	Carlsbad Fi			ÀT.	5-15-392
Form 3160-3 (March 2012)		ARTESIA DIL CONS	STRICT	N FORM	1 APPROVED No. 1004-0137 October 31, 2014
	UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	INTERIOR MAY 19		5. Lease Serial No. NMNM118714	
AP	PLICATION. FOR PERMIT TO		IVED	6. If Indian, Allotee	e or Tribe Name
la. Type of work:	✓ DRILL REEN	TER		7 If Unit or CA Agr	eement, Name and No.
	Oil Well Gas Well Other	Single Zone	Multiple Zone	8. Lease Name and Rustler Bluff 34 24	
	CHEVRON U.S.A. INC.	Di Di co di		· · · · · · · · · · · · · · · · · · ·	43797
	ID, TEXAS 79705	3b. Phone No. (include area coo 432-687-7375	de)	10. Field and Pool, or WILLOW LAKE; BI	
At surface 275' FI	eport location clearly and in accordance with NL, & 510' FEL one 330' FNL, & 510' FEL	INORTHOE) <u>()</u> %	11. Sec., T. R. M. or B SEC 3, T25S, R29 SEC 34, T24S, R29	E, ULA (SHL)
14. Distance in miles and	direction from nearest town or post office* OF MALAGA, NM (1623 PECOS HIC	SHWAY)	1	12. County or Parish EDDY	13. State NM
15. Distance from propos location to nearest property or lease line (Also to nearest drig.	e, ft.	16. No. of acres in lease 600	17. Spaci 160 AC	ng Unit dedicated to this RES	well
18. Distance from propos	sed location* 400' FROM SUPERIOR ng, completed, 3 1 -BENNETT J GLENN	19. Proposed Depth MD - 13,837 TVD - 8842	20. BLM CA0329	/BIA Bond No. on file	
-	hether DF, KDB, RT, GL, etc.)	22. Approximate date work wi	ill start*	23. Estimated duratio	<u> </u>
	in accordance with the requirements of Onsl a registered surveyor.				s existing bond on file (see
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (-	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator co	over the operation ove). ertification	nis form: ons unless covered by an	existing bond on file (see s may be required by the
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (a registered surveyor. (if the location is on National Forest Syste:	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator co 6. Such other	over the operation ove). ertification r site specific in	nis form: ons unless covered by an	- · ·
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (SUPO must be filed w	a registered surveyor. (if the location is on National Forest System with the appropriate Forest Service Office).	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator co 6. Such other BLM. Name (Printed/Typed)	over the operation ove). ertification r site specific in	nis form: ons unless covered by an	s may be required by the Date
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (SUPO must be filed w 25. Signature Title	a registered surveyor. (if the location is on National Forest System with the appropriate Forest Service Office).	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator co 6. Such other BLM. Name (Printed/Typed)	over the operation ove). ertification r site specific in	nis form: ons unless covered by an	s may be required by the Date 02/03/2015
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (SUPO must be filed w 25. Signature Title REGULATORY S	a registered surveyor. (if the location is on National Forest System with the appropriate Forest Service Office).	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator cc 6. Such other BLM. Name (Printed/Typed) DENISE PINKERTO Name (Printed/Typed) Office	over the operation ove). ertification r site specific in:	nis form: ons unless covered by an	s may be required by the Date 02/03/2015
The following, completed 1. Well plat certified by a 2. A Drilling Plan. 3. A Surface Use Plan (SUPO must be filed w 25. Signature Title REGULATORY S Approved by (Signature) Title Application approval doe conduct operations thereou	a registered surveyor. (if the location is on National Forest System) with the appropriate Forest Service Office). SPECIALIST JAMOS FIELD MANAGER 25 not warrant or certify that the applicant hologo.	24. Attachments hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator cc 6. Such other BUNISE PINKERTO Name (Printed/Typed) Office Office	over the operation ove). ertification r site specific in DN N ARLSBAD FI e rights in the su	nis form: ons unless covered by an formation and/or plans at ELD OFFICE	s may be required by the Date 02/03/2015 Date MAY 1 6 20 entitle the applicant to
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The following, completed 1. Well plat certified by a 2 A Drilling Plan. 3. A Surface Use Plan (SUPO must be filed w 25. Signature Title REGULATORY S Approved by (Signature) Title Application approval doe conduct operations thereo Conditions of approval, in Title 18 U.S.C. Section 100 States any false, fictitious (Continued on pag	a registered surveyor. (if the location is on National Forest System with the appropriate Forest Service Office). SPECIALIST JAMOS A. AMOS FIELD MANAGER es not warrant or certify that the applicant ho on. if any, are attached. OI and Title 43 U.S.C. Section 1212, make it a or fraudulent statements or representations a ge 2)	24. Attachments hore Oil and Gas Order No.1, must hore Oil and Gas Order No.1, must 4. Bond to co Item 20 abo 5. Operator cr 6. Such other BLM. Name (Printed/Typed) DENISE PINKERTO Name (Printed/Typed) Office C/ office Office Office C/ office Office Office Office Office	ertification r site specific in N ARLSBAD FI e rights in the su And willfully to r on.	is form: ons unless covered by an formation and/or plans at ELD OFFICE bject lease which would of PPROVAL FC nake to any department of states of a state o	s may be required by the Date 02/03/2015 Date MAY 1 6 20 entitle the applicant to DR TWO YEARS or agency of the United

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DURING THE DRILLING OF THIS WELL, CHEVRON PROPOSED TO USE A CLOSED LOOP SYSTEM WITH A STEEL TANK AND HAUL TO THE REQUIRED DISPOSAL, PER THE OCD RULE 19.15.17.

	PROCESSING FEE INFORMATION CALLED IN/E-MAILED IN TO Source	AT BLM, ON <u>02/03/20</u> 15
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CHEVRON USA INC HAS AN AGREEMENT WITH CEHMM TO PROVIDE THE NEPA INFORMATION TO BLM.

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PLEASE FIND THE FOLLOWING ATTACHMENTS:

APD FORM

PRIVATE OWNER AGREEMENT (IF APPLICABLE)

C102

SUPPORTING MAPS (EXHIBIT 1)

MILE RADIUS MAP (EXHIBIT 3)

DRILLING PLAN

DIRECTIONAL PLAN & PLOT

BOP SCHEMATIC

SUPPORTING BOP DOCUMENTS/TESTING

CHOKE MANIFOLD SCHEMATIC

BOPE TESTING

RIG LAYOUT/FACILITY PAD (EXHIBIT 6)

OTHER SCHEMATICS ENGINEER HAS REQUESTED IN PAST

H2S PLAN

INTERIM RECLAMATION PLAT (EXHIBIT 7)

SURFACE USE PLAN

SUPPORTING SUP MAPS (Exhibit 2)

WELLHEAD SCHEMATIC

OIL AND GAS MEASUREMENT SCHEMATIC (EXHIBIT 4 & 5)

OPERATOR CERTIFICATION – SIGNED

ARCH SURVEY

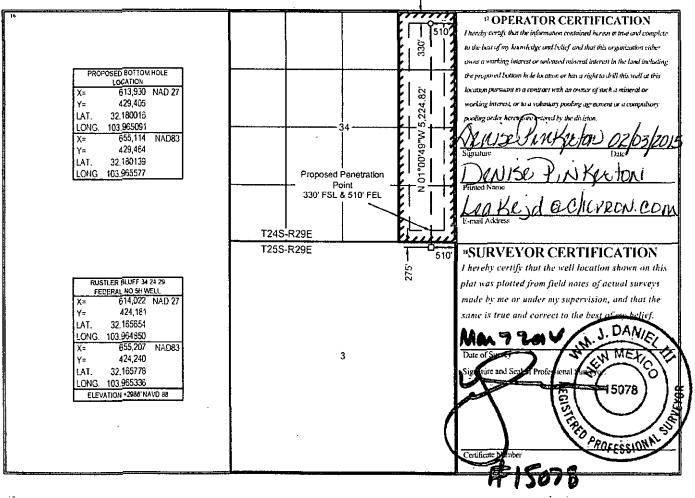
ON SITE INSPECTION CONDUCTED ON <u>D3/28/2014</u> BY <u>BRUMLEY</u> WITH BLM.

District 1 District 1 District 1State of New MexicoDistrict 11 District 11State of New MexicoBit 5. First SL, Artesia, NM 88210 Phone: (575) 748-1233 Fax: (575) 748-0720 District 110COIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 875051000 Rio Brazos Road, Azree, NM 87410 Phone: (505) 334-6170 District IV1220 South St. Francis Dr. Santa Fe, NM 87505Phone: (505) 476-3160 Fax: (505) 476-3160Santa Fe, NM 87505							Submit one	Form C-10 vised August 1, 201 copy to appropriate District Office MENDED REPORT	
·			WELL LOCAT		ACREAG	E DEDICA'	FION PLAT	ľ	
3157	¹ API Number 30 015 43797 <u>10217</u> <u>110000 Aake</u> ¹ Property Code ³ Property Name ³ Property Name ³ OGRID No. ⁴ OgRID No. ⁴ Ogrador Name ⁴ Ogrador Name ⁴ Operator Name ⁴ Operator Name						<u>e Dpring</u>	A SC - ⁹ N'ell Number <u>5H</u> - ⁹ Elevation 2986'	
				" Sur	face Locat	ion			
UL or lot no. A	A 3 25 SOUTH 29 EAST, N.M.P.M. 275' NORTH 510'						East/West line EAST	County EDDY	
Bottom Hole Location If Different From Surface									
A ¹² Dedicated A						East/West line EAST	EDDY		
16D									

