.Forn 3160:3 (March 2012)	NM OIL CONSEP ARTESOCOLO		FORM AP OMB No. 1 Expires Octob	
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR WAN VO Z	015	5. Lease Serial No. NMNM107369 (N2NV	· · · · · · · · · · · · · · · · · · ·
APPLICATION FOR PERMIT TO	DRILL OR REENTER/E	D	6. If Indian, Allotee or	Tribe Name
la. Type of work: DRILL REENTI	AT5-14-83	3	7 If Unit or CA Agreeme	ent, Name and No.
Ib. Type of Well: 🔽 Oil Well 🛄 Gas Well 🛄 Other-		tiple Zone	8. Lease Name and Well White city 21 25 27 Fe	
2. Name of Operator CHEVRON U.S.A. INC.			9. API Well No. 30-015 - 40	2976
3a. Address 15 SMITH ROAD MIDLAND, TEXAS 79705	3b. Phone No. (include area code) 432-687-7375		10. Field and Pool, or Expl HAY HOLLOW: BONE	
 4. Location of Well (Report location clearly and in accordance with an At surface 330' FSL & 1923' FWL UL: N At proposed prod. zone 330' FNL, & 1923' FWL UL: C 	ty State requirements.*)		11. Sec., T. R. M. or Blk.a SEC 21, T-25S, R-27E	÷
14. Distance in miles and direction from nearest town or post office* 10 MILES FROM MALAGA, NEW MEXICO		· .	12. County or Parish EDDY	13. State NM
 15. Distance from proposed* 330' FSL location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of acres in lease 320	17. Spacin 160	ng Unit dedicated to this well	
 Distance from proposed location* 2660' TO YATES FED to nearest well, drilling, completed, K GAS COM applied for, on this lease, ft. 	19. Proposed Depth MD - 16,500 ⁱ TVD - 11,500 ⁱ	20. BLM/ CA0329	BIA Bond No. on file	· .
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3127! GL	22. Approximate date work will s	start*	23. Estimated duration	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	24. Attachments		1	
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, must be	attached to the	iis form:	
 Well plat certified by a registered surveyor. A Drilling Plan. 	Item 20 above	:).	ons unless covered by an exi	sting bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).			formation and/or plans as ma	y be required by the
25. Signature Aguse Purkert	Name (Printed/Typed)		Da O	te 5/22/2014
REGULATORY SPECIALIST				·
Approved by (Signature) Steve Caffey	Name (Printed/Typed)		Ŵ	AR 3 2015
Title FIELD MANAGER	>/ Office C/	ARLSBAD	FIELD OFFICE	ţ
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those ri		bjectlease which would entit	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and to any matter within its jurisdiction.	d willfully to a	make to any department or a	gency of the United
(Continued on page 2)	<u></u>		*(Instruc	ctions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 <u>20</u> day of <u>May</u> , 20_/4

Name:

KUOJANEK ely Wojtasek - Project Manager

Address:

<u>1400 Smith Street, 40039</u> Houston, TX 77027

Office 713-372-9691

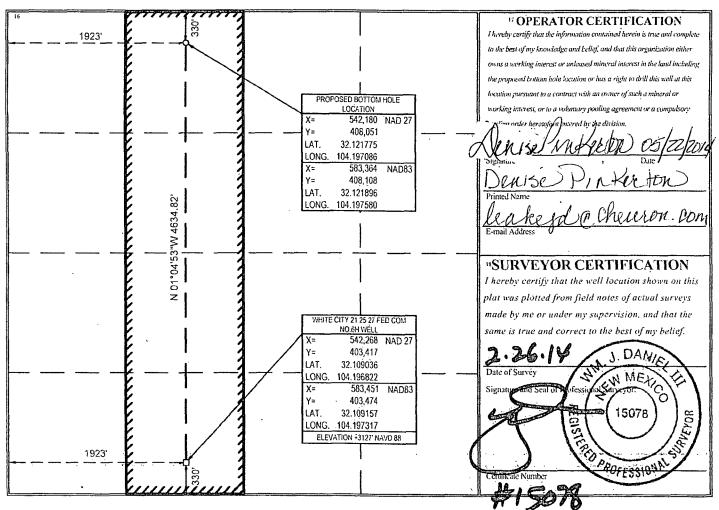
E-mail: kellyanne@chevron.com

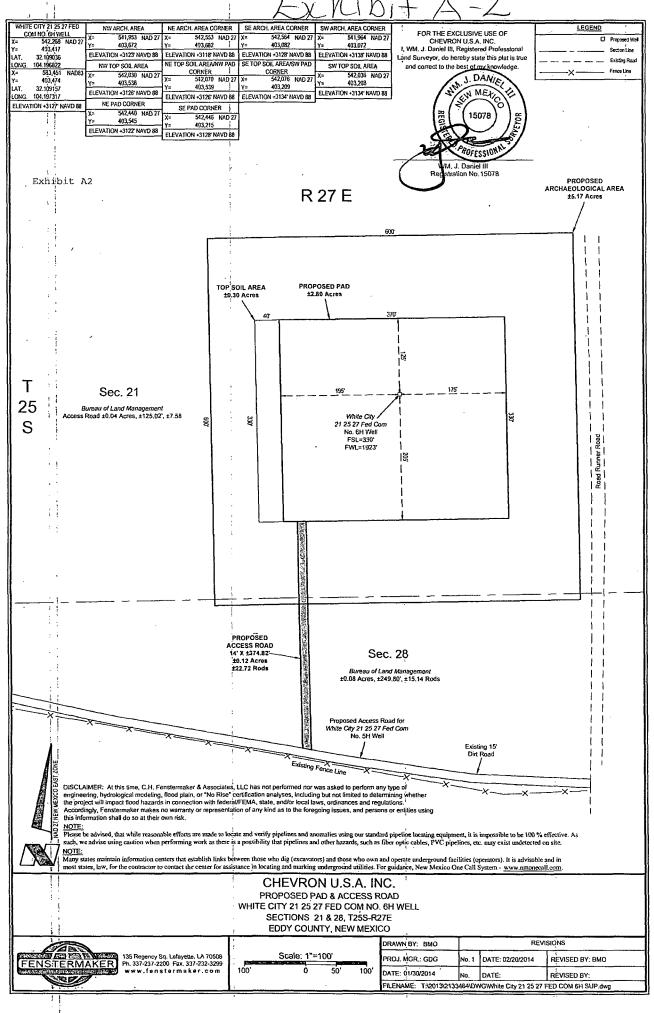
Ex	hibit	A'1					Ċ	Khip	ita-	(
	District 1 1625 N. French Phone: (575) 3: District II 811 S. First St., Phone: (575) 7: District III 1000 Rio Braze Phone: (505) 3: District IV 1220 S. St. Fran Phone: (505) 4	93-6161 F Artesia, N 48-1283 F 8 Read, A: 34-6178 F acis Dr., St	ax: (575) IM 88210 ax: (575) ziec, NM ax: (505) anta Fe, I) 393-0720 0 748-9720 1 \$7410 334-6170 NM \$7505		LC	State o rals & M CONSEI 220 Sou	of New Me Natural Res	xio nm Oil sources Dap DIVISIOM acis Dr.	CONSERV	T	Revis	Form C-102 ed August 1, 2011 opy to appropriate District Office ENDED REPORT
					WELL LOCAT	ΊΟ	N AND	ACREAG	E DEDICA	FION PLAT	•		
	30-	0/5	⁹¹ Nur 5 - 4	<u></u>	e 3t	Cod Z	16	Hack	Holles	¹ Pool Nam	e ne/	John	ng tarih
	314	perty Co	D D			w		roperty Name Y 21 25 27 FEI	COM	,			6H
	700	<u>רא כ</u> זאכ	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · ·			perator Name				9	Elevation
		4	32	3			CHEVE	RON U.S.A. IN	C.				3127'
							io Sur	face Locat	ion			•	
	UL or lot n	o. S	ection	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County
	N		21	25 SOUTH				330'	SOUTH	1923'	WE	EST	EDDY
					" Bottom	Hol			erent From S	urface			<i>r</i>
,	UL or lot n	.o. S	ection	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County
	C		21	25 SOUTH				330'.	NORTH	1923'	WI	EST	EDDY
	¹² Dedicated	I Acres	¹³ Join	nt or Infill	¹⁴ Consolidation Code	¹⁵ Or	rder No.						

