

ATS-14-797

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM27506	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator CHEVRON USA INC. 4323		7. If Unit or CA Agreement, Name and No.	
3a. Address 1616 W. BENDER BLVD HOBBS, NM 88240		8. Lease Name and Well No. 313895 SALADO DRAW 18 26 33 FED #3H	
3b. Phone No. (include area code) 575-263-0431		9. API Well No. 70-023-42278	
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface 200' FNL & 1943' FWL At proposed prod. zone 280' FNL & 1670' FWL HOBBS OGD NOV 21 2014		10. Field and Pool, or Exploratory WILDCAT; BONE SPRING SHALE 97955	
14. Distance in miles and direction from nearest town or post office* 50 MILES WEST OF JAL, NEW MEXICO		11. Sec., T. R. M. or Blk. and Survey or Area SEC 19 T26S, R33E, UL; C (SHL) SEC 18 T26S, R33E, UL; C (BHL)	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200' FNL		12. County or Parish LEA	
16. No. of acres in lease 1,517.74 (NMNM27506)		13. State NM	
17. Spacing Unit dedicated to this well 160.0 ACRES			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1370 FT FROM GULF LITTLEFIELD FED #1		20. BLM/BIA Bond No. on file CA 0329	
19. Proposed Depth TD 9,135 MD 13,807			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3189'		22. Approximate date work will start*	
23. Estimated duration			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature Cindy Herrera-Murillo	Name (Printed/Typed) CINDY HERRERA-MURILLO	Date 06/04/2014
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Title
PERMITTING SPECIALIST

Approved by (Signature) Stephen J. Peltz	Name (Printed/Typed)	Date 11/21/14
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Title
FOR FIELD MANAGER

Office
CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

KZ
11/21/14

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

KZ

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler	2516	700	
Castile	216	3000	
Lamar	-1584	4800	
Bell Canyon	-1724	4940	
Cherry Canyon	-2634	5850	
Brushy Canyon	-4204	7420	
Bone Spring Limestone	-5574	8790	
Upr. Avalon	-5704	8920	
Pilot Hole TD	-6284	9500	
Lateral TD (Upper Avalon)	-5919	9135	13807

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		810
Water	Rustler	700
Water	Bell Canyon	4940
Water	Cherry Canyon	5850
Oil/Gas	Brushy Canyon	7420
Oil/Gas	Bone Spring Limestone	8790
Oil/Gas	Upr. Avalon	8920
Oil/Gas	Pilot Hole TD	9500

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Will have a minimum of a 5000 psi rig stack (see proposed schematic) for drill out below surface casing. Stack will be tested as specified in the attached testing requirements.

Chevron requests a variance to use a GE/Vetco SH-2 Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from GE/Vetco and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	850'	17-1/2"	13-3/8"	48 #	H-40	STC	New
Intermediate	0'	4765' 4,900'	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
Production	0'	13,807'	8-3/4"	5-1/2"	17.0 #	HCP-110	CDC	New

b. Casing design subject to revision based on geologic conditions encountered.

c. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Surface Casing: 1000'

Intermediate Casing: 5000'

Production Casing: 15,000' MD/9,135' TVD (6400' VS @ 90 deg inc)

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.42	1.63	2.29	1.8
Intermediate	1.2	1.44	2.09	1.44
Production	1.26	1.71	2.2	1.46

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int	Prod
Burst Design			
Pressure Test- Surface, Int, Prod Csg P external: Water P internal: Test psi + next section heaviest mud in csg	X	X	X
Displace to Gas- Surf Csg P external: Water P internal: Dry Gas from Next Csg Point	X		
Frac at Shoe, Gas to Surf- Int Csg P external: Water P internal: Dry Gas, 15 ppg Frac Gradient		X	
Stimulation (Frac) Pressures- Prod Csg P external: Water P internal: Max inj pressure w/ heaviest injected fluid			X
Tubing leak- Prod Csg (packer at KOP) P external: Water P internal: Leak just below surf, 8.7 ppg packer fluid			X
Collapse Design			
Full Evacuation P external: Water gradient in cement, mud above TOC P internal: none	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: water	X	X	X
Tension Design			
100k lb overpull	X	X	X

5. CEMENTING PROGRAM

Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C + 2%CaCl	0'	850'	14.8	1.35	125	1011	6.57
Intermediate								
Lead	EconoCem C + 3 lb/sk Kol-Seal + 0.125 lb/sk PolyFlake + 0.1% HR-601 + 0.25% D-Air 5000	0'	3,920'	11.9	2.46	150	1107	14.21
Tail	HalCem C	3,920'	4,900'	14.8	1.33	85	456	6.37
Production								
1st Lead	VariCem-PB1 + 0.1% FWCA + 3 lb/sk Kol-Seal + 0.1% HR-601	4,050'	8,686'	11.3	2.54	50	652	15.51
2nd Lead	VariCem-PB2 + 0.5% Halad-344 + 0.3% CFR-3 + 3 lb/sk KolSeal + 0.05% FE-2 + 0.1% HR-601	8,686'	12,659'	12.5	1.81	35	752	9.64
Tail	SoluCem H + 0.25 lb/sk D-Air 5000	12,659'	13,807'	15	2.63	0	110	11.42

1. Final cement volumes will be determined by caliper.
2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

Pilot Hole Plugging Plan:

The 8-3/4" pilot hole will TD at the base of the Upper Avalon at ~9,500' (exact depth of Pilot TD will depend on geologic tops encountered while drilling). An open hole cemented whipstock will be utilized with 2-7/8" tail pipe. The tail 2-7/8" tail pipe will be cemented in place from the Pilot hole TD of 9,500' MD/TVD to the whipstock/KOP at 8,636' MD/TVD (KOP subject to change after evaluating Pilot Hole logs).