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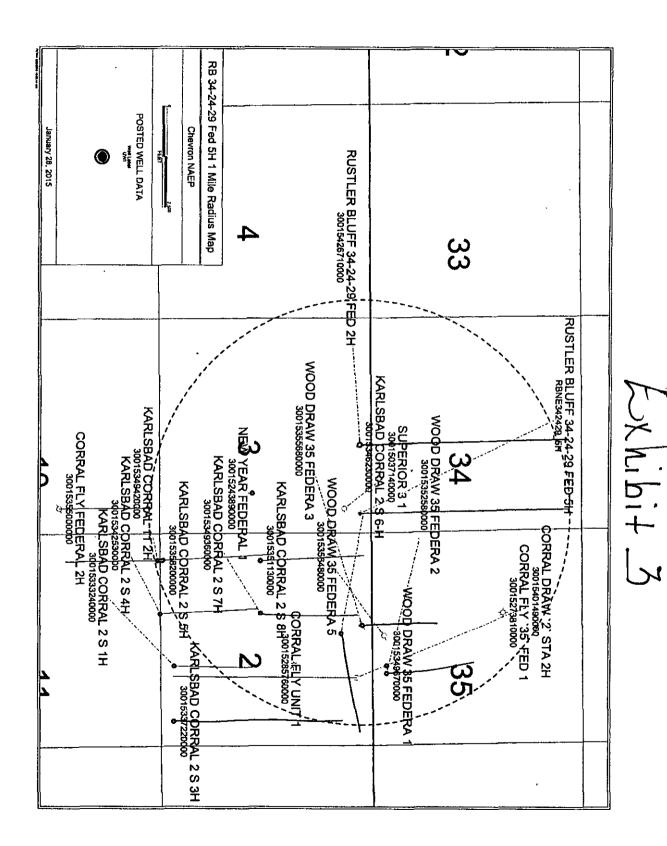
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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ONSHORE ORDER NO. 1 Chevron Operating Inc. Rustler Bluff 34 24 29 5H Eddy, NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 1

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA	KBTVD	MD
Rustler	2660	0	
Salado	2300	717	
Castille	1370	1647	
Lamar	-70	3087	
Bell Carlyon	-100	3117	
Cherry Canyon	-919	3936	
Brushy Canyon	-2245	5262	
Bone Spring Limestone	-3838	6855	
1st Bone Spring	-4747	7764	
2nd Bone Spring	-5599	8616	
	· · · · · · · · · · · · · · · · · · ·		
Lateral TD (2nd Bone Spring)	-5841	8,858	13837

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	pected Base of Fresh Water	350
Water	Rustler	0
Water	Bell Canyon	3087
Water	Cherry Canyon	3117
Oil/Gas	Brushy Canyon	3936
Oil/Gas	Bone Spring Limestone	5262
Oil/Gas	1st Bone Spring	6855
Oil/Gas	2nd Bone Spring	7764

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.

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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.

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ONSHORE ORDER NO. 1 Chevron Operating Inc. Rustler Bluff 34 24 29 5H Eddy, NM

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 2

4. CASING PROGRAM

a. The proposed casing program will be as follows: \sim

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Т	Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Γ	Surface	0'	500'	17-1/2"	13-3/8"	48 #	H-40	STC	New
Г	Intermediate	0'	2,950	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
	Production	0'	13,837'	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' MD/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	Х	X	X
P external: Water			
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	X		-
P external: Water	1	1	1
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			1
P internal: water		1	
Tension Design			
100k lb overpul	x	X	X

ONSHORE ORDER NO. 1 Chevron Operating Inc. Rustler Bluff 34 24 29 5H Eddy, NM

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CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 3

5. CEMENTING PROGRAM

Slu	rry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water
Surface	-				(ppg)	(sx/cu ft)	Open Hole		gal/sk
	Lead	C + 4% Gel+2%CaCl	0'	300'	13.5	1.78	125	228	9.18
	Tail	Class C+2%CaCl	300'	500'	14.8	1.35	125	290	6.39
Intermediate	2					· · · · · · · · · · · · · · · · · · ·			
	Lead	65C/35Poz +6%Gel +5%Salt	0'	2,350'	13.7	1.68	100	802	9.72
	Tail	Class C	2,350'	2,950'	14.8	1.33	100	311	6.24
Production									
	1st Lead	50% Class H+ 50% Silicalite +2% Gel	2,450'	8,285'	11.3	2.54	100	1113	15.07
	2nd Lead	Versacem	8,285'	12,800	13.2	1.81	35	860	8.10
L	ZIIU Leau	(Halliburton)							
	Tail	Acid Soluble Cement	12,800'	13,837	15	2.63	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.

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CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 4

ONSHORE ORDER NO. 1 Chevron Operating Inc. Rustler Bluff 34 24 29 5H Eddy, NM

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-CDH6. MUD PROGRAM

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F. Vis То Weight Filtrate From Туре 500 32 - 34 8.3 - 8.7 NC - NC 0' Spud Mud Sico Brine 500' 2.950 9.5 - 10.1 28 - 29 NC - NC 8,285' FW/Cut Brine 8.3 - 9.5 28 - 29 NC - NC 2-050¹ 28 - 30 8,285' 9,187' Cut Brine 8.3 - 9.5 15 - 25 15 - 25 9,187' 13,837 FW/Cut Brine 8.3 - 9.5 28 - 29

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
_	-	-	-	-
•		-		-
-	-	-	-	-

- 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: 4120 psi
b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

Chevron USA, Inc.

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Eddy County, NM

HALLIBURTON

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Plan Report for Rustler Bluff 34 24 29 Fed 5H - Plan #1

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (⁰/100usft)	Toolface Azimuth (°)
11,100.00 11,200.00	90.20 90.20	358.99 358.99	8,851.32 8,850.97	2,487.52 2,587.51	-43.81 -45.57	2,487.91 2,587.91	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
11,300.00 11,400.00 11,500.00 11,600.00 11,700.00	90.20 90.20 90.20 90.20 90.20	358.99 358.99 358.99 358.99 358.99 358.99	8,850.62 8,850.27 8,849.92 8,849.57 8,849.22	2,687.49 2,787.47 2,887.46 2,987.44 3,087.43	-47.33 -49.09 -50.85 -52.61 -54.37	2,687.91 2,787.91 2,887.90 2,987.90 3,087.90	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11,800.00 11,900.00 12,000.00 12,100.00 12,200.00	90.20 90.20 90.20 90.20 90.20 90.20	358.99 358.99 358.99 358.99 358.99 358.99	8,848.87 8,848.52 8,848.17 8,847.82 8,847.48	3,187.41 3,287.39 3,387.38 3,487.36 3,587.34	-56.13 -57.89 -59.66 -61.42 -63.18	3,187.90 3,287.90 3,387.90 3,487.90 3,587.90	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,300.00 12,400.00 12,500.00 12,600.00 12,700.00	90.20 90.20 90.20 90.20 90.20 90.20	358.99 358.99 358.99 358.99 358.99 358.99	8,847.13 8,846.78 8,846.43 8,846.08 8,845.73	3,687.33 3,787.31 3,887.30 3,987.28 4,087.26	-64.94 -66.70 -68.46 -70.22 -71.98	3,687.90 3,787.90 3,887.90 3,987.90 4,087.90	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,800.00 12,900.00 13,000.00 13,100.00 13,200.00	90.20 90.20 90.20 90.20 90.20 90.20	358.99 358.99 358.99 358.99 358.99 358.99	8,845.38 8,845.03 8,844.68 8,844.33 8,843.99	4,187.25 4,287.23 4,387.22 4,487.20 4,587.18	-73.74 -75.50 -77.26 -79.02 -80.79	4,187.90 4,287.90 4,387.90 4,487.90 4,587.89	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,300.00 13,400.00 13,500.00 13,600.00 13,700.00	90.20 90.20 90.20 90.20 90.20 90.20	358.99 358.99 358.99 358.99 358.99 358.99	8,843.64 8,843.29 8,842.94 8,842.59 8,842.24	4,687.17 4,787.15 4,887.13 4,987.12 5,087.10	-82.55 -84.31 -86.07 -87.83 -89.59	4,687.89 4,787.89 4,887.89 4,987.89 5,087.89	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,800.00 13,836.92 TD @ 1383	90.20 90.20 36.92' MD ; Ru	358.99 358.99 Istler Bluff 34	8,841.89 8,841.76 [24 29 Fed 5 F	5,187.09 5,224.00 I BHL	-91.35 -92.00	5,187.89 5,224.81	0.00	0.00 0.00	0.00	

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
8,285.04	8,285.04	0.00	0.00	Start Build @ 8285.04' MD
8,285.04	8,285.04	- 0.00	0.00	Dogleg = 10.00°/100'
9,187.04	8,857.99	574.87	-10.12	End Build @ 9187.04' MD
9,187.04	8,857.99	574.87	-10.12	Hold Angle @ 90.20°
13,836.92	8,841.76	5,224.00	-92.00	TD @ 13836.92' MD

Vertical Section Information

Angl	e			Origin	Origin		Start	
Турс	9	Target	Azimuth (°)	Туре	+N/_S (usft)	+E/-W (usft)	TVD (usft)	
TD	No Target ((Freehand)	358.99	Slot	0.00	0.00	0.00	
<u>Survey tool program</u>	<u>n</u>							
	ro sft)	Si	urvey/Plan			Surve	y Tool	
	836.92 Plan #1				l	MWD+SC		

Chevron USA, Inc.