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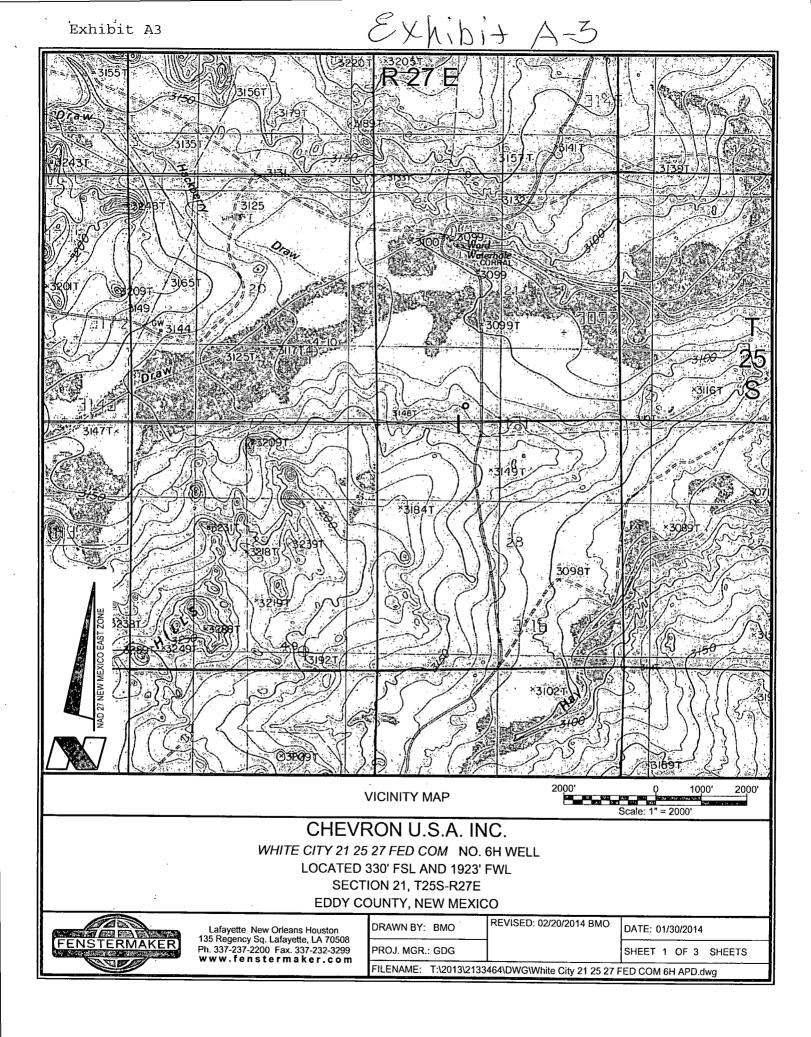
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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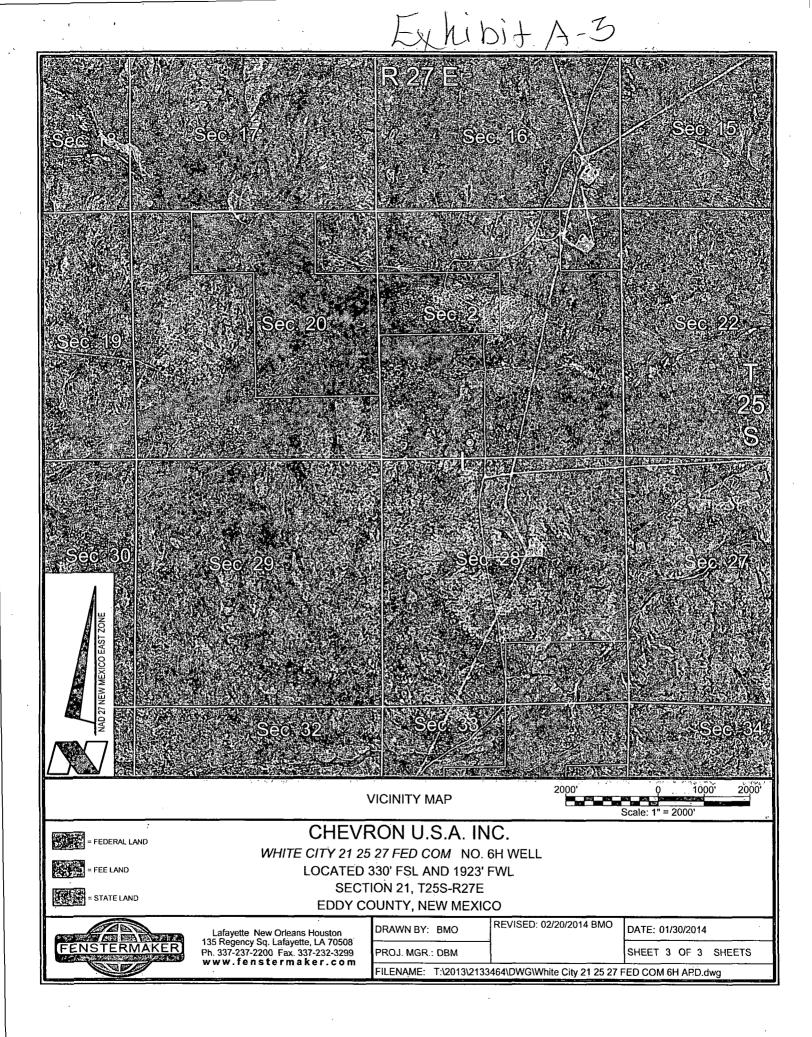


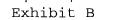
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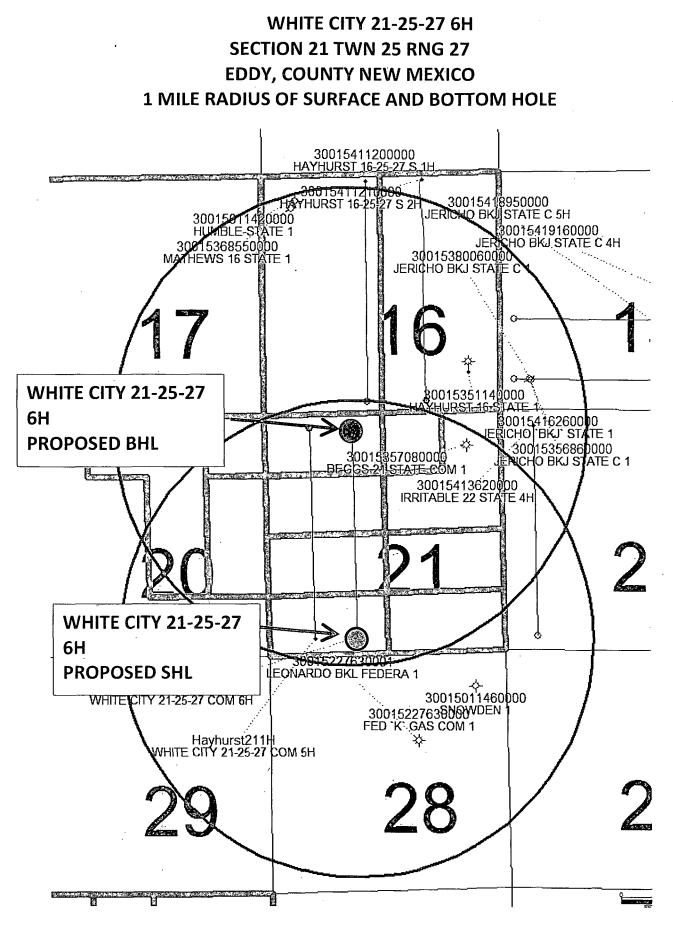


