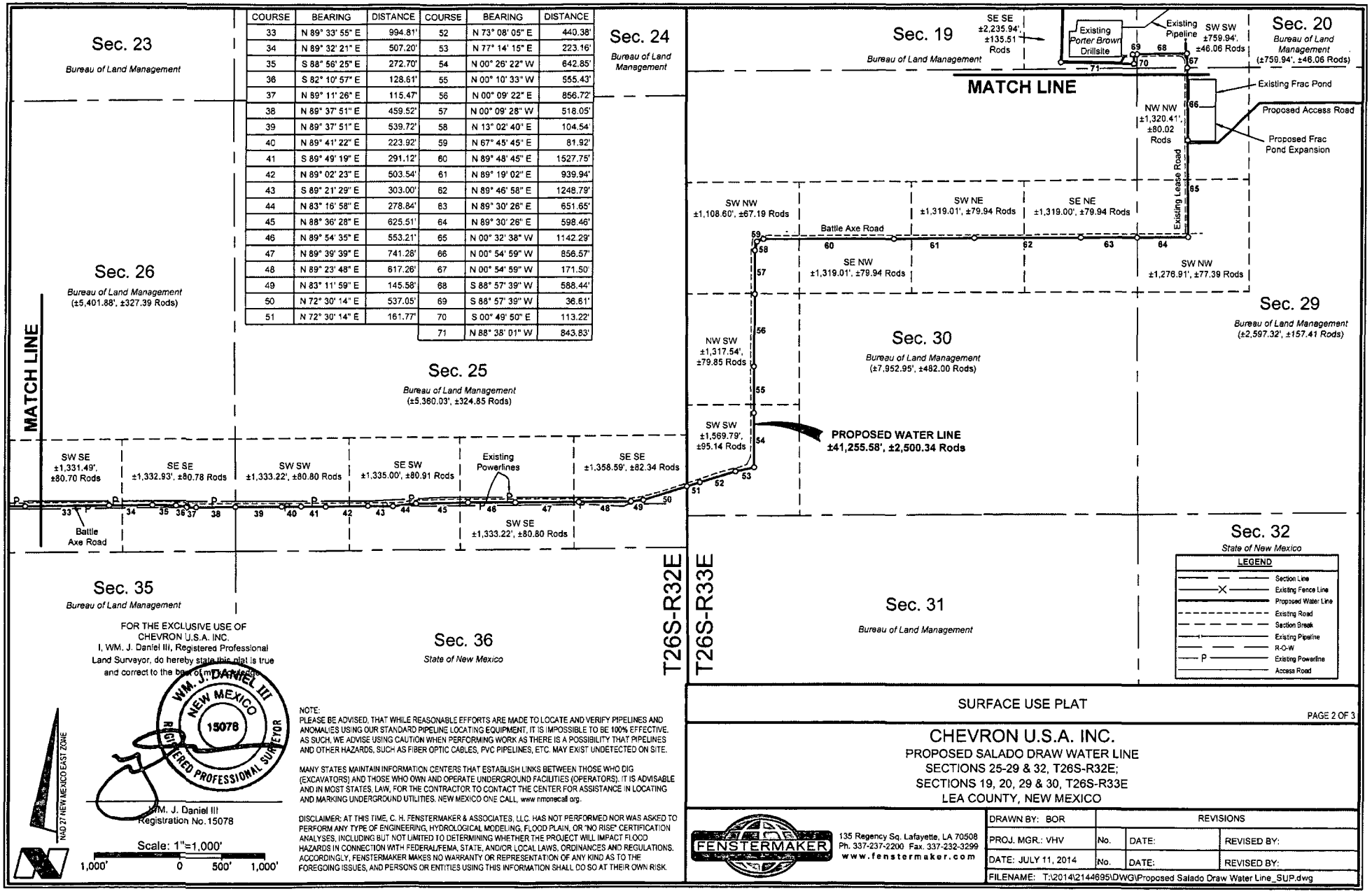
SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED SALADO DRAW WATER LINE
SECTIONS 25-29 & 32, T26S-R32E;
SECTIONS 19, 20, 29 & 30, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BOR	REVISIONS			
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:	
DATE: JULY 11, 2014	No.	DATE:	REVISED BY:	
FILENAME: T:\2014\2144695\DWG\Proposed Salado Draw Water Line_SUP.dwg				



COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
33	N 89° 33' 55" E	994.81'	52	N 73° 08' 05" E	440.38'
34	N 89° 32' 21" E	507.20'	53	N 77° 14' 15" E	223.16'
35	S 88° 56' 25" E	272.70'	54	N 00° 26' 22" W	642.85'
36	S 82° 10' 57" E	128.61'	55	N 00° 10' 33" W	555.43'
37	N 89° 11' 26" E	115.47'	56	N 00° 09' 22" E	856.72'
38	N 89° 37' 51" E	459.52'	57	N 00° 09' 28" W	518.05'
39	N 89° 37' 51" E	539.72'	58	N 13° 02' 40" E	104.54'
40	N 89° 41' 22" E	223.92'	59	N 67° 45' 45" E	81.92'
41	S 89° 49' 19" E	291.12'	60	N 89° 48' 45" E	1527.75'
42	N 89° 02' 23" E	503.54'	61	N 89° 19' 02" E	939.94'
43	S 89° 21' 29" E	303.00'	62	N 89° 46' 58" E	1248.79'
44	N 83° 16' 58" E	278.84'	63	N 89° 30' 26" E	651.65'
45	N 88° 36' 28" E	625.51'	64	N 89° 30' 26" E	598.46'
46	N 89° 54' 35" E	553.21'	65	N 00° 32' 38" W	1142.29'
47	N 89° 39' 39" E	741.28'	66	N 00° 54' 59" W	856.57'
48	N 89° 23' 48" E	617.26'	67	N 00° 54' 59" W	171.50'
49	N 83° 11' 59" E	145.58'	68	S 88° 57' 39" W	588.44'
50	N 72° 30' 14" E	537.05'	69	S 88° 57' 39" W	36.61'
51	N 72° 30' 14" E	161.77'	70	S 00° 49' 50" E	113.22'
			71	N 88° 38' 01" W	843.83'