Eddy County, NM

HALLIBURTON

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Plan Report for Rustler Bluff 34 24 29 Fed 5H - Plan #1

Formation Details

Measured	Vertical				Dip ,
Depth	Depth	Name	Lithology	Dip	Direction
(usft)	(usft)			(")	(°)
357.00	357.00	Rustler		-0.20	358.99
717.00	717.00	Salado		-0.20	358.99
1,647.00	1,647.00	Castille		-0.20	358.99
3,087.00	3,087.00	Lamar LS		-0.20	358.99
3,117.00	3,117.00	Bell Canyon		-0.20	358.99
3,936.00	3,936.00	Cherry Canyon		-0.20	358.99
5,262.00	5,262.00	Brushy Canyon		-0.20	358.99
6,855.00	6,855.00	T/Bone Spring		-0.20	358.99
7,764.00	7,764.00	T/1st Bone Spring Sand		-0.20	358.99
8,055.00	8,055.00	B/1st Bone Spring Sand		-0.20	358.99
8,637.43	8,616.00	2nd Bone Spring Sand		-0.20	358.99
9,187.04	8,860.00	Tgt. Line		-0.20	358.99

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Targets associated with this wellbore

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	TVD	+N/-S	+E/-W	
Target Name	(usft)	(usft)	(usft)	Shape
Rustier Bluff 34 24 29 Fed 5H BHL	8,841.76	5,224.00	-92.00	Rectangle
Rustler Bluff 34 24 29 Fed 5H PP	8,857.89	605.10	-10.66	Point

HALLIBURTON

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Chevron USA, Inc. Eddy County, NM

North Reference Sheet for Rustler Bluff 34 24 29 Fed - Rustler Bluff 34 24 29 Fed 5H - Wellbore #1

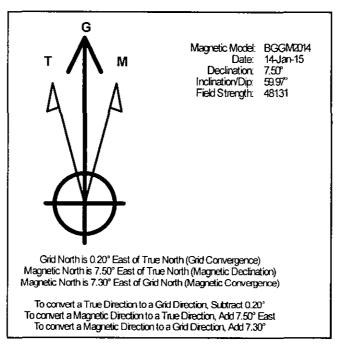
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference. Vertical Depths are relative to GL 2986.0' + KB 31.0' @ 3017.00usft (Ensign 767). Northing and Easting are relative to Rustler Bluff 34 24 29 Fed 5H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger) Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N° False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99992398

Grid Coordinates of Well: 424,181.00 usft N, 614,022.00 usft E Geographical Coordinates of Well: 32° 09' 56.35" N, 103° 57' 53.46" W Grid Convergence at Surface is: 0.20°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,836.92usft the Bottom Hole Displacement is 5,224.81usft in the Direction of 358.99° (Grid).

Magnetic Convergence at surface is: -7.30° (14 January 2015, , BGGM2014)



		•	BLOWOUT	PREVENTOR SCHEMATIC
			м	linimum Requirements
				Production Hole Sections
Pres	imum Sy ssure Ra	ating	5,000 psi	
_				
A S		ESSURE	Bell Nipple	
		00 psi	Annular	
		i00 psi	Pipe Ram	Flowling to Shaker
D 1:	3 5/8" 5,0	00 psi	Blind Ram	
E 13	3 5/8- 5,0	00 psi	Mud Cross	
F				
DS	A As	require	d for each hole size	
C-S	iec			B⊅
8-S	iec 🛛	13-5/8	<u>" 5K x 11" 5K</u>	
A-S	iec 1	3-3/8" 9	OW x 13-5/8" 5K	
		KIII L	.ine	
SIZ	E PRES	SURE	DESCRIPTION	
2"	5,00	0 psl	Gate Valve	
2"		0 psl	Gate Valve	
2"	5,00	0 psi	Check Valve	
				Kill Line- 2" minimum Choke Line to Choke Manifold- 3" minimum
			Line	
SIZI 3"	E PRES 5,000		DESCRIPTION "	
3") psi	HCR Valve	HCR Valve
		·,	FICK VAIVE	
	,			L) L)
	Insta	llatio	n Checklist	
	The fol	lowing i	tem must be verified an	ed checked off prior to pressure testing of BOP equipment.
	The inst	alled BC	P equipment meets at l	least the minimum requirements (rating, type, size, configuration) as shown on
	this sch compon	ematic. ents ma	Components may be su y be put into place as lo	ubstituted for equivalent equipment rated to higher pressures. Additional ong as they meet or exceed the minimum pressure rating of the system.
\square	All vaive	s on the	kill line and choke line	s will be full opening and will allow straight though flow.
			choke line will be straig ored to prevent whip an	ight unless turns use tee blocks or are targeted with running tess, nd reduce vibration.
	Manual	(hand wi	heels) or automatic loci	king devices will be installed on all ram preventers. Hand wheels will also be
	A valve	will be i	nanual valves on the ch installed in the closing li	line as close as possible to the annular preventer to act as a locking device.
			•	umulator is inoperative. I be available on rig floor along with safety valve and subs to fit all drill string
	connect	ions in u	150.	
After	Installatio	on Checi	dist is complete, fill out	t the information below and email to Superintendent and Drilling Engineer
		W	eliname:	
	R		entative:	
		• • • •	 Date:	

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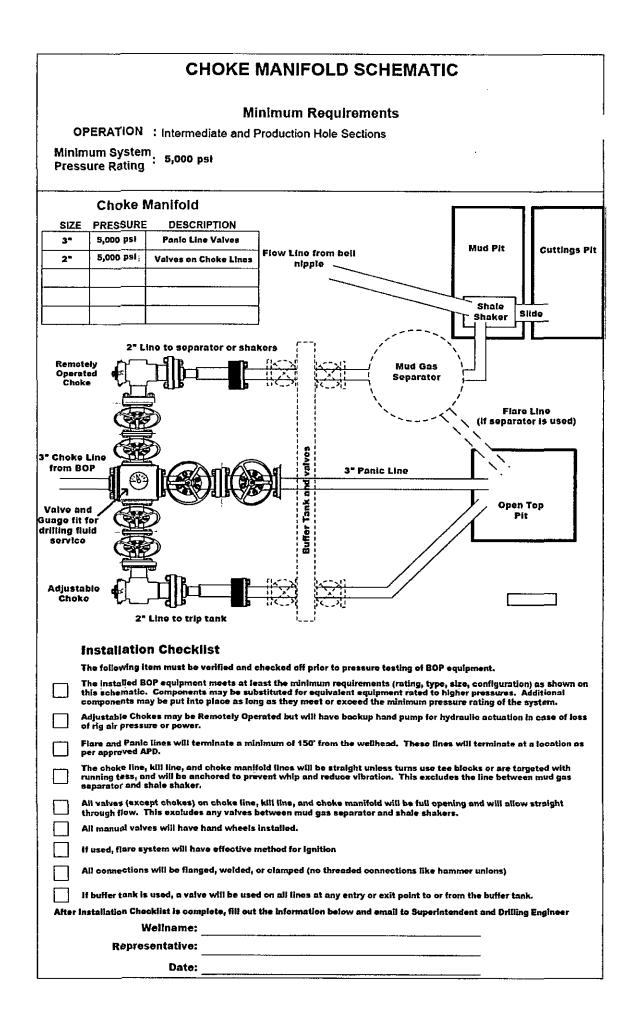
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		B	OPE Testir	ıg			
Minimum Requirements							
			-				
	The following it	Closing Unit a					
				led off at least once pe d after 6 months on the			
			•				
w	vith nitrogen gas only. '	Fested precharge pres	sures must be recor	ded for each Individual	may be further charged bottle and kept on location		
	hrough the end of the w Accumulator working						
applies	pressure rating	Minimum acceptable operating pressure	pressure	Maximum acceptable precharge pressure	precharge pressure		
	1500 psi	1500 psi	750 psi	800 psł	700 psł		
	2000 psi	2000 psi	1000 psi	1100 psi	900 psi		
	3000 psi	3000 psł	1000 psi	1100 psi	900 psi		
יד . ק אי	vith test pressure recon	preventer, and retain a e) on the closing mani led and kept on location	minimum of 200 psi fold without the use on through the end o	above the maximum of of the closing pumps. If the well	cceptable precharge This test will be performed		
 	/ill be maintained at ma	nufacturer's recomme juid level will be recor	ndations. Usable flu	id volume will be recor	em capacity. Fluid level ded. Reservior capacity wil ation. All will be kept on		
] с р	losing unit system will reventers.	have two independent	power sources (not	counting accumulator I	bottles) to close the		
- N	ower for the closing un rhen the closing valve r ccumulator pump is *0	nanifold pressure decr	eases to the pre-set	times so that the pump level. It is recommend	s will automatically start ed to check that air line to		
l) [. 9	f used) plus close the a	nnular preventer on th eptable precharge pres	e smallest size drill isure (see table abo	pipe within 2 minutes a re) on the closing manif	y-operated choke line valve nd obtain a minimum of 200 fold. Test pressure and		
a	Il preventer and the cho	ke line valve (if used)			le of opening and closing		
	temote controls for the loor (not in the dog hour	e). Remote controls v	vill be capable of cit	ear path) to the driller a sing all preventers.	and located on the rig		
R	lecord accumulator test						
		BOPE T	est Checklist				
_	Tł	e following item must	be ckecked off prior	to beginning test			
B	LM will be given at leas	t 4 hour notice prior to	beginning BOPE ter	sting			
] v	alve on casing head be	low test plug will be op	pen				
] T	est will be performed u	sing clear water.					
	The follow	ing item must be perfe	ormed during the BO	PE testing and then ohe	toked off		
te	OPE will be pressure te bliowing related repairs arty on a test chart and	, and at a minimum of :	30 days intervals. To	est pressure and times	essure is broken, will be recorded by a 3 rd		
י [est plug will be used						
R	am type preventer and	all related well control	equipment will be t	ested to 250 psi (low) a	nd 5,000 psl (high).		
_ A	nnular type preventer v	jil be tested to 250 ps	i (low) and 3,500 psi	(high).			
∏ V h	alves will be tested from eld open to test the kill	n the working pressur line valve(s)	e side with all down	stream valves open. Ti	he check valve will be		
E	ach pressure test will b	e held for 10 minutes (with no allowable le:	uk off.			
-				or) must be function te	sted as part of the BOP test		
	ecord BOP tests and pr						
After li with a	ny/all BOP and accumul	<u>ator tost charts and re</u>	nformation below an ports from 3ª partie	d email to Superintendo E	ent and Drilling Engineer <u>alo</u>		
	Wellnar						
	Representati			· · · · · · · · · · · · · · · · · · ·			