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	WHITE CITY 21 2	RON U.S.A. IN 5 27 FED COM NO. 6H	H WELL						
	SEC	D 330' FSL AND 1923' F CTION 21, T25S-R27E							
		COUNTY, NEW MEXIC	O REVISED: 02/20/2014 BMO	DATE: 01/30/2014					
FENSTERMAKER	Lafayette New Orleans Houston 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com	PROJ. MGR.: DBM		SHEET 2 OF 3 SHEETS					
	FILENAME: T:\2013\2133464\DWG\White City 21 25 27 FED COM 6H APD.dwg								

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1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA	KBTVD	MD
Castile	2638	520	· · · · · · · · · · · · · · · · · · ·
Lamar	1048	2110	
Bell Canyon	1008	2150	
Cherry Canyon	199	2959	,
Brushy Canyon	-921	4079	
Bone Spring Limestone	-2452	5610	
Avalon	-2742	5900	
1st Bone Spring	-3437	6595	
2nd Bone Spring	-4117	7275	
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
Lateral TD (2nd Bone Spring)	(4,279)	7,437	12,212

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 Exp	pected Base of Fresh Water	350
Water	Castile	520
Water	Lamar	2110
Water	Bell Canyon	2150
Oil/Gas	Cherry Canyon	2959
Oil/Gas	Brushy Canyon	4079
Oil/Gas	Bone Spring Limestone	5610
Oil/Gas	Avalon	5900
Oil/Gas	1st Bone Spring	6595
Oil/Gas	2nd Bone Spring	7275

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 coflex hose with a <u>metal protective covering</u> that will be utilized between the BOP and Choke manifold. Please see the attached testing and certification information.

Chevron requests a variance to use a GE/Vetco SH-2 Multibowl wellhead, which will be run through the rig foor on surface casing. BOPE will be nippled up and test 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	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
	Surface	0'	400'	17-1/2"	13-3/8"	48 #	H-40	STC	New
See	Intermediate	0' 210	12,200	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
Car	Production	0'	12,212	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 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:	1500'		
Intermediate Casing:	5300'		
Production Casing:	16,500' ME)/11,500'_TVD (5000' VS @) 90 deg inc)
Casing String	Min SF Burst	Min SF Collapse	Min SF Tension
Surface	1.28	1.14	1.6
Shallow Intermediate	1.28	1.25	1.6
Production	1.34	1.65	1.6

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	X	X	X
P external: Water			
P internal: Test psi + next section heaviest mud in csg	1		
Displace to Gas- Surf Csg	X		
P. external: Water			
P internal: Dry Gas from Next Csg Point			
Frac at Shoe, Gas to Surf- Int Csg		X	
P external: Water			
P internal: Dry Gas, 15 ppg Frac Gradient			
Stimulation (Frac) Pressures- 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, Prod Csg	X	X	X
P external: Wet cement		ł	
P internal: water			ł
Tension Design			
100k lb overpuil	X	X	X

5

5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water
<u>Surface</u>				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C+2%CaCl	0'	400'	14.8	1.36	125	472	6:39
Intermediate								
Lead	Class C+4%Gel +1%CaCl	0'	1,600'	13.7	1.68	100	537	9.72
Tail	Class C+1%CaCl	1,600'	2,200'	14.8	1.33	100	311	6.24
Production								
1st Lead	50% Class H+ 50% Silicalite +2% Gel	1,700'	6,970'	11.3	2.54	100	1000	15.07
2nd Lead	50% Class H+ 50% Silicalite +2% Gel	6,970' ^l	11,180'	12.5	1.81	35	796	8.10
Tail	Acid Soluble Cement	11,180'	12,212	15	2.6	0	100	11.2

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.

6. MUD PROGRAM

From	To	Туре	Weight	F. Vis	Filtrate	7
0'	400'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC	7
400'	2,200'	Brine	9.5 - 10.1	28 - 29	NC - NC	7
2,200'	6,969'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC	-
6,969'	7,721'	Cut Brine	8.3 - 9.5	28 - 30	15 - 25	Curve
7,721'	12,212'	FW/Cut Brine	8.3 - 9.5	28 - 29	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	 Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	 Curve and Lateral	While Drilling	TBD
1	-	 -	-	
	-			
		 I	-	-
-	-			-

c. Conventional whole core samples are not planned.

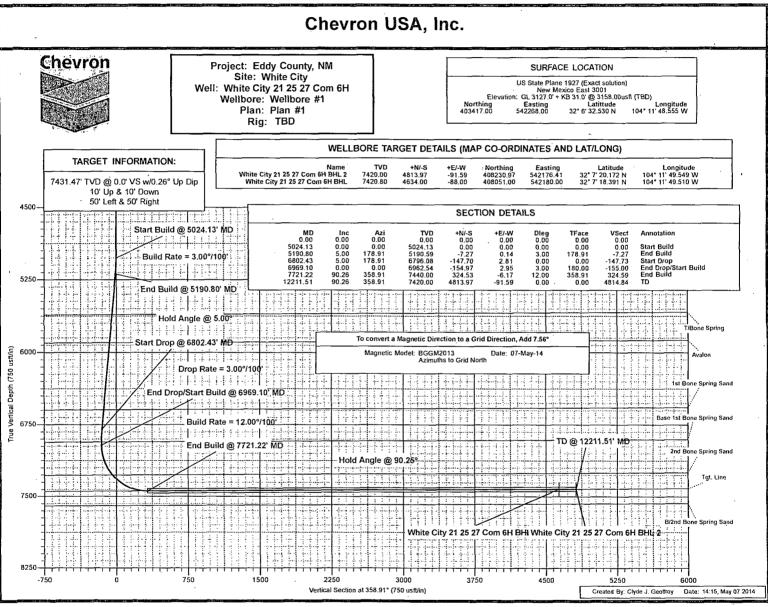
d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

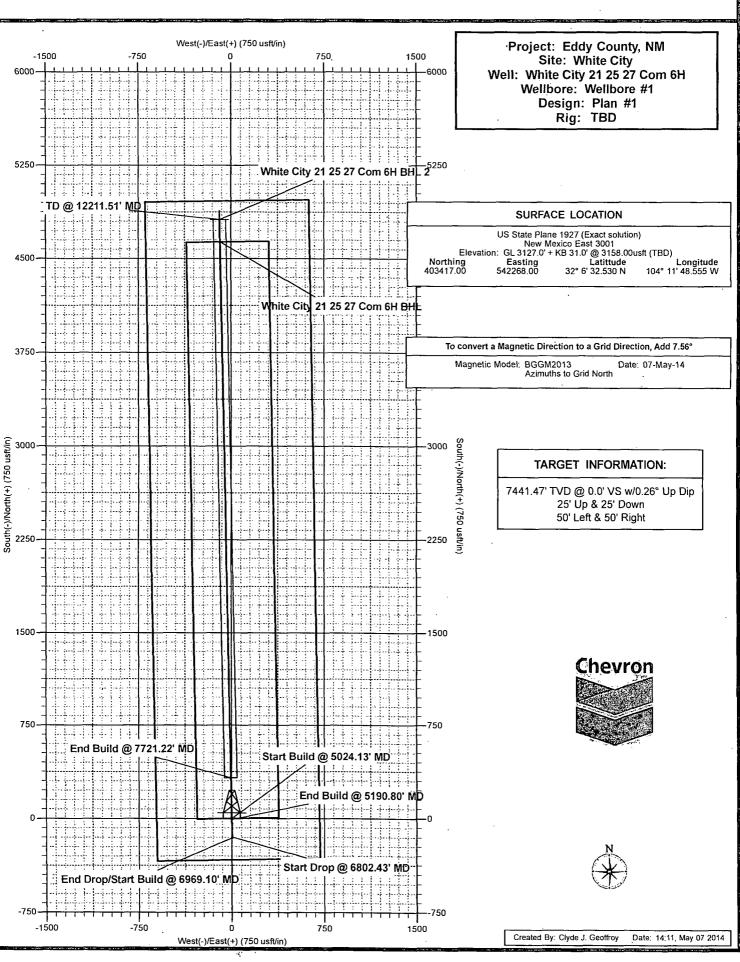
a. No abnormal pressures or temperatures are expected. Estimated BHP is:

3317 psi

b. Hydrogen sulfide gas is not anticipated, nor reported in the area.