Plug	Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Mix Water
					(ppg)	(sx/cu ft)	Open Hole		Gal/Sk
Pilot Hole Plug	Plug Cement	Class H	8,636'	9,500'	17.2	0.97	35	502	3.61

6. MUD PROGRAM

From	To	Type	Weight	F. Vis	Filtrate
0'	850'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
850'	4,900'	Brine	9.5 - 10.1	28 - 30	NC - NC
4,900'	8,686'	FW/Cut Brine	8.3 - 9.6	28 - 30	NC - NC
8,686'	9,500'	Cut Brine	8.3 - 9.6	28 - 29	NC - NC
8,686'	9,414'	Cut Brine	8.3 - 9.6	28 - 30	15 - 25
9,414'	13,807'	FW/Cut Brine	8.3 - 9.6	28 - 30	15 - 25

Pilot Hole

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 an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

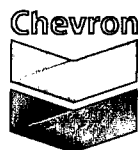
- Drill stem tests are not planned.
- The logging program will be as follows:

TYPE	Logs	Interval	Timing	Vendor
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

- Conventional whole core samples are not planned.
- A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- No abnormal pressures or temperatures are expected. Estimated BHP is: 4750 psi
- Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14
Rig: Original Well Elev



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.85°
Magnetic Field
Strength: 48210.5nT
Dip Angle: 59.93°
Date: 2014/05/07
Model: IGRF2010_14

WELL DETAILS

+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude
0.00	0.00	377418.00	3189.00	723192.00	32° 2' 8.12739 N	103° 36' 47.07645 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		KOP: 1.00°/100' Build
2	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00		Hold 3.28° Inc, 321.98° Azm
3	1527.71	3.28	321.98	1527.53	7.38	-5.77	1.00	321.98	7.71		Begin 12.00°/100' Build & Turn
4	6686.31	3.28	321.98	6674.43	329.78	-257.80	0.00	0.00	344.36		LP: Hold 89.93° Inc
5	9414.15	89.93	359.62	9135.00	806.10	-276.86	12.00	37.68	820.97		
6	13807.15	89.93	359.62	9135.00	5199.00	-306.00	0.00	0.00	5208.00	BHL - Salado Draw 18 26 33 Fed 3H	TD at 13807.15

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Site Salado Draw 18 26 33 Fed, Grid North
Latitude: 32° 2' 8.12739 N
Longitude: 103° 36' 47.07645 W
Grid East: 723192.00
Grid North: 377418.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 07-May-14
Magnetic Declination: 7.24°
Dip Angle from Horizontal: 59.93°
Magnetic Field Strength: 48211

To convert a Magnetic Direction to a Grid Direction, Add 6.85°
To convert a Magnetic Direction to a True Direction, Add 7.24° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

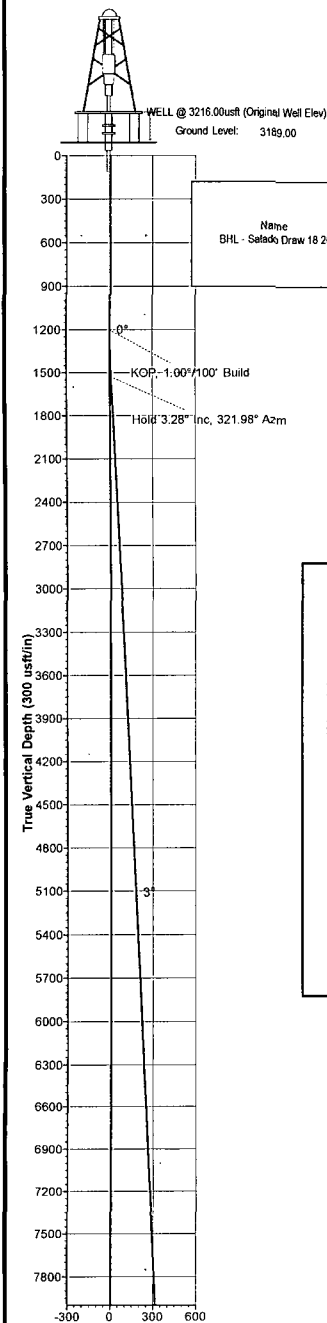
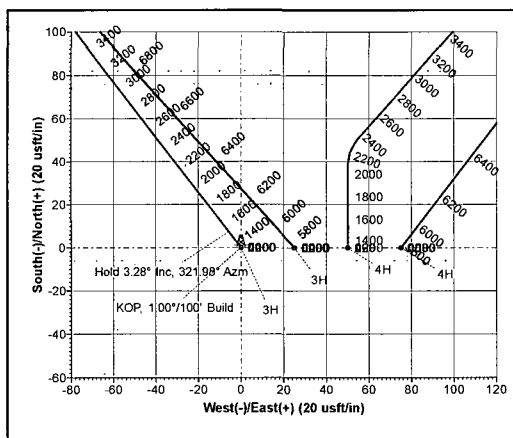
DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
BHL - Salado Draw 18 26 33 Fed 3H	9135.00	5199.00	-306.00	382617.00	722886.00	32° 2' 59.58629 N	103° 36' 50.22881 W	Point

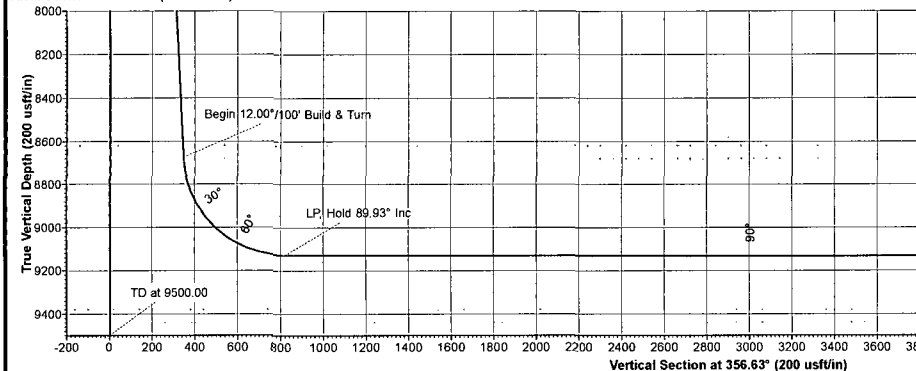
- plan hits target center

LEGEND

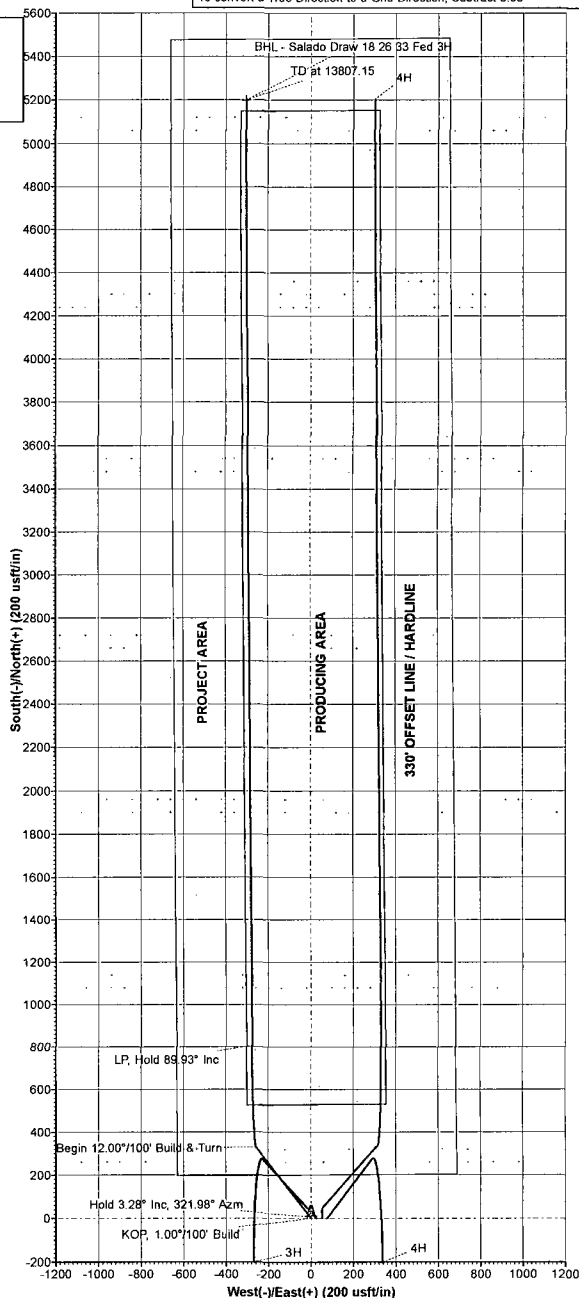
- 4H, Wellbore #1, Plan 1 05-07-14 V0
- 3H, Wellbore #1, Plan 1 05-07-14 V0
- 4H, Wellbore #1, Plan 2 05-08-14 V0
- 3H, Wellbore #1, Pilot Hole V0
- Plan 2 05-08-14