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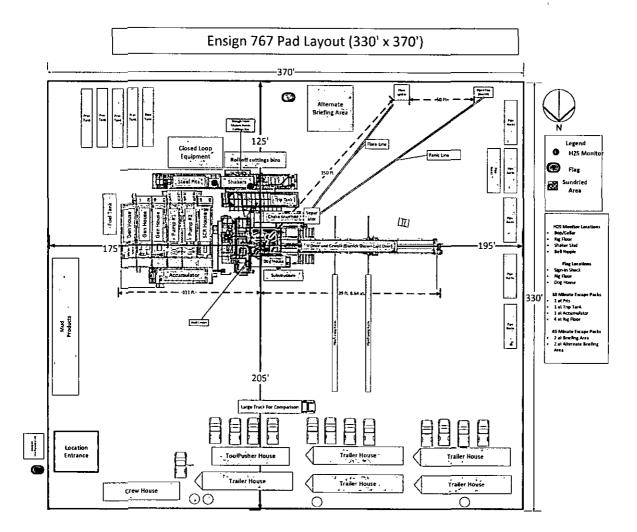
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Exhibit 6



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	Midwest Ho & Specialty,			(17)	
	INTERNAL	HYDROST	ATIC TEST	CERTIFICATE	=
	Customer:	ODESSA		Customer P.O. No 193072	umber
		HOSE SPEC	FICATIONS		
	Type: Rotary/CH				
	GRADE E			Hose Length: 25	FEET
	I.D. 3'	' INCHES	0.D.	4.77 INC	CHES
	WORKING PRESSURE	TEST PRESSU		BURST PRESSURE	
	10,000 PSI	15,000) PSI	N/A	PSI
			PLINGS	• · · · · · · · · · · · · · · · · · · ·	
	Part Number	Stem Lot Nu			
	E3.0X64WB			L08301765	
	E3.0X64WB Type of Coupling:	1	Die Size:	L08301765	<u> </u>
	SWAGE	IT		5.25	
			CEDURE		
		<u>v pressure tested v</u> I TEST PRESSURE		<u>nt temperature</u> . BURST PRESSURE:	
	3 1/2 Hose Assembly Seri	al Number:	Hose Serial I		<u>P</u> SI
·	212332 Comments:	212332 8104			
				1	
	Date:	Tested:		Approved AU	lune

Approved By: Ryan Adams

Tested By: Ryan Malone

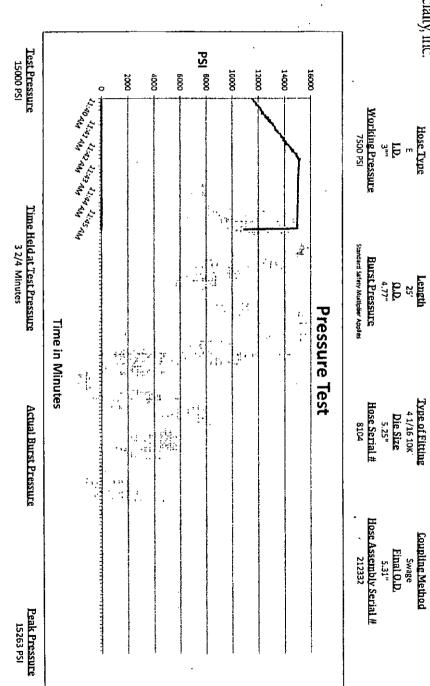
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Comments: Hose assembly pressure tested with water at ambient temperature.

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August 7, 2013

Midwest Hose & Specialty, Inc. Customer: Odessa

Pick Ticket #: 212332

Verification

Internal Hydrostatic Test Graph

Hose Specifications



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GE Oil & Gas

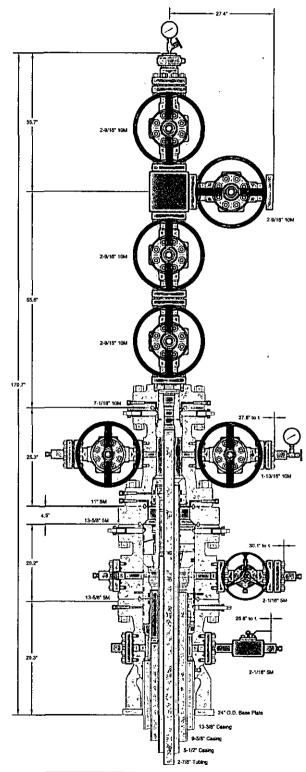
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This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & 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	
	APPRV	KN	19MAR13	
Wellhead Assembly, With DSA, T-EBS-F Tubing Head, T-EN Tubing Hanger and A5PEN Adapter Flange	FOR REFERENCE ONLY DRAWING NO. AE23705			



Rustler Bluff 34-24-29 Fed 5H

Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

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

- 1. Physical and chemical properties of H₂S
- 2. Health hazards of H₂S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 5. Alarms and emergency evacuation procedures

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

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

- 1. H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
- 4. Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
- Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
- 6. Proficiency examination covering all course material.

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

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H₂S Training Certification

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

Briefing Area

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

H₂S Equipment

Respiratory Protection

- a) Six 30 minute SCBAs 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



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Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

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

Page 3 of 5

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

Public Safety - Emergency Assistance

Agency	Telephone Number
Eddy County Sheriff's Department	575-887-7551
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-628-5450
Poison Control Center	800-222-1222



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Chevron MCBU D&C Emergency Notifications

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

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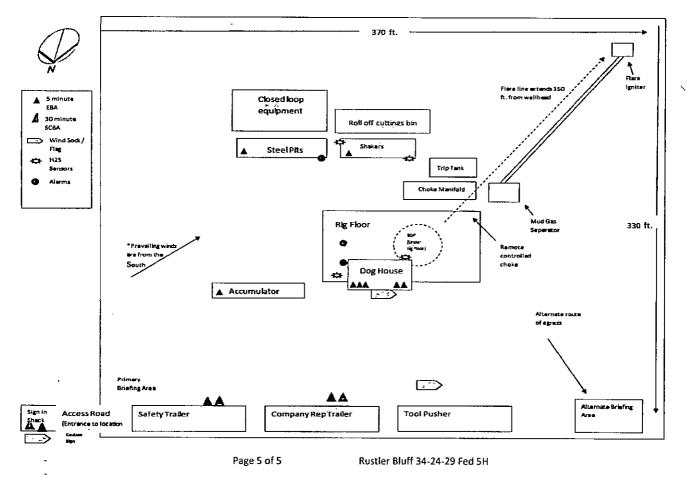
	Name	Title	Office Number	Cell Phone
1.	Serik Seitassanov	Drilling Engineer	(713) 372-0453	(832) 581-8145
2.	Phil Clark	Superintendent	(713) 372-7588	(832) 741-4175
5.	Kim McHugh	Drilling Manager	(713) 372-7591	(713) 204- 8550
6.	Darrell Hammons	Operations Manager	(713) 372-5747	(281) 352 2302
7.	Spencer Halliday	D&C HES	(713) 372-5720	(281) 386-5781

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Chevron Representatives Primary point of contact: Jennifer Van Curen Jennifer.VanCuren@arcadis-us.com M- 432-270-8753

Chevron Functional Contacts

Project Manager Name: Danny Boone	Drilling Engineer Name: Serik Seitassanov
Address: 1400 Smith Street Houston, TX 77002	Address: 1400 Smith Street Houston, TX 77002
Phone: (713) 372-5390	Phone: (713) 372-0453
Email: <u>dboone@chevron.com</u>	Email: <u>Serik.Seitassanov@chevron.com</u>
Surface Land Representative Name: Kevin Dickerson	Facility Lead Name: Christopher Smith
Address: 15 Smith Road Midland Texas 79705	Address: 15 Smith Road Midland, Texas 79705
Phone: (432) 687-7104	Phone: (432) 687-7249
Email: Kevin.Dickerson@chevron.com	Email: <u>Christopher.smith@chevron.com</u>
Geologist Name: Jeff Fabre Address: 1400 Smith Street Houston, TX 77002 Phone: (713) 372-0523 Email: <u>JeffreyFabre@chevron.com</u>	Regulatory Specialist Denise Pinkerton Address: 15 Smith Road, Midland, TX 79705 Office: (432) 687-7375 Email: <u>leakeid@chevron.com</u>

EXHIBITS:

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- Exhibit 1 -- Existing Roads
- Exhibit 2 -- Survey Plat: New or Reconstructed Roads Map: if road is outside 600' x 600'.
 - Exhibit 3 -- 1-mile Radius Map
 - Exhibit 4 -- Location of Existing and/or Proposed Production Facilities (Tank Battery)

Exhibit 5 -- Survey Plat: Infrastructure: roads, pipelines, power lines, frac pond

Exhibit 6 -- Rig Layout: Well Site Layout Map / Diagram

Exhibit 4a

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.