Chevron USA, Inc.



NM OIL CONSERVATION

MAR 0 5 2015

RECEIVED

Chevron USA, Inc.

Eddy County, NM White City White City 21 25 27 Com 6H

Wellbore #1

Plan: Plan #1

Standard Planning Report

07 May, 2014

Company: Che Project Edo Site: Whit Well: Whit Well: Well Design Plan	WP.1EDM vron:USA 1nc y County. NM e City e City e City 21/25/27/C bore #1 1#1			TVD Refe MD Refer		-	6L•3127.0'.∔,K	B 31:0'@ 31 B 31:0'@ 31	m.6H 58:00usfr (TBD) 58:00usfr (TBD)
Project	County, NM		2018. <i>4.1</i> .	the second					1117 (1117) (1117) (1117) (1117)
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Site Position: From: M Position Uncertainty:	ap 0.00 u	Northi Eastin sft Slot R	g:		01.00 usft 35.00 usft 13-3/16 "	Latitude: Longitude: Grid Conver	gence:		32° 6' 32.383 N 104° 11' 59.403 W 0.07 °
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+E/-W	933.00		sting:		542,268.00		gitude:		104° 11' 48.555 W
Position Uncertainty	0.00	usft We	lihead Elev	ation:		Gro	und Level:		3,127.00 usft
Magnetics M	bore #1 odel Name BGGM2013	Sample		Declina (°)	tion 7.63	Dip A (Č		Field St (n	trength T) 48,160
Design Plan	#1 34<0 37	A. 6 2.5 . 19 .	1. 1. 1. 1.		1. + 3' 23' TO 10	Window Company		ST. 20 5 C 44-13	1 54 95 20 20. 00 1 22 18 28 5 40 20 20
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Design:	#1								
Planned Survey	an a		(A. A. A. H. K. H. S. K. K.	and the second the	MARCH & S	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			Sales of the second second
r lanneu Julvey	and a second			CALCOLOGY SALES	CONTRACTOR				<u> 14 55 88 4 4 7 4 5 6 5</u>
Measured		7. gal (- 1. gal (-	Vertical			Vertical	Dogleg	Build	Turn
Depth Inclin		Azimuth		[+N/-S ∧	PERSONAL PROPERTY AND INC.	Section	Rate	Rate	Rate
(usft)])	$(\hat{\mathbf{e}})$	(usft)	₩(usft)	(usft):	(usft)	/100usft) _9(;/	100uŝft)>(%	/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
520.00	0.00	0.00	520.00	0.00	0.00	0.00	0.00	0.00	0.00
2.110.00	0.00	0.00	2,110.00	0.00	0.00	0.00	0.00	0.00	0.00
Lâmar LS		0.00 19 19 19 19	2,110.00		U.UU Aliestatici	U.UU Natalian Sac	0.00	0.00 ಜ್ವಾಟ್ ಸ್ಟೇಷ್	0.00
2,150.00	0.00	0.00	2,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon				计理想的					
2,959.00	0.00	0.00	2,959.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon			「「「	14-1月44-3			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1000	
4,079.00	0.00	0.00	4,079.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
5,024.13 Start Build @ 50;	0.00 22 130Min	0.00 Build Rate	5,024.13 ≐3.00°/100'	0.00	0.00	0.00	0.00	0.00 	0.00
5.100.00	2.28		5,099.98	-1.51	0.03	-1.51	3.00	3.00	0.00
5,190.80	5.00	178.91	5,190.59	-7.27	0.14	-7.27	3.00	3.00	0.00
End Build @ 519									
5,200.00	5.00	178.91	5,199.75	-8.07	0.15	-8.07	0.00	0.00	0.00
5,300.00	5.00	178.91	5,299.37	-16.78	0.32	-16.79	0.00	0.00	0.00
5,400.00 5,500.00	5.00 5.00	178.91 178.91	5,398.99 5,498.61	-25.50 -34.21	0.49 0.65	-25.50 -34.22	0.00 0.00	0.00 0.00	0.00 0.00
5,600.00	5.00	178.91	5,598.23	-42.92	0.82	-42.93	0.00	0.00	0.00
5,612.01	5.00	178.91	5,610.20	-43.97	0.84	-43.98	0.00	0.00	0.00
T/Bone Spring							1. S.		は高い
5,700.00	5.00	178.91	5,697.85	-51.64	0.98	-51.65	0.00	0.00	0.00
5,800.00	5.00	178.91	5,797.47	-60.35	1.15	-60.36	0.00	0.00	0.00
5,900.00 5.903.24	5.00 5.00	178.91 178.91	5,897.09 5,900.31	-69.07 -69.35	1.31 1.32	-69.08 -69.36	0.00 0.00	0.00 0.00	0.00 0.00
Avalon								and the second	
6,000.00	5.00	178.91	5,996.71	-77.78	1.48	-77.79	0.00	0.00	0.00
6,100.00	5.00	178.91	6,096.33	-86.49	1.65	-86.51	0.00	0.00	0.00
6,200.00	5.00	178.91	6,195.95	-95.21	1.81	-95.23	0.00	0.00	0.00
6,300.00 6,400.00	5.00 5.00	178.91 178.91	6,295.57 6.395.19	-103.92 -112.64	1.98 2.14	-103.94 -112.66	0.00 0.00	0.00 0.00	0.00 0.00
6,500.00	5.00	178.91	6,494.81	-121.35	2.14	-121.37	0.00	0.00	0.00
6,600.00	5.00	178.91	6,594.43	-130.06	2.48	-130.09	. 0.00	0.00	0.00
6,601.17	5.00	178.91	6,595.59	-130.17	2.48	-130.19	0.00	0.00	0.00
1st Bone Spring			6 604 0F	100 70		400.00	0.00		
6,700.00 6,800.00	5.00 5.00	178.91 178.91	6,694.05 6,793.67	-138.78 -147.49	2.64 2.81	-138.80 -147.52	0.00 0.00	0.00 0.00	0.00 0.00
6,802.43	5.00	178.91	6,796.09	-147.70	2.81	-147.52	0.00	0.00	0.00
Start Drop @ 680	2.43' MD	- Drop Rate	= 3.00°/100'			1	A. S. Same	e altheor	
6,900.00	2.07	178.91	6,893.46	-153.72	2.93	-153.75	3.00	-3.00	0.00
6,937.26	0.96	178.91	6,930.70	-154.70	2.94	-154.73	3.00	-3.00	0.00
Base 1st Bone S 6,969.10	pring Sai 0.00			164.07	2.05			200	
End Drop/Start E		0.00 12 0 M 0 1 9 9 9	6,962.54 Build Rate = 1	-154.97	2.95	-155.00	3.00	-3.00	0.00
7,000.00	3.71	358.91	6,993.42	-153.97	2.93	-154.00	12.00	12.00	0.00
7,100.00	15.71	358.91	7,091.81	-137.14	2.61	-137.17	12.00	12.00	0.00
7,200.00	27.71	358.91	7,184.55	-100.23	1.91	-100.24	12.00	12.00	0.00
7,300.00	39.71	358.91	7,267.58	-44.84	0.85	-44.85	12.00	12.00	0.00
7,309.95	40.90	358.91	7,275.17	-38.40	0.73	-38.41	12.00	12.00	0.00
2nd Bone Spring 7,400.00	Sand	358.91	7,337.29	26.60	-0.50	26.60	12.00		0.00
1,400.00	51.71	330.91	1,331.29	20.00	-0.50	26.60	12.00	12.00	0.00