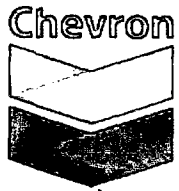


Vertical Section at 356.63° (300 usf/in)



Vertical Section at 356.63° (200 usf/in)





Chevron

**Lea County NM (NAD27 NME)
Salado Draw 18 26 33 Fed
3H
Wellbore #2**

Plan: Plan 2 05-08-14

Planning Report

08 May, 2014





Planning Report



Company:	Chevron	Local Co-ordinate Reference:	Site Salado Draw 18 26 33 Fed
Project:	Lea County NM (NAD27 NME)	TVD Reference:	WELL @ 3216.00usft (Original Well Elev)
Site:	Salado Draw 18 26 33 Fed	MD Reference:	WELL @ 3216.00usft (Original Well Elev)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2 05-08-14	Database:	GCR DB v5000

Project	Lea County NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Salado Draw 18 26 33 Fed		
Site Position:		Northing:	377,418.00 usft
From:	Map	Easting:	723,192.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 8.12739 N
		Longitude:	103° 36' 47.07645 W
		Grid Convergence:	0.38 °

Well	3H		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			usft
			Latitude:
			32° 2' 8.12739 N
			Longitude:
			103° 36' 47.07645 W
			Ground Level:
			3,189.00 usft

Wellbore	Wellbore #2					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2010_14	2014/05/07	7.24	59.93	48,211	

Design	Plan 2 05-08-14				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	356.63	

Survey Tool Program	Date	2014/05/08			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,807.15	Plan 2 05-08-14 (Wellbore #2)	MWD	MWD - Standard	



Planning Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14

Local Co-ordinate Reference: Site Salado Draw 18 26 33 Fed
TVD Reference: WELL @ 3216.00usft (Original Well Elev)
MD Reference: WELL @ 3216.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
0.00	0.00	0.00	-3,216.00	0.00	0.00	0.00	377,418.00	723,192.00	0.00	0.00
1,200.00	0.00	0.00	-2,016.00	1,200.00	0.00	0.00	377,418.00	723,192.00	0.00	0.00
KOP, 1.00°/100' Build										
1,300.00	1.00	321.98	-1,916.01	1,299.99	0.69	-0.54	377,418.69	723,191.46	0.72	1.00
1,400.00	2.00	321.98	-1,816.04	1,399.96	2.75	-2.15	377,420.75	723,189.85	2.87	1.00
1,500.00	3.00	321.98	-1,716.14	1,499.86	6.19	-4.84	377,424.19	723,187.16	6.46	1.00
1,527.71	3.28	321.98	-1,688.47	1,527.53	7.38	-5.77	377,425.38	723,186.23	7.71	1.00
Hold 3.28° Inc, 321.98° Azm										
1,600.00	3.28	321.98	-1,616.30	1,599.70	10.64	-8.32	377,428.64	723,183.68	11.11	0.00
1,700.00	3.28	321.98	-1,516.46	1,699.54	15.14	-11.84	377,433.14	723,180.16	15.81	0.00
1,800.00	3.28	321.98	-1,416.62	1,799.38	19.64	-15.36	377,437.64	723,176.64	20.51	0.00
1,900.00	3.28	321.98	-1,316.79	1,899.21	24.15	-18.88	377,442.15	723,173.12	25.22	0.00
2,000.00	3.28	321.98	-1,216.95	1,999.05	28.65	-22.40	377,446.65	723,169.60	29.92	0.00
2,100.00	3.28	321.98	-1,117.11	2,098.89	33.16	-25.92	377,451.16	723,166.08	34.62	0.00
2,200.00	3.28	321.98	-1,017.28	2,198.72	37.66	-29.44	377,455.66	723,162.56	39.32	0.00
2,300.00	3.28	321.98	-917.44	2,298.56	42.16	-32.96	377,460.16	723,159.04	44.03	0.00
2,400.00	3.28	321.98	-817.61	2,398.39	46.67	-36.48	377,464.67	723,155.52	48.73	0.00
2,500.00	3.28	321.98	-717.77	2,498.23	51.17	-40.00	377,469.17	723,152.00	53.43	0.00
2,600.00	3.28	321.98	-617.93	2,598.07	55.67	-43.52	377,473.67	723,148.48	58.14	0.00
2,700.00	3.28	321.98	-518.10	2,697.90	60.18	-47.04	377,478.18	723,144.96	62.84	0.00
2,800.00	3.28	321.98	-418.26	2,797.74	64.68	-50.56	377,482.68	723,141.44	67.54	0.00
2,900.00	3.28	321.98	-318.42	2,897.58	69.19	-54.08	377,487.19	723,137.92	72.24	0.00
3,000.00	3.28	321.98	-218.59	2,997.41	73.69	-57.60	377,491.69	723,134.40	76.95	0.00
3,100.00	3.28	321.98	-118.75	3,097.25	78.19	-61.12	377,496.19	723,130.88	81.65	0.00
3,200.00	3.28	321.98	-18.91	3,197.09	82.70	-64.64	377,500.70	723,127.36	86.35	0.00
3,300.00	3.28	321.98	80.92	3,296.92	87.20	-68.17	377,505.20	723,123.83	91.05	0.00
3,400.00	3.28	321.98	180.76	3,396.76	91.70	-71.69	377,509.70	723,120.31	95.76	0.00



Planning Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14

Local Co-ordinate Reference: Site Salado Draw 18 26 33 Fed
TVD Reference: WELL @ 3216.00usft (Original Well Elev)
MD Reference: WELL @ 3216.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
3,500.00	3.28	321.98	280.60	3,496.60	96.21	-75.21	377,514.21	723,116.79	100.46	0.00
3,600.00	3.28	321.98	380.43	3,596.43	100.71	-78.73	377,518.71	723,113.27	105.16	0.00
3,700.00	3.28	321.98	480.27	3,696.27	105.21	-82.25	377,523.21	723,109.75	109.87	0.00
3,800.00	3.28	321.98	580.11	3,796.11	109.72	-85.77	377,527.72	723,106.23	114.57	0.00
3,900.00	3.28	321.98	679.94	3,895.94	114.22	-89.29	377,532.22	723,102.71	119.27	0.00
4,000.00	3.28	321.98	779.78	3,995.78	118.73	-92.81	377,536.73	723,099.19	123.97	0.00
4,100.00	3.28	321.98	879.62	4,095.62	123.23	-96.33	377,541.23	723,095.67	128.68	0.00
4,200.00	3.28	321.98	979.45	4,195.45	127.73	-99.85	377,545.73	723,092.15	133.38	0.00
4,300.00	3.28	321.98	1,079.29	4,295.29	132.24	-103.37	377,550.24	723,088.63	138.08	0.00
4,400.00	3.28	321.98	1,179.12	4,395.12	136.74	-106.89	377,554.74	723,085.11	142.79	0.00
4,500.00	3.28	321.98	1,278.96	4,494.96	141.24	-110.41	377,559.24	723,081.59	147.49	0.00
4,600.00	3.28	321.98	1,378.80	4,594.80	145.75	-113.93	377,563.75	723,078.07	152.19	0.00
4,700.00	3.28	321.98	1,478.63	4,694.63	150.25	-117.45	377,568.25	723,074.55	156.89	0.00
4,800.00	3.28	321.98	1,578.47	4,794.47	154.76	-120.97	377,572.76	723,071.03	161.60	0.00
4,900.00	3.28	321.98	1,678.31	4,894.31	159.26	-124.49	377,577.26	723,067.51	166.30	0.00
5,000.00	3.28	321.98	1,778.14	4,994.14	163.76	-128.02	377,581.76	723,063.98	171.00	0.00
5,100.00	3.28	321.98	1,877.98	5,093.98	168.27	-131.54	377,586.27	723,060.46	175.70	0.00
5,200.00	3.28	321.98	1,977.82	5,193.82	172.77	-135.06	377,590.77	723,056.94	180.41	0.00
5,300.00	3.28	321.98	2,077.65	5,293.65	177.27	-138.58	377,595.27	723,053.42	185.11	0.00
5,400.00	3.28	321.98	2,177.49	5,393.49	181.78	-142.10	377,599.78	723,049.90	189.81	0.00
5,500.00	3.28	321.98	2,277.33	5,493.33	186.28	-145.62	377,604.28	723,046.38	194.52	0.00
5,600.00	3.28	321.98	2,377.16	5,593.16	190.79	-149.14	377,608.79	723,042.86	199.22	0.00
5,700.00	3.28	321.98	2,477.00	5,693.00	195.29	-152.66	377,613.29	723,039.34	203.92	0.00
5,800.00	3.28	321.98	2,576.84	5,792.84	199.79	-156.18	377,617.79	723,035.82	208.62	0.00
5,900.00	3.28	321.98	2,676.67	5,892.67	204.30	-159.70	377,622.30	723,032.30	213.33	0.00
6,000.00	3.28	321.98	2,776.51	5,992.51	208.80	-163.22	377,626.80	723,028.78	218.03	0.00
6,100.00	3.28	321.98	2,876.34	6,092.34	213.30	-166.74	377,631.30	723,025.26	222.73	0.00



Planning Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14

Local Co-ordinate Reference: Site Salado Draw 18 26 33 Fed
TVD Reference: WELL @ 3216.00usft (Original Well Elev)
MD Reference: WELL @ 3216.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
6,200.00	3.28	321.98	2,976.18	6,192.18	217.81	-170.26	377,635.81	723,021.74	227.43	0.00
6,300.00	3.28	321.98	3,076.02	6,292.02	222.31	-173.78	377,640.31	723,018.22	232.14	0.00
6,400.00	3.28	321.98	3,175.85	6,391.85	226.81	-177.30	377,644.81	723,014.70	236.84	0.00
6,500.00	3.28	321.98	3,275.69	6,491.69	231.32	-180.82	377,649.32	723,011.18	241.54	0.00
6,600.00	3.28	321.98	3,375.53	6,591.53	235.82	-184.34	377,653.82	723,007.66	246.25	0.00
6,700.00	3.28	321.98	3,475.36	6,691.36	240.33	-187.87	377,658.33	723,004.13	250.95	0.00
6,800.00	3.28	321.98	3,575.20	6,791.20	244.83	-191.39	377,662.83	723,000.61	255.65	0.00
6,900.00	3.28	321.98	3,675.04	6,891.04	249.33	-194.91	377,667.33	722,997.09	260.35	0.00
7,000.00	3.28	321.98	3,774.87	6,990.87	253.84	-198.43	377,671.84	722,993.57	265.06	0.00
7,100.00	3.28	321.98	3,874.71	7,090.71	258.34	-201.95	377,676.34	722,990.05	269.76	0.00
7,200.00	3.28	321.98	3,974.55	7,190.55	262.84	-205.47	377,680.84	722,986.53	274.46	0.00
7,300.00	3.28	321.98	4,074.38	7,290.38	267.35	-208.99	377,685.35	722,983.01	279.17	0.00
7,400.00	3.28	321.98	4,174.22	7,390.22	271.85	-212.51	377,689.85	722,979.49	283.87	0.00
7,500.00	3.28	321.98	4,274.06	7,490.06	276.36	-216.03	377,694.36	722,975.97	288.57	0.00
7,600.00	3.28	321.98	4,373.89	7,589.89	280.86	-219.55	377,698.86	722,972.45	293.27	0.00
7,700.00	3.28	321.98	4,473.73	7,689.73	285.36	-223.07	377,703.36	722,968.93	297.98	0.00
7,800.00	3.28	321.98	4,573.56	7,789.56	289.87	-226.59	377,707.87	722,965.41	302.68	0.00
7,900.00	3.28	321.98	4,673.40	7,889.40	294.37	-230.11	377,712.37	722,961.89	307.38	0.00
8,000.00	3.28	321.98	4,773.24	7,989.24	298.87	-233.63	377,716.87	722,958.37	312.08	0.00
8,100.00	3.28	321.98	4,873.07	8,089.07	303.38	-237.15	377,721.38	722,954.85	316.79	0.00
8,200.00	3.28	321.98	4,972.91	8,188.91	307.88	-240.67	377,725.88	722,951.33	321.49	0.00
8,300.00	3.28	321.98	5,072.75	8,288.75	312.38	-244.19	377,730.38	722,947.81	326.19	0.00
8,400.00	3.28	321.98	5,172.58	8,388.58	316.89	-247.72	377,734.89	722,944.28	330.90	0.00
8,500.00	3.28	321.98	5,272.42	8,488.42	321.39	-251.24	377,739.39	722,940.76	335.60	0.00
8,600.00	3.28	321.98	5,372.26	8,588.26	325.90	-254.76	377,743.90	722,937.24	340.30	0.00
8,686.31	3.28	321.98	5,458.43	8,674.43	329.78	-257.79	377,747.78	722,934.21	344.36	0.00