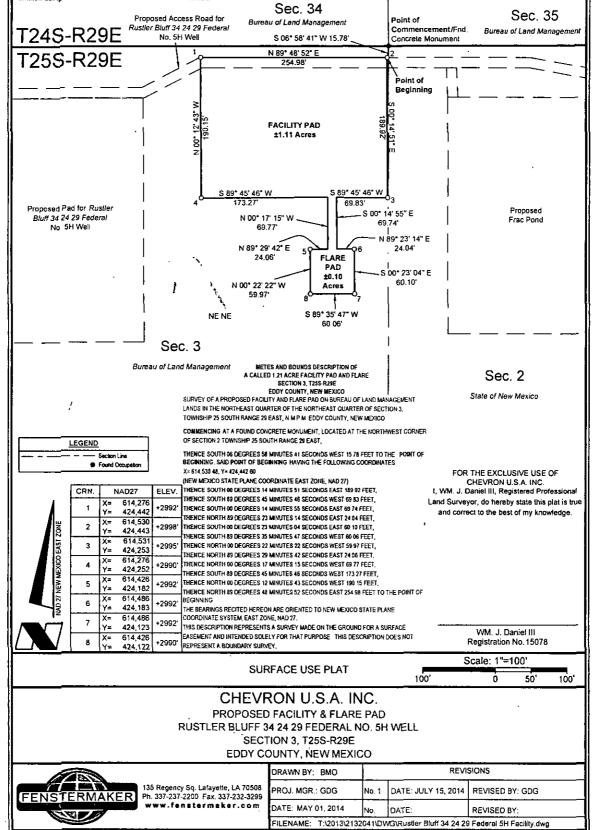
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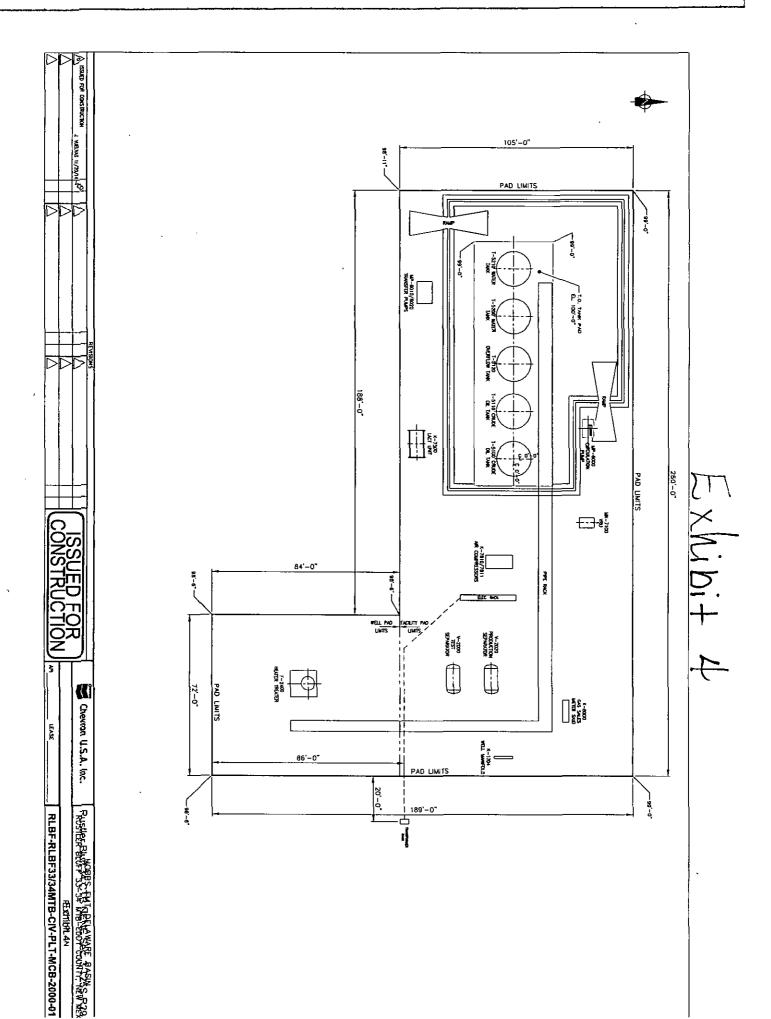
NOTE:

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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 System - www.nmonecall.org

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

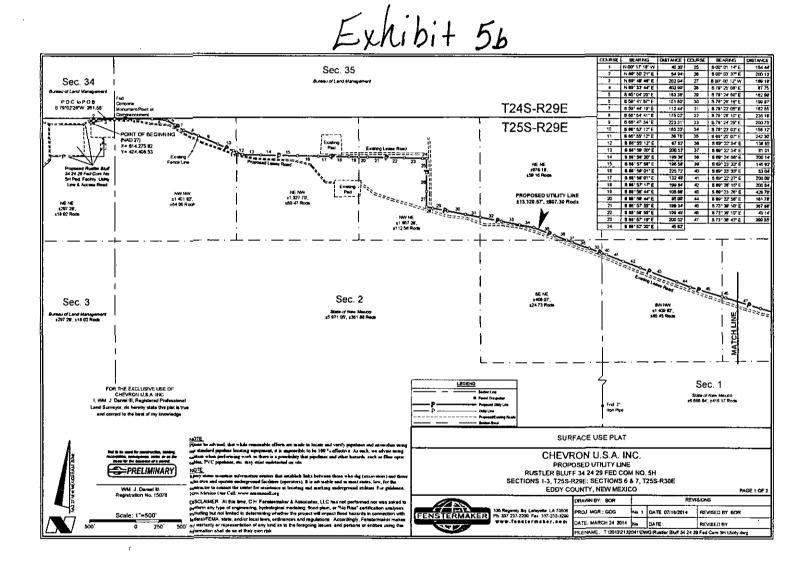


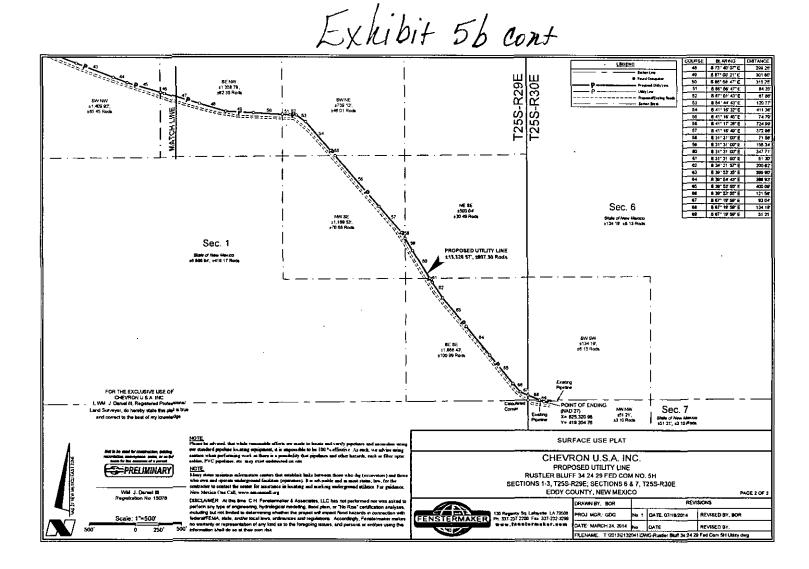


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Exhibit 5a Fresh water transfer line between RB 34 Frac pond and RB 34-24-29 FED 5H well pad RB 34-24-29 FED 5H well pad Right Rustler/Bluff/34(CT/B) 34:24:29 FED 5H Proposed ROW following existing road 1-4" surface laid flow line 4" Surface laid low pressure gas lift line Chevron Midcontinent Business Unit DELAWARE BASIN - Exhibit 5a IRB 34-24-29 FED 5H Facility Layout





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APD Surface Use Plan of Operations

Existing Roads (Exhibit 1)

• The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator 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.

New or Reconstructed Access Roads – Survey plat (Exhibit 2)

- Road Width: The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 14'. The maximum width of surface disturbance shall not exceed 25'.
- Maximum Grade: 3%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Turnouts: 50-60'
- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: Several existing, installed 1 new
- Major Cuts and Fills: 2:1 during drilling and completions. Cuts and fills taken back to 3:1 at interim.
- Type of Surfacing Material: Caliche

Location of Existing Wells (Exhibit 3)

• 1-Mile radius map is attached

Location of Existing and/or Proposed Production Facilities (Exhibit 4)

- Facilities: Production facilities will be in the northeast corner of NENE sec.3, T25S, R29E where oil sales will take place.
 - The facility is off lease.
 - 3rd party gas purchaser has agreed to pipeline to Chevron's production facilities and will be responsible for ROW approval.
 - o Open top tanks or open containments will be netted.
 - Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting.

- Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank.
- All above ground structures will be painted non-reflective shale green for blending with surrounding environment.
- The permanent water disposal system will be determined prior to construction of any water transfer pipeline. Until permanent water takeaway is available, produced water will be hauled off location in trucks.
- Pipelines: Two 4" surface flex pipelines with less than 125 psi working pressure will be laid along existing disturbances from well to production facility. A ROW will not be required.
 - All construction activity will be confined to the approved 20' width.
 - o Pipeline will run perpendicular to road and will stay within 10' of road.
- Power lines: 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.
 - Construction activity will not commence until Power line access is approved or ROW is approved.

Location and Types of Water Supply (Exhibit 5)—(if new pond-need survey platexhibit 2)

• From Pond in NWNW Sec. 2 T25S-R29E

Construction Material

- Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit.
- The proposed source of construction material will be located and purchased by construction contractor.
 - Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972.
 - Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.

Methods for Handling Waste

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.

- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Ancillary Facilities

• Ancillary Facilities will not be required for this proposed project.