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COMPASS 5000.1 Build 65

Ċo	mpany:	TXWP_EDM hevron/USA	Constant of the second s		TVD Re	Co-ordinate eference:	Reference	GL 3127.0' +		58:00usft (TBD)
Sit		ddy County N White City + White City 21-2		tan T	North I	ference: Reference: Calculatior	i Method: Z	Grid Minimum Cu		58:00usft≀(⊤BD)
		Vellbore #1 Plan #1								
Pla	anned Survey									
	Measured Depth		Azimuth	Vertical Depth	+N/-S	÷ŧĒ/₊₩	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usft)	(f)	+ (°)	and the state of the second	, (ušft):	(usft) T	(usft)	(°/100usft) (°/100usft),	/100usft)
	7,500.00	63.71	358.91	7,390.61	110.96	-2.11	110.98	12.00	12.00	0.00
	7,600.00 7,700.00	75.71 · 87.71	358.91 358.91	7,425.23 7,439.62	204.57 303.32	-3:89 -5.77	204.60 303.38	12.00 12.00	12.00 12.00	0.00 0.00
	7,721.22	90.25	358.91	7,440.00	324.53	-6.17	324.59	12.00	12.00	0.00
	End Build @ 7,800.00	7721.22 MD - 90.26	Hold Angle 358.91	@ 90.25° - To 7,439.65	403.30	-7.67	403.37	0.00	0.00	0.00
	7,900.00	90.26	358.91	7,439.20	503.28	-9.57	503.37	0.00	0.00	0.00
	8,000.00 8,100.00	90.26 90.26	358.91 358.91	7,438.76 7,438.31	603.26 703.24	-11.48 -13.38	603.37 703.37	0.00 0.00	0.00 0.00	0.00 0.00
	8,200.00	90.26	358.91	7,437.87	803.22	-15.28	803.37	0.00	0.00	0.00
	8,300.00 8,400.00	90.26 90.26	358.91 358.91	7,437.42 7.436.98	903.20 1,003.18	-17.18 -19.09	903.37 1,003.36	0.00 0.00	0.00 0.00	0.00 0.00
	8,500.00	90.26	358.91	7,436.53	1,103.16	-20.99	1,103.36	0.00	0.00	0.00
	8,600.00	90.26	358.91	7,436.09	1,203.14	-22.89	1,203.36	0.00	0.00	0.00
	8,700.00 8,800.00	90.26 90.26	358.91 358.91	7,435.64 7,435.20	1,303.13 1.403.11	-24.79 -26.70	1,303.36 1,403.36	0.00 0.00	0.00 0.00	0.00 0.00
	8,900.00	90.26	358.91	7,434.75	1,503.09	-28.60	1,503.36	0.00	0.00	0.00
	9,000.00	90.26	358.91 358.91	7,434.30 7,433.86	1,603.07	-30.50	1,603.36	0.00	0.00	0.00
	9,100.00 9,200.00	90.26 90.26	358.91	7,433.60	1,703.05 1,803.03	-32.40 -34.30	1,703.36 1,803.36	0.00 0.00	0.00 0.00	0.00 0.00
	9,300.00	90.26	358.91	7,432.97	1,903.01	-36.21	1,903.36	0.00	0.00	0.00
	9,400.00	90.26 00.26	358.91	7,432.52 7,432.08	2,002.99	-38.11	2,003.35	0.00	0.00	0.00
	9,500.00 9;600.00	90.26 90.26	358.91 358.91	7,432.00	2,102.97 2,202.95	-40.01 -41.91	2,103.35 2,203.35	0.00 0.00	0.00 0.00	0.00 0.00
	9,700.00	90.26	358.91 358.91	7,431.19 7,430.74	2,302.93	-43.82	2,303.35	0.00	0.00	0.00
	9,800.00 9,900.00	90.26 90.26	358.91	7,430.74 7,430.30	2,402.92 2,502.90	-45.72 -47.62	2,403.35 2,503.35	0.00 0.00	0.00 0.00	0.00 0.00
	10,000.00	90.26	358.91	7,429.85	2,602.88	-49.52	2,603.35	0.00	0.00	0.00
	10,100.00 10,200.00	90.26 90.26	358.91 358.91	7,429.41 7,428.96	2,702.86 2,802.84	-51.42 -53.33	2,703.35 2,803.35	0.00 0.00	0.00 0.00	0.00 0.00
	10,300.00	90.26	358.91	7,428.51	2,902.82	-55.23	2,903.35	0.00	0.00	0.00
	10,400.00	90.26	358.91	7,428.07	3,002.80	-57.13	3,003.34	0.00	0.00	0.00
	10,500.00 10,600.00	90.26 90.26	358.91 358.91	7,427.62 7,427.18	3,102.78 3,202.76	-59.03 -60.94	3,103.34 3,203.34	0.00 0.00	0.00 0.00	0.00 0.00
	10,700.00	90.26	358.91	7,426.73	3,302.74	-62.84	3,303.34	0.00	0.00	0.00
	10,800.00 10,900.00	90.26 90.26	358.91 358.91	7,426.29 7,425.84	3,402.72 3,502.71	-64.74 -66.64	3,403.34 3,503.34	0.00 0.00	0.00 0.00	0.00 0.00
	11,000.00	90.26	358.91	7,425.40	3,602.69	-68.55	3,603.34	0.00	0.00	0.00
	11,100.00 11,200.00	90.26 90.26	358.91 358.91	7,424.95 7,424.51	3,702.67 3,802.65	-70.45	3,703.34	0.00	0.00	0.00
	11,300.00	90.26	358.91	7,424.51 7,424.06	3,802.65 3,902.63	-72.35 -74.25	3,803.34 3,903.34	0.00 0.00	0.00 0.00	0.00 0.00
	11,400.00	90.26	358.91	7,423.61	4,002.61	-76.15	4,003.33	0.00	0.00	0.00
	11,500.00 11,600.00	90.26 90.26	358.91 358.91	7,423.17 7,422.72	4,102.59 4,202.57	-78.06 -79.96	4,103.33 4,203.33	0.00 0.00	0.00 0.00	0.00 0.00
	11,700.00	90.26	358.91	7,422.28	4,302.55	-81.86	4,303.33	0.00	0.00	0.00
	11,800.00 11,900.00	90.26 90.26	358.91 358.91	7,421.83 7,421.39	4,402.53 4,502.51	-83.76 -85.67	4,403.33 4,503.33	0.00 0.00	0.00 0.00	0.00 0.00
	12,000.00	90.26	358.91	7,420.94	4,602.50	-83.57	4,603.33	0.00	0.00	0.00
	12,031.51	90.26	358.91	7,420.80	4,634.00	-88.17	4,634.84	0.00	0.00	0.00
	White City 21 12,100.00	25:27:Com 6 90.26	H BHL 358.91	7,420.50	4,702.48	-89.47	4,703.33	0.00	0.00	0.00
	12,200.00	90.26	358.91	7,420.05	4,802.46	-91.37	4,803.33	0.00	0.00	0.00
L	12,211.51	90.26	358.91	7,420.00	4,813.97	-91.59	4,814.84	0.00	0.00	0.00