Begin 12.00°/100' Build & Turn



Planning Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14

Local Co-ordinate Reference: Site Salado Draw 18 26 33 Fed
TVD Reference: WELL @ 3216.00usft (Original Well Elev)
MD Reference: WELL @ 3216.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
8,700.00	4.69	334.37	5,472.08	8,688.08	330.60	-258.28	377,748.60	722,933.72	345.20	12.00
8,800.00	16.36	352.78	5,570.25	8,786.25	348.31	-261.83	377,766.31	722,930.17	363.09	12.00
8,900.00	28.30	355.90	5,662.59	8,878.59	386.06	-265.30	377,804.06	722,926.70	400.99	12.00
9,000.00	40.28	357.26	5,745.06	8,961.06	442.20	-268.56	377,860.20	722,923.44	457.22	12.00
9,100.00	52.26	358.07	5,814.06	9,030.06	514.27	-271.45	377,932.27	722,920.55	529.33	12.00
9,200.00	64.25	358.66	5,866.57	9,082.57	599.13	-273.84	378,017.13	722,918.16	614.18	12.00
9,300.00	76.25	359.13	5,900.30	9,116.30	693.06	-275.64	378,111.06	722,916.36	708.05	12.00
9,400.00	88.24	359.56	5,913.78	9,129.78	791.95	-276.76	378,209.95	722,915.24	806.85	12.00
9,414.15	89.93	359.62	5,914.00	9,130.00	806.10	-276.86	378,224.10	722,915.14	820.98	12.00
LP, Hold 89.93° Inc										
9,500.00	89.93	359.62	5,914.10	9,130.10	891.95	-277.43	378,309.95	722,914.57	906.71	0.00
9,600.00	89.93	359.62	5,914.21	9,130.21	991.95	-278.10	378,409.95	722,913.90	1,006.57	0.00
9,700.00	89.93	359.62	5,914.33	9,130.33	1,091.94	-278.76	378,509.94	722,913.24	1,106.44	0.00
9,800.00	89.93	359.62	5,914.44	9,130.44	1,191.94	-279.42	378,609.94	722,912.58	1,206.30	0.00
9,900.00	89.93	359.62	5,914.55	9,130.55	1,291.94	-280.09	378,709.94	722,911.91	1,306.16	0.00
10,000.00	89.93	359.62	5,914.67	9,130.67	1,391.94	-280.75	378,809.94	722,911.25	1,406.03	0.00
10,100.00	89.93	359.62	5,914.78	9,130.78	1,491.94	-281.41	378,909.94	722,910.59	1,505.89	0.00
10,200.00	89.93	359.62	5,914.90	9,130.90	1,591.93	-282.08	379,009.93	722,909.92	1,605.76	0.00
10,300.00	89.93	359.62	5,915.01	9,131.01	1,691.93	-282.74	379,109.93	722,909.26	1,705.62	0.00
10,400.00	89.93	359.62	5,915.12	9,131.12	1,791.93	-283.40	379,209.93	722,908.60	1,805.48	0.00
10,500.00	89.93	359.62	5,915.24	9,131.24	1,891.93	-284.07	379,309.93	722,907.93	1,905.35	0.00
10,600.00	89.93	359.62	5,915.35	9,131.35	1,991.92	-284.73	379,409.92	722,907.27	2,005.21	0.00
10,700.00	89.93	359.62	5,915.46	9,131.46	2,091.92	-285.39	379,509.92	722,906.61	2,105.08	0.00
10,800.00	89.93	359.62	5,915.58	9,131.58	2,191.92	-286.06	379,609.92	722,905.94	2,204.94	0.00
10,900.00	89.93	359.62	5,915.69	9,131.69	2,291.92	-286.72	379,709.92	722,905.28	2,304.80	0.00
11,000.00	89.93	359.62	5,915.81	9,131.81	2,391.92	-287.38	379,809.92	722,904.62	2,404.67	0.00
11,100.00	89.93	359.62	5,915.92	9,131.92	2,491.91	-288.05	379,909.91	722,903.95	2,504.53	0.00



Planning Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Salado Draw 18 26 33 Fed
Well: 3H
Wellbore: Wellbore #2
Design: Plan 2 05-08-14

Local Co-ordinate Reference: Site Salado Draw 18 26 33 Fed
TVD Reference: WELL @ 3216.00usft (Original Well Elev)
MD Reference: WELL @ 3216.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
11,200.00	89.93	359.62	5,916.03	9,132.03	2,591.91	-288.71	380,009.91	722,903.29	2,604.40	0.00
11,300.00	89.93	359.62	5,916.15	9,132.15	2,691.91	-289.37	380,109.91	722,902.63	2,704.26	0.00
11,400.00	89.93	359.62	5,916.26	9,132.26	2,791.91	-290.04	380,209.91	722,901.96	2,804.12	0.00
11,500.00	89.93	359.62	5,916.37	9,132.37	2,891.90	-290.70	380,309.90	722,901.30	2,903.99	0.00
11,600.00	89.93	359.62	5,916.49	9,132.49	2,991.90	-291.36	380,409.90	722,900.64	3,003.85	0.00
11,700.00	89.93	359.62	5,916.60	9,132.60	3,091.90	-292.02	380,509.90	722,899.98	3,103.72	0.00
11,800.00	89.93	359.62	5,916.72	9,132.72	3,191.90	-292.69	380,609.90	722,899.31	3,203.58	0.00
11,900.00	89.93	359.62	5,916.83	9,132.83	3,291.89	-293.35	380,709.89	722,898.65	3,303.44	0.00
12,000.00	89.93	359.62	5,916.94	9,132.94	3,391.89	-294.01	380,809.89	722,897.99	3,403.31	0.00
12,100.00	89.93	359.62	5,917.06	9,133.06	3,491.89	-294.68	380,909.89	722,897.32	3,503.17	0.00
12,200.00	89.93	359.62	5,917.17	9,133.17	3,591.89	-295.34	381,009.89	722,896.66	3,603.04	0.00
12,300.00	89.93	359.62	5,917.28	9,133.28	3,691.89	-296.00	381,109.89	722,896.00	3,702.90	0.00
12,400.00	89.93	359.62	5,917.40	9,133.40	3,791.88	-296.67	381,209.88	722,895.33	3,802.76	0.00
12,500.00	89.93	359.62	5,917.51	9,133.51	3,891.88	-297.33	381,309.88	722,894.67	3,902.63	0.00
12,600.00	89.93	359.62	5,917.63	9,133.63	3,991.88	-297.99	381,409.88	722,894.01	4,002.49	0.00
12,700.00	89.93	359.62	5,917.74	9,133.74	4,091.88	-298.66	381,509.88	722,893.34	4,102.36	0.00
12,800.00	89.93	359.62	5,917.85	9,133.85	4,191.87	-299.32	381,609.87	722,892.68	4,202.22	0.00
12,900.00	89.93	359.62	5,917.97	9,133.97	4,291.87	-299.98	381,709.87	722,892.02	4,302.08	0.00
13,000.00	89.93	359.62	5,918.08	9,134.08	4,391.87	-300.65	381,809.87	722,891.35	4,401.95	0.00
13,100.00	89.93	359.62	5,918.20	9,134.20	4,491.87	-301.31	381,909.87	722,890.69	4,501.81	0.00
13,200.00	89.93	359.62	5,918.31	9,134.31	4,591.87	-301.97	382,009.87	722,890.03	4,601.68	0.00
13,300.00	89.93	359.62	5,918.42	9,134.42	4,691.86	-302.64	382,109.86	722,889.36	4,701.54	0.00
13,400.00	89.93	359.62	5,918.54	9,134.54	4,791.86	-303.30	382,209.86	722,888.70	4,801.40	0.00
13,500.00	89.93	359.62	5,918.65	9,134.65	4,891.86	-303.96	382,309.86	722,888.04	4,901.27	0.00
13,600.00	89.93	359.62	5,918.76	9,134.76	4,991.86	-304.63	382,409.86	722,887.37	5,001.13	0.00
13,700.00	89.93	359.62	5,918.88	9,134.88	5,091.85	-305.29	382,509.85	722,886.71	5,100.99	0.00
13,800.00	89.93	359.62	5,918.99	9,134.99	5,191.85	-305.95	382,609.85	722,886.05	5,200.86	0.00



Planning Report



Company:	Chevron	Local Co-ordinate Reference:	Site Salado Draw 18 26 33 Fed
Project:	Lea County NM (NAD27 NME)	TVD Reference:	WELL @ 3216.00usft (Original Well Elev)
Site:	Salado Draw 18 26 33 Fed	MD Reference:	WELL @ 3216.00usft (Original Well Elev)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2 05-08-14	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
13,807.15	89.93	359.62	5,919.00	9,135.00	5,199.00	-306.00	382,617.00	722,886.00	5,208.00	0.00
TD at 13807.15										

Checked By: _____	Approved By: _____	Date: _____
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BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi

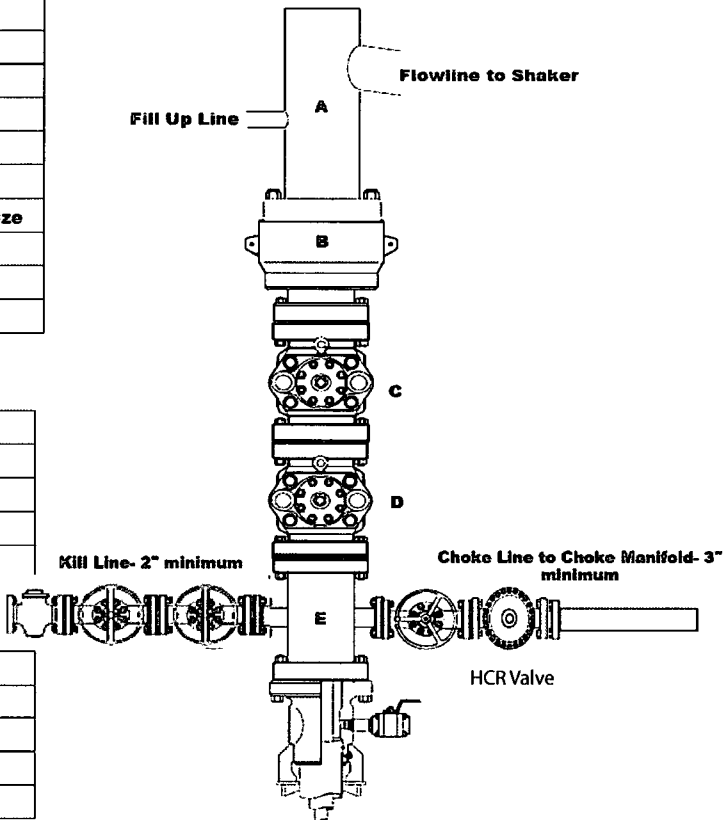
SIZE	PRESSURE	DESCRIPTION
A		N/A
B	13 5/8"	5,000 psi
C	13 5/8"	5,000 psi
D	13 5/8"	5,000 psi
E	13 5/8"	5,000 psi
F		
DSA	As required for each hole size	
C-Sec		
B-Sec	13-5/8"	5K x 11" 5K
A-Sec	13-3/8"	SOW x 13-5/8" 5K

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 through flow.
- ☐ The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tress, 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: _____