Well Site Layout (Exhibit 6)

- Surveyor Plat
 - o Exterior well pad dimensions are 370' x 330'
 - Interior well pad dimensions from point of entry (well head) are 150' north, 180' south, 185' west, and 210' east
 - o Total disturbance area needed for construction activities will be 4.19 acres
 - o Topsoil placement: South side of pad
 - Cut and fill: South side of pad
- Rig Layout (Exhibit 6)

Reclamation Objectives

- The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.
- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

 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. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production. A plan will be submitted showing where interim reclamation will be completed in order to allow for safe operations, protection of the environment outside of drilled well, and following best management practices found in the BLM "Gold Book".

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- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished

Final Reclamation (well pad, buried pipelines, and power lines, etc.)

- Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.
- All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture, free of noxious weeds.
- Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

Surface Ownership

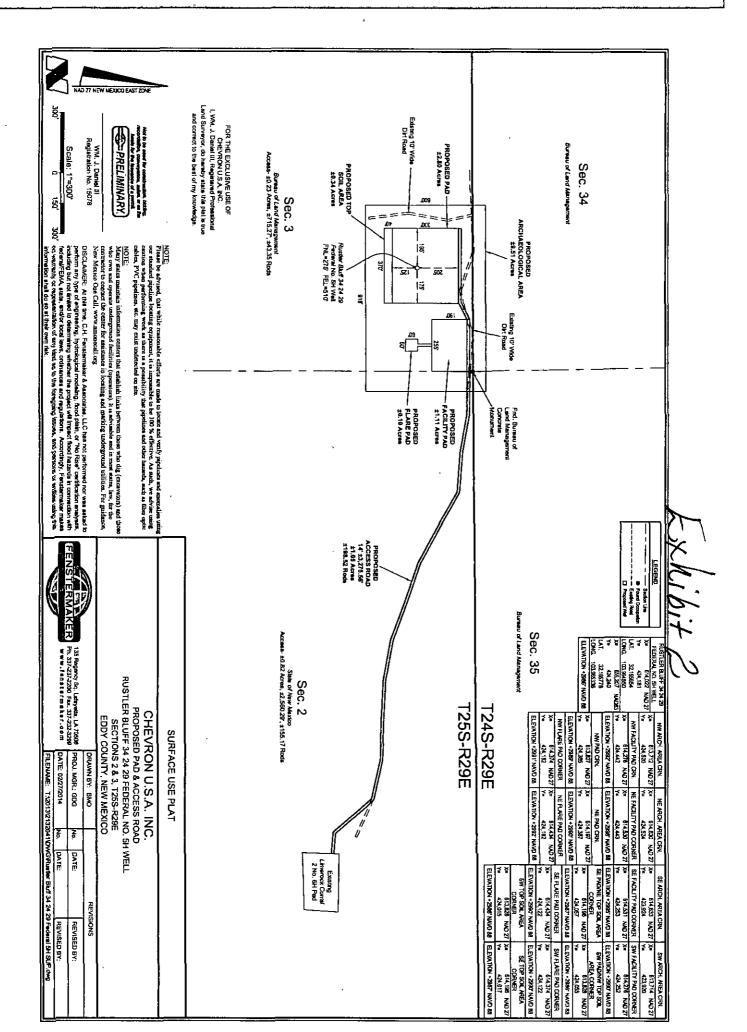
- If on private surface, supply:
 - o Name: N/A (BLM)
 - o Address
 - o Phone Number

• The operator must certify that they have provided a copy of the Surface Use Plan of Operations of the APD to the private surface owner or that they made a good faith effort if unable to provide the document to the surface owner.

Other Information

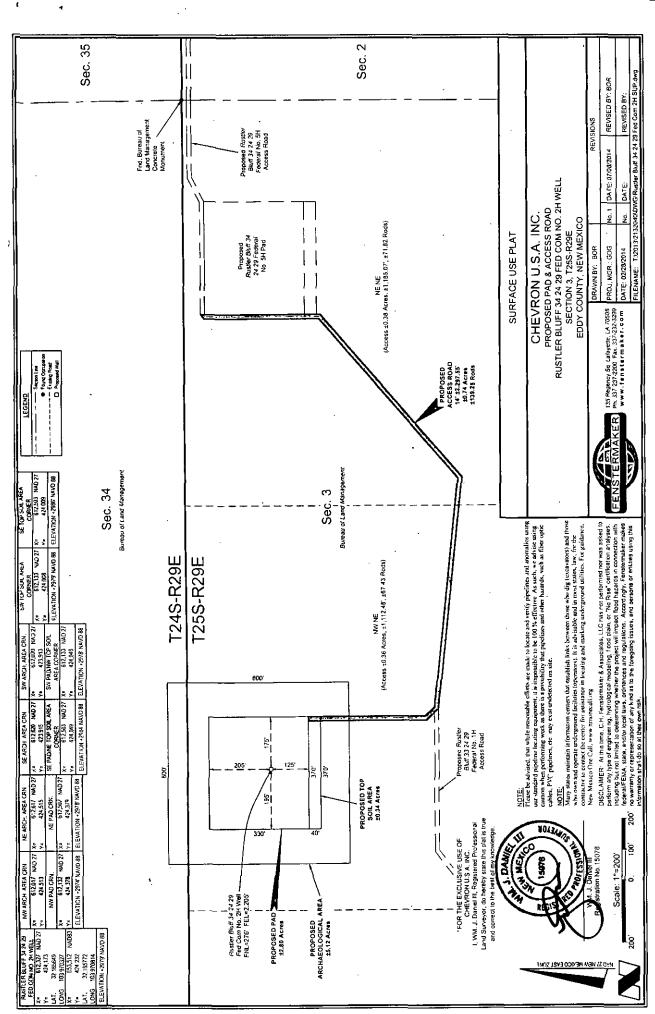
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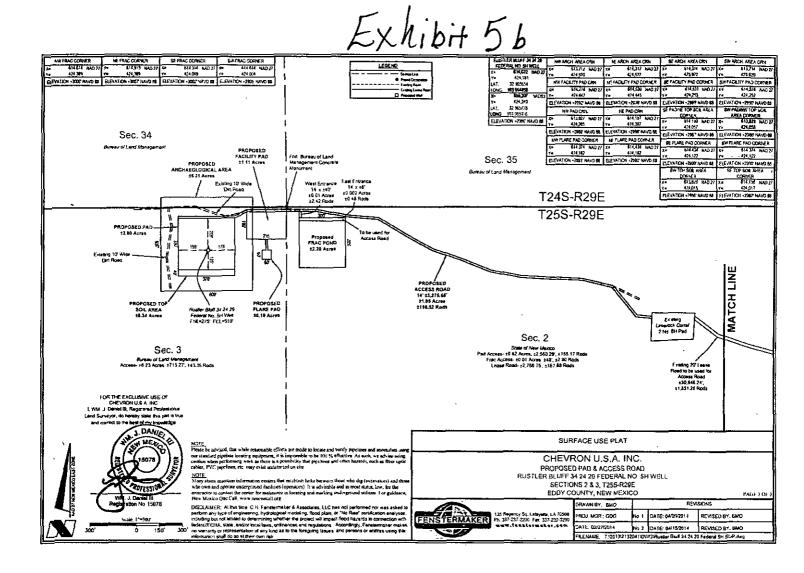
- On-site performed by BLM NRS: Legion Brumley
- Cultural report attached: <u>YES</u> Participating Agreement attached: N/A
- Erosion / Drainage: Drainage control system shall be constructed on the entire length of road by the use of any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditches, culvert installation, or low water crossings.
- Exclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation. Fencing will remain in place while no activity is present and until backfilling takes place.
- Terrain: Downhill grade to the West at 1-2%
- Soil: Light reddish-brown sandy soils; occasional outcrops of low coppice dunes up to 1m in height.
- Vegetation: Vegetation present in surrounding area includes mesquite, creosote, various grasses, yucca, prickly pear, and various low forbes.
- Wildlife: No wildlife observed, but it is likely that deer, rabbits, coyotes, and rodents pass through the area.
- Surface Water: There are no ponds, lakes, streams, or rivers within several miles of proposed location
- Cave Karst: None known
- Watershed Protection: The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminates from leaving the well pad.
- Water wells: No known water wells within the 1- mile radius.
- Residences and Buildings: No dwellings within the immediate vicinity of the proposed location.
- Well Signs: Well signs will be in compliance per federal and state requirements and specifications.



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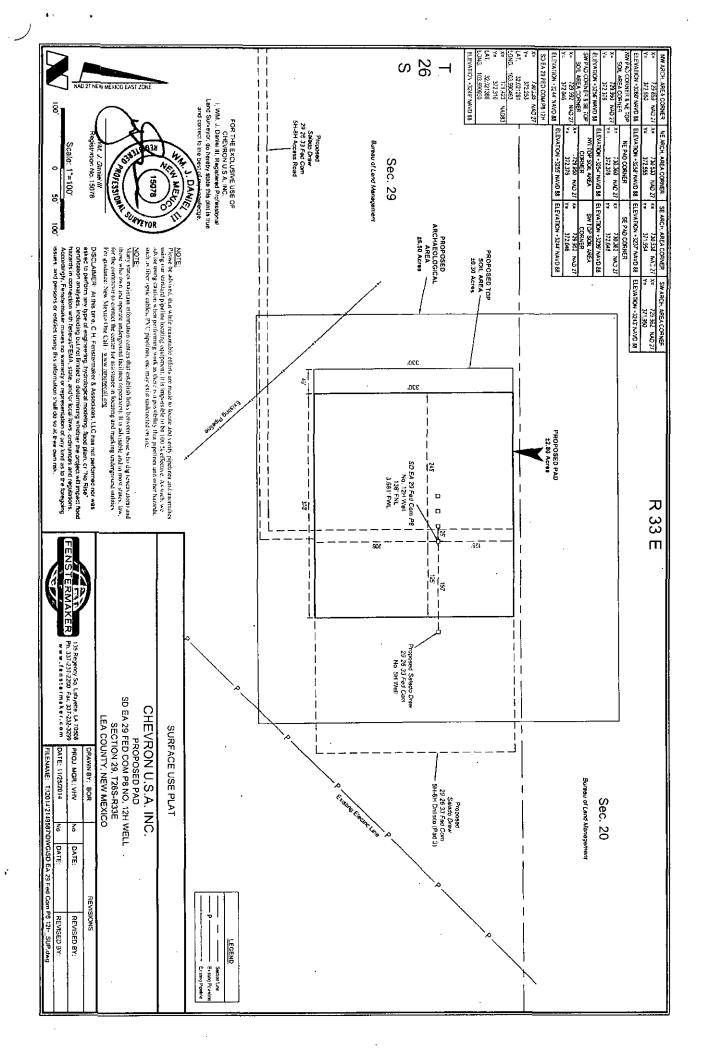