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COMPASS 5000.1 Build 65

And and a second s	a constant and a first and a second secon		The second s			THE REPORT OF TH	
Company: Chevi Project: Eddy Site: White Well: White	City 21 25 27 Co ore #1	m.6H	TVD R MD Re North	Co:ordinate Ref eference: ference: Reference: / Calculation Me	GL-3127 Grid	ite City 21 25 27 C 20 + KB 31.0 (@ 3 20 + KB 31.0 (@ 3 0 + KB 31.0 (@ 3 0 Curvature	158.00usft (TBD).
Planned Survey							
Measured		Vertical			rtical - Dogleg	14 16 18 18 18 18 18 18 18 18 18 18 18 18 18	Turn
Depth Inclina (usft) (*	ation Azimuth	Depth (usft)	The second s	CARLES STATES STATES	ction Rate sft) (?/100usf	Rate t) (°/100usft)	Rate (²/100usft)
TALLER STREET							
TD,@-1221/1.51/ M	D: White City 21	25 27 Com 6H	BHLIŽ				
Design Targets		6 2		<u></u>		<u></u>	
Target Name		107 - 1949 A					
- hit/miss targ <u>et</u> Dip / - Shape	Angle: Dip Dir. °) (°):	and the state of the second state of the secon	/-S +E/-W sft) (usft)	<u>Northing</u> (usft)	Easting (usft)		
					(usit)	Latitude	Longitude
White City 21 25 27 C - plan hits target center - Rectangle (sides W10		. ,	313.97 -91.5	59 408,230.9	97 542,176.41	32° 7′ 20.172 N	104° 11' 49.549 W
White City 21 25 27 C - plan misses target cen			634.00 -88.0 D (7420.80 TVD,			32° 7' 18.391 N	104° 11' 49.510 W

- plan m - Point

Formations	1.4 194				
Measured	Vicetical			Dip	
"这种社会,这个社会的中国主要的问题"。"这种社会	Vertical Depth		Dip I	Direction	
(usft)	(usft)	Name Lithology	(°)	(^e),	3.46° (
520.00	520.00	Castile ·	-0.26	358.91	
2,110.00	2,110.00	Lamar LS	-0.26	358.91	
2,150.00	2,150.00	Bell Canyon	-0.26	358.91	
2,959.00	2,959.00	Cherry Canyon	-0.26	358.91	
4,079.00	4,079.00	Brushy Canyon	-0.26	358.91	
5,612.01	. 5,610.20	T/Bone Spring	-0.26	358.91	
5,903.24	5,900.31	Avalon	-0.26	358.91	
6,601.17	6,595.59	1st Bone Spring Sand	-0.26	358.91	
6,937.26	6,930.70	Base 1st Bone Spring Sand	-0.26	358.91	
7,309.95	7,275.17	2nd Bone Spring Sand	-0.26	358.91	
7,721.22	7,440.00	Tgt. Line	-0.26	358.91	-

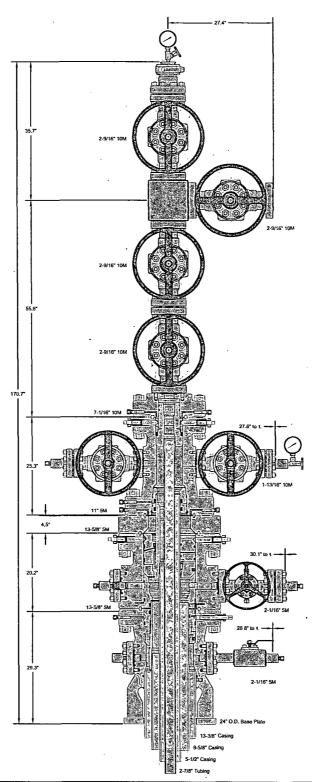
Plan Annotations 1 Local Coordinates +N/S +E/-W (usft) (usft) Measured Vertical Depth Depth (usft) (usft) Comment Start Build @ 5024 13' MD 5 024 13 5 024 13 0 00 0.00

	5,024.15	5,024.15	0.00	0.00	
	5,024.13	5,024.13	0.00	0.00	Build Rate = 3.00°/100'
	5,190.80	5,190.59	-7.27	0.14	End Build @ 5190.80' MD
	5,190.80	5,190.59	-7.27	0.14	Hold Angle @ 5.00°
	6,802.43	6,796.08	-147.70	2.81	Start Drop @ 6802.43' MD
	6,802.43	6,796.09	-147.70	2.81	Drop Rate = 3.00°/100'
	6,969.10	6,962.54	-154.97	2.95	End Drop/Start Build @ 6969.10' MD
Ì	6,969.10	6,962.54	-154.97	2.95	Build Rate = 12.00°/100'
1	7,721.22	7,440.00	324.53	-6.17	End Build @ 7721.22' MD
	7,721.22	7,440.00	324.53	-6.17	Hold Angle @ 90.25°
	12,211.51	7,420.00	4,813.97	-91.59	TD @ 12211.51' MD
L					

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GE Oil & Gas



	This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.	CHEVRON USA, INC. DELAWARE BASIN			
	13-3/8" x 9-5/8" x 5-1/2" x 2-7/8" 10M SH2/Conventional	DRAWN	VJK	19MAR13	
1		APPRV	KN	19MAR13	
1	Wellhead Assembly, With DSA, T-EBS-F Tubing Head,	FOR REFERENCE ONLY			
	T-EN Tubing Hanger and A5PEN Adapter Flange	DRAWING NO	AE	23705	

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

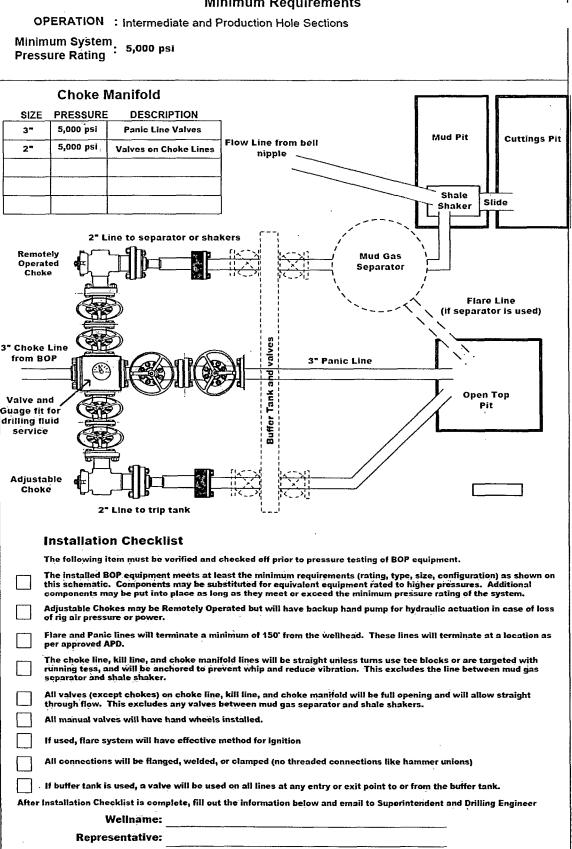
OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating ^{: 5,000} psi

617							
A	ZE PRESSU	Bell Nipple					
	5/8 ² 5,000 p						
			Flowline to Shaker				
	5/8" 5,000 p		Fill Up Line)				
E 13 !	5/8" 5,000 p	si Mud Cross					
F							
DSA	As requ	ired 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					
	Kil	l Line	The second se				
SIZE	PRESSUR	E DESCRIPTION					
2*	5,000 psi	T					
2"	5,000 psi						
2"	5,000 psi						
			Deed "				
			Kill Line- 2" minimum Choke Line to Choke Manifold- 3"				
	.J						
c		ke Line					
SIZE	PRESSUR 5,000 psi	T					
3"	5,000 psi	Gate Valve	HCR Valve				
3"	3,000 psi	HCR Valve					
] G				
	Inctallat	ion Checklist					
	mətanat	ion checklist					
	The following	g item must be verified an	d 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				
\Box	this schematicomponents	ic. Components may be si may be put into place as le	ubstituted for equivalent equipment rated to higher pressures. Additional ong as they meet or exceed the minimum pressure rating of the system.				
		are war the way choke line	e will be full opening and will allow straight though flow.				
		and choke line will be strain inchored to prevent whip a	ight unless turns use tee blocks or are targeted with running tess, nd reduce vibration.				
		i wheels) or automatic loc all manual valves on the cl	king devices will be installed on all ram preventers. Hand wheels will also be noke line and kill line.				
	A valve will I This valve w	e installed in the closing l Il remain open unless acc	line as close as possible to the annular preventer to act as a locking device, umulator 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 i	nstallation Cl	****	t the information below and email to Superintendent and Drilling Engineer				
	Danir						
	repti						
		Date:					

CHOKE MANIFOLD SCHEMATIC

Minimum Requirements



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	propolitica reting	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 pši
	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. Tost 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 <u>along</u> with any/all BOP and accumulator test charts and reports from 3rd parties.