CHOKE MANIFOLD SCHEMATIC

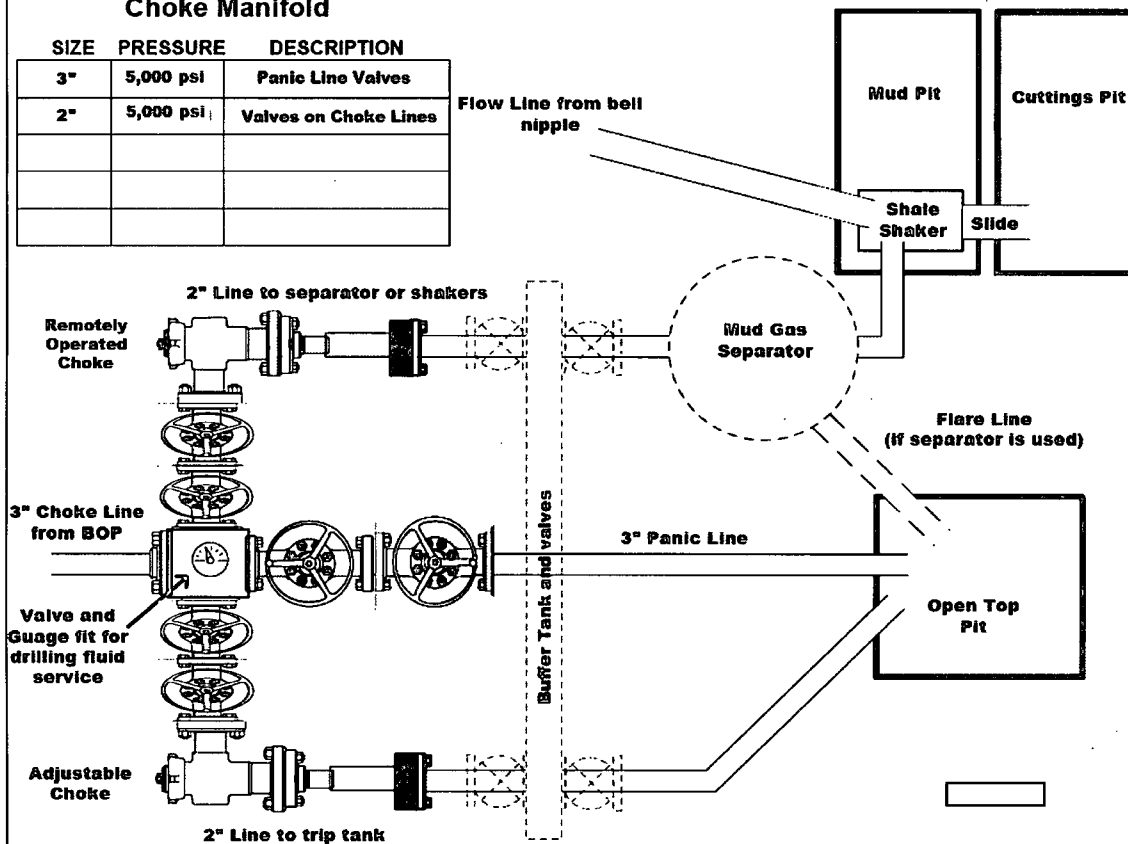
Minimum Requirements

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



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.
- ☐ 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 tress, 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. Reservoir 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 checked 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.

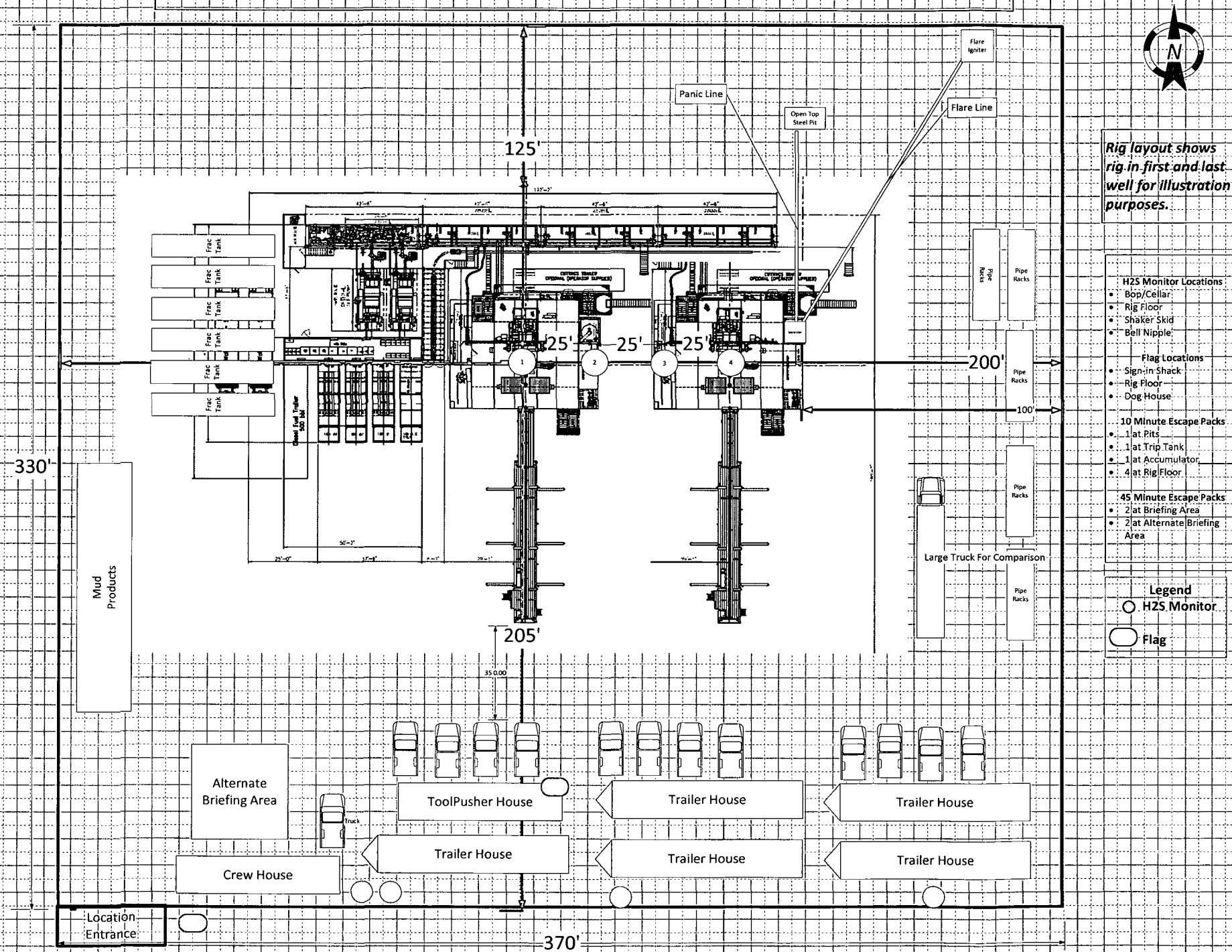
Wellname: _____

Representative: _____

Date: _____

Exhibit D

Nabors Pace X Section 18 – 19 1st Pad



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

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 Risk" 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.

1WY ARCH AREA CORNER		NE ARCH AREA CORNER		SE ARCH AREA CORNER		SW ARCH AREA CORNER		SALADO DRAW 18 26 33 FED 3H WELL	
X= 722.857	NAD 27	X= 723.564	NAD 27	X= 723.569	NAD 27	X= 722.894	NAD 27	X= 723.192	NAD 27
Y= 377.215		Y= 377.171		Y= 377.121		Y= 377.115		Y= 377.418	
ELEVATION +3187 NAVD 88		ELEVATION +3190 NAVD 88		ELEVATION +3195 NAVD 88		ELEVATION +3189 NAVD 88		LAT. 32.03590	
1W TOP SOIL AREA CORNER		NE TOP SOIL AREA CORNER		SE TOP SOIL AREA CORNER/NE PAD CORNER		SW TOP SOIL AREA CORNER/SW PAD CORNER		LONG. 103.613078	
X= 723.029	NAD 27	X= 723.390	NAD 27	X= 723.391	NAD 27	X= 723.071	NAD 27	X= 724.379	NAD 27
Y= 377.582		Y= 377.584		Y= 377.544		Y= 377.542		Y= 377.475	
ELEVATION +3189 NAVD 88		ELEVATION +3190 NAVD 88		ELEVATION +3190 NAVD 88		ELEVATION +3189 NAVD 88		LAT. 32.035715	
				SE PAD CORNER		SW PAD CORNER		LONG. 103.613546	
				X= 723.393	NAD 27	X= 723.073	NAD 27	ELEVATION +3189 NAVD 88	
				Y= 377.214		Y= 377.212			
				ELEVATION +3192 NAVD 88		ELEVATION +3191 NAVD 88			

R 33 E

Sec. 18
Bureau of Land Management

Existing Fence Line
Existing 10' Wide Dirt Road

PROPOSED TOP SOIL AREA ±0.34 Acres
PROPOSED PAD ±2.80 Acres
PROPOSED ARCHAEOLOGICAL AREA ±6.50 Acres

T 26 S

Salado Draw
18 26 33 Fed 3H Well
200' PHL
1,943' FWL

Sec. 19
Bureau of Land Management

PROPOSED ACCESS ROAD 14' X 1343' ±0.11 Acres ±20.79 Rods

To Proposed Salado Draw 18 & 19 26 33 Fed 1H-2H Drillsite

LEGEND
- - - - - Section Line
X Fence Line
- - - - - Lease Road
- - - - - Existing Pipeline
- - - - - Proposed R.O.W.

PROPOSED ACCESS ROAD 14' X 28,383' ±2.67 Acres ±203.21 Rods

Proposed Electric Line R.O.W.

Proposed Frac Pond (As-Staked)

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROADS
SALADO DRAW 18 26 33 FED 3H WELL
SECTION 19, T26S-R33E
LEA COUNTY, NEW MEXICO

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

Scale: 1"=100'

FENSTERMAKER
130 Regency Sq. Lafayette, LA 70508
Ph. 337/237-2200 Fax. 337/232-3239
www.fenstermaker.com

REVISIONS
PROJ MGR: VHV No. 1 DATE: 05/28/2014 REVISED BY: VHV
DATE: APRIL 23, 2014 No. 2 DATE: 07/07/2014 REVISED BY: BOR
FILENAME: T:\2014\2144695\DWG\SALADO DRAW 18 26 33 Fed 3H_SUP.dwg

Page 1 of 2

EXHIBIT A4

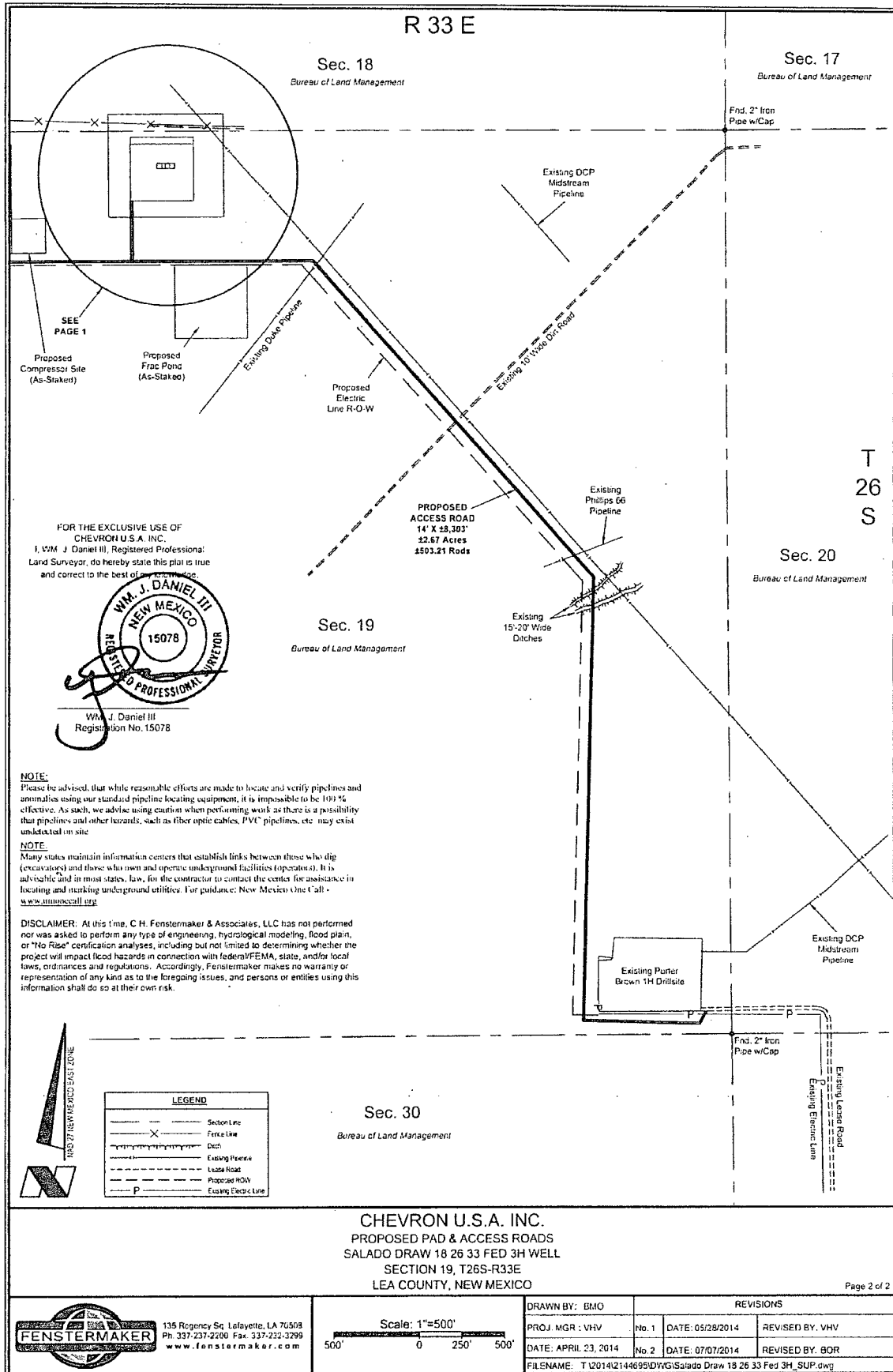


EXHIBIT A4