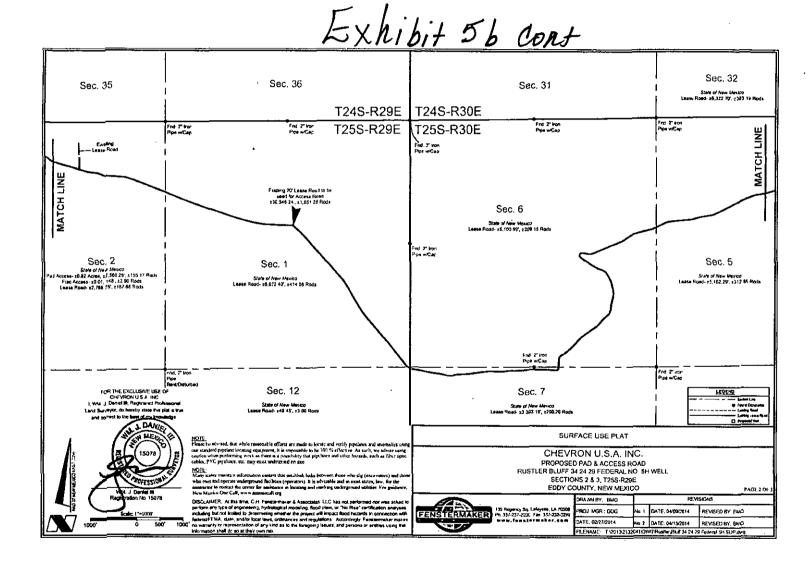


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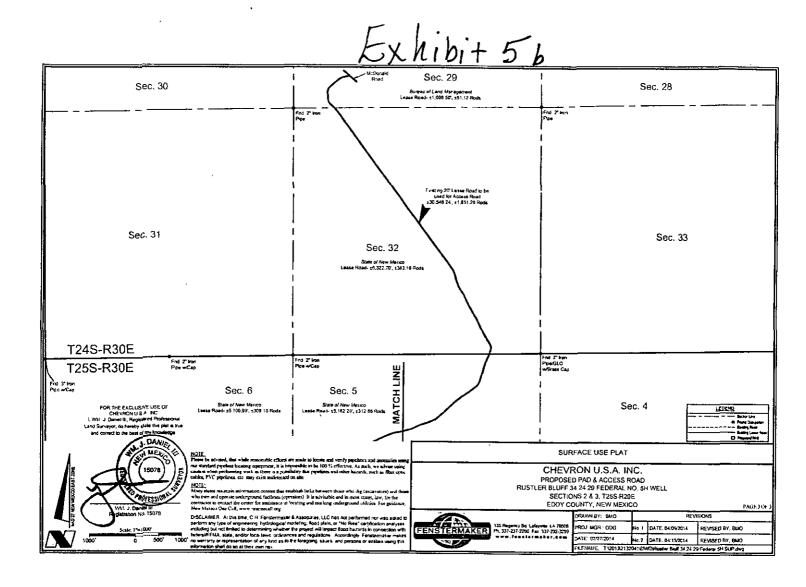




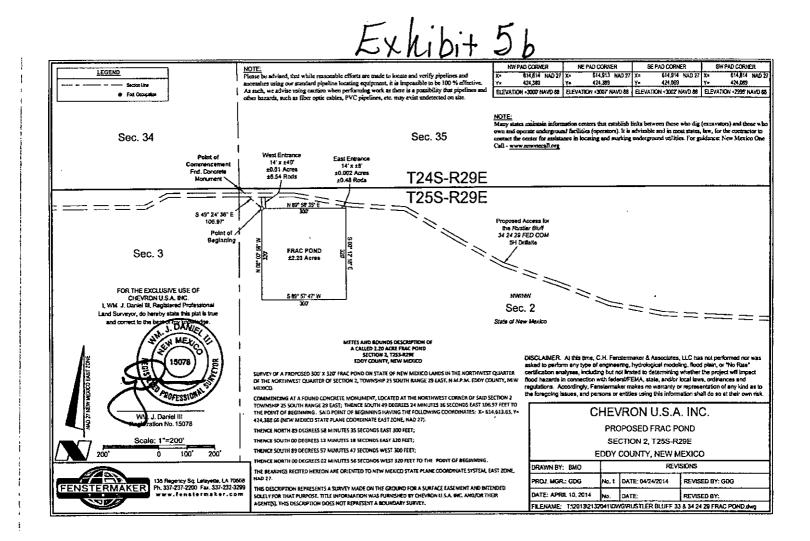
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CERTIFICATION

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	3rd day of	February	, 2015
Name:	Dar	Pa	

Danny Boone – Project Manager

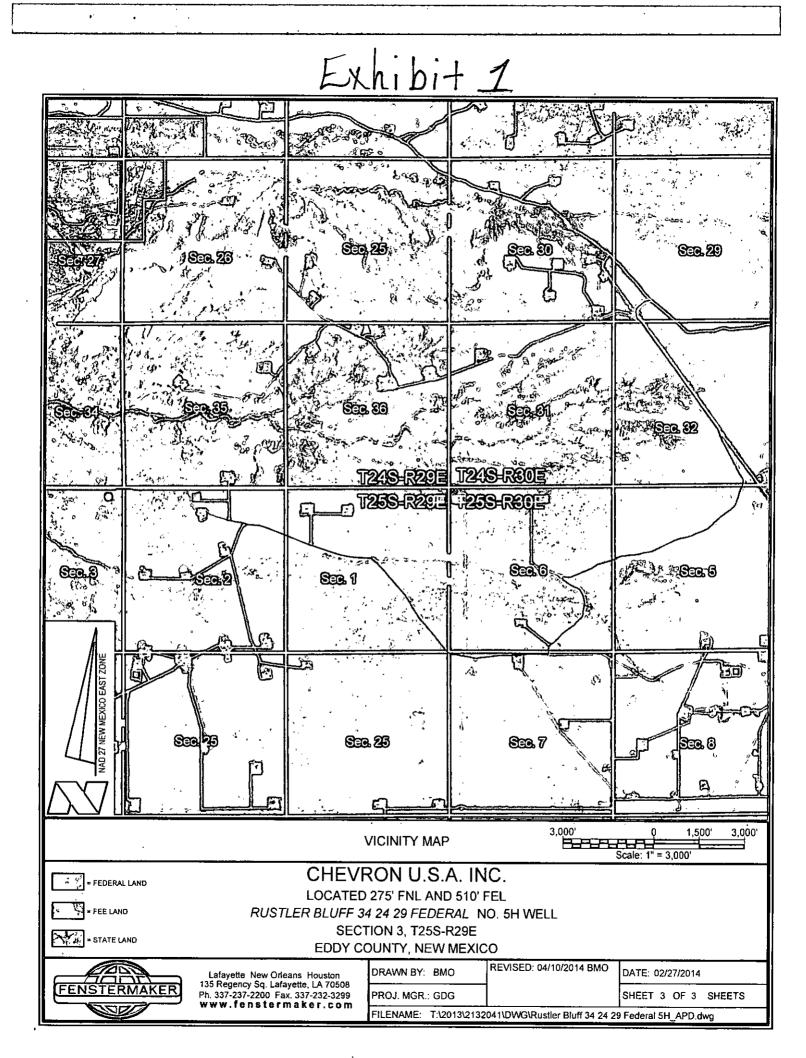
Address: <u>1400 Smith Street</u>

Houston, TX 77002

<u>Roam 40135</u>

Office: <u>713-372-5390</u>

E-mail: <u>DBPR@CHEVRON.COM</u>



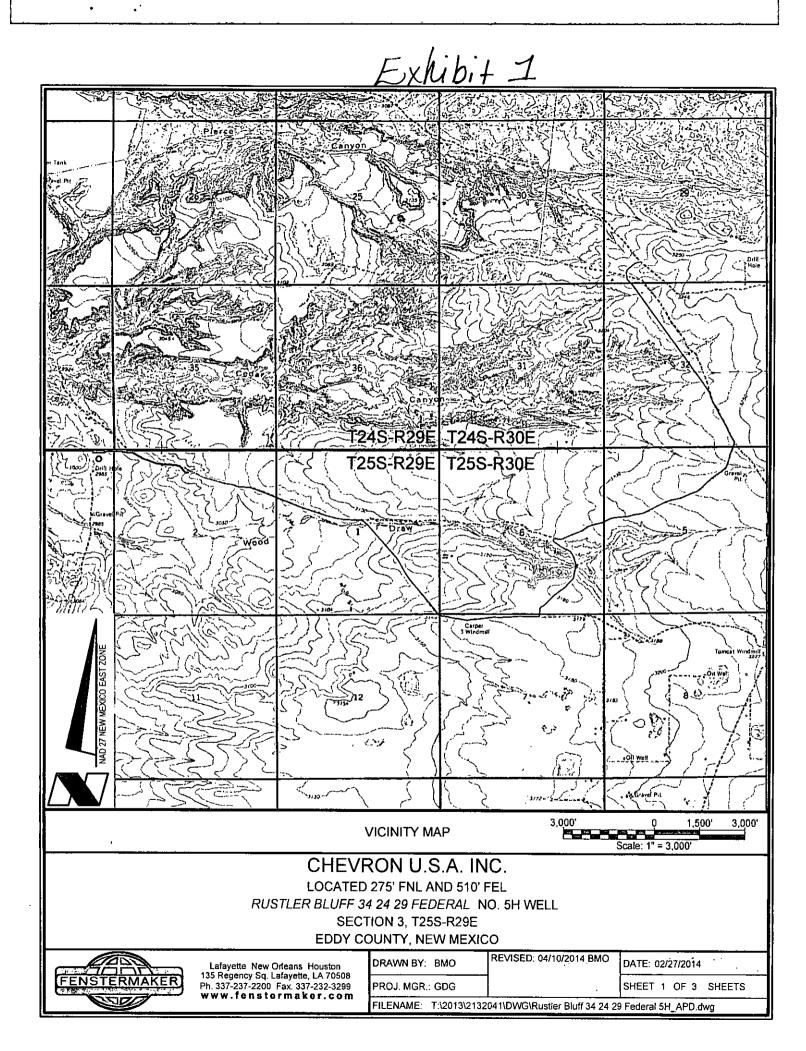


Exhibit 1				
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VICINITY MAP	0,000' 0 5,000' 10,000' Scale: 1" = 10,000'			
CHEVRON U.S.A. INC.				
LOCATED 275' FNL AND 510' FEL RUSTLER BLUFF 34 24 29 FEDERAL NO. 5H WELL SECTION 3, T35S, P39E				
SECTION 3, T25S-R29E EDDY COUNTY, NEW MEXICO				
REVISED: 04/40	0/2014 BMO DATE: 02/27/2014			
Lafayette New Orleans Houston 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com	SHEET 2 OF 3 SHEETS			

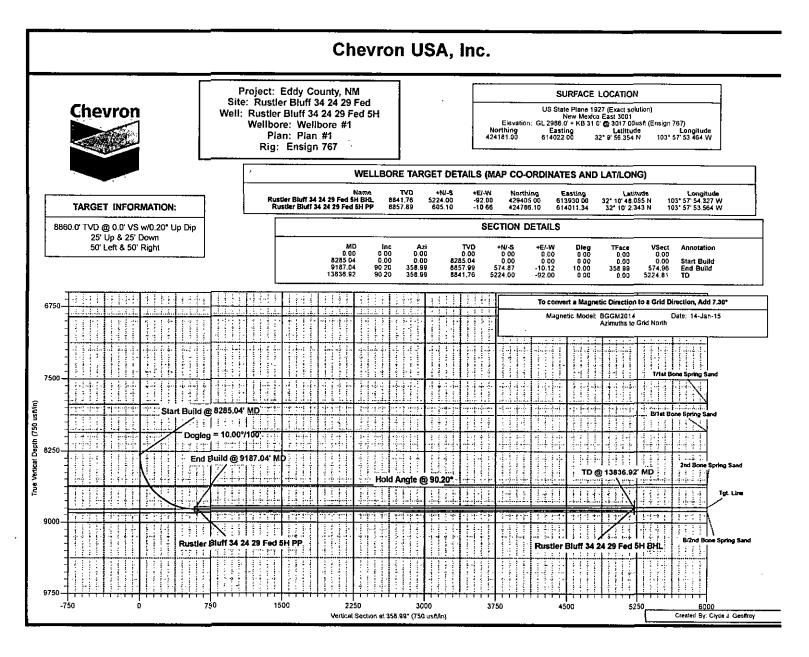
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Chevron USA, Inc. West(-)/East(+) (750 usfl/in) Project: Eddy County, NM -750 -1500 750 1500 Site: Rustler Bluff 34 24 29 Fed 6000 -6000 Well: Rustler Bluff 34 24 29 Fed 5H Wellbore: Wellbore #1 Rustler Bluff 34 24 29 Fed 5H BHL Plan: Plan #1 Rig: Ensign 767 TD @ 13836.92' MD 5250 -5250 -} SURFACE LOCATION US State Plane 1927 (Exact solution) New Mexico East 3001 Elevation: GL 2986.0' + KB 31.0' @ 3017.00usft (Ensign 767) rthing Easting Latittude Longitude 81.00 614022.00 32° 9' 56.354 N 103° 57' 53.464 W Ï ÷ 4500 Northing 424181.00 1, To convert a Magnetic Direction to a Grid Direction, Add 7.30* 3750-Magnetic Model: BGGM2014 Azimuths to Grid North 4. Date: 14-Jan-15 South(-)/North(+) (750 usft/in) 3000 3000 South(-)/North(+) (750 4 -i -TARGET INFORMATION: 8860.0' TVD @ 0.0' VS w/0.20° Up Dip 25' Up & 25' Down Unit Line 50' Left & 50' Right ustVin) 2250 2250 $\frac{1}{2}$ - 1 330' Hard Line 1.1. 1 1500 1500 ÷. Chevron Rustler Bluff 34 24 29 Fed SH RP End Build @ 9187.04' MD 750 750 ł ÷ D 1 1 Start Build @ 8285.04' MD -750 750 Т

0 West(-)/East(+) (750 usft/in) 750

1500

-1500

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Chevron USA, Inc.

Eddy County, NM Rustler Bluff 34 24 29 Fed Rustler Bluff 34 24 29 Fed 5H

Wellbore #1

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Plan: Plan #1

Sperry Drilling Services Proposal Report

14 January, 2015

Well Coordinates: 424,181.00 N, 614,022.00 E (32° 09' 56.35" N, 103° 57' 53.46" W) Ground Level: 2,986.00 usft

Local Coordinate Origin: Viewing Datum: TVDs to System: North Reference: Unit System: Centered on Well Rustler Bluff 34 24 29 Fed 5H GL 2986.0' + KB 31.0' @ 3017.00usft (Ensign 767) N Grid API - US Survey Feet

Version: 5000.1 Build: 72

HALLIBURTON

Chevron USA, Inc.

Eddy County, NM

HALLIBURTON

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Plan Report for Rustler Bluff 34 24 29 Fed 5H - Plan #1

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron U.S.A. Inc.
LEASE NO.:	NMNM-118714
WELL NAME & NO.:	Rustler Bluff 34 24 29 Fed 5H
SURFACE HOLE FOOTAGE:	0275' FNL & 0510' FEL
BOTTOM HOLE FOOTAGE	0330' FNL & 0510' FEL Sec. 34, T. 24 S., R 29 E.
LOCATION:	Section 03, T. 25 S., R 29 E., NMPM
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.

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

1. 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)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Powerlines:

Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features. The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.

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.)

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

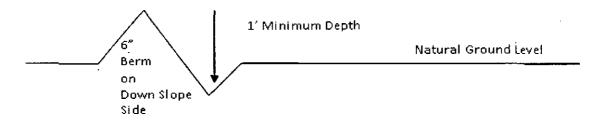
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Cross Section of a Typical 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 $\underline{4\%}$

Cattleguards

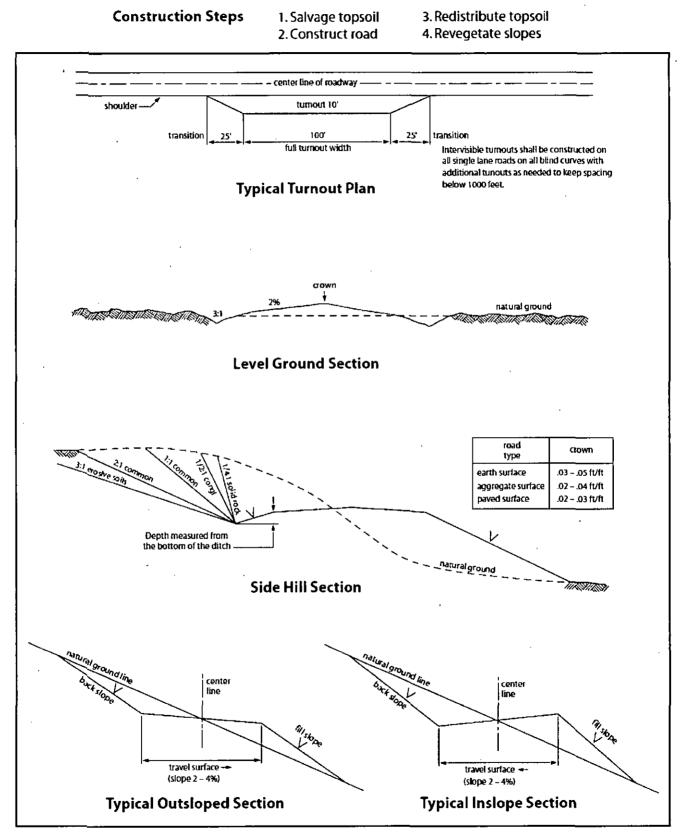
An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible 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. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts 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.
- 3. 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.
- 4. 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 Rustler top and 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 or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

Medium Cave/Karst

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 500 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 3100 feet (top of Lamar), 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.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.111.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.

Centralizers approved as proposed by operator.

- 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 53.
- 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.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 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

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 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 ¹/₂ 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).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. 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. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard 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 in particular, 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. 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, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) 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 provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. 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 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 Holder, regardless of fault. Upon failure of 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/she 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 Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

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6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall 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 shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

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

8. 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 shall be "snaked" around hummocks and dunes rather than 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 shall 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).

NMOCD CONDITION OF APPROVAL

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The *New!* Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.