· Wellname:

Representative:

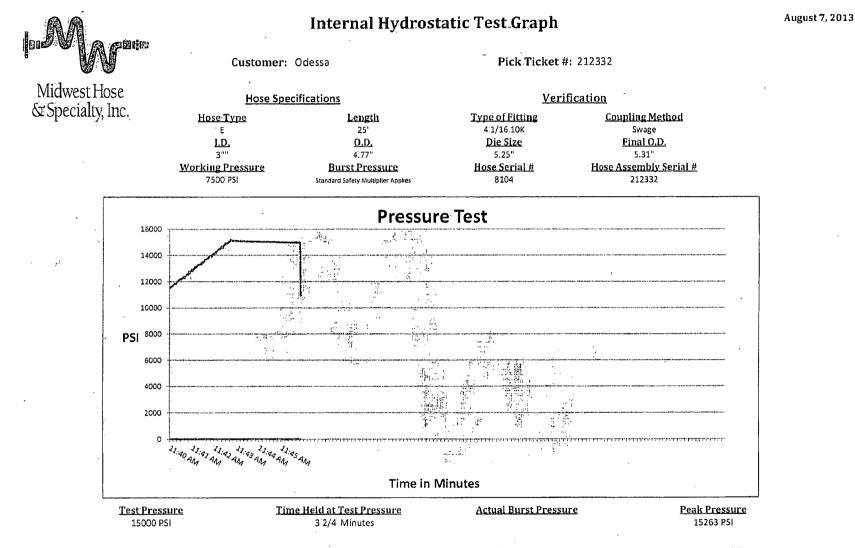
Date:



DE STAT

Midwest Hose & Specialty, Inc.

Customer:	ODESSA		Customer P.O 19307		
	HOSE SPECI	FICATIONS			
Type: Rotary/CH			-4		
GRADE E	/ API 7K	· · · ·	Hose Length:	25' FEE	
I.D. 3'	INCHES	O.D.	4.77	INCHES	
WORKING PRESSURE	TEST PRESSUR	ξÉ	BURST PRESSU	ŘE	
10,000 PSI	15,000	PSI	N/A	PS	
	COUP	LINGS			
Part Number	Stem Lot Nur		Ferrule Lot N		
E3.0X64WB E3.0X64WB			L08301		
Type of Coupling:	1	L08301765			
SWAGE	·IT	5.25			
	PROC	EDURE			
Hose assemb	y pressure tested w	ith water at amhia	nt temperatura	<u></u>	
	TEST PRESSURE		BURST PRESSURE	:	
3 1/2	2 MIN.	N/A PSI			
Hose Assembly Ser	· · · · · · · · · · · · · · · · · · ·	Hose Serial			
212332	2	8104			
Comments:					
Date:	Tested:		Approved:	. A n	
8/7/2013		,,	Geor 1	Alana	



Comments: Hose assembly pressure tested with water at ambient temperature.