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III
NEW MEXICO
15078
REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No.15078

NAD 27 NEW MEXICO EAST ZONE

Scale: 1"=1,000'
1,000' 0 500' 1,000'

NOTE:
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SURFACE USE PLAT

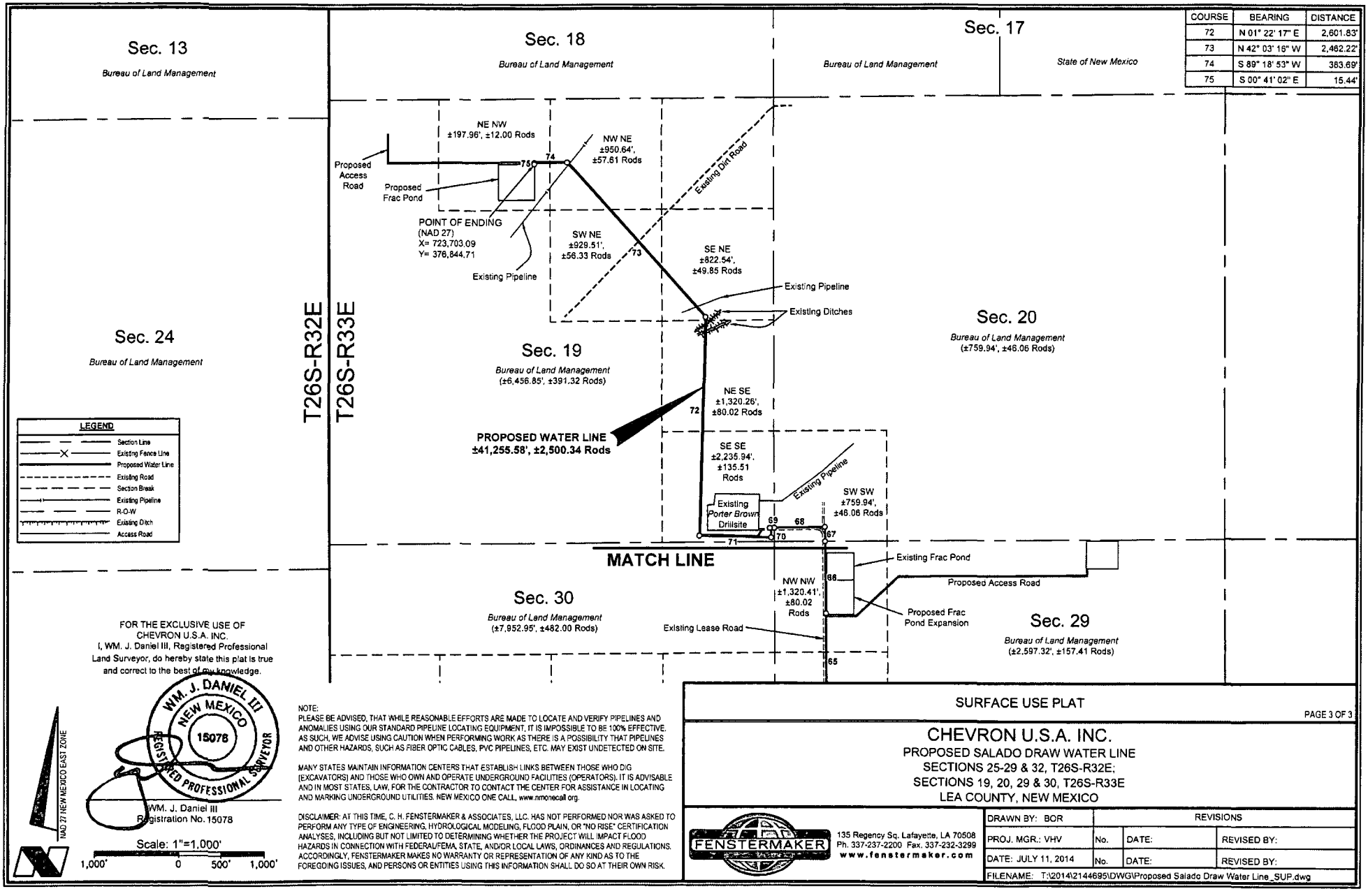
PAGE 2 OF 3

CHEVRON U.S.A. INC.

PROPOSED SALADO DRAW WATER LINE
SECTIONS 25-29 & 32, T26S-R32E;
SECTIONS 19, 20, 29 & 30, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: JULY 11, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\2144695\DWG\Proposed Salado Draw Water Line_SUP.dwg			



COURSE	BEARING	DISTANCE
72	N 01° 22' 17" E	2,601.83'
73	N 42° 03' 16" W	2,462.22'
74	S 89° 18' 53" W	383.69'
75	S 00° 41' 02" E	15.44'

LEGEND

- Section Line
- Existing Fence Line
- Proposed Water Line
- Existing Road
- Section Break
- Existing Pipeline
- R-O-W
- Existing Ditch
- Access Road

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III
NEW MEXICO
15078
REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NAD 27 NEW MEXICO EAST ZONE

Scale: 1"=1,000'

1,000' 0 500' 1,000'

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SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED SALADO DRAW WATER LINE
SECTIONS 25-29 & 32, T26S-R32E;
SECTIONS 19, 20, 29 & 30, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
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DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: JULY 11, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\2144695\DWG\Proposed Salado Draw Water Line_SUP.dwg			

METES AND BOUNDS DESCRIPTION OF
A PROPOSED WATER LINE
SECTIONS 25-29 & 32, T26S-R32E & SECTIONS 19, 20, 29 & 30, T26S-R33E
LEA COUNTY, NEW MEXICO

Survey of a proposed water line 41,255.58 feet or 2,500.34 rods in length crossing State of New Mexico and Bureau of Land Management lands in Sections 25-29 & 32 of Township 26 South Range 32 East and Sections 19, 20, 29 & 30 of Township 26 South Range 33 East, N.M.P.M Lea County, New Mexico.

COMMENCING at the Northeast corner of said Section 32 of Township 26 South Range 32 East at a found 1 1/2" Iron Pipe with Cap; thence South 47 degrees 44 minutes 34 seconds West 894.69 feet to the **POINT OF BEGINNING** having the following coordinates: X= 699,333.61 and Y= 365,920.76 (New Mexico State Plane Coordinate System, East Zone, NAD 27);

Thence North 86 degrees 47 minutes 04 seconds East 7.27 feet;

Thence North 00 degrees 30 minutes 34 seconds West 336.45 feet;

Thence North 02 degrees 05 minutes 13 seconds West 259.47 feet to a common section line of said Sections 32 and 29, Township 26 South Range 32 East;

Thence North 02 degrees 05 minutes 13 seconds West 154.12 feet;

Thence North 89 degrees 02 minutes 03 seconds East 158.16 feet;

Thence South 78 degrees 46 minutes 46 seconds East 104.10 feet;

Thence North 89 degrees 39 minutes 16 seconds East 411.93 feet to a common section line of said Sections 29 and 28, Township 26 South Range 32 East;

Thence North 89 degrees 39 minutes 16 seconds East 135.71 feet;

Thence North 89 degrees 37 minutes 37 seconds East 2,597.59 feet;

Thence North 89 degrees 38 minutes 05 seconds East 2,500.15 feet;

Thence North 89 degrees 38 minutes 19 seconds East 106.45 feet to a common section line of said Sections 28 and 27, Township 26 South Range 32 East;

Thence North 89 degrees 38 minutes 19 seconds East 1,891.75 feet;

Thence North 89 degrees 37 minutes 57 seconds East 497.98 feet;

Thence North 89 degrees 38 minutes 05 seconds East 183.01 feet;

Thence North 89 degrees 22 minutes 33 seconds East 407.10 feet;

Thence North 89 degrees 22 minutes 31 seconds East 1,333.09 feet;

Thence South 85 degrees 47 minutes 08 seconds East 57.83 feet;

Thence South 72 degrees 04 minutes 09 seconds East 161.75 feet;

Thence South 89 degrees 31 minutes 53 seconds East 519.79 feet;

Thence North 00 degrees 22 minutes 00 seconds East 279.92 feet;

Thence North 25 degrees 02 minutes 52 seconds East 64.46 feet;

Thence North 28 degrees 10 minutes 03 seconds East 261.87 feet;

Thence North 11 degrees 28 minutes 22 seconds East 189.76 feet;

Thence South 53 degrees 23 minutes 08 seconds East 106.93 feet to a common section line of said Sections 27 and 26, Township 26 South Range 32 East;

Thence South 53 degrees 23 minutes 08 seconds East 240.68 feet;

Thence South 62 degrees 53 minutes 37 seconds East 174.04 feet;

Thence South 77 degrees 10 minutes 45 seconds East 77.56 feet;

Thence South 87 degrees 09 minutes 37 seconds East 89.16 feet;

Thence North 87 degrees 12 minutes 23 seconds East 274.96 feet;

Thence North 69 degrees 59 minutes 12 seconds East 72.15 feet;

Thence North 89 degrees 27 minutes 19 seconds East 499.00 feet;

Thence North 89 degrees 39 minutes 46 seconds East 1,496.01 feet;

Thence North 89 degrees 33 minutes 55 seconds East 994.81 feet;

Thence North 89 degrees 32 minutes 21 seconds East 507.20 feet;

Thence South 88 degrees 56 minutes 25 seconds East 272.70 feet;

Thence South 82 degrees 10 minutes 57 seconds East 128.61 feet;

Thence North 89 degrees 11 minutes 26 seconds East 115.47 feet;

Thence North 89 degrees 37 minutes 51 seconds East 459.52 feet to a common section line of said Sections 26 and 25, Township 26 South Range 32 East;

Thence North 89 degrees 37 minutes 51 seconds East 539.72 feet;

Thence North 89 degrees 41 minutes 22 seconds East 223.92 feet;

Thence South 89 degrees 49 minutes 19 seconds East 291.12 feet;

Thence North 89 degrees 02 minutes 23 seconds East 503.54 feet;

Thence South 89 degrees 21 minutes 29 seconds East 303.00 feet;

Thence North 83 degrees 16 minutes 58 seconds East 278.84 feet;

Thence North 88 degrees 36 minutes 28 seconds East 625.51 feet;

Thence North 89 degrees 54 minutes 35 seconds East 553.21 feet;

Thence North 89 degrees 39 minutes 39 seconds East 741.28 feet;

Thence North 89 degrees 23 minutes 48 seconds East 617.26 feet;

Thence North 83 degrees 11 minutes 59 seconds East 145.58 feet;

Thence North 72 degrees 30 minutes 14 seconds East 537.05 feet to a common section line of said Section 25, Township 26 South Range 32 East and Section 30, Township 26 South Range 33 East;

Thence North 72 degrees 30 minutes 14 seconds East 161.77 feet;

Thence North 73 degrees 08 minutes 05 seconds East 440.38 feet;

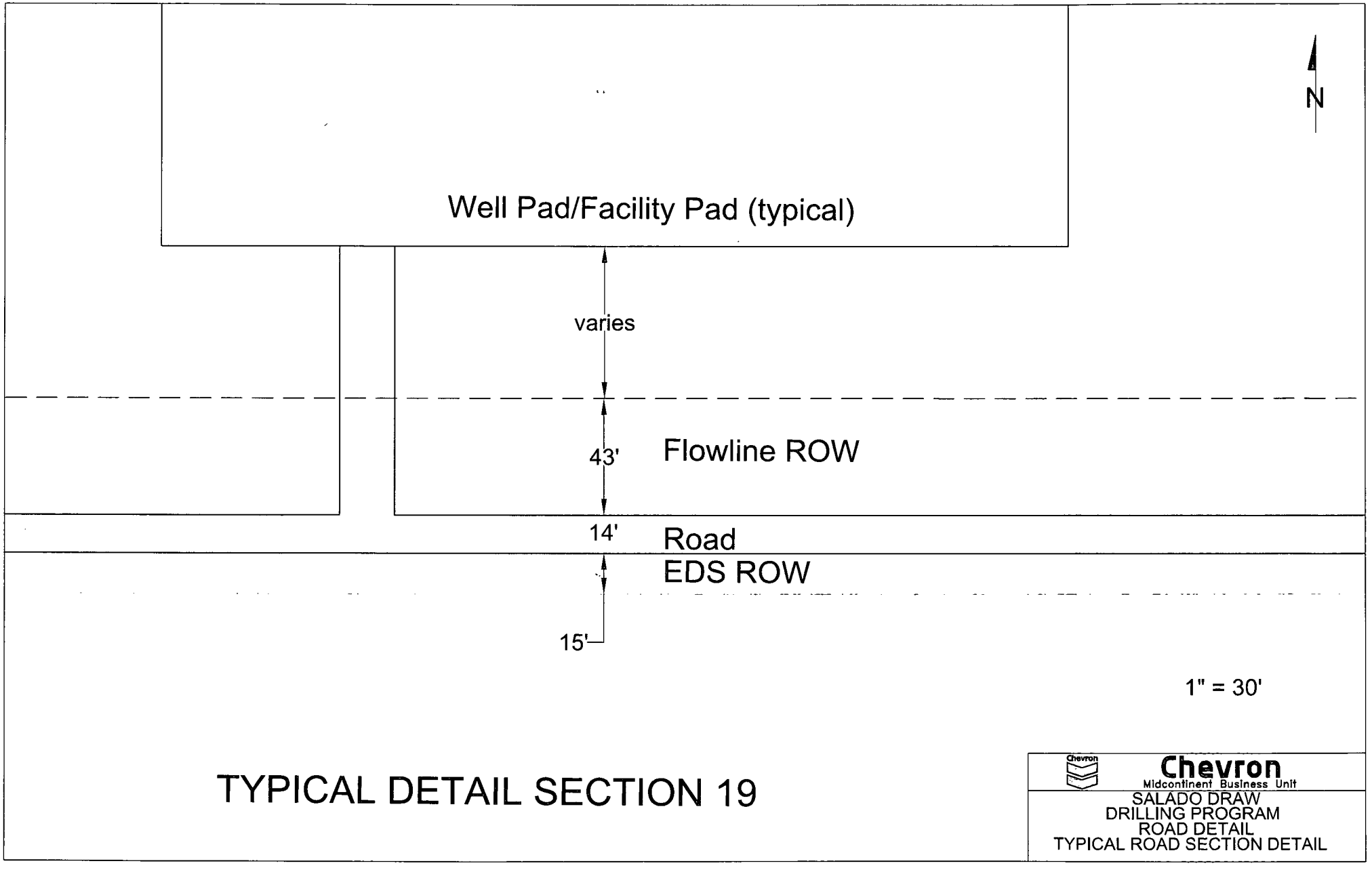
Thence North 77 degrees 14 minutes 15 seconds East 223.16 feet;

Thence North 00 degrees 26 minutes 22 seconds West 642.85 feet;

Thence North 00 degrees 10 minutes 33 seconds West 555.43 feet;

Thence North 00 degrees 09 minutes 22 seconds East 856.72 feet;

Thence North 00 degrees 09 minutes 28 seconds West 518.05 feet;



TYPICAL DETAIL SECTION 19

Chevron
Midcontinent Business Unit

SALADO DRAW
DRILLING PROGRAM
ROAD DETAIL
TYPICAL ROAD SECTION DETAIL

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Executed this 30TH day of July, 2014

Name: _____
James Ward - Project Manager

Address: 1400 Smith Street, 40050
Houston, TX 77002

Office 713-372-1748

E-mail: jwgb@chevron.com

NMCRIS No.: 131136

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.:	2a. Lead Agency:	2b. Other Agency(ies):	3. Lead Agency Report No.:
131136	US Bureau of Land Management Carlsbad Field Office		

4. Title of Report:

A Class III Archaeological Survey for Chevron USA, Inc's Proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H and #4H Well Pad, Battery Pad, and Access Road

Author(s)

Hill, Rebecca L. and Joshua W. Broxson

5. Type of Report

☑ Negative

☐ Positive

6. Investigation Type

☐ Research Design ☑ Archaeological Survey/Inventory ☐ Architectural Survey/Inventory ☐ Test Excavation ☐ Excavation

☐ Collections/Non-Field Study ☐ Compliance Decision Based on Previous Inventory ☐ Overview/Lit Review ☐ Monitoring

☐ Ethnographic Study ☐ Site/Property Specific Visit ☐ Historic Structures Report ☐ Other

7. Description of Undertaking (what does the project entail?):

A pedestrian cultural resources survey was conducted on 7 and 21 July 2014 for Chevron USA, Inc's proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H and #4H well pad, battery pad, and access road. The proposed project lies in Lea County, NM, on federal land managed by the Bureau of Land Management Carlsbad Field Office (BLM/CFO) in Section 29 (N½NW¼) of T26S R33E. The well pad (370 ft. x 330 ft.), topsoil stockpile (40 ft. x 330 ft.), battery pad (100 ft. x 100 ft.), and access road (324 ft. x 30 ft.) measure 155,020 sq. ft. or 3.55 acres. The well pad, battery pad, and topsoil stockpile were surveyed using 15 m parallel transects across a 600 ft. x 675 ft. block. A portion of the access road measuring 95 ft. x 30 ft. fell within the block survey. The remaining 229 ft. x 30 ft. portion of access road was surveyed using two 15 m parallel transects, one on either side of the staked centerline. The survey measures 427,900 sq. ft. or 9.82 acres. The survey extended north onto federal land in Section 20 (N½NW¼) of T26S R33E. During the survey it was noted that ARMS GIS data placed the boundaries of LA 89707 just within the southeastern corner of the survey buffer. An extensive search of both the ARMS GIS plotting and BLM/CFO plotting of LA 89707 revealed no cultural materials. No treatment is recommended and the proposed project is recommended for approval as staked.

8. Dates of Investigation: from: 07-Jul-2014 to: 21-Jul-2014

9. Report Date: 22-Jul-2014

10. Performing Agency/Consultant: Boone Arch Services of NM, LLC

Principal Investigator: Rebecca L. Hill

Field Supervisor: Rebecca L. Hill

Field Personnel Names: Rebecca L. Hill
Hans W. Schmid III

Historian / Other:

11. Performing Agency/Consultant Report No.:

BASNM 04-14-81

12. Applicable Cultural Resource Permit No(s):

BLM Permit No.: 190-2920-12-S

NMCRIS No.: 131136

13. Client/Customer (project proponent):

Chevron USA, Inc

Contact: Stephen Tarr

Address: 15 Smith Rd., Midland, TX 79705 **Phone:** 432-687-7956

14. Client/Customer Project No.:

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	9.82	3.55
TOTALS	9.82	3.55

16. Records Search(es):

Date(s) of HPD/ARMS File Review: 9 Jun 2014	Name of Reviewer(s): M. Jones	
Date(s) of Other Agency File Review: 9 Jun 2014	Name of Reviewer(s): M. Jones	Agency: BLM/CFO

17. Survey Data:

a. Source Graphics [ ] **NAD 27** [x] **NAD 83** **Note: NAD 83 is the NMCRIS standard.**

☑ **USGS 7.5' (1:24,000) topo map** ☐ **Other topo map, Scale:**

☑ **GPS Unit Accuracy** ☑ **<1.0m** ☐ **1-10m** ☐ **10-100m** ☐ **>100m** ☐ **Aerial Photo(s)**

Other Source Graphic(s):

b. USGS 7.5' Topographic Map Name	USGS Quad Code
Paduca Breaks East, NM	32103-A5

c. County(ies): LEA

d. Nearest City or Town: Jal, NM

e. Legal Description:

Township (N/S)	Range (E/W)	Section
26S	33E	20
26S	33E	29

Projected legal description? [ ] **Yes** [x] **No** [ ] **Unplatted**

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

Salado Draw 29 26 33 Fed Com # 1H: 200 ft. FNL and 1,283 ft. FWL
Salado Draw 29 26 33 Fed Com # 2H: 200 ft. FNL and 1,308 ft. FWL
Salado Draw 29 26 33 Fed Com # 3H: 200 ft. FNL and 1,333 ft. FWL
Salado Draw 29 26 33 Fed Com # 4H: 200 ft. FNL and 1,358 ft. FWL

[ ] **Continuation**

18. Survey Field Methods:

NMCRIS No.: 131136

Intensity: ☑ 100% coverage ☐ <100% coverage

Configuration: ☑ block survey units ☑ linear survey units (l x w): 229 ft. x 100 ft.

☐ other survey units (specify):

Scope: ☑ non-selective (all sites/properties recorded) ☐ selective/thematic (selected sites/properties recorded)

Coverage Method: ☑ systematic pedestrian coverage

☐ other method (describe):

Survey Interval (m): 15 **Crew Size:** 2 **Fieldwork Dates:** from: 07-Jul-2014 to: 21-Jul-2014

Survey Person Hours: 1.50 **Recording Person Hours:** 0.50 **Total Hours:** 2.00

Additional Narrative:

The proposed project lies within ¼ mile of one previously recorded archaeological site: LA 89707. The southeastern corner of the cultural buffer intersects the boundaries of LA 89707 as plotted in ARMS GIS. As a result, both the ARMS and BLM/CFO GIS locations for LA 89707 were examined for cultural materials. The site was not relocated in either location and no treatment is recommended. For a detailed description of the site, see Table 1 on page 5.

[ ] Continuation

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

According to the Natural Resources Conservation Service' online database, the project area soil consists of Pyote soils and dune land. Pyote soils are all designated as "loamy sand" and typically support black grama, dropseed, and bluestem grasslands with an even distribution of sand sage and shinnery oak. Mesquite is also common to these soils. The current vegetative community consists of soapweed yucca, broom snakeweed, shinnery oak, mesquite, winterfat, littleleaf sumac, and desert grasses. The project area is situated approximately 3.75 miles south of Paduca Breaks and 23 miles east of the Pecos River. The elevation ranges from 3,200 ft to 3,220 ft above mean sea level.

[ ] Continuation

20.a. Percent Ground Visibility: 90% **b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**

The survey area lies includes a northwest/southeast running buried pipeline and is just east of a recently constructed frac pond.

[ ] Continuation

21. CULTURAL RESOURCE FINDINGS ☐ **Yes, see next report section** ☑ **No, discuss why:**

No cultural resources were encountered during the survey. ARMS GIS data places LA 89707 just within the southeastern corner of the cultural buffer; however, extensive examinations of both the ARMS GIS and BLM/CFO GIS plotting of LA 89707 failed to reveal any cultural materials.

[ ] Continuation

22. Attachments (check all appropriate boxes):

[x] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)

[x] Copy of NMCRIS Map Check (required)

[ ] LA Site Forms - new sites (with sketch map & topographic map) if applicable

[x] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)

[ ] Historic Cultural Property Inventory Forms, if applicable

[ ] List and Description of Isolates, if applicable

[ ] List and Description of Collections, if applicable

23. Other Attachments:

[ ] Photographs and Log

[x] Other Attachments (Describe): BLM/CFO Map

NMCRIS No.: 131136

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: Printed Name: Rebecca L. Hill

Signature: Rebecca Hill Date: 23 Jul 2014 Title: Principal Investigator

25. Reviewing Agency	26. SHPO
Reviewer's Name/Date:	Reviewer's Name/Date:
Accepted [ ] Rejected [ ]	HPD Log #:
	Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

SURVEY RESULTS:

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 0

Previously recorded archaeological sites not relocated (site update form required): 1

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0

Total isolates recorded: 0 ☑ Non-selective isolate recording?

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

MANAGEMENT SUMMARY:

According to ARMS GIS data, the southeastern corner of the cultural buffer surveyed for Chevron USA, Inc's proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H and #4H well pad, battery pad and access road intersected the boundaries of LA 89707. However, extensive examinations of both the ARMS GIS and BLM/CFO GIS plotting of LA 89707 failed to reveal any cultural materials; no further treatment is recommended and the project is recommended for approval as staked. If cultural materials are encountered during construction, work should be halted and archaeologists with BLM/CFO should be notified immediately.

[ ] Continuation

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. Field/Agency No. Eligible? (Y/N/U, applicable criteria)

NMCRIS No.: 131136

Previously recorded revisited sites/HCPI properties:

LA/HCPI No.	Field/Agency No.	Eligible? (Y/N/U, applicable criteria)
LA89707		Not Relocated

MONITORING LA NUMBER LOG (site form required)

Sites Discovered (site form required):		Previously recorded sites (site update form required):	
LA No.	**Field/Agency No.**	**LA No.**	**Field/Agency No.**

Areas outside known nearby site boundaries monitored? [ ] Yes [ ] No, Explain why:

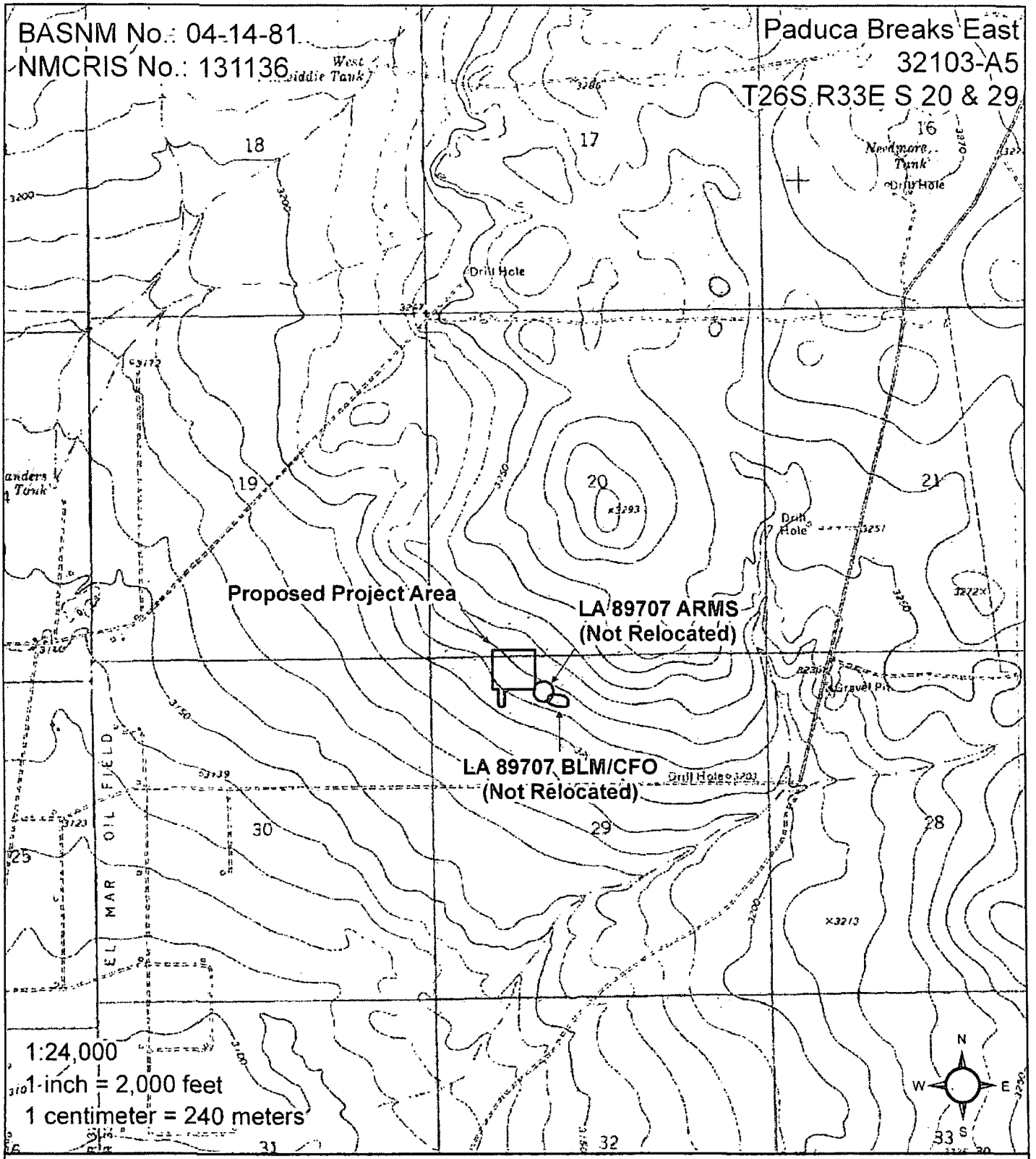
TESTING & EXCAVATION LA NUMBER LOG (site form required)

Tested LA number(s)	Excavated LA number(s)

Table 1. Previously Recorded Archaeological Sites within ¼ Mile.

LA No.	Cultural/Temporal Affiliation	Eligibility
89707	Unknown Aboriginal (9500 BC – 1880 AD)	Not Relocated

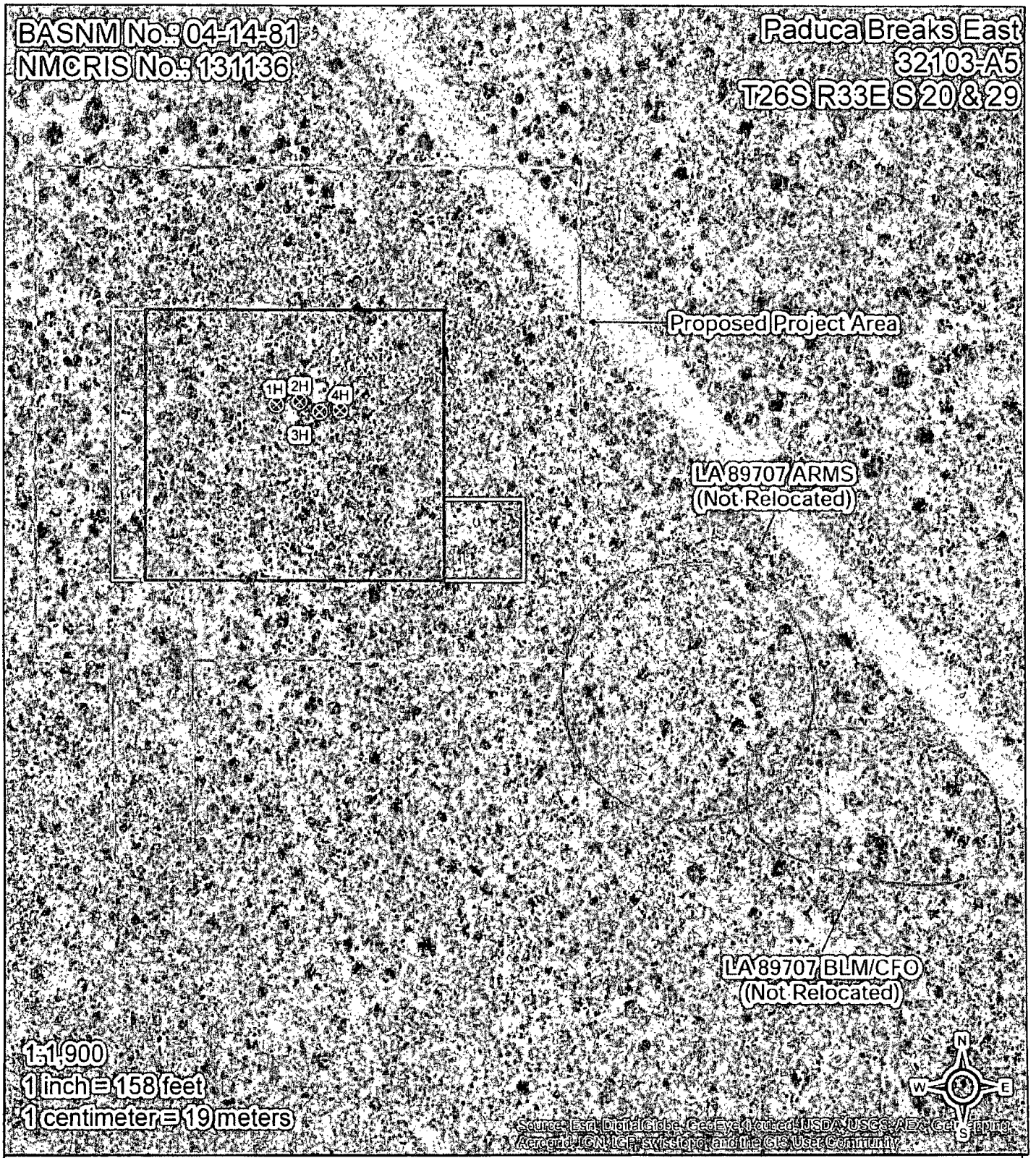
Chevron USA, Inc
Proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H & #4H
Well Pad, Battery Pad & Access Road



Legend

- Proposed Project Area
- Archaeological Site
- BLM
- BOR
- DOE
- Forest Service
- BOI
- NPS
- Private
- NM State Trust Land
- NM State Game and Fish
- NM State Park

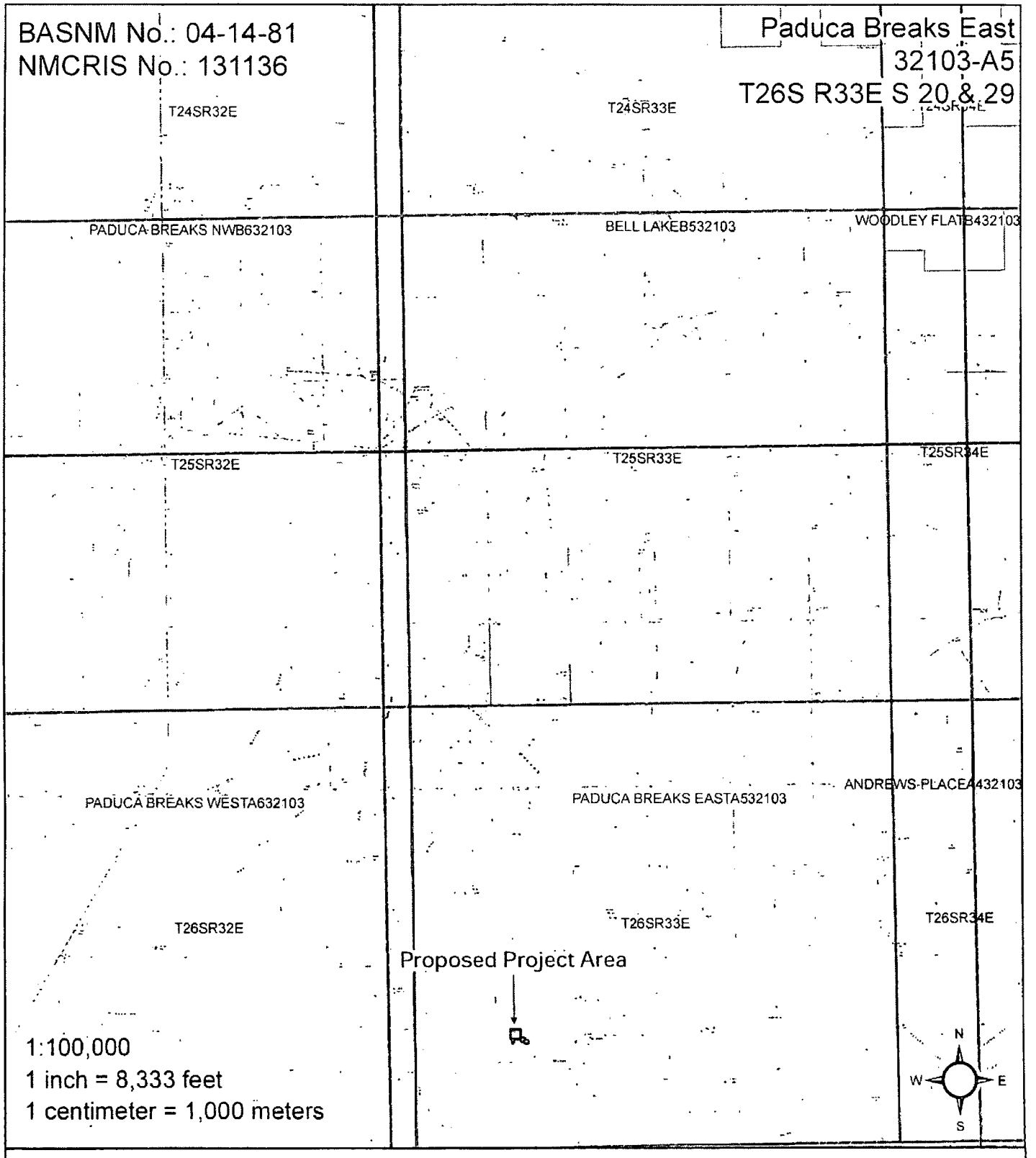
Chevron USA, Inc
Proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H & #4H
Well Pad, Battery Pad & Access Road



Legend

Drill Hole ◘ Proposed Project Area ◘ Well Pad Battery Pad ◘ Topsoil Stockpile ◘ Archaeological Site

Chevron USA, Inc
Proposed Salado Draw 29 26 33 Fed Com #1H, #2H, #3H & #4H
Well Pad, Battery Pad & Access Road



Legend

Proposed Project Area BLM DOE BOI Private NM State Game and Fish
Archaeological Site BOR Forest Service NPS NM State Trust Land NM State Park