1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Ground Elevation	3148	0	
Rustler	2498	650	
Castile	148	3000	
Lamar	-1552	4700	
Bell Canyon	-1832	4980	
Cherry Canyon	-2727	5875	
Brushy Canyon	-4277	7425	
Bone Spring Limestone	-5657	8805	
Upper Avalon	-5727	8875	
Lateral TD (Upper Avalon)	-5895	9043	13903

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 Ex	spected Base of Fresh Water	500
Water	Rustler	650
Water	Bell Canyon	4980
Water	Cherry Canyon	5875
Oil/Gas	Brushy Canyon	7425
Oil/Gas	Bone Spring Limestone	8805
Oil/Gas	Upper Avalon	8875

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 FMC UH2 Multibowl wellhead, which will be run through the rig foor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC 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.

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN

PAGE:

2

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	TVD	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	650'	650'	17-1/2"	13-3/8"	54.5 #	J55	STC	New
Intermediate	0'	4,530'	4,518'	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
Production	0'	13,903'	9,043'	8-3/4"	5-1/2"	20.0 #	HCP-110	TXP BTC S	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 recalcuated & 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:

850' 4800'

Intermediate Casing: Production Casing:

22,000' MD/9,200' TVD (12,800' VS @ 90 deg inc)

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.40	1.92	2.40	1.75
Intermediate	1.21	3.02	2.15	1.48
Production	1.30	2.51	2.48	1.51

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

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

5. **CEMENTING PROGRAM**

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	BBLs
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk	
Tail	Class C	0'	650'	14.8	1.35	125	749	6.57	180
Intermediate									
Lead	50:50 Poz	0'	3,530'	11.9	2.43	150	1025	14.21	444
Tail	Class C	3,530'	4,530'	14.8	1.33	85	464	6.37	110
Production									
1st Lead	50:50 Poz	3,680'	8,563'	11.5	2.51	50	697	15.51	312
2nd Lead	TXI	8,563'	12,903'	12.5	1.62	35	921	9.64	266
Tail	Acid Soluble	12,903'	13,903'	15	2.18	0	116	11.42	45

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 centralizer on every joint for the first 1000' from TD, then every other joint to EOB, then every third joint to KOP, and then every forth joint to intermediate casing.

4

6. MUD PROGRAM

From	То	Type	Weight	F. Vis	Filtrate
0'	650'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
650'	4,530'	Brine	9.5 - 10.1	28 - 30	NC - NC
4,530'	8,563'	OBM	8.3 - 9.6	28 - 30	NC - NC
8,563'	9,311'	OBM	8.3 - 9.6	28 - 30	15 - 25
9,311'	13,903'	OBM	8.3 - 9.6	28 - 30	15 - 25

A closed system will by 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:

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

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

- c. Conventional hole core samples are not planned.
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressures or temperatures are expected. Estimated BHP is: 4500

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



Chevron U.S.A. Inc.

Location: Lea County, NM Field: Jennings; Upper Bone Spring (Lea County, NM) Facility: SD WE 15 Fed P12

Well: SD WE 15 Fed P12 No. 3H Wellbore: SD WE 15 Fed P12 No. 3H (PWB)

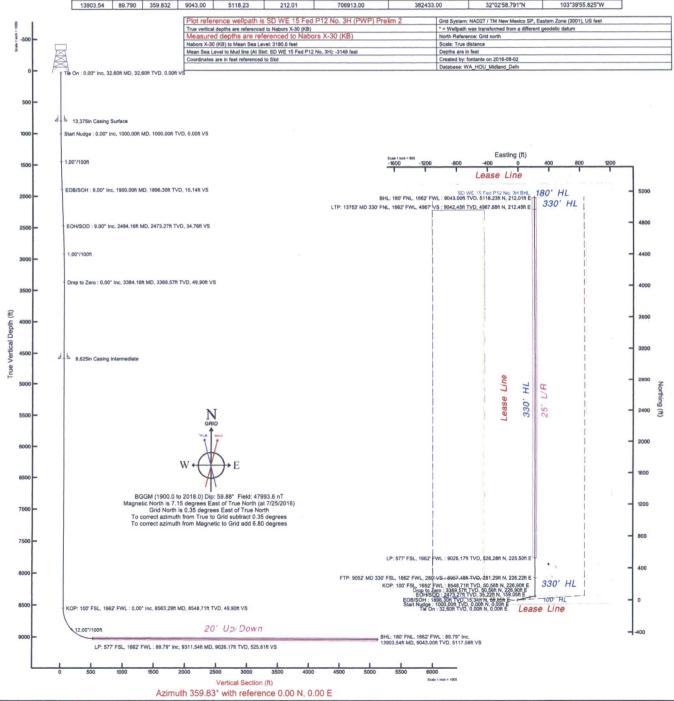


	Well Profile Data											
Design Comment	Design Comment MD (ft) Inc (*) Az (*) TVD (ft) Local N (ft) Local E (ft) DLS (*/100ft)											
Tie On	32.60	0.000	77.437	32.60	0.00	0.00	0,00	0.00				
Start Nudge	1000.00	0.000	77.437	1000.00	0.00	0.00	0.00	0.00				
EOB/SOH	1900.00	9.000	77.437	1896.30	15.34	68,85	1.00	15,14				
EOH/SOD	2484.16	9,000	77.437	2473.27	35.22	158.05	0.00	34.76				
Drop to Zero	3384.16	0.000	359.832	3369.57	50.56	226.90	1,00	49.90				
KOP: 100' FSL, 1662' FWL	8563.29	0.000	359,832	8548,71	50.56	226.90	0.00	49.90				
LP: 577' FSL, 1662' FWL	9311.54	89.790	359.832	9026.17	526.28	225.50	12.00	525.61				
BHL: 180' FNL, 1662' FWL	13903.54	89.790	359.832	9043.00	5118.23	212.01	0.00	5117.58				

İ	Wellpath Comments											
	MD (ft) X (ft) Y (ft) TVD (ft) Inclination (*) Azimuth (*) VS (ft) Comment											
1	9054.00	226.22	281.29	8957.48	58.885	359.832	280.63	FTP: 9052' MD 330' FSL, 1662' FWL, 280' VS				
	13753.00	212.45	4967.68	9042.45	89.790	359.832	4967.04	LTP: 13753' MD 330' FNL, 1662' FWL, 4967' VS				

		L	ocation Information			
Faci	lity Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SD WE	15 Fed P12		706651.000	377314.000	32°02'08.149"N	103°39'59.237"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SD WE 15 Fed P12 No. 3H	1.00	50.00	706701.000	377315.000	32*02'08.156"N	103°39'58.656"W
Nabors X-30 (KB) to Mud line (At Slot: SD V	VE 15 Fed P12 No. 3H)				32.6ft	
Mean Sea Level to Mud line (At Slot: SD W	E 15 Fed P12 No. 3H)				-3148ft	
Nabors X-30 (KB) to Mean Sea Level					3180.6ft	

	Bottom Hole Location										
MD (ft)	Inc (*)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
13903.54	89.790	359.832	9043.00	5118.23	212.01	706913.00	382433.00	32°02'58.791"N	103°39'55.825"W		





Planned Wellpath Report SD WE 15 Fed P12 No. 3H (PWP) Prelim 2 Page 1 of 6

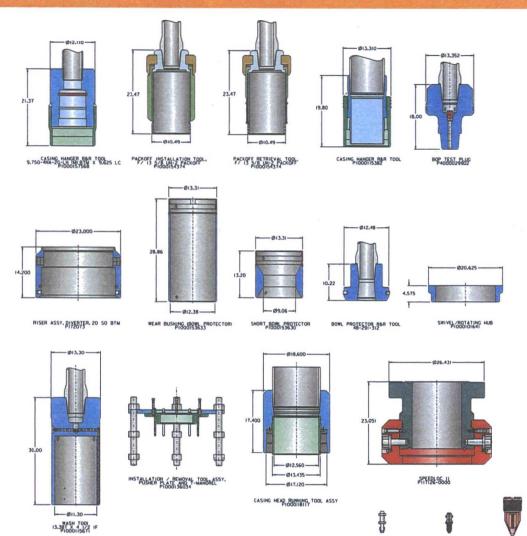


REFERENCE WELLPATH IDENTIFICATION					
Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 3H		
Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 3H		
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 3H (PWB)		
Facility	SD WE 15 Fed P12				

REPORT SETUP INFORMATION						
	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.0			
North Reference	Grid	User	Fontante			
Scale	0.999958	Report Generated	8/2/2016 at 3:24:54 PM			
Convergence at slot	0.36° East	Database/Source file	WA_HOU_Midland_Defn/SD_WE_15_Fed_P12_No3HPWPPrelim_2.xml			

WELLPATH LOCATION							
	Local coordinates		Grid coordinates		Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	1.00	50.00	706701.00	377315.00	32°02'08.156"N	103°39'58.656"W	
Facility Reference Pt			706651.00	377314.00	32°02'08.149"N	103°39'59.237"W	
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W	

WELLPATH DATUM					
Calculation method	Minimum curvature	Nabors X-30 (KB) to Facility Vertical Datum	3180.60ft		
Horizontal Reference Pt	Slot	Nabors X-30 (KB) to Mean Sea Level	3180.60ft		
Vertical Reference Pt	Nabors X-30 (KB)	Nabors X-30 (KB) to Mud Line at Slot (SD WE 15 Fed P1 No. 3H)	² 32.60ft		
MD Reference Pt	Nabors X-30 (KB)	Section Origin	N 0.00, E 0.00 ft		
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.83°		

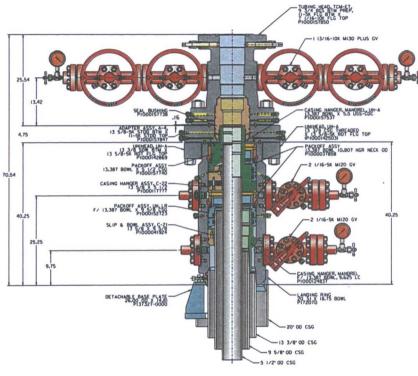


BPV RUNNING TOOL

BPV REMOVAL TOOL

BPV. TYPE H P126944-0000





20 X I3 3/8 X 9 5/8 X 5 I/2

UH-2 Unihead

Odessa 13" Single Piece

FMCTechnologies

We put you first.
And keep you ahead.

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

8.41	OPERATION: Intermediate and Production Hole Sections Minimum System						
		e Rating	: 5,000 psi				
12	SIZE	PRESSUR	RE DESCRIPTION				
A		N/A	Bell Nipple				
В	13 5/8"	5,000 psi	Annular				
С	13 5/8"	5,000 psi	Pipe Ram	Flowline to Shaker			
D	13 5/8	5,000 psi	-	Fill Up Line A			
E	13 5/8"	<u> </u>		- Fill OF Cite			
F				-			
	DSA	As roqui	red for each hole size				
	C-Sec	AS requi	ed for each note size	- (B)			
-	3-Sec	12.5	/8" 5K x 11" 5K				
-	A-Sec		SOW x 13-5/8" 5K				
	1-000	13-3/6	30W X 13-3/8 3K				
		Kill	Line	O CONTRACTOR OF THE CONTRACTOR			
S	IZE P	RESSURE	DESCRIPTION	c c			
	2"	5,000 psi	Gate Valve				
2	2"	5,000 psi	Gate Valve				
	2"	5,000 psi	Check Valve				
				0490)			
				Kill Line- 2" minimum Choke Line to Choke Manifold- 3"			
		Chok	e Line				
s	IZE P	RESSURE	DESCRIPTION				
3	-	5,000 psi	Gate Valve	HCR Valve			
3	-	5,000 psi	HCR Valve	W W			
		•		1.4			
	In	stallatio	on Checklist				
	Th	e following	item must be verified an	d checked off prior to pressure testing of BOP equipment.			
	this	schematic	. Components may be su	east the minimum requirements (rating, type, size, configuration) as shown on bstituted for equivalent equipment rated to higher pressures. Additional ng as they meet or exceed the minimum pressure rating of the system.			
	_			will be full opening and will allow straight though flow.			
			d choke line will be straig chored to prevent whip an	ght unless turns use tee blocks or are targeted with running tess, id reduce vibration.			
			wheels) or automatic lock manual valves on the ch	ing devices will be installed on all ram preventers. Hand wheels will also be oke line and kill line.			
			installed in the closing li remain open unless accu	ne as close as possible to the annular preventer to act as a locking device. mulator 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.						
Aft	er Insta	llation Chec	cklist is complete, fill out	the information below and email to Superintendent and Drilling Engineer			
		W	ellname:				
		Repres	entative:				

Date:

CHOKE MANIFOLD SCHEMATIC

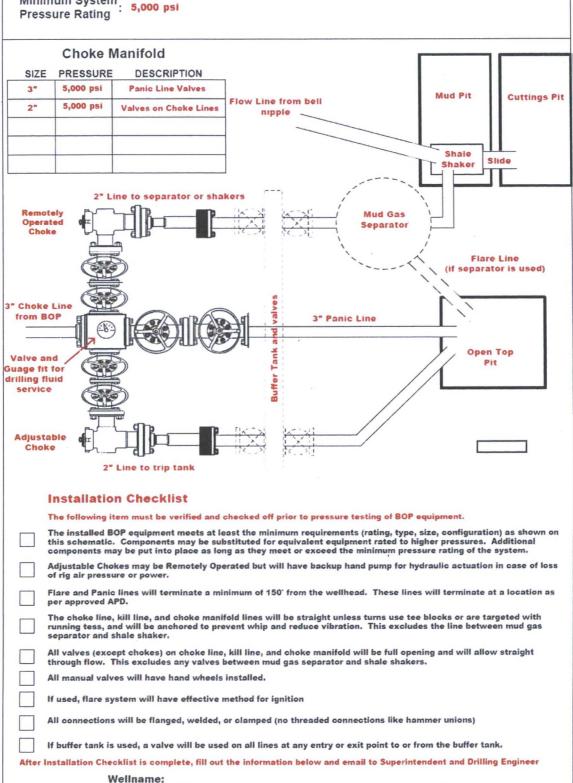
Minimum Requirements

OPERATION: Intermediate and Production Hole Sections

Minimum System.

Representative:

Date:



BOPE Testing

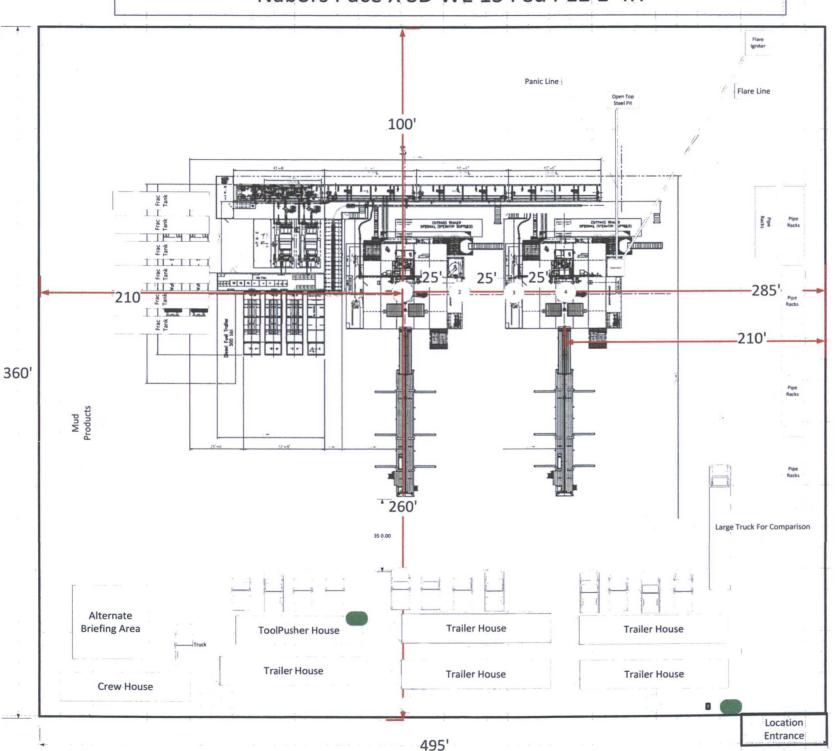
Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high

		g of BOP equipment. T		d after 6 months on the	same well.			
v	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 tha 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			
, لـــا	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.							
L 1	Closing unit system will preventers.							
1		nanifold pressure decr	eases to the pre-set		ps will automatically start led to check that air line to			
	if used) plus close the a	nnular preventer on the eptable precharge pre-	e smallest size drill ssure (see table abo	pipe within 2 minutes a ve) on the closing man	ly-operated choke line valve and obtain a minimum of 200 ifold. Test pressure and			
	Master controls for the E all preventer and the ch			ulator and will be capal	ble of opening and closing			
	Remote controls for the loor (not in the dog hou				and located on the rig			
	Record accumulator tes	ts in drilling reports an	d 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							
	∕alve on casing head be	low test plug will be o	pen					
	Test will be performed u	sing clear water.						
	The follow	ving item must be perf	ormed during the BO	PE testing and then ch	ecked off			
L 1	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 contro	l equipment will be	tested to 250 psi (low)	and 5,000 psi (high).			
	Annular type preventer v	vill be tested to 250 ps	si (low) and 3,500 ps	i (high).				
	Valves will be tested fro neld open to test the kill		e side with all down	stream valves open.	The check valve will be			
	Each pressure test will b	e held for 10 minutes	with no allowable le	ak off.				
	faster controls and rem	ote controls to the clo	sing unit (accumula	tor) must be function to	ested as part of the BOP testing			
	Record BOP tests and pr							
	Installation Checklist is iny/all BOP and accumul				lent and Drilling Engineer <u>along</u>			
	Wellnar	ne:						
	Representati	vet						
	Da	ite:						

Nabors Pace X SD WE 15 Fed P12 1-4H





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

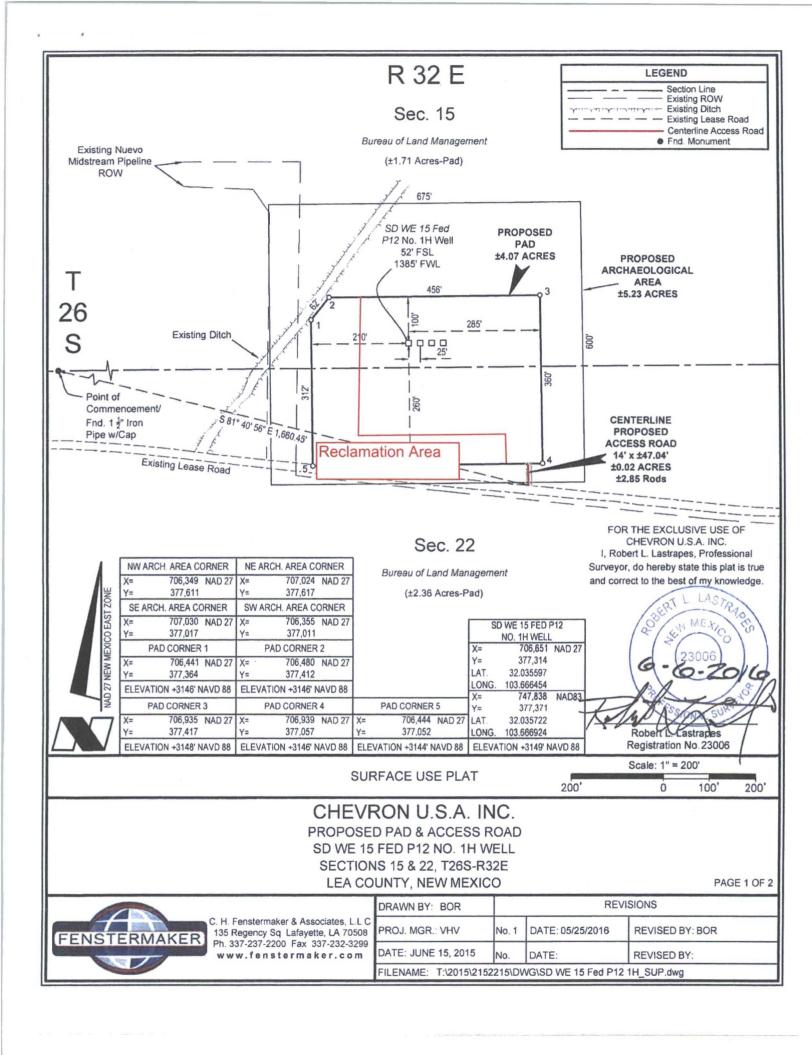
10 Minute Escape Packs

- 1 at Pits1 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



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

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

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

Robert L. Lastrapes Registration No. 23006

SURFACE USE PLAT

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD SD WE 15 FED P12 NO. 1H WELL SECTIONS 15 & 22, T26S-R32E LEA COUNTY, NEW MEXICO

PAGE 2 OF 2



C. H. Fenstermaker & Associates, L.L.C 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. 1	DATE: 05/25/2016	REVISED BY: BOR		
,	DATE: JUNE 15, 2015	No.	DATE:	REVISED BY:		
FILENAME: T:\2015\2152215\DWG\SD WE 15 Fed P12 1H_SUP.dwg						