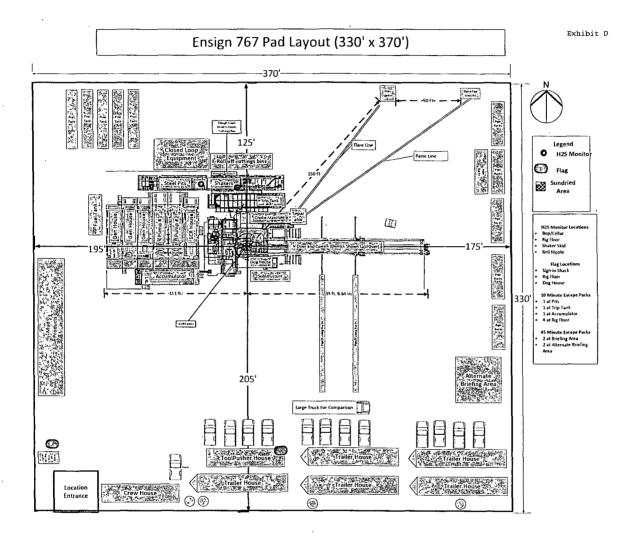
1.5

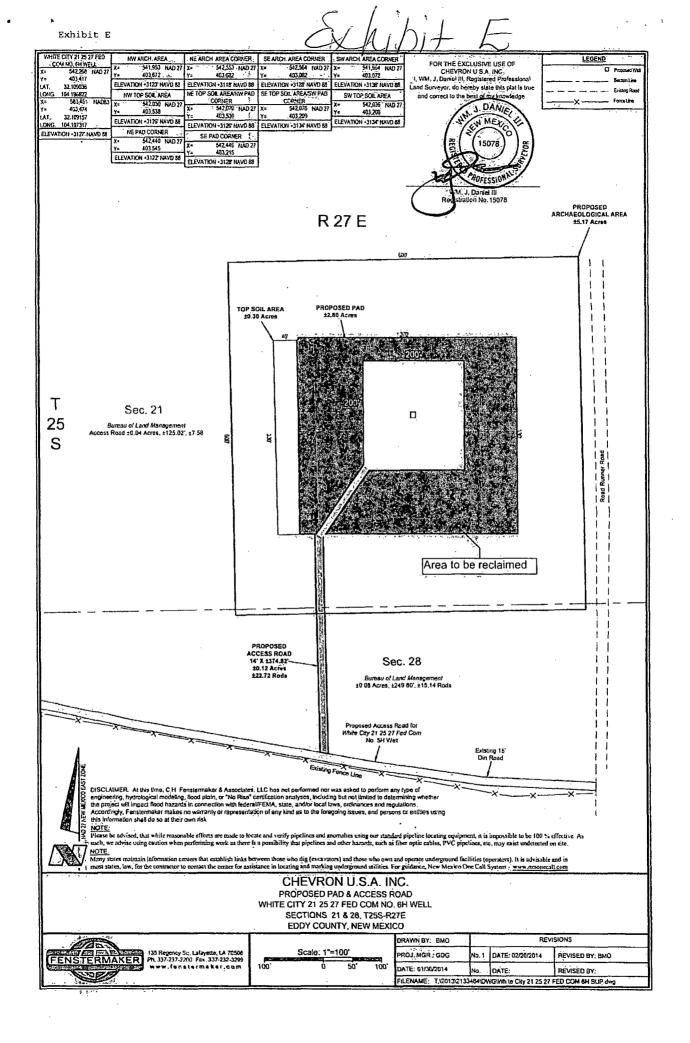
Tested By: Ryan Malone

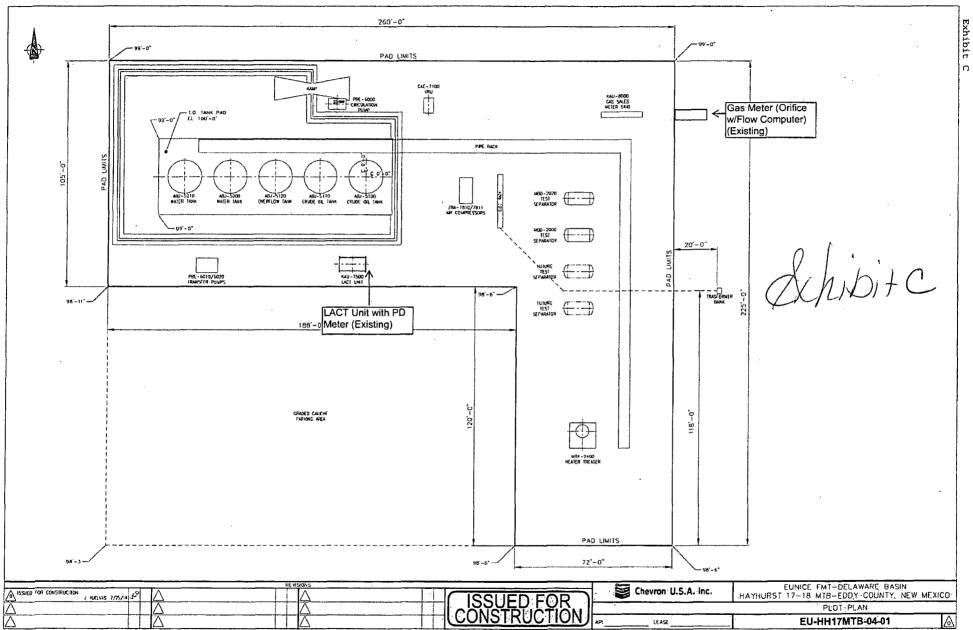
Approved By: Ryan Adams

BAL

Exhibit D







Exhibit

SURFACE USE PLAN

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

White City 21 25 27 Fed Com 6H

330' FSL and 1923' FWL Section 21, Township 25, Range 27 Eddy County, New Mexico

A. EXISTING ROADS/LEASE ROADS

Driving directions are from Malaga, New Mexico. The location is approximately 10 miles from the nearest town, which is Malaga, New Mexico.

The proposed access to the location is approximately 200 feet off of Roadrunner Road (CR 774) being approximately 200' 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-3.

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. <u>NEW OR RECONSTRUCTED ACCESS ROADS</u>

There will be a total of 625' road constructed.

250' of new and existing access road will be constructed from Roadrunner Road (CR 774) to access Section 21 25 27 (which includes White City 21 25 27 Fed Com 5H and White City 21 25 27 Fed Com 6H well locations). This road will continue for a total of **1,795'** to the White City 21 25 27 Fed Com 5H well.

An additional **375**' of new access to be constructed from the shared access road to the White City 21 25 27 Fed Com 6H well.

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

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

D. LOCATION OF PRODUCTION FACILITIES

It is anticipated that the existing Hayhurst 17 production facility, located in Section 17-25-27, will be utilized and oil to be sold at that tank battery.

The production line will be dual surface-laid 4" flex pipe with a working pressure less than 125 psig ran along existing disturbances.

Oil and gas measurement will be installed at the production facility location. See Exhibit C.

The existing water disposal system at the Hayhurst 17 production facility will be utilized.

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

Chevron will utilize the fresh water holding pond i in Section 16-25-27 for fresh water.

During frac operations, Chevron will lay a temporary 12" flowline from the frac pond to the well. The flowline will follow within 5 feet along the access road from the frac pond to the well using the same route as the proposed access roads depicted on **Exhibit A2**.

Water will be obtained from a private water source. Water to be hauled into or piped by a private provider into Section 16.

F. CONSTRUCTION MATERIALS

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.

The entire location will be fenced with barb/woven wire.

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**

ONSHORE ORDER NO. 1 Chevron

SURFACE USE PLAN

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

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

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 recontour 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 TENANT

Hayhurst-Rook Family Educational Trust 518 Orchard Lane Carlsbad, New Mexico 88220

ROAD OWNERSHIP

All access roads are located on County Road 774 which passes through Federal, State and private lands. The county road passes through the oil & gas lease.

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.

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CHEVRON REPRESENTATIVES

Project Manager Kelly Wojtasek 1400 Smith Street, 40095 Houston, TX 77002 Office: 713-372-9691 Kellyanne@chevron.com	Drilling Engineer Matt Kubachka 1400 Smith Street, 43128 Houston, TX 77002 Office: +1 (713) 372-5721 Matt.Kubachka@chevron.com
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Regulatory Specialist Denise Pinkerton 15 Smith Road, 4229 Claydesta Plaza Midland, TX 79705 Office: +1 (432) 687-7375 <u>leakejd@chevron.com</u>	Land Team Lead Pam Bikun 1400 Smith Street. 45004 Houston, TX 77002 Office: 713-372-1373 PamBikun@Chevron.com

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Summary of Exhibits

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Exhibit A1	White City 21 25 27 Fed Com 6H C102 cert	
Exhibit A2	White City 21 25 27 Fed Com 6H SUP cert	
Exhibit A3	White City 21 25 27 Fed Com 6H vicinity map	
Exhibit B	1 mile radius of surface and bottom hole locations.	
Exhibit C	ibit C Production Facility layout for Hayhurst 17 facility	
Exhibit D	Wellsite layout	
Exhibit E	Area to be reclaimed	

PECOS DISTRICT CONDITIONS OF APPROVAL

	OPERATOR'S NAME:	Chevron USA Inc
	LEASE NO.:	NM107369
	WELL NAME & NO.:	6H-White City 21 25 27 Fed Com
	SURFACE HOLE FOOTAGE:	330'/S & 1923'/W
	BOTTOM HOLE FOOTAGE	330'/N & 1923'/W
	LOCATION:	Sec. 21, T. 25 S., R. 27 E.
	COUNTY:	Eddy County, New Mexico
-		

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
🖄 Special Requirements
Communitization Agreement
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Cement Requirements
High Cave/Karst
Logging Requirements
Waste Material and Fluids
☑ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on</u> the sign.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

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G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.





All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'} + 100' = 200'$ lead-off ditch interval 4%

Cattleguards

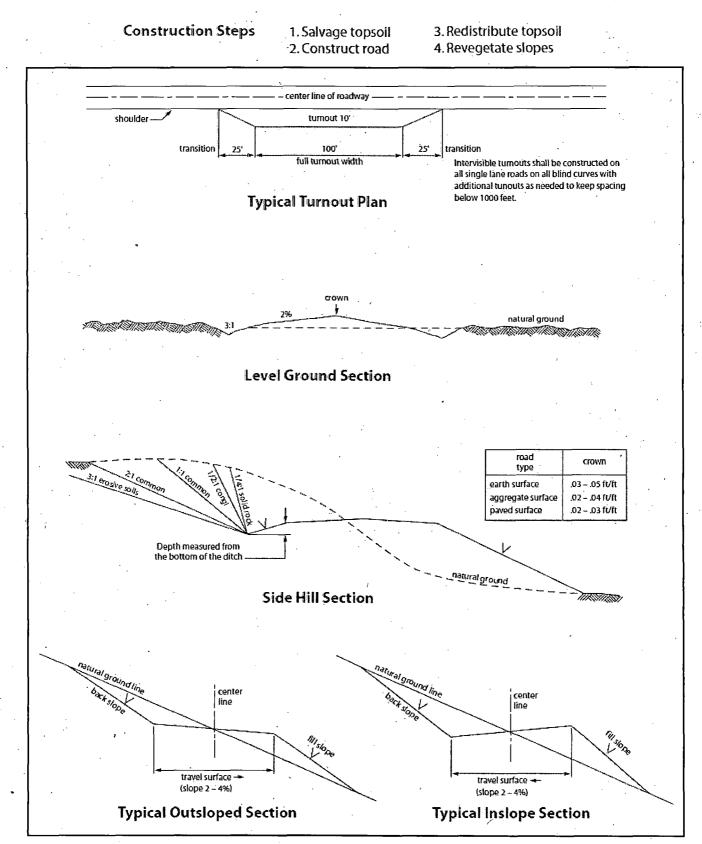
An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

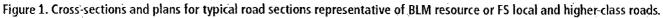
Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





VII. DRILLING

A. **DRILLING OPERATIONS REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst

<u>A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS</u> <u>REQUIRED IN HIGH CAVE/KARST AREAS.</u> THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH. ON A THREE STRING DESIGN; IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.

Possible water flows in the Castile and Delaware. Possible lost circulation in the Salado, Delaware, and Bone Spring.

- 1. The 13-3/8 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 2100 feet, is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

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If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator' removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Pipeline

The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.

- (2) Earth-disturbing and earth-moving work.
- (3) Blasting.
- (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-ofway width of <u>20</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies. 17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 4, for Gypsum Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre: <u>Species</u>

	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0

DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed