Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN		5. Lease Serial No. NMNM112941
	FEB 26 2020	6. If Indian, Allotee or Tribe Name
1b. Type of Well: Oil Well Gas Well O	EENTER ther ingle Zone Multiple Zone	 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. COBBER 21-28 FED 9H 3Z7175
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP 613	:7)	9. API-Well No.
3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102	3b. Phone No. (include area code) (800)583-3866	10 Field and Peol, of Exploratory (98117 WO-025 G-09 \$263619C / WOLFCAMP; : -
 4. Location of Well (Report location clearly and in accordance of At surface NENE / 383 FNL / 490 FEL / LAT 32.03513 At proposed prod. zone SENE / 2618 FNL / 360 FEL / LAT 	98 / LONG -103.467872	11. Sec., T. R. M. or Blk. and Survey or Area SEC 21 (126S/R34E / NMP
14. Distance in miles and direction from nearest town or post off	ice*	12. County or Parish 13. State LEA NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Spacin 1920 480	ng Unit dedicated to this well
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 20/BLM/ 12870 feet / 20472 feet FED: CC	/BIA Bond No. in file D1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3303 feet	22. Approximate date work will start* 01/01/2020 24. Attachments	23. Estimated duration 45 days
The following, completed in accordance with the requirements o (as applicable)		lydraulic Fracturing rule per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 	m Lands, the 5. Operator certification.	ns unless covered by an existing bond on file (see rmation and/or plans as may be requested by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429	9 Date 9 02/22/2019
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 Office	Date 02/24/2020
Assistant Field Manager Lands & Minerals	CARLSBAD	
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal or equitable title to those rights	in the subject lease which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements		invidication
CCA Rec 02/26/2020	VED WITH CONDITIONS	Kæhg/2020

Automatical Date: 02/24/2020

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
WELL NAME & NO.:	Cobber 21-28 Fed 9H
SURFACE HOLE FOOTAGE:	216'/N & 1418'/E
BOTTOM HOLE FOOTAGE	20'/S & 1665'/E
LOCATION:	Section 21, T.26 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico



H2S	C Yes	🤨 No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	C Conventional	Multibowl	C Both
Other	1 4 String Area	Capitan Reef	L WIPP
Other	F Fluid Filled	Cement Squeeze	🗖 Pilot Hole
Special Requirements	T Water Disposal	ГСОМ	🗖 Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 800 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 will be a minimum of $\underline{8}$

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<u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing 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 or potash.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. <u>Operator must run</u> <u>a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.</u>

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 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. Variance is approved to use a 10,000 (10M) Annular which shall be tested to 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. 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.

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e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL RESTRICITONS

1. Operator has been approved for their alternate casing design with a traditional cement job or Bradenhead squeeze. Any deviation from the approved casing plan should follow the sundry process.

GENERAL 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

- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on

Page 3 of 7

which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

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- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
- 3. 5M or higher 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. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

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- 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. 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.
 - g. 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.

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h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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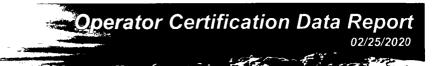
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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



Zip: 73102

Operator 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 herein 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 false statements.

NAME: Rebecca Deal		Signed on: 02/22/2019
Title: Regulatory Compliance	Professional	
Street Address: 333 West Sh	eridan Avenue	
City: Oklahoma City	State: OK	Zip: 73102
Phone: (405)228-8429		
Email address: Rebecca.Dea	l@dvn.com	
Field Representa	tive	

Representative Name:Street Address: 333 W SHERIDAN AVECity: OKCState: OKPhone: (405)552-6556Email address: blake.richardson@dvn.com



U.S. Department of the interior BUREAU OF LAND MANAGEMENT

Application Data Report 02/25/2020

APD ID: 10400039468

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Type: OIL WELL

Well Number: 9H Well Work Type: Drill

Submission Date: 02/22/2019

Show Final Text

77

Section 1 - General		
APD ID: 10400039468	Tie to previous NOS?	Submission Date: 02/22/2019
BLM Office: CARLSBAD	User: Rebecca Deal	Title: Regulatory Compliance
Federal/Indian APD: FED	Is the first lease penetrated t	Professional for production Federal or Indian? FED
Lease number: NMNM112941	Lease Acres: 1920	
Surface access agreement in place?	Allotted? Ro	eservation:
Agreement in place? NO	Federal or Indian agreement	:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: DEVON ENER	RGY PRODUCTION COMPANY LP
Operator letter of designation:		

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (800)583-3866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO Well in Master SUPO? NO Well in Master Drilling Plan? NO Well Name: COBBER 21-28 FED Field/Pool or Exploratory? Field and Pool Master Development Plan name:

Zip: 73102

Master SUPO name:

Master Drilling Plan name:

Well Number: 9H

Well API Number:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: COBBER 21-28 FED Well Number: 9H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance? Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** . . **COBBER 21 WELLPAD** Well Class: HORIZONTAL Number of Legs: 1 Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL **Describe sub-type: Distance to town:** COBBER_21_28_FED_9H_C_102_REV_20191001091838.pdf Well plat: Well work start Date: 01/01/2020 Duration: 45 DAYS **Section 3 - Well Location Table** Survey Type: RECTANGULAR Describe Survey Type: Datum: NAD83 Vertical Datum: NAVD88 Survey number: **Reference Datum:** Will this well produce from this lease? Aliquot/Lot/Tract ease Number **EW Indicator NS Indicator** Longitude Elevation ease Type Wellbore EW-Foot Meridian NS-Foot .atitude Range Section County Twsp State Ž g SHL FEL Aliquot F 26S 34E 21 LEA NEW NEW NMNM 0 Leg MEXI MEXI 112941 NENE CO CO #1 KOP FEL 26S 34E 21 Aliquot LEA NEW NEW F NMNM 122 MEXI MEXI 112941 97 Leg NENE CO CO #1 PPP 34E 21 Aliquot LEA NEW NEW 125 FEL 26S NMNM MEXI MEXI 112941 31 NENE Leg CO CO #1-1

Page 2 of 3

Well Name: COBBER 21-28 FED

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Well Number: 9H

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	۵۷T	Will this well produce from this lease?
EXIT Leg				FEL	26S	34E	28	Aliquot SENE			LEA		NEW MEXI		NMNM 112941	1		128 70	
#1											•	со	co						
BHL				FEL	26S	34E	28	Aliquot			LEA	NEW	NEW	F	NMNM			128	
Leg								SENE					MEXI		112941			70	
#1												со	co						



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report 02/25/2020

and the

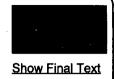
APD ID: 10400039468

Submission Date: 02/22/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Number: 9H



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Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
403731		3314	0	0	OTHER, SANDSTONE : SURFACE	NONE	N
403732	RUSTLER	2594	720	720	SANDSTONE	NONE	N
403744	SALADO	2214	1100	1100	SALT	NATURAL GAS, OIL	N
403734	BASE OF SALT	-1801	5115	5115	ANHYDRITE	NATURAL GAS, OIL	N
403735	BELL CANYON	-2046	5360	5360	SANDSTONE	NATURAL GAS, OIL	N
403741	CHERRY CANYON	-3122	6436	6436	SANDSTONE	NATURAL GAS, OIL	N
403742	BRUSHY CANYON	-4750	8064	8064	SANDSTONE	NATURAL GAS, OIL	N
403736	BONE SPRINGS	-6321	9635	9635	SHALE	NATURAL GAS, OIL	N
403743	BONE SPRING 1ST	-7273	10587	10587	SANDSTONE	NATURAL GAS, OIL	N
403737	BONE SPRING 2ND	-7834	11148	11148	SANDSTONE	NATURAL GAS, OIL	N
403738	BONE SPRING 3RD	-8296	11610	11610	SANDSTONE	NATURAL GAS, OIL	N
403739	WOLFCAMP	-9344	12658	12658	SHALE	NATURAL GAS, OIL	Y
403740	PENN	-11307	14621	14621	SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: COBBER 21-28 FED

Well Number: 9H

Pressure Rating (PSI): 10M Rating Depth: 12870

Equipment: BOP/BOPE will be installed per Onshore Oil & amp; amp; amp; amp; Gas Order #2 requirements prior to drilling below intermediate casing, a 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart. Devon requests a variance to run a 5M annular on a 10M BOP system. See separately attached variance request and support documents in AFMSS.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. 5M annular on 10M system will be tested to 100% of rated working pressure. **Choke Diagram Attachment:**

10M_BOPE_CHK_DR_CLS_RKL_20190221115720.pdf

BOP Diagram Attachment:

10M_BOPE_CHK_DR_CLS_RKL_20190221115729.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12250

Equipment: BOP/BOPE will be installed per Onshore Oil & amp;amp;amp; Gas Order #2 requirements prior to drilling below surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & amp;amp;amp; Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

5M_BOPE__CK_20190221115807.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190221115814.pdf

Well Name: COBBER 21-28 FED

Well Number: 9H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Coltapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	725	0	725			725	H-40	48	ST&C	1.12 5	1	BUOY	1.6	BUOY	1.6
2	INTERMED	9.87 5	7.625	NEW	API	N	0	12250	0	12250			12250	P- 110		OTHER - FLUSHMAX III	1.12 5	1	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	20473	0	12870			20473	P- 110		OTHER - VAM SG	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surf_Csg_Ass_20190222111600.pdf

Well Name: COBBER 21-28 FED

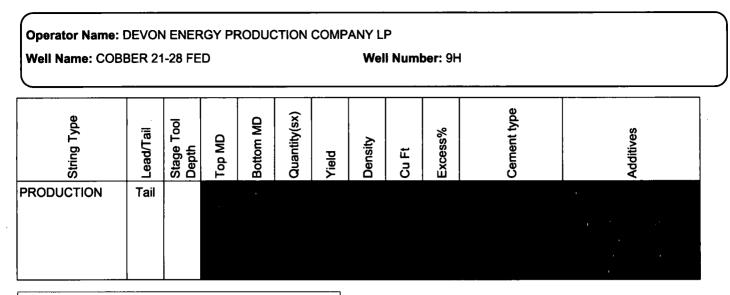
Well Number: 9H

Casing ID:	2	String Type: INTERMEDIATE	
Inspection E	Document:		
Spec Docun	nent:		
Tapered Stri	ing Spec:		
Casing Desi	gn Assum	ptions and Worksheet(s):	
Int_Cs	g_Ass_201	90221115912.pdf	
Casing ID:	3	String Type: PRODUCTION	
Inspection [Document:		
Spec Docun	nent:		
Tapered Stri	ing Spec:		
		ptions and Worksheet(s):	

Section	Section 4 - Cement													
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives			
SURFACE	Lead					1.44								

INTERMEDIATE	Lead			3.27		
INTERMEDIATE	Tail			·		
PRODUCTION	Lead			3.27		

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Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1225 0	2047 3	OIL-BASED MUD	10	10.5				12			
0	725	WATER-BASED MUD	8.5	9				2			
725	1225 0	SALT SATURATED	10	10.5				2			

Well Name: COBBER 21-28 FED

Well Number: 9H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

List of open and cased hole logs run in the well:

CALIPER,CBL,DS,GR,MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7027

Anticipated Surface Pressure: 4195.6

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Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Cobber_21_28_Fed_9H_Ver_2_20191001091805.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon_Cobber_21_28_Fed_9H_Permit_Plan_2_20191001092139.pdf Devon_Cobber_21_28_Fed_9H_Plot_Permit_Plan_2_20191001092139.pdf

Other proposed operations facets description:

DRILLING PLAN DIRECTIONAL SURVEY PLOT MULTI-BOWL WELLHEAD MULTI-BOWL VERBIAGE GAS CAPTURE PLAN CLOSED LOOP DESIGN CO-FLEX VARIANCE SPUDDER RIG DOCUMENT SPEC SHEETS ANNULAR VARIANCE REQUEST - DOC & SCHEMATIC

Other proposed operations facets attachment:

Clsd_Loop_20180823120203.pdf

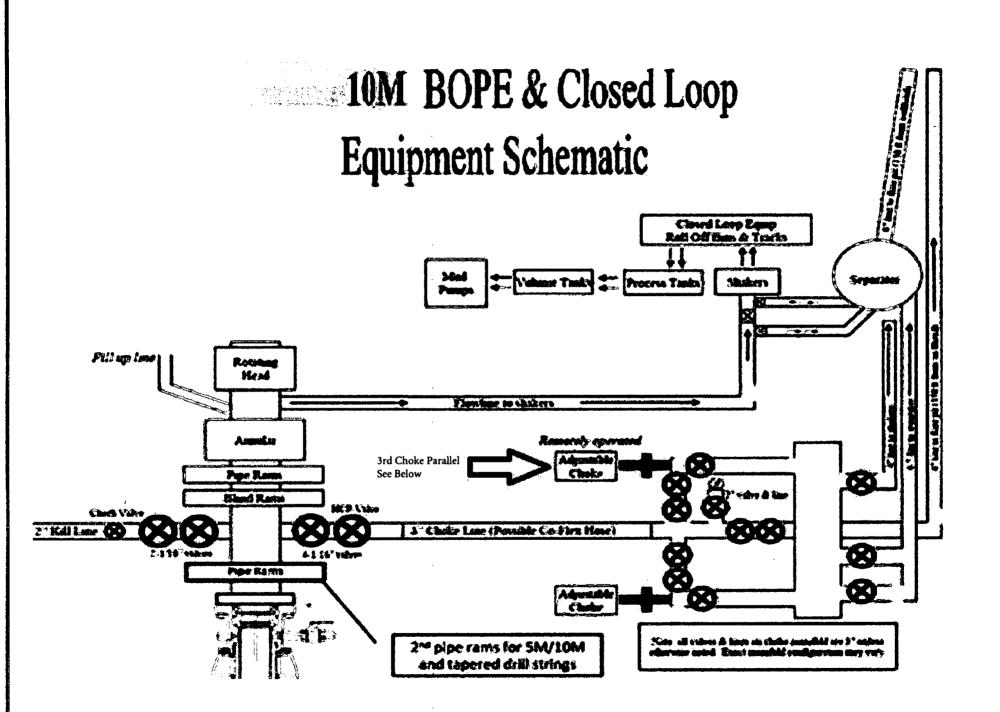
Well Name: COBBER 21-28 FED

Well Number: 9H

8.625_32.00_P110HSCY_TLW_20190221065123.PDF 5.5_x_20_P110_EC_VAMSG_20190212135119.pdf 7.625_29.70_P110_Flushmax_20190212135120.pdf Spudder_Rig_Info_20190212133910.pdf 13.375_48__H40_20190212135122.pdf MB_Verb_10M_20190212133909.pdf 5.5_x_17_P_110_BTC_20190221092949.pdf MB_Wellhd_10M_13.375_7.625_5.5_20190819112907.pdf MB_Wellhd_10M_13.375_8.625_5.5_20190819112908.PDF Cobber_21_28_WP6_GCP_Form_20191001092247.pdf Cobber_21_28_Fed_9H_Permit_Plan_2_20191001092304.pdf iance attachment:

Other Variance attachment:

Co_flex_20180823120220.pdf 10M_BOPE_CHK_DR_CLS_RKL_20190212133813.pdf Annular_Variance___Preventer_Summary_20190212133828.pdf





Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

Hydrogen Sulfide (H₂S) Contingency Plan

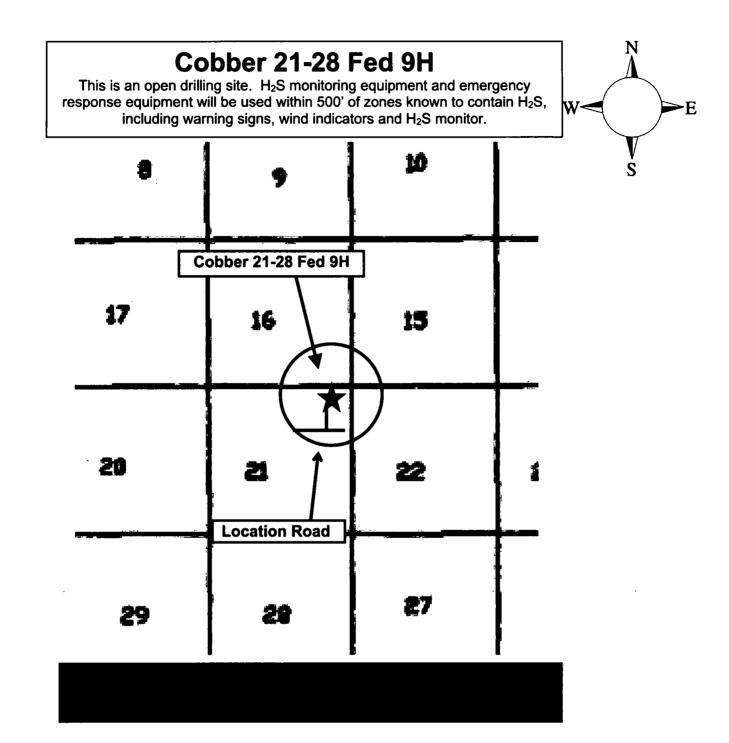
For

Cobber 21-28 Fed 9H

Sec-21 T-26S R-34E 383' FNL & 490' FEL LAT. = 32.035138' N (NAD83) LONG = 103.467872' W

Lea County NM

Devon Energy Corp. Cont Plan. Page 1



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

Devon Energy Corp. Cont Plan. Page 2

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

Devon Energy Corp. Cont Plan. Page 5

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

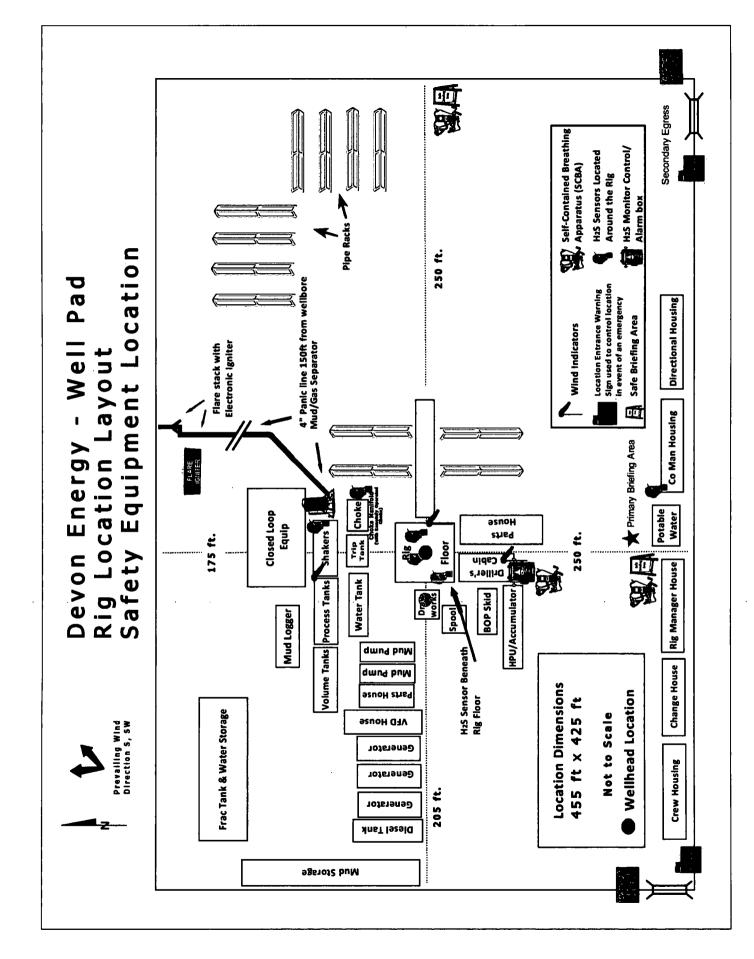
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Cont Plan. Page 6

Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
Agency	Call List	······
Lea	Hobbs	
County	Lea County Communication Authority	393-3982
<u>(575)</u>	State Police	392-558
	City Police	397-926
	Sheriff's Office	393-251
	Ambulance	91
	Fire Department	397-930
	LEPC (Local Emergency Planning Committee)	393-287
	NMOCD	393-616
	US Bureau of Land Management	393-361
Eddy	Carlsbad	
County	State Police	885-313
<u>(575)</u>	City Police	885-211
	Sheriff's Office	887-755
	Ambulance	91
	Fire Department	885-312
	LEPC (Local Emergency Planning Committee)	887-379
	US Bureau of Land Management	887-654
	NM Emergency Response Commission (Santa Fe)	(505) 476-960
	24 HR	(505) 827-912
	National Emergency Response Center	(800) 424-880
	National Pollution Control Center: Direct	(703) 872-600
	For Oil Spills	(800) 280-711
	Emergency Services	
	Wild Well Control	(281) 784-470
	Cudd Pressure Control (915) 699- 0139	(915) 563-335
	Halliburton	(575) 746-275
	B. J. Services	(575) 746-356
Give	Native Air – Emergency Helicopter – Hobbs (NM and TX)	(800)642-782
GPS	Flight For Life - Lubbock, TX	(806) 743-991
position:		(806) 747-892
	Med Flight Air Amb - Albuquerque, NM	(575) 842-443
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-122
	Poison Control (24/7)	(575) 272-311
	Oil & Gas Pipeline 24 Hour Service	(800) 364-436

Prepared in conjunction with Dave Small





Devon Energy Corp. Cont Plan. Page 8

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 21-T26S-R34E Cobber 21-28 Fed 9H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

19 September, 2019

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Database:		r5000.141_Pro			Local Co-	ordinate Refer	rence:	Well Cobber 21-	28 Fed 9H	
Company:		SC Permian N			TVD Refe			RKB @ 3328.20		
Project:		ounty (NAD83	New Mexico	East)	MD Refer			RKB @ 3328.20	ft	
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Well:		er 21-28 Fed 9	H		Survey C	alculation Meti	hod: I	Minimum Curvat	ure	
Wellbore:	Wellbe									
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Project	Lea Co	unty (NAD83	New Mexico E	ast)				· · ·		
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Geo Datum:		nerican Datum								
Map Zone:	New Me	xico Eastern Z	one							
Site	Sec 21	-T26S-R34E								
Site Position:		·····	Nort	hing:	372	,767.99 usft	Latitude:			32.021870
From:	Mag	D	East	-		,394.37 usft	Longitude:			-103.468410
Position Uncer	•			Radius:		13-3/16 "	Grid Converg	ence:		0.46
	0-11		_ · · ·							
Well Well Position	+N/-S	21-28 Fed 9H		lorthing:		377,596.27	usfi lati	tude:		32.03513
	+E/-W			asting:		809,522.23		igitude:		-103.467873
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rosidon oncor	canny	-	0.00 //					2110 Level.		
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Magnetics	Mc	del Name	Sam	ole Date	Declina	ation	Dip A		Field	Strength
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		IGRF2015	j	9/18/2019		6.65		59.88	47,6	606.15813673
Design	Permit	Plan 2					· · · ·			
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			(ft)	,	(ft)		ft)		(°)	
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			0/10/0010	•			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
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Plan Sections						··· ·· · · · ·	<u> </u>			
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9/19/2019 12:50:45PM

EDM r5000.141_Prod US Database: Local Co-ordinate Reference: Company: WCDSC Permian NM **TVD Reference:** Lea County (NAD83 New Mexico East) Project: MD Reference: Site: Sec 21-T26S-R34E North Reference: Well: Cobber 21-28 Fed 9H Survey Calculation Method: Weilbore: Wellbore #1 Permit Plan 2 Design:

Well Cobber 21-28 Fed 9H RKB @ 3328.20ft RKB @ 3328.20ft Grid Minimum Curvature

Planned Survey

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3,800.00 2.21 21.33 3,799.14 42.73 16.68 377,639.00 809,538.91 32.035256 -103. 3,900.00 2.21 21.33 3,899.07 46.32 18.08 377,642.59 809,540.31 32.035265 -103. 4,000.00 2.21 21.33 3,998.99 49.92 19.49 377,646.18 809,541.71 32.035265 -103. 4,100.00 2.21 21.33 4,098.92 53.51 20.89 377,649.78 809,543.12 32.035285 -103. 4,200.00 2.21 21.33 4,298.77 60.69 23.69 377,660.55 809,544.52 32.035305 -103. 4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,660.55 809,547.32 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035325 -103. 4,500.00 2.21 21.33 4,598.55 71.47 27.90 377,667.74 809,550.13 32.03534 -103. 4,600.00 2.21 <td></td> <td>3,600.00</td> <td>2.21</td> <td>21.33</td> <td>3,599.29</td> <td>35.55</td> <td>13.88</td> <td>377,631.81</td> <td>809,536.11</td> <td>32.035236</td> <td>-103.467827</td>		3,600.00	2.21	21.33	3,599.29	35.55	13.88	377,631.81	809,536.11	32.035236	-103.467827
3,900.00 2.21 21.33 3,899.07 46.32 18.08 377,642.59 809,540.31 32.035265 -103. 4,000.00 2.21 21.33 3,998.99 49.92 19.49 377,646.18 809,541.71 32.035265 -103. 4,100.00 2.21 21.33 4,098.92 53.51 20.89 377,649.78 809,543.12 32.035285 -103. 4,200.00 2.21 21.33 4,198.85 57.10 22.29 377,653.37 809,544.52 32.035295 -103. 4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,665.96 809,547.32 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,600.00 2.21 21.33 4,498.62 67.88 26.50 377,667.74 809,550.13 32.03534 -103. 4,600.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 <td></td> <td>3,700.00</td> <td>2.21</td> <td>21.33</td> <td>3,699.22</td> <td>39.14</td> <td>15.28</td> <td>377,635.41</td> <td>809,537.51</td> <td>32.035246</td> <td>-103.467822</td>		3,700.00	2.21	21.33	3,699.22	39.14	15.28	377,635.41	809,537.51	32.035246	-103.467822
4,000.00 2.21 21.33 3,998.99 49.92 19.49 377,646.18 809,541.71 32.035275 -103. 4,100.00 2.21 21.33 4,098.92 53.51 20.89 377,649.78 809,543.12 32.035285 -103. 4,200.00 2.21 21.33 4,198.85 57.10 22.29 377,653.37 809,544.52 32.035295 -103. 4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,656.96 809,547.32 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,667.74 809,550.13 32.03534 -103. 4,600.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035364 -103. 4,800.00 2.21 <td></td> <td>3,800.00</td> <td>2.21</td> <td>21.33</td> <td>3,799.14</td> <td>42.73</td> <td>16.68</td> <td>377,639.00</td> <td>809,538.91</td> <td>32.035256</td> <td>-103.467818</td>		3,800.00	2.21	21.33	3,799.14	42.73	16.68	377,639.00	809,538.91	32.035256	-103.467818
4,100.00 2.21 21.33 4,098.92 53.51 20.89 377,649.78 809,543.12 32.035285 -103. 4,200.00 2.21 21.33 4,198.85 57.10 22.29 377,653.37 809,544.52 32.035295 -103. 4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,656.96 809,545.92 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,661.55 809,548.73 32.035325 -103. 4,600.00 2.21 21.33 4,698.55 71.47 27.90 377,677.4 809,550.13 32.035344 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,698.47 75.06 29.30 377,671.52 809,552.93 32.035364 -103. 4,900.00 2.21 <td></td> <td>3,900.00</td> <td>2.21</td> <td>21.33</td> <td>3,899.07</td> <td>46.32</td> <td>18.08</td> <td>377,642.59</td> <td>809,540.31</td> <td>32.035265</td> <td>-103.467813</td>		3,900.00	2.21	21.33	3,899.07	46.32	18.08	377,642.59	809,540.31	32.035265	-103.467813
4,200.00 2.21 21.33 4,198.85 57.10 22.29 377,653.37 809,544.52 32.035295 -103. 4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,656.96 809,545.92 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,661.74 809,548.73 32.035325 -103. 4,600.00 2.21 21.33 4,598.55 71.47 27.90 377,667.74 809,550.13 32.035344 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,698.47 75.06 29.30 377,674.92 809,552.93 32.035364 -103. 4,800.00 2.21 21.33 4,988.32 82.25 32.11 377,678.52 809,554.34 32.035364 -103. 5,000.00 2.21 <td></td> <td></td> <td></td> <td>21.33</td> <td>3,998.99</td> <td>49.92</td> <td>19.49</td> <td>377,646.18</td> <td></td> <td></td> <td>-103.467808</td>				21.33	3,998.99	49.92	19.49	377,646.18			-103.467808
4,300.00 2.21 21.33 4,298.77 60.69 23.69 377,656.96 809,545.92 32.035305 -103. 4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,661.15 809,548.73 32.035325 -103. 4,600.00 2.21 21.33 4,598.55 71.47 27.90 377,667.74 809,550.13 32.035344 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,698.47 75.06 29.30 377,674.92 809,552.93 32.035344 -103. 4,800.00 2.21 21.33 4,698.32 82.25 32.11 377,678.52 809,554.34 32.035364 -103. 4,900.00 2.21 21.33 4,998.25 85.84 33.51 377,685.70 809,555.74 32.035374 -103. 5,000.00 2.21 <td></td> <td>4,100.00</td> <td>2.21</td> <td>21.33</td> <td>4,098.92</td> <td>53.51</td> <td>20.89</td> <td>377,649.78</td> <td></td> <td>32.035285</td> <td>-103.467804</td>		4,100.00	2.21	21.33	4,098.92	53.51	20.89	377,649.78		32.035285	-103.467804
4,400.00 2.21 21.33 4,398.70 64.29 25.10 377,660.55 809,547.32 32.035315 -103. 4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,661.15 809,547.32 32.035315 -103. 4,600.00 2.21 21.33 4,498.62 67.88 26.50 377,667.74 809,550.13 32.035334 -103. 4,600.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,552.93 32.035344 -103. 4,800.00 2.21 21.33 4,998.40 78.65 30.71 377,674.92 809,552.93 32.035364 -103. 4,900.00 2.21 21.33 4,998.25 85.84 33.51 377,68.52 809,555.74 32.035374 -103. 5,000.00 2.21 21.33 5,098.18 89.43 34.91 377,6			2.21	21.33	4,198.85	57.10	22.29	377,653.37	809,544.52	32.035295	-103.467799
4,500.00 2.21 21.33 4,498.62 67.88 26.50 377,664.15 809,548.73 32.035325 -103. 4,600.00 2.21 21.33 4,598.55 71.47 27.90 377,667.74 809,550.13 32.035334 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,798.40 78.65 30.71 377,674.92 809,552.93 32.035364 -103. 4,900.00 2.21 21.33 4,898.32 82.25 32.11 377,678.52 809,554.34 32.035364 -103. 5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,685.70 809,557.74 32.035384 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,		4,300.00						377,656.96	809,545.92	32.035305	-103.467795
4,600.00 2.21 21.33 4,598.55 71.47 27.90 377,667.74 809,550.13 32.035334 -103. 4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,798.40 78.65 30.71 377,674.92 809,552.93 32.035344 -103. 4,900.00 2.21 21.33 4,898.32 82.25 32.11 377,678.52 809,552.93 32.035364 -103. 5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,685.2 809,555.74 32.035374 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035393 -103.					4,398.70	64.29	25.10	377,660.55	809,547.32	32.035315	-103.467790
4,700.00 2.21 21.33 4,698.47 75.06 29.30 377,671.33 809,551.53 32.035344 -103. 4,800.00 2.21 21.33 4,798.40 78.65 30.71 377,674.92 809,552.93 32.035354 -103. 4,900.00 2.21 21.33 4,898.32 82.25 32.11 377,678.52 809,554.34 32.035364 -103. 5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,685.21 809,555.74 32.035364 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035384 -103.			2.21	21.33	4,498.62	67.88	26.50	377,664.15			-103.467785
4,800.00 2.21 21.33 4,798.40 78.65 30.71 377,674.92 809,552.93 32.035354 -103. 4,900.00 2.21 21.33 4,898.32 82.25 32.11 377,678.52 809,552.93 32.035364 -103. 5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,685.21 809,555.74 32.035374 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035393 -103.		4,600.00		21.33	4,598.55	71.47	27.90	377,667.74	809,550.13	32.035334	-103.467781
4,900.00 2.21 21.33 4,898.32 82.25 32.11 377,678.52 809,554.34 32.035364 -103. 5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,685.21 809,555.74 32.035374 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035393 -103.										32.035344	-103.467776
5,000.00 2.21 21.33 4,998.25 85.84 33.51 377,682.11 809,555.74 32.035374 -103. 5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035393 -103.		4,800.00			4,798.40			377,674.92	809,552.93	32.035354	-103.467771
5,100.00 2.21 21.33 5,098.18 89.43 34.91 377,685.70 809,557.14 32.035384 -103. 5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,685.29 809,558.54 32.035393 -103.										32.035364	-103.467767
5,200.00 2.21 21.33 5,198.10 93.02 36.32 377,689.29 809,558.54 32.035393 -103.		5,000.00	2.21	21.33	4,998.25	85.84	33.51	377,682.11	809,555.74	32.035374	-103.467762
								377,685.70	809,557.14		-103.467758
											-103.467753
<u>5,300.00</u> <u>2.21</u> <u>21.33</u> <u>5,298.03</u> <u>96.62</u> <u>37.72</u> <u>377,692.88</u> <u>809,559.95</u> <u>32.035403</u> -103.		5,300.00	2.21	21.33	5,298.03	96.62	37.72	377,692.88	809,559.95	32.035403	-103.467748

9/19/2019 12:50:45PM

Database: Company:	EDM r5000.141_Prod US WCDSC Permian NM	Local Co-ordinate Reference: TVD Reference:	Well Cobber 21-28 Fed 9H RKB @ 3328.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3328.20ft
Site:	Sec 21-T26S-R34E	North Reference:	Grid
Well:	Cobber 21-28 Fed 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Welibore #1		
Design:	Permit Plan 2		

Planned Survey

(m) (r) (m) (m) <th(m)< th=""> <th(m)< th=""> <th(m)< th=""></th(m)<></th(m)<></th(m)<>		Measured		a _1 a h	Vertical Depth			Map Northing	Map		
5,600.00 2.21 21.33 5,647.88 103.80 40.52 377,700.07 809,562.15 32.035423 -103.467734 5,000.00 2.21 21.33 5,567.73 110.99 43.33 377,770.56 809,565.56 32.035443 -103.467728 5,000.00 2.21 21.33 5,767.55 114.56 44.73 377,771.615 809,566.76 32.035452 -103.467716 5,000.00 2.21 21.33 5,697.73 112.176 47.54 377,714.03 809,571.57 32.03542 -103.467716 6,000.00 2.21 21.33 5,697.73 12.03551 103.467707 20.05,757.37 32.035512 -103.467707 6,000.00 2.21 21.33 6,697.61 13.32 55.55 377,735.99 809,576.76 32.035512 -103.467768 6,000.00 2.21 21.33 6,696.76 157.59 55.95 377,746.77 809,566.78 32.035511 -103.467676 6,000.00 2.21 21.33 6,796.76 157.56		Depth (ft)	Inclination (°)	Azimuth (°)	•	+N/-S (ft)	+E/-W (ft)	•	Easting (usft)	Latitude	Longitude
5,600.00 2.21 21.33 5,647.88 103.80 40.52 377,700.07 809,562.15 32.035423 -103.467734 5,000.00 2.21 21.33 5,567.73 110.99 43.33 377,770.56 809,565.56 32.035443 -103.467728 5,000.00 2.21 21.33 5,767.55 114.56 44.73 377,771.615 809,566.76 32.035452 -103.467716 5,000.00 2.21 21.33 5,697.73 112.176 47.54 377,714.03 809,571.57 32.03542 -103.467716 6,000.00 2.21 21.33 5,697.73 12.03551 103.467707 20.05,757.37 32.035512 -103.467707 6,000.00 2.21 21.33 6,697.61 13.32 55.55 377,735.99 809,576.76 32.035512 -103.467768 6,000.00 2.21 21.33 6,696.76 157.59 55.95 377,746.77 809,566.78 32.035511 -103.467676 6,000.00 2.21 21.33 6,796.76 157.56	ŀ	5,400.00	2.21	21.33	5,397.95	100.21	39.12	377,696.48	809.561.35	32.035413	-103.467744
6,600.00 221 213 5,697.80 107.39 41.93 377,702.65 909,646.15 32.03543 -103.467730 5,600.00 221 21.33 5,697.65 114.69 44.33 377,710.55 809,566.85 32.035453 -103.467724 6,000.00 221 21.33 5,697.56 114.74 46.13 377,712.65 809,566.15 32.035422 -103.467714 6,000.00 221 21.33 6,697.34 125.36 46.94 377,728.56 809,57.57 32.035422 -103.467710 6,000.00 221 21.33 6,977.67 12.035521 -103.467703 6,000.00 221 21.33 6,970.66 143.32 55.96 377,773.59 809,577.68 32.03551 -103.467683 6,000.00 221 21.33 6,976.69 15.32 577,753.58 809,577.68 32.03551 -103.46768 6,000.00 221 21.33 6,986.89 16.20.85519 -103.46767 7.000.00 221 21.33 6,986.89					-			•	•		-103.467739
5,700.00 2.21 21.33 5,607.73 110.99 43.33 377,772.58 609,665.66 32.03543 -103.46772 5,600.00 2.21 21.33 5,775.75 114.56 44.73 377,716.58 609,566.36 32.035462 -103.467716 6,000.00 2.21 21.33 5,697.58 118.17 44.51 377,714.68 609,571.57 32.035462 -103.467716 6,000.00 2.21 21.33 5,697.53 128.56 50.34 377,728.26 609,571.57 32.035422 -103.467707 6,000.00 2.21 21.33 5,697.06 143.32 55.95 377,738.96 609,575.37 32.035512 -103.467668 6,000.00 2.21 21.33 5,696.76 143.32 55.95 377,746.77 609,577.81 32.035511 -103.467678 6,000.00 2.21 21.33 5,696.76 175.66 65.75 377,746.77 609,683.79 32.035561 -103.467677 7,000.00 2.21 21.33 7,696.69 112				21.33	5,597.80	107.39	41.93			32.035433	-103.467734
5.000.00 22.1 21.33 5.887.58 118.17 44.13 377.714.44 600.568.76 32.035472 -103.467714 6.000.00 22.1 21.33 5.697.751 121.76 47.54 377.716.22 606.572.57 32.035472 -103.467714 6.200.00 22.1 21.33 6.097.43 125.56 64.94 377.725.22 606.572.57 32.035492 -103.467702 6.400.00 2.21 21.33 6.297.28 132.54 51.74 377.728.81 606.575.37 32.035512 -103.467768 6.400.00 2.21 21.33 6.696.76 143.32 55.69 377.735.99 806.576.18 32.035531 -103.467768 6.500.00 2.21 21.33 6.696.99 146.91 57.35 377.748.17 809.596.83 32.035541 -103.467764 6.600.00 2.21 21.33 6.696.76 157.69 77.755 809.586.32 32.035571 -103.467776 7.000.00 2.21 21.33 7.696.46 157.69 67.		5,700.00	2.21	21.33	5,697.73	110.99	43.33	377,707.25	809,565.56	32.035443	-103.467730
5.000.00 221 21.33 5.887.58 118.17 44.13 377.714.44 6005.68.23 32.035442 -103.467714 6.000.00 221 21.33 6.097.43 125.36 46.94 377.716.22 6005.672.57 32.035442 -103.467714 6.000.00 221 21.33 6.097.43 125.36 61.974 377.752.52 6005.572.57 32.035542 -103.467702 6.400.00 221 21.33 6.297.28 132.54 61.74 377.728.81 6005.57.57 32.035562 -103.467698 6.600.00 221 21.33 6.497.13 139.72 54.55 377.735.59 6005.57.18 32.035561 -103.467698 6.600.00 221 21.33 6.696.591 163.05 58.75 32.035561 -103.467764 7.000.00 221 21.33 6.696.591 57.57 57.58 32.035561 -103.467764 7.000.00 221 21.33 7.696.56 57.77.795.57 800.585.93 32.035561 -103.467764				21.33	5,797.65	114.58	44.73	377,710.85	809,566.96	32.035453	-103.467725
6,00000 2.21 21.33 6,077.43 125.36 48.94 377,721.62 2005/72.57 22.03562 -103.467710 6,300.00 2.21 21.33 6,297.26 132.54 51.74 377,725.81 2005/72.57 32.035502 -103.467708 6,600.00 2.21 21.33 6,297.26 132.54 51.74 377,724.94 2005/75.37 32.035521 -103.467698 6,600.00 2.21 21.33 6,697.06 133.72 54.55 377,735.99 2005/76.78 32.035511 -103.467698 6,600.00 2.21 21.33 6,696.99 146.91 57.35 377,743.18 200.5561 -103.467678 6,500.00 2.21 21.33 6,696.99 146.91 57.35 377,743.18 20.035511 -103.467678 7,000.00 2.21 21.33 7,096.96 16.128 62.96 377,751.55 800.583.19 32.035561 -103.467674 7,000.00 2.21 21.33 7,096.59 150.46 67.17 377,7754.37 </td <td></td> <td></td> <td>2.21</td> <td>21.33</td> <td>5,897.58</td> <td>118.17</td> <td>46.13</td> <td>377,714.44</td> <td>809,568.36</td> <td>32.035462</td> <td>-103.467721</td>			2.21	21.33	5,897.58	118.17	46.13	377,714.44	809,568.36	32.035462	-103.467721
6,200.00 2.21 21.33 6,197.26 128.85 50.34 377.725.22 80.957.397 32.035692 -103.467702 6,400.00 2.21 21.33 6,397.21 136.13 53.14 377.728.40 800.9578.97 32.035512 -103.467893 6,600.00 2.21 21.33 6,697.06 143.32 55.95 377.739.58 800.9776.718 32.03551 -103.467894 6,600.00 2.21 21.33 6,696.96 146.19 53.75 377.743.95 800.9576.58 32.035551 -103.467844 6,600.00 2.21 21.33 6,696.76 157.69 61.56 377.753.58 609.952.39 32.035551 -103.46764 7,000.00 2.21 21.33 7,986.41 164.97 61.56 377.757.55 609.958.19 32.035561 -103.46764 7,000.00 2.21 21.33 7,986.41 164.37 377.764.73 609.958.19 32.035560 -103.46764 7,000.00 2.21 21.33 7,986.41 167.26		6,000.00	2.21	21.33	5,997.51	121.76	47.54	377,718.03	809,569.76	32.035472	-103.467716
6,200,00 2.21 21.33 6,197.26 128.85 50.34 377,725.22 80.872.67 32.035492 -103.467702 6,400,00 2.21 21.33 6,397.21 136.13 53.14 377,728.04 800.578.97 32.035512 -103.467893 6,600,00 2.21 21.33 6,697.06 114.322 55.95 377,739.58 800.576.78 32.03551 -103.467893 6,600,00 2.21 21.33 6,695.96 164.19 573.57 377.743.78 800.575.78 32.035551 -103.467848 6,700,00 2.21 21.33 6,595.66 157.65 377,746.77 800.582.38 32.035551 -103.467647 7,000,00 2.21 21.33 7,696.58 161.26 377,753.55 809.583.79 32.035501 -103.467645 7,000,00 2.21 21.33 7,386.46 172.06 67.17 377,761.78 809.583.79 32.035560 -103.467645 7,000,00 2.21 21.33 7,386.40 172.06 67.17	Ì			21.33	6,097.43	125.36	48.94	377,721.62		32.035482	-103.467711
6,400,00 2.21 21.33 6,397/21 136.13 55.14 377,732.40 800.576.73 32.035512 -103.467683 6,600,00 2.21 21.33 6,697.06 143.32 55.95 377,739.58 800.576.78 13.20.5551 -103.467683 6,600,00 2.21 21.33 6,696.99 166.11 57.55 377,731.96 809.579.58 32.03551 -103.467697 6,600,00 2.21 21.33 6,696.76 157.69 61.56 809.583.79 82.03551 -103.467674 7,000,00 2.21 21.33 7,096.69 161.28 62.96 377,757.55 809.585.19 32.03550 -103.467647 7,000,00 2.21 21.33 7,096.16 667.17 377,764.73 809.585.19 32.035500 -103.467647 7,300,00 2.21 21.33 7,396.40 172.06 67.17 377,764.73 809.582.09 32.035600 -103.467647 7,400,00 2.21 21.33 7,396.30 173.777.171.92 809.598.61				21.33	6,197.36	128.95	50.34	377,725.22		32.035492	-103.467707
6,400,00 2.21 21.33 6,397/21 136.13 55.14 377,732.40 800.576.73 32.035512 -103.467683 6,600,00 2.21 21.33 6,697.06 143.32 55.95 377,739.58 800.576.78 13.20.5551 -103.467683 6,600,00 2.21 21.33 6,696.99 166.11 57.55 377,731.96 809.579.58 32.03551 -103.467697 6,600,00 2.21 21.33 6,696.76 157.69 61.56 809.583.79 82.03551 -103.467674 7,000,00 2.21 21.33 7,096.69 161.28 62.96 377,757.55 809.585.19 32.03550 -103.467647 7,000,00 2.21 21.33 7,096.16 667.17 377,764.73 809.585.19 32.035500 -103.467647 7,300,00 2.21 21.33 7,396.40 172.06 67.17 377,764.73 809.582.09 32.035600 -103.467647 7,400,00 2.21 21.33 7,396.30 173.777.171.92 809.598.61		6,300.00	2.21	21.33	6,297.28	132.54	51.74	377,728.81	809,573.97	32.035502	-103.467702
6,600.00 2.21 21.33 6,690.00 2.21 21.33 6,690.90 143.91 55.95 377,743.18 809,579.18 32.03551 -103.46764 6,600.00 2.21 21.33 6,696.90 150.50 58.75 377,745.18 809,582.38 32.03551 -103.46767 7,000.00 2.21 21.33 6,596.76 157.69 61.56 377,755.38 809,582.18 32.03551 -103.46767 7,000.00 2.21 21.33 7,796.69 161.28 62.96 377,757.55 809,585.19 32.03550 -103.46767 7,000.00 2.21 21.33 7,796.41 168.46 65.77 377,76.32 809,585.99 32.03560 -103.46765 7,400.00 2.21 21.33 7,496.43 177.74 1809,595.90.00 32.035610 -103.46764 7,600.00 2.21 21.33 7,796.41 168.43 7.77.75 1809,592.00 32.03560 -103.46764 7,600.00 2.21 21.33 7,796.17 166.43		6,400.00	2.21	21.33	6,397.21	136.13	53.14	377,732.40	809,575.37	32.035512	-103.467698
6 700.00 2.21 21.33 6.696.99 146.91 57.35 377.743.18 809.592.68 32.03551 -103.467674 6,900.00 2.21 21.33 6.896.44 156.09 50.15 377.745.77 809.580.38 32.03551 -103.467674 7,000.00 2.21 21.33 6.996.76 157.69 577.755 809.582.38 32.03551 -103.467670 7,000.00 2.21 21.33 7.096.69 157.69 377.757.55 809.585.99 32.03550 -103.467667 7,200.00 2.21 21.33 7.096.44 164.66 65.77 377.74.18 809.585.99 32.03560 -103.467647 7,400.00 2.21 21.33 7.496.39 175.65 66.77 377.761.14 809.582.40 32.035610 -103.467637 7,600.00 2.21 21.33 7.796.755 809.596.41 32.035640 -103.467633 7,800.00 2.21 21.33 7.796.17 186.43 72.75 377.796.89 809.596.41 32.03569 </td <td></td> <td>6,500.00</td> <td>2.21</td> <td>21.33</td> <td>6,497.13</td> <td>139.72</td> <td>54.55</td> <td>377,735.99</td> <td>809,576.78</td> <td>32.035521</td> <td>-103.467693</td>		6,500.00	2.21	21.33	6,497.13	139.72	54.55	377,735.99	809,576.78	32.035521	-103.467693
6.800.00 2.21 21.33 6.786.91 150.50 58.75 377.746.77 800.580.88 32.035561 -103.467675 6.900.00 2.21 21.33 6.986.76 157.69 610.56 377.753.95 800.582.38 32.035561 -103.467767 7.100.00 2.21 21.33 7.986.89 161.28 62.96 377.757.55 800.586.99 32.035571 -103.467766 7.200.00 2.21 21.33 7.986.46 165.77 377.764.73 809.586.99 32.035610 -103.467661 7.400.00 2.21 21.33 7.986.40 157.266 66.57 377.771.64.23 809.590.40 32.035610 -103.467647 7.600.00 2.21 21.33 7.968.24 162.43 77.78 377.775.51 809.590.40 32.035640 -103.467642 7.600.00 2.21 21.33 7.968.09 190.02 74.18 377.776.0 809.595.01 32.035649 -103.467632 7.800.00 2.21 21.33 7.968.09 190.02		6,600.00	2.21	21.33	6,597.06	143.32	55.95	377,739.59	809,578.18	32.035531	-103.467688
6,900,00 2,21 21,33 6,866,84 154,09 60.16 377,753.95 900,583.76 32.035661 -103.467674 7,000,00 2,21 21,33 6,996,76 157,69 61,66 377,757,55 900,585,19 32.035581 -103.467665 7,200,00 2,21 21,33 7,986,46 164,47 64,38 377,751,55 800,586,59 32.035580 -103.467665 7,400,00 2,21 21,33 7,986,46 172,06 67,17 377,766,32 809,589,40 32.035610 -103.467647 7,600,00 2,21 21,33 7,968,46 172,06 67,17 377,776,132 800,592,30 32.035640 -103.467647 7,600,00 2,21 21,33 7,968,32 179,24 66,97 377,775,10 800,595,61 32.035649 -103.467647 7,600,00 2,21 21,33 7,968,40 132.035649 -103.467647 8,000,00 2,21 21,33 7,968,40 197.794,67 809,596,41 32.035649 -103.467628	ł	6,700.00	2.21	21.33	6,696.99	146.91	57.35	377,743.18	809,579.58	32.035541	-103.467684
7,000.00 2.21 21.33 6,986,76 157,69 61.56 377,753.55 809,583.79 32.035571 -103.467665 7,000.00 2.21 21.33 7,196.69 161.28 62.96 377,751.55 809,585.19 32.035580 -103.467665 7,000.00 2.21 21.33 7,196.41 184.47 64.36 377,761.14 809,585.99 32.035580 -103.447656 7,000.00 2.21 21.33 7,396.46 182.46 65.77 377,766.32 809,598.40 32.035610 -103.447626 7,500.00 2.21 21.33 7,496.39 175.65 66.57 377,771.66.32 809,596.00 32.035640 -103.447624 7,000.00 2.21 21.33 7,696.02 192.4 163.3 77.77.768.29 809,595.01 32.035649 -103.447624 8,000.00 2.21 21.33 7,986.02 193.461 75.58 377,780.478 809,596.11 32.035669 -103.447624 8,000.00 2.21 21.33 6.995.77		6,800.00	2.21	21.33	6,796.91	150.50	58.75	377,746.77	809,580.98	32.035551	-103.467679
7,100.00 2.21 21.33 7,086.69 161.28 62.96 377,775.55 809,586.19 32.035580 -103.467664 7,200.00 2.21 21.33 7,286.54 168.46 65.77 377,761.14 809,586.19 32.035580 -103.467664 7,400.00 2.21 21.33 7,286.54 172.06 67.17 377,761.32 809,589.40 32.035600 -103.467647 7,600.00 2.21 21.33 7,596.32 175.65 66.57 377,775.19 809,592.60 32.035640 -103.467647 7,600.00 2.21 21.33 7,596.32 179.24 66.97 377,775.19 809,595.60 32.035640 -103.467633 7,600.00 2.21 21.33 7,996.02 193.61 75.58 377,782.69 809,595.61 32.035659 -103.467624 8,000.00 2.21 21.33 6,095.44 197.20 76.99 377,782.69 809,592.61 32.035669 -103.467644 8,000.00 2.21 21.33 6,195.72 2		6,900.00	2.21	21.33	6,896.84	154.09	60.16	377,750.36	809,582.38	32.035561	-103.467674
7,200.00 2.21 21.33 7,196.61 164.87 64.36 377,761.13 809,587.99 32.035500 -103.467656 7,300.00 2.21 21.33 7,286.54 168.46 65.77 377,761.13 809,587.99 32.035600 -103.467651 7,500.00 2.21 21.33 7,396.46 172.06 67.17 377,776.13 809,589.40 32.035600 -103.447641 7,600.00 2.21 21.33 7,396.44 192.24 80.97 377,775.15 809,599.60 32.035630 -103.447644 7,700.00 2.21 21.33 7,996.02 193.26 17.786.12 809,595.01 32.035659 -103.447644 7,600.00 2.21 21.33 7,996.02 193.61 75.58 377,795.16 809,597.81 32.035659 -103.447644 8,000.00 2.21 21.33 8,095.91 32.03569 -103.447649 8,000.00 2.21 21.33 8,295.80 20.03579 -103.447641 8,000.00 2.21 21.33 </td <td></td> <td>7,000.00</td> <td>2.21</td> <td>21.33</td> <td>6,996.76</td> <td>157.69</td> <td>61.56</td> <td>377,753.95</td> <td>809,583.79</td> <td>32.035571</td> <td>-103.467670</td>		7,000.00	2.21	21.33	6,996.76	157.69	61.56	377,753.95	809,583.79	32.035571	-103.467670
7,300.00 2.21 21.33 7,296.54 188.46 65.77 377,768.32 809,587.99 32.035600 -103.467651 7,400.00 2.21 21.33 7,396.46 172.06 67.17 377,768.32 809,580.40 32.035600 -103.467651 7,600.00 2.21 21.33 7,496.39 175.65 66.57 377,775.18 809,592.40 32.035600 -103.467647 7,600.00 2.21 21.33 7,696.41 182.83 7,771.10 809,595.61 32.035669 -103.467624 7,600.00 2.21 21.33 7,966.10 180.02 74.18 377,780.89 809,596.41 32.035669 -103.467624 8,000.00 2.21 21.33 7,966.02 193.61 75.58 377,780.89 809,597.81 32.035669 -103.467644 8,000.00 2.21 21.33 8,095.54 197.20 76.99 377,787.66 809,503.42 32.035669 -103.467640 8,000.00 2.21 21.33 8,095.57 207.98 81		7,100.00	2.21	21.33	7,096.69	161.28	62.96	377,757.55	809,585.19	32.035580	-103.467665
7,400.00 2.21 21.33 7,396.46 172.06 67.17 377,763.22 809,590.40 32.035610 -103.467647 7,500.00 2.21 21.33 7,496.39 175.65 68.57 377,775.12 809,590.40 32.035620 -103.467647 7,600.00 2.21 21.33 7,696.24 182.83 71.38 377,775.11 809,592.40 32.035640 -103.467633 7,600.00 2.21 21.33 7,696.09 190.02 74.18 377,786.29 809,596.41 32.035669 -103.467632 8,000.00 2.21 21.33 7,996.02 193.61 75.58 377,783.47 809,599.41 32.035669 -103.467624 8,000.00 2.21 21.33 8,095.54 200.79 76.99 377,783.47 809,599.21 32.035669 -103.467614 8,000.00 2.21 21.33 8,095.57 20.79 78.99 377,780.47 809,500.42 32.035769 -103.467640 8,000.00 2.21 21.33 8,095.57 21		7,200.00	2.21	21.33	7,196.61	164.87	64.36	377,761.14	809,586.59	32.035590	-103.467661
7,500.00 2.21 21.33 7,696.39 175.65 66.57 377,775.51 809,592.00 32.035630 -103.467647 7,500.00 2.21 21.33 7,596.32 179.24 69.97 377,775.51 809,592.00 32.035640 -103.467647 7,600.00 2.21 21.33 7,796.17 166.43 72.78 377,792.09 809,595.01 32.035649 -103.467633 7,900.00 2.21 21.33 7,996.02 193.61 75.58 377,793.47 809,596.11 32.035649 -103.467642 8,000.00 2.21 21.33 6,995.94 197.20 76.99 377,793.47 809,590.21 32.035679 -103.467644 8,000.00 2.21 21.33 6,995.94 197.20 76.99 377,797.06 809,600.62 32.035679 -103.467640 8,000.00 2.21 21.33 6,995.57 207.98 81.19 377,804.66 809.602.02 32.035718 -103.467640 8,000.00 2.21 21.33 6,995.57 2		7,300.00	2.21	21.33	7,296.54	168.46	65.77	377,764.73	809,587.99	32.035600	-103.467656
7,600.00 2.21 21.33 7,596.32 179.24 60.97 377,775.51 809,592.20 32.035640 -103.467642 7,700.00 2.21 21.33 7,596.24 182.83 71.38 377,779.10 809,595.01 32.035640 -103.467637 7,800.00 2.21 21.33 7,996.09 190.02 74.18 377,762.69 809,596.41 32.035649 -103.467628 8,000.00 2.21 21.33 7,996.09 190.02 74.18 377,762.69 809,596.41 32.035669 -103.467628 8,000.00 2.21 21.33 8,095.94 197.20 76.99 377,770.66 809,600.62 32.035669 -103.467619 8,200.00 2.21 21.33 8,395.72 207.98 81.19 377,807.66 809,600.42 32.035718 -103.467660 8,600.00 2.21 21.33 8,495.57 215.16 84.00 377,807.84 809,604.82 32.035718 -103.467660 8,600.00 2.21 21.33 8,495.57 2		7,400.00	2.21	21.33	7,396.46	172.06	67.17	377,768.32	809,589.40	32.035610	-103.467651
7,700.00 2.21 21.33 7,696.24 162.83 71.38 377,797.10 609.593.60 32.035640 -103.467637 7,800.00 2.21 21.33 7,966.02 190.02 74.16 377,782.69 809.595.61 32.035649 -103.467632 8,000.00 2.21 21.33 7,966.02 193.61 75.58 377,789.88 809.597.81 32.035649 -103.467628 8,100.00 2.21 21.33 8,095.94 197.20 76.99 377,797.47 60.9599.21 32.035649 -103.467642 8,000.00 2.21 21.33 8,195.87 200.79 76.39 377,797.47 60.969.60.62 32.035649 -103.467640 8,400.00 2.21 21.33 8,295.80 204.39 79.79 377,800.66 809.606.62 32.035748 -103.467640 8,600.00 2.21 21.33 8,495.65 211.57 82.60 377,814.3 809.60.23 32.035748 -103.467640 8,600.00 2.21 21.33 8,695.57 2	1	7,500.00	2.21	21.33	7,496.39	175.65	68.57	377,771.92	809,590.80	32.035620	-103.467647
7,800.00 2.21 21.33 7,796.17 166.43 72.78 377,782.69 809,595.01 32.035649 -103.467633 7,900.00 2.21 21.33 7,996.02 193.61 75.56 377,798.29 809,596.41 32.035669 -103.467624 8,000.00 2.21 21.33 7,996.02 193.61 75.56 377,798.48 809,599.21 32.035669 -103.467644 8,000.00 2.21 21.33 8,095.84 197.20 76.99 377,793.47 809,509.21 32.035669 -103.467610 8,000.00 2.21 21.33 8,095.80 204.39 79.79 377,800.66 809,600.62 32.035769 -103.467610 8,00.00 2.21 21.33 8,955.57 215.16 84.00 377,811.43 809,606.23 32.035718 -103.467508 8,00.00 2.21 21.33 8,955.57 215.16 84.00 377,811.43 809,606.23 32.035748 -103.467569 8,00.00 2.21 21.33 8,955.57 215.		7,600.00	2.21	21.33	7,596.32	179.24	69.97	377,775.51	809,592.20	32.035630	-103.467642
7,900.00 2.21 21.33 7,986.09 190.02 74.18 377,786.29 809,596.41 32.035659 -103.467622 8,000.00 2.21 21.33 7,996.02 193.61 75.56 377,789.88 809,597.81 32.035669 -103.467619 8,000.00 2.21 21.33 8,095.84 197.20 76.99 377,789.06 809,502.62 32.035699 -103.467619 8,200.00 2.21 21.33 8,195.67 200.79 78.39 377,780.06 809,600.62 32.035708 -103.467605 8,400.00 2.21 21.33 8,495.65 211.57 82.60 377,807.84 809,604.82 32.035718 -103.467560 8,600.00 2.21 21.33 8,495.55 211.57 82.60 377,811.43 809,606.23 32.035748 -103.467589 8,600.00 2.21 21.33 8,495.52 215.16 84.00 377,816.62 809,609.03 32.035748 -103.467589 8,600.00 2.21 21.33 8,495.52 2		7,700.00	2.21	21.33	7,696.24	182.83	71.38	377,779.10	809,593.60	32.035640	-103.467637
8,000.00 2.21 21.33 7,996.02 193.61 75.58 377,799.88 809.597.81 32.035669 -103.467624 8,000.00 2.21 21.33 8.095.94 197.20 76.99 377,797.6 809.599.21 32.035679 -103.467619 8,200.00 2.21 21.33 8.195.7 207.98 81.19 377,790.6 809.600.62 32.035699 -103.467610 8,400.00 2.21 21.33 8.495.55 217.57 80.60.42 32.035708 -103.467605 8,500.00 2.21 21.33 8.495.57 215.16 84.00 377,814.8 809.60.42 32.035728 -103.467596 8,700.00 2.21 21.33 8.695.57 215.16 84.00 377,814.62 809.60.63 32.035748 -103.467598 8,800.00 2.21 21.33 8.995.27 225.54 88.21 377,814.62 809.610.43 32.035778 -103.467578 8,900.00 2.21 21.33 8.995.27 229.53 89.611.347 32.03578		7,800.00		21.33	7,796.17	186.43	72.78	377,782.69	809,595.01	32.035649	-103.467633
8,000.00 2.21 21.33 7,996.02 193.61 75.58 377,789.88 809,597.81 32.035669 -103.467624 8,000.00 2.21 21.33 6.095.94 197.20 76.99 377,790.6 805.606.05 32.035689 -103.467619 8,200.00 2.21 21.33 6.295.80 204.39 79.79 377,800.66 809,600.42 32.035699 -103.467610 8,400.00 2.21 21.33 6.395.72 207.98 81.19 377,804.25 809,604.82 32.035708 -103.467605 8,500.00 2.21 21.33 6.595.57 215.16 84.00 377,814.809,604.82 32.035738 -103.467598 8,600.00 2.21 21.33 6.595.57 215.16 84.00 377,816.2 809,600.33 32.035738 -103.467598 8,000.00 2.21 21.33 6.995.27 22.5 86.80 377,816.2 809,610.43 32.035767 -103.467578 8,000.00 2.21 21.33 9.995.20 231.3 9.1		7,900.00	2.21	21.33	7,896.09	190.02	74.18	377,786.29	809,596.41	32.035659	-103.467628
8,200.00 2.21 21.33 8,195.87 200.79 78.39 377.797.06 809,600.62 32.035689 -103.467614 8,300.00 2.21 21.33 8,295.80 204.39 79.79 377,800.66 809,600.42 32.035699 -103.467605 8,600.00 2.21 21.33 8,395.72 207.98 81.19 377,807.84 809,604.82 32.035708 -103.467605 8,600.00 2.21 21.33 8,695.50 215.16 84.00 377,815.62 809,604.82 32.035728 -103.467561 8,600.00 2.21 21.33 8,695.50 218.76 85.40 377,815.62 809,609.03 32.035748 -103.467567 8,000.00 2.21 21.33 8,995.27 229.53 89.61 377,825.20 809,611.84 32.035747 -103.467573 9,000.00 2.21 21.33 9,995.20 233.13 91.01 377,825.39 809,613.24 32.035747 -103.467573 9,000.00 2.21 21.33 9,995.20 2		8,000.00	2.21	21.33	7,996.02	193.61	75.58	377,789.88	809,597.81	32.035669	-103.467624
8,300.00 2.21 21.33 8,295.80 204.39 79.79 377,800.66 809,602.02 32.035699 -103.467610 8,400.00 2.21 21.33 8,395.72 207.98 81.19 377,804.45 809,603.42 32.035708 -103.467601 8,500.00 2.21 21.33 8,495.65 211.57 82.60 377,807.84 809,604.82 32.035718 -103.467508 8,600.00 2.21 21.33 8,695.50 218.76 85.40 377,811.43 809,607.63 32.035748 -103.467567 8,800.00 2.21 21.33 8,695.57 225.54 88.21 377,818.62 809,609.03 32.035748 -103.467567 8,900.00 2.21 21.33 8,995.27 229.53 89.61 377,822.91 809,610.43 32.035767 -103.467567 9,000.00 2.21 21.33 9,095.20 23.31 91.01 377,822.93 809,613.24 32.035767 -103.467564 9,000.00 2.21 21.33 9,094.82 24	ł	8,100.00	2.21	21.33	8,095.94	197.20	76.99	377,793.47	809,599.21	32.035679	-103.467619
8,400.00 2.21 21.33 8,395.72 207.98 81.19 377,804.25 809,603.42 32.035708 -103.467605 8,500.00 2.21 21.33 8,495.65 211.57 82.60 377,807.84 809,604.82 32.035718 -103.467601 8,600.00 2.21 21.33 8,695.57 215.16 84.00 377,811.43 809,606.23 32.035738 -103.467596 8,700.00 2.21 21.33 8,695.57 215.76 85.40 377,818.62 809,607.63 32.035738 -103.467587 8,800.00 2.21 21.33 8,995.27 229.53 89.61 377,825.80 809,611.84 32.035767 -103.467587 9,000.00 2.21 21.33 9,095.27 229.53 89.61 377,832.99 809,613.24 32.035777 -103.467568 9,000.00 2.21 21.33 9,095.27 292.41 377,832.99 809,613.24 32.035777 -103.467568 9,300.00 2.21 21.33 9,949.82 247.50	.	8,200.00	2.21	21.33	8,195.87	200.79	78.39	377,797.06	809,600.62	32.035689	-103.467614
8,500.00 2.21 21.33 8,495.65 211.57 82.60 377,807.84 809,604.82 32.035718 -103.467601 8,600.00 2.21 21.33 8,695.57 215.16 84.00 377,817.82 809,602.23 32.035728 -103.467596 8,700.00 2.21 21.33 8,695.50 218.76 85.40 377,815.02 809,607.63 32.035738 -103.467597 8,900.00 2.21 21.33 8,695.35 225.54 86.80 377,822.21 809,610.43 32.035778 -103.467582 9,000.00 2.21 21.33 8,995.27 229.53 89.61 377,825.80 809,611.84 32.035767 -103.4675782 9,000.00 2.21 21.33 9,095.20 233.13 91.01 377,835.80 809,616.64 32.035787 -103.467568 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,835.88 809,616.64 32.035877 -103.467569 9,400.00 2.21 21.33 9,494.90		8,300.00	2.21	21.33	8,295.80	204.39	79.79	377,800.66	809,602.02	32.035699	-103.467610
8,600.00 2.21 21.33 8,595.57 215.16 84.00 377,811.43 809,606.23 32.035728 -103.467596 8,700.00 2.21 21.33 8,695.50 218.76 85.40 377,815.02 809,607.63 32.035738 -103.467596 8,800.00 2.21 21.33 8,795.42 222.35 86.80 377,818.62 809,609.03 32.035788 -103.467587 9,000.00 2.21 21.33 8,995.27 229.53 89.61 377,829.39 809,611.84 32.035778 -103.467587 9,000.00 2.21 21.33 9,095.20 233.13 91.01 377,829.39 809,614.64 32.035787 -103.467573 9,200.00 2.21 21.33 9,295.05 240.31 93.81 377,852.86 809,616.64 32.035797 -103.467549 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,843.76 809,616.64 32.035817 -103.467549 9,600.00 2.21 21.33 9,694.75 2		8,400.00	2.21	21.33	8,395.72	207.98	81.19	377,804.25	809,603.42	32.035708	-103.467605
8,700.00 2.21 21.33 8,695.50 218.76 85.40 377,815.02 809,607.63 32.035738 -103.467591 8,800.00 2.21 21.33 8,795.42 222.35 86.80 377,818.62 809,609.03 32.035738 -103.467591 8,900.00 2.21 21.33 8,995.27 229.53 89.61 377,822.21 809,610.43 32.035758 -103.467587 9,000.00 2.21 21.33 9,095.20 233.13 91.01 377,822.80 809,611.84 32.035787 -103.467573 9,200.00 2.21 21.33 9,095.20 233.13 91.01 377,823.99 809,613.24 32.035787 -103.467573 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,836.58 809,616.04 32.035797 -103.467564 9,400.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,617.45 32.035807 -103.467564 9,600.00 2.21 21.33 9,594.83 2		8,500.00	2.21	21.33	8,495.65	211.57	82.60	377,807.84	809,604.82	32.035718	-103.467601
8,800.00 2.21 21.33 8,795.42 222.35 86.80 377,818.62 809,609.03 32.035748 -103.467587 8,900.00 2.21 21.33 8,895.35 225.94 88.21 377,822.21 809,610.43 32.035768 -103.467582 9,000.00 2.21 21.33 8,995.27 229.53 89.61 377,822.80 809,611.84 32.035767 -103.467573 9,000.00 2.21 21.33 9,095.20 233.13 91.01 377,822.99 809,611.84 32.035767 -103.467573 9,200.00 2.21 21.33 9,195.13 236.72 92.41 377,832.99 809,614.64 32.035767 -103.467564 9,300.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,617.45 32.035807 -103.467559 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,843.76 809,622.65 32.035867 -103.467545 9,600.00 2.21 21.33 9,594.83 2		8,600.00	2.21	21.33	8,595.57	215.16	84.00	377,811.43	809,606.23	32.035728	-103.467596
8,900.00 2.21 21.33 8,895.35 225.94 88.21 377,822.21 809,610.43 32.035758 -103.467582 9,000.00 2.21 21.33 8,995.27 229.53 89.61 377,825.80 809,611.84 32.035767 -103.467577 9,100.00 2.21 21.33 9,095.20 233.13 91.01 377,822.93 809,613.24 32.035767 -103.467573 9,200.00 2.21 21.33 9,195.13 236.72 92.41 377,832.99 809,614.64 32.035797 -103.467568 9,300.00 2.21 21.33 9,195.05 240.31 93.81 377,836.58 809,616.04 32.035797 -103.467569 9,400.00 2.21 21.33 9,494.90 247.50 96.62 377,843.76 809,618.85 32.035817 -103.467569 9,600.00 2.21 21.33 9,694.75 254.68 99.42 377,850.55 809,621.65 32.035866 -103.467545 9,600.00 2.21 21.33 9,694.61 2		8,700.00	2.21	21.33	8,695.50	218.76	85.40	377,815.02	809,607.63	32.035738	-103.467591
9,000.00 2.21 21.33 8,995.27 229.53 89.61 377,825.80 809,611.84 32.035767 -103.467577 9,100.00 2.21 21.33 9,095.20 233.13 91.01 377,829.39 809,613.24 32.035777 -103.467573 9,200.00 2.21 21.33 9,195.13 236.72 92.41 377,829.39 809,614.64 32.035787 -103.467568 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,836.58 809,616.04 32.035777 -103.467568 9,400.00 2.21 21.33 9,394.98 243.30 95.22 377,840.17 809,618.85 32.035807 -103.467564 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,843.76 809,618.85 32.035837 -103.467545 9,600.00 2.21 21.33 9,594.68 258.27 100.83 377,850.95 809,621.65 32.035836 -103.467544 9,600.00 2.21 21.33 9,994.68		8,800.00	2.21	21.33	8,795.42	222.35	86.80	377,818.62	809,609.03	32.035748	-103.467587
9,100.00 2.21 21.33 9,095.20 233.13 91.01 377,829.39 809,613.24 32.035777 -103.467573 9,200.00 2.21 21.33 9,195.13 236.72 92.41 377,832.99 809,614.64 32.035787 -103.467568 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,836.58 809,616.04 32.035797 -103.467568 9,400.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,618.65 32.035807 -103.467559 9,500.00 2.21 21.33 9,494.90 247.50 96.62 377,847.36 809,618.65 32.035817 -103.467559 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,847.36 809,621.65 32.035827 -103.467543 9,600.00 2.21 21.33 9,694.75 254.68 99.42 377,850.95 809,621.65 32.035826 -103.467543 9,800.00 2.21 21.33 9,694.61 2		8,900.00	2.21		8,895.35		88.21	377,822.21	809,610.43	32.035758	-103.467582
9,200.00 2.21 21.33 9,195.13 236.72 92.41 377,832.99 809,614.64 32.035787 -103.467568 9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,836.58 809,616.04 32.035787 -103.467568 9,400.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,617.45 32.035807 -103.467568 9,500.00 2.21 21.33 9,494.90 247.50 96.62 377,847.36 809,618.85 32.035817 -103.467559 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,847.36 809,621.65 32.035836 -103.467540 9,600.00 2.21 21.33 9,694.75 254.68 99.42 377,854.54 809,621.65 32.035836 -103.467541 9,800.00 2.21 21.33 9,794.68 258.27 100.83 377,854.54 809,623.05 32.035866 -103.467541 9,900.00 2.21 21.33 9,994.53		9,000.00	2.21	21.33	8,995.27	229.53		377,825.80		32.035767	-103.467577
9,300.00 2.21 21.33 9,295.05 240.31 93.81 377,836.58 809,616.04 32.035797 -103.467564 9,400.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,616.04 32.035807 -103.467564 9,500.00 2.21 21.33 9,494.90 247.50 96.62 377,843.76 809,618.85 32.035817 -103.467554 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,847.36 809,620.25 32.035867 -103.467545 9,600.00 2.21 21.33 9,694.75 254.68 99.42 377,850.95 809,621.65 32.035866 -103.467545 9,800.00 2.21 21.33 9,794.68 258.27 100.83 377,851.34 809,624.46 32.035866 -103.467536 9,900.00 2.21 21.33 9,994.53 265.46 103.63 377,861.72 809,627.26 32.035866 -103.467531 10,000.00 2.21 21.33 10,994.46 <		9,100.00			9,095.20		91.01		809,613.24	32.035777	-103.467573
9,400.00 2.21 21.33 9,394.98 243.90 95.22 377,840.17 809,617.45 32.035807 -103.467559 9,500.00 2.21 21.33 9,494.90 247.50 96.62 377,843.76 809,618.85 32.035817 -103.467554 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,847.36 809,620.25 32.035827 -103.467550 9,700.00 2.21 21.33 9,694.75 254.68 99.42 377,850.95 809,621.65 32.035836 -103.467545 9,800.00 2.21 21.33 9,794.68 258.27 100.83 377,854.54 809,623.05 32.035836 -103.467545 9,800.00 2.21 21.33 9,894.61 261.86 102.23 377,858.13 809,624.46 32.035866 -103.467536 10,000.00 2.21 21.33 10,994.46 269.05 105.03 377,865.32 809,627.26 32.035886 -103.467527 10,200.00 2.21 21.33 10,94.31		9,200.00	2.21		9,195.13		92.41	377,832.99	809,614.64		-103.467568
9,500.00 2.21 21.33 9,494.90 247.50 96.62 377,843.76 809,618.85 32.035817 -103.467554 9,600.00 2.21 21.33 9,594.83 251.09 98.02 377,847.36 809,618.85 32.035827 -103.467554 9,700.00 2.21 21.33 9,694.75 254.68 99.42 377,850.95 809,621.65 32.035836 -103.467545 9,800.00 2.21 21.33 9,794.68 258.27 100.83 377,854.54 809,623.05 32.035846 -103.467545 9,900.00 2.21 21.33 9,894.61 261.86 102.23 377,858.13 809,624.46 32.035866 -103.467536 10,000.00 2.21 21.33 10,994.46 269.05 105.03 377,865.32 809,627.26 32.035886 -103.467527 10,200.00 2.21 21.33 10,994.41 269.05 105.03 377,865.32 809,623.66 32.035886 -103.467527 10,200.00 2.21 21.33 10,994.43 276.64 106.44 377,872.50 809,630.07 32.035886 -103.46752					-						
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9,900.00 2.21 21.33 9,894.61 261.86 102.23 377,858.13 809,624.46 32.035856 -103.467536 10,000.00 2.21 21.33 9,994.53 265.46 103.63 377,858.13 809,624.46 32.035856 -103.467536 10,000.00 2.21 21.33 10,094.46 269.05 105.03 377,865.32 809,627.26 32.035866 -103.467527 10,200.00 2.21 21.33 10,194.38 272.64 106.44 377,869.91 809,628.66 32.035886 -103.467527 10,300.00 2.21 21.33 10,294.31 276.23 107.84 377,872.50 809,630.07 32.035895 -103.467517 10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467508 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,879.69 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.0		9,700.00	2.21					377,850.95			
10,000.00 2.21 21.33 9,994.53 265.46 103.63 377,861.72 809,625.86 32.035866 -103.467531 10,100.00 2.21 21.33 10,094.46 269.05 105.03 377,865.32 809,627.26 32.035876 -103.467527 10,200.00 2.21 21.33 10,194.38 272.64 106.44 377,868.91 809,628.66 32.035886 -103.467522 10,300.00 2.21 21.33 10,294.31 276.23 107.84 377,872.50 809,630.07 32.035895 -103.467517 10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467513 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,879.69 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035915 -103.467504 10,700.00 2.21 21.33 10,694			2.21		9,794.68			377,854.54	809,623.05		
10,100.00 2.21 21.33 10,094.46 269.05 105.03 377,865.32 809,627.26 32.035876 -103.467527 10,200.00 2.21 21.33 10,194.38 272.64 106.44 377,868.91 809,627.26 32.035886 -103.467522 10,300.00 2.21 21.33 10,294.31 276.23 107.84 377,872.50 809,630.07 32.035895 -103.467522 10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467513 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,879.69 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035915 -103.467504 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467504	1	9,900.00	2.21	21.33	9,894.61	261.86	102.23			32.035856	
10,200.00 2.21 21.33 10,194.38 272.64 106.44 377,868.91 809,628.66 32.035886 -103.467522 10,300.00 2.21 21.33 10,294.31 276.23 107.84 377,872.50 809,630.07 32.035886 -103.467522 10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467513 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,876.09 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035915 -103.467508 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467504		10,000.00	2.21					•	•		-103.467531
10,300.00 2.21 21.33 10,294.31 276.23 107.84 377,872.50 809,630.07 32.035895 -103.467517 10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467513 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,879.69 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035925 -103.467504 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467504		10,100.00	2.21	21.33	10,094.46	269.05	105.03			32.035876	-103.467527
10,400.00 2.21 21.33 10,394.23 279.83 109.24 377,876.09 809,631.47 32.035905 -103.467513 10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,876.09 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035925 -103.467504 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467504		10,200.00	2.21	21.33	10,194.38			377,868.91	809,628.66	32.035886	-103.467522
10,500.00 2.21 21.33 10,494.16 283.42 110.64 377,879.69 809,632.87 32.035915 -103.467508 10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035925 -103.467504 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467504	-	10,300.00	2.21	21.33	10,294.31	276.23	107.84	377,872.50	809,630.07	32.035895	-103.467517
10,600.00 2.21 21.33 10,594.08 287.01 112.05 377,883.28 809,634.27 32.035925 -103.467504 10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467499		10,400.00	2.21	21.33	10,394.23	279.83	109.24	377,876.09	809,631.47	32.035905	-103.467513
10,700.00 2.21 21.33 10,694.01 290.60 113.45 377,886.87 809,635.68 32.035935 -103.467499	ł	10,500.00	2.21	21.33	10,494.16	283.42	110.64	377,879.69	809,632.87	32.035915	-103.467508
		10,600.00	2.21	21.33	10,594.08	287.01	112.05	377,883.28	809,634.27	32.035925	-103.467504
10,800.00 2.21 21.33 10,793.94 294.20 114.85 377,890.46 809,637.08 32.035945 -103.467494		10,700.00	2.21	21.33	10,694.01	290.60	113.45	377,886.87	809,635.68	32.035935	-103.467499
		10,800.00	2.21	21.33	10,793.94	294.20	114.85	377,890.46	809,637.08	32.035945	-103.467494

9/19/2019 12:50:45PM

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Cobber 21-28 Fed 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3328.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3328.20ft
Site:	Sec 21-T26S-R34E	North Reference:	Grid
Well:	Cobber 21-28 Fed 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1	-	
Design:	Permit Plan 2		

Planned Survey

Measur Depti		Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)		(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
10,90	0.00	2.21	21.33	10,893.86	297.79	116.25	377,894.06	809,638.48	32.035955	-103.467490
11,00	0.00	2.21	21.33	10,993.79	301.38	117.66	377,897.65	809,639.88	32.035964	-103.467485
11,10	0.00	2.21	21.33	11,093.71	304.97	119.06	377,901.24	809,641.29	32.035974	-103.467480
11,20	0.00	2.21	21.33	11,193.64	308.57	120.46	377,904.83	809,642.69	32.035984	-103.467476
11,30	0.00	2.21	21.33	11,293.56	312.16	121.86	377,908.43	809,644.09	32.035994	-103.467471
11,40		2.21	21.33	11,393.49	315.75	123.27	377,912.02	809,645.49	32.036004	-103.467467
11,50		2.21	21.33	11,493.42	319.34	124.67	377,915.61	809,646.90	32.036014	-103.467462
11,60		2.21	21.33	11,593.34	322.93	126.07	377,919.20	809,648.30	32.036023	-103.467457
11,70		2.21	21.33	11,693.27	326.53	127.47	377,922.79	809,649.70	32.036033	-103.467453
11,80		2.21	21.33	11,793.19	330.12	128.88	377,926.39	809,651.10	32.036043	-103.467448
11,80		2.21	21.33	11,799.70	330.35	128.97	377,926.62	809,651.19	32.036044	-103.467448
11,90		0.81	21.33	11,893.15	332.65	129.86	377,928.91	809,652.09	32.036050	-103.467445
11,95		0.00	0.00	11,947.00	333.00	130.00	377,929.27	809,652.23	32.036051	-103.467444
12,00		0.00	0.00	11,993.15	333.00	130.00	377,929.27	809,652.23	32.036051	-103.467444
12,10		0.00 0.00	0.00 0.00	12,093.15	333.00 333.00	130.00 130.00	377,929.27	809,652.23	32.036051	-103.467444
12,20		0.00	0.00	12,193.15 12,293.15	333.00	130.00	377,929.27	809,652.23	32.036051 32.036051	-103.467444
12,30		0.00	0.00	12,293.15	333.00	130.00	377,929.27 377,929.27	809,652.23 809,652.23	32.036051	-103.467444 -103.467444
			' FNL, 360' FE	-	333.00	130.00	311,929.21	009,032.23	32.030031	-103.407444
12,40	-	2304 MD, 50 9.61	179.53	12.392.70	324.96	130.07	377,921.23	809,652.29	32.036029	-103.467444
12,40		19.61	179.53	12,489.34	299.77	130.27	377,896.03	809,652.50	32.035960	-103.467444
12,50		24.11	179.53	12,531.13	283.00	130.41	377,879.27	809,652.63	32.035914	-103.467444
-			" FNL, 360' FE		200.00		011,010.21	000,002.00	02.000014	100.407 414
12,60	-	29.61	179.53	12,580.14	258.17	130.61	377,854.44	809,652.84	32.035845	-103.467444
12,70	0.00	39.61	179.53	12,662.34	201.45	131.07	377,797.72	809,653.30	32.035689	-103.467444
12,80	0.00	49.61	179.53	12,733.44	131.31	131.64	377,727.58	809,653.87	32.035497	-103.467444
12,90	0.00	59.61	179.53	12,791.28	49.89	132.30	377,646.16	809,654.53	32.035273	-103.467444
13,00		69.61	179.53	12,834.10	-40.33	133.03	377,555.94	809,655.26	32.035025	-103.467444
13,10		79.61	179.53	12,860.61	-136.62	133.82	377,459.65	809,656.04	32.034760	-103.467444
13,20		89.61	179.53	12,869.99	-236.05	134.62	377,360.22	809,656.85	32.034487	-103.467444
13,20		90.00	179.53	12,870.00	-239.94	134.66	377,356.33	809,656.88	32.034476	-103.467444
13,30		90.00	179.53	12,870.00	-336.05	135.44	377,260.22	809,657.66	32.034212	-103.467444
13,40		90.00	179.53	12,870.00	-436.04	136.25	377,160.23	809,658.48	32.033937	-103.467444
13,50		90.00	179.53	12,870.00	-536.04	137.06	377,060.23	809,659.29	32.033662	-103.467444
13,60		90.00	179.53 179.53	12,870.00	-636.04	137.87	376,960.23	809,660.10	32.033387	-103.467444
13,70 13,80		90.00 90.00	179.53	12,870.00 12,870.00	-736.03 -836.03	138.69 139.50	376,860.24 376,760.24	809,660.91 809.661.73	32.033112	-103.467444
13,80		90.00	179.53	12,870.00	-936.03	140.31	376,660.24	809,662.54	32.032838 32.032563	-103.467444 -103.467444
14,00		90.00	179.53	12,870.00	-1,036.02	141.12	376,560.25	809,663.35	32.032388	-103.467444
14,10		90.00	179.53	12,870.00	-1,136.02	141.94	376,460.25	809,664.17	32.032013	-103.467444
14,20		90.00	179.53	12,870.00	-1,236.02	142.75	376,360.26	809,664.98	32.031738	-103.467444
14,30		90.00	179.53	12,870.00	-1,336.01	143.56	376,260.26	809,665.79	32.031463	-103.467444
14,40		90.00	179.53	12,870.00	-1,436.01	144.38	376,160.26	809,666.60	32.031188	-103.467444
14,50		90.00	179.53	12,870.00	-1,536.01	145.19	376,060.27	809,667.42	32.030913	-103.467444
14,60	0.00	90.00	179.53	12,870.00	-1,636.00	146.00	375,960.27	809,668.23	32.030639	-103.467444
14,70	0.00	90.00	179.53	12,870.00	-1,736.00	146.81	375,860.27	809,669.04	32.030364	-103.467444
14,80	0.00	90.00	179.53	12,870.00	-1,836.00	147.63	375,760.28	809,669.85	32.030089	-103.467444
14,90		90.00	179.53	12,870.00	-1,935.99	148.44	375,660.28	809,670.67	32.029814	-103.467444
15,00		90.00	179.53	12,870.00	-2,035.99	149.25	375,560.28	809,671.48	32.029539	-103.467444
15,10		90.00	179.53	12,870.00	-2,135.99	150.06	375,460.29	809,672.29	32.029264	-103.467444
15,200		90.00	179.53	12,870.00	-2,235.98	150.88	375,360.29	809,673.10	32.028989	-103.467444
15,300		90.00	179.53	12,870.00	-2,335.98	151.69	375,260.29	809,673.92	32.028714	-103.467443
15,400		90.00	179.53	12,870.00	-2,435.98	152.50	375,160.30	809,674.73	32.028440	-103.467443
15,50	0.00	90.00	179.53	12,870.00	-2,535.97	153.31	375,060.30	809,675.54	32.028165	-103.467443

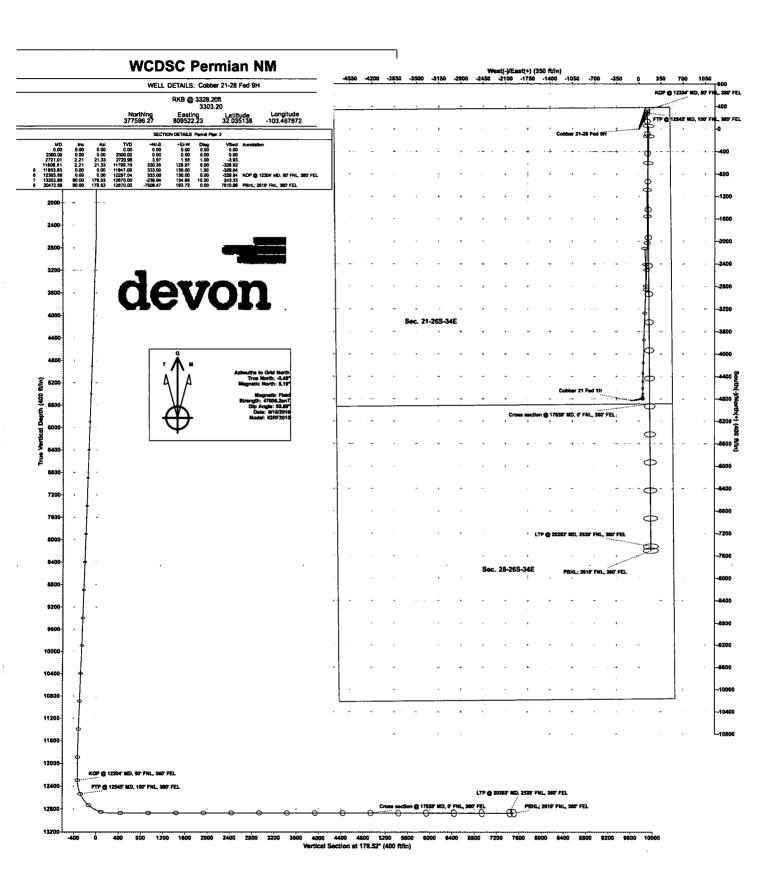
Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Cobber 21-28 Fed 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3328.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3328.20ft
Site:	Sec 21-T26S-R34E	North Reference:	Grid
Well: Wellbore:	Cobber 21-28 Fed 9H Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan 2		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,600.00	90.00	179.53	12,870.00	-2,635.97	154.13	374,960.30	809,676.35	32.027890	-103.467
15,700.00	90.00	179.53	12,870.00	-2,735.97	154.94	374,860.31	809,677.17	32.027615	-103.467
15,800.00	90.00	179.53	12,870.00	-2,835.96	155.75	374,760.31	809,677.98	32.027340	-103.467
15,900.00	90.00	179.53	12,870.00	-2,935.96	156.56	374,660.31	809,678.79	32.027065	-103.467
16,000.00	90.00	179.53	12,870.00	-3,035.96	157.38	374,560.32	809,679.60	32.026790	-103.467
16,100.00	90.00	179.53	12,870.00	-3,135.95	158.19	374,460.32	809,680.42	32.026515	-103.46
16,200.00	90.00	179.53	12,870.00	-3,235.95	159.00	374,360.33	809,681.23	32.026240	-103.46
16,300.00	90.00	179.53	12,870.00	-3,335.95	159.81	374,260.33	809,682.04	32.025966	-103.46
16,400.00	90.00	179.53	12,870.00	-3,435.94	160.63	374,160.33	809,682.85	32.025691	-103.46
16,500.00	90.00	179.53	12,870.00	-3,535.94	161.44	374,060.34	809,683.67	32.025416	-103.46
16,600.00	90.00	179.53	12,870.00	-3,635.94	162.25	373,960.34	809,684.48	32.025141	-103.46
16,700.00	90.00	179.53	12,870.00	-3,735.93	163.06	373,860.34	809,685.29	32.024866	-103.46
16,800.00	90.00	179.53	12,870.00	-3,835.93	163.88	373,760.35	809,686.10	32.024591	-103.46
16,900.00	90.00	179.53	12,870.00	-3,935.93	164.69	373,660.35	809,686,92	32.024316	-103.46
17,000.00	90.00	179.53	12,870.00	-4,035.92	165.50	373,560.35	809,687.73	32.024041	-103.46
17,100.00	90.00	179.53	12,870.00	-4,135.92	166.31	373,460.36	809,688.54	32.023767	-103.46
17,200.00	90.00	179.53	12,870.00	-4,235.92	167.13	373,360.36	809.689.36	32.023492	-103.46
17,300.00	90.00	179.53	12,870.00	-4,235.92	167.13	373,260.36	809,690,17		
17,400.00	90.00	179.53	12,870.00	•	167.94	373,260.36	-	32.023217	-103.46
-			-	-4,435.91		•	809,690.98	32.022942	-103.46
17,500.00	90.00	179.53	12,870.00	-4,535.91	169.57	373,060.37	809,691.79	32.022667	-103.46
17,600.00	90.00	179.53	12,870.00	-4,635.90	170.38	372,960.37	809,692.61	32.022392	-103.46
17,700.00	90.00	179.53	12,870.00	-4,735.90	171.19	372,860.38	809,693.42	32.022117	-103.46
17,800.00	90.00	179.53	12,870.00	-4,835.90	172.00	372,760.38	809,694.23	32.021842	-103.46
17,859.00	90.00 Iction @ 1785	179.53	12,870.00	-4,894.89	172.48	372,701.38	809,694.71	32.021680	-103.467
17,900.00	90.00	179.53	12,870.00	-4,935.89	172.82	372,660.38	809.695.04	32.021568	-103.46
18,000.00	90.00	179.53	12,870.00	-5,035.89	173.63	372,560.39	809,695.86	32.021293	-103.46
18,100.00	90.00	179.53	12,870.00	-5,135.89	174.44	372,460.39	809,696.67	32.021018	-103.46
18,200.00	90.00	179.53	12,870.00	-5,235.88	175.25	372,360.40	809,697.48	32.020743	-103.46
18,300.00	90.00	179.53	12,870.00	-5,335.88	176.07	372,260.40	809,698.29	32.020468	-103.46
18,400.00	90.00	179.53	12,870.00	-5,435.88	176.88	372,160.40	809,699.11	32.020193	-103.46
18,500.00	90.00	179.53	12,870.00	-5,535.87	177.69	372,060.41	809,699.92	32.019918	-103.46
18,600.00	90.00	179.53	12,870.00	-5,635.87	178.50	371,960.41			
18,700.00	90.00	179.53	12,870.00	-5,735.87 -5,735.87	178.50	371,860.41	809,700.73	32.019643 32.019369	-103.46
18,800.00	90.00	179.53	12,870.00	-5,835.86	180.13	371,760.42	809,701.54	32.019309	-103.46
	90.00	179.53				-	809,702.36		-103.46
18,900.00 19,000.00	90.00	179.53	12,870.00	-5,935.86	180.94 181.75	371,660.42	809,703.17	32.018819	-103.46
•			12,870.00	-6,035.86		371,560.42	809,703.98	32.018544	-103.46
19,100.00	90.00	179.53	12,870.00	-6,135.85	182.57	371,460.43	809,704.79	32.018269	-103.46
19,200.00	90.00	179.53	12,870.00	-6,235.85	183.38	371,360.43	809,705.61	32.017994	-103.46
19,300.00	90.00	179.53	12,870.00	-6,335.85	184.19	371,260.43	809,706.42	32.017719	-103.46
19,400.00	90.00	179.53	12,870.00	-6,435.84	185.00	371,160.44	809,707.23	32.017444	-103.46
19,500.00	90.00	179.53	12,870.00	-6,535.84	185.82	371,060.44	809,708.04	32.017170	-103.46
19,600.00	90.00	179.53	12,870.00	-6,635.84	186.63	370,960.44	809,708.86	32.016895	-103.46
19,700.00	90.00	179.53	12,870.00	-6,735.83	187.44	370,860.45	809,709.67	32.016620	-103.46
19,800.00	90.00	179.53	12,870.00	-6,835.83	188.25	370,760.45	809,710.48	32.016345	-103.46
19,900.00	90.00	179.53	12,870.00	-6,935.83	189.07	370,660.45	809,711.29	32.016070	-103.46
20,000.00	90.00	179.53	12,870.00	-7,035.82	189.88	370,560.46	809,712.11	32.015795	-103.46
20,100.00	90.00	179.53	12,870.00	-7,135.82	190.69	370,460.46	809,712.92	32.015520	-103.46
20,200.00	90.00	179.53	12,870.00	-7,235.82	191.50	370,360.47	809,713.73	32.015245	-103.46
20,300.00	90.00	179.53	12,870.00	-7,335.81	192.32	370,260.47	809,714.55	32.014971	-103.46
20,392.66	90.00	179.53	12,870.00	-7,428.47	193.07	370,167.81	809,715.30	32.014716	-103.46
•	393' MD, 253	B' FNL, 360' F							
20,400.00	90.00	179.53	12,870.00	-7,435.81	193.13	370,160.47	809,715.36	32.014696	-103.46

COMPASS 5000.14 Build 85

Database:	EDM	r5000.141 P	rod US		Local Co	-ordinate Reference	: Weil Cobl	per 21-28 Fed 9H	
Company:		SC Permian			TVD Refe		RKB @ 3		
Project:	Lea C	County (NAD8	33 New Mexico	East)	MD Refer		RKB @ 3		
Site:		21-T26S-R34		,	North Re		Grid	020.201	
Well:	Cobb	er 21-28 Fed	9H			alculation Method:		Curvature	
Wellbore:		ore #1			•••••				
Design:		it Plan 2							
								· · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Planned Surve	y								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
20,472.65	5 90.00	179.53	12,870.00	-7,508.46	193.72	370,087.82	809,715.95	32.014496	-103.467442
PBHL: :	2618' FNL, 360'	FEL							
20,472.66		179.53	12,870.00	-7,508.47	193.72	370,087.82	809,715.95	32.014496	-103.46744
Design Targets	5					 			r e
Target Name									
- hit/miss ta	• •••	• •	Dir. TVD	+N/-S	+E/-W	Northing	Easting		
•	• •••	• •	o Dir. TVD (°) (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss ta - Shape PBHL - Cobber	21-28 Fe	(°) 0.00	(°) (ft)	(ft) 00 -7,508.4	(ft) 47 193.72	(usft)	-	Latitude 32.014496	
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 Fe ses target cente	(°) 0.00	(°) (ft) 0.00 0.	(ft) 00 -7,508.4	(ft) 47 193.72	(usft)	(usft)		
- hit/miss ta - Shape PBHL - Cobber - plan miss	r 21-28 Fe ses target cente	(°) 0.00	(°) (ft) 0.00 0. ft at 0.00ft MD (((ft) 00 -7,508.4	(ft) 47 193.72 0 N, 0.00 E)	(usft)	(usft)		Longitude -103.46744
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 Fe ses target cente	(°) 0.00 r by 7510.961	(°) (ft) 0.00 0. ft at 0.00ft MD (((ft) 00 -7,508. 0.00 TVD, 0.00	(ft) 47 193.72 0 N, 0.00 E)	(usft)	(usft)		
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 F¢ ses target cente	(°) 0.00 r by 7510.96 Vertical	(°) (ft) 0.00 0. It at 0.00ft MD (((ft) 00 -7,508. 0.00 TVD, 0.00	(ft) 47 193.72 0 N, 0.00 E) ates	(usft)	(usft)		
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 F¢ ses target cente	(°) 0.00 r by 7510.96 Vertical Depth	(*) (ft) 0.00 0. ft at 0.00ft MD (+N/-t (ft)	(ft) 00 -7,508. 0.00 TVD, 0.00	(ft) 47 193.72 0 N, 0.00 E) ates +E/-W	(usft) 370,087.82 Comment	(usft) 809,715.95	32.014496	
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 Fe ses target cente ons Measured Depth (ft)	(°) 0.00 r by 7510.96 Vertical Depth (ft)	(°) (ft) 0.00 0. It at 0.00ft MD ((+N/-1 (ft))4 3	(ft) 00 -7,508.0 0.00 TVD, 0.00 	(ft) 47 193.72) N, 0.00 E) ates +E/-W (ft)	(usft) 370,087.82 Comment KOP @ 12304' MI	(usft)	32.014496	
- hit/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 Fe ses target cente ons Measured Depth (ft) 12,303.89	(°) 0.00 r by 7510.96 Vertical Depth (ft) 12,297.0	(°) (ft) 0.00 0. It at 0.00ft MD ((+N/-1 (ft) 04 3 13 2	(ft) 00 -7,508. 0.00 TVD, 0.00 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	(ft) 47 193.72 0 N, 0.00 E) ates +E/-W (ft) 130.00	(usft) 370,087.82 Comment KOP @ 12304' MI FTP @ 12545' MC	(usft) 809,715.95 D, 50' FNL, 360' FE	32.014496	
- htt/miss ta - Shape PBHL - Cobber - plan miss - Point	r 21-28 Fe ses target cente Depth (ft) 12,303.89 12,545.04	(°) 0.00 r by 7510.96 Vertical Depth (ft) 12,297.0 12,531.1	(*) (ft) 0.00 0. ft at 0.00ft MD ((+N/-5 (ft))4 3 13 2 00 -4, (00 -7, 4	(ft) 00 -7,508. 0.00 TVD, 0.00 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	(ft) 47 193.72 0 N, 0.00 E) ates +E/-W (ft) 130.00 130.41	(usft) 370,087.82 Comment KOP @ 12304' MI FTP @ 12545' ME Cross section @ 1	(usft) 809,715.95 0, 50' FNL, 360' FE 0, 100' FNL, 360' FI	32.014496	



1. Geologic Formations

TVD of target	12870	Pilot hole depth	N/A
MD at TD:	20473	Deepest expected fresh water	

Basin

.

Formation	Depth	Water/Mineral	Hazards*
FORMAUON	(TVD) from KB	Bearing/Target Zone?	nazarus~
Rustler	700		
Salado	1100		
Base of Salt	5090		
Delaware	5350		
1BSLM	8500		
Bone Spring 1st	9650		
Bone Spring 2nd	10075	l l l l l l l l l l l l l l l l l l l	
Bone Spring 3rd	12250		
Wolfcamp	12650		
1			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

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Cobber 21-28 Fed 9H

Hole Size	Casin	g Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hule Size	From	To	Csg. Size	(PPF)	Grade	Conn	Collapse	Burst	Tension
17 1/2	0	725 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	12250 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM Minimum Safety Factor				1	1.6 Dry 1.8 Wet

2. Casing Program (Primary Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

• A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Hole Size	Casing	g Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
	From	To	Cag. Size	(PPF)	Graue	Conn	Collapse	Burst	Tension
17 1/2	0	725 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	12250 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
		•	BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet		

Casing Program (Alternative Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

•Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.

• A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Cobber 21-28 Fed 9H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specificition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	· · · ·
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program (Primary Design)							
Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description		
Surface	563	Surf	13.2	1.44	Lead: Class C Cement + additives		
T . 1	768	Surf	9	3.27	Lead: Class C Cement + additives		
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives		
	965	Surf	9	3.27	1st stage Lead: Class C Cement + additives		
Int 1 Two Stage	93	500' above shoe	13.2	1.44	lst stage Tail: Class H / C + additives		
w/ DV @ TVD of Delaware	464	Surf	9	3.27	2nd stage Lead: Class C Cement + additives		
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives		
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives		
Intermediate	768	Surf	9	3.27	Lead: Class C Cement + additives		
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives		
	62	10304	9.0	3.3	Lead: Class H /C + additives		
Production	521	12304	13.2	1.4	Tail: Class H / C + additives		

3. Cementing Program (Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

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3. Cementing Program (Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	563	Surf	13.2	1.44	Lead: Class C Cement + additives
	483	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	567	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	lst stage Tail: Class H / C + additives
w DV @ ~4500	304	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	483	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
nt 1 (10.625" Hole Size)	734	Surf	9	3.27	Lead: Class C Cement + additives
Int I (10.025 Hole Size)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	117	10304	9.0	3.3	Lead: Class H /C + additives
Production	1081	12304	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (Alternative Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		*	Tested to:
			An	nular	x	50% of rated working pressure
Int 1	13-58"	5M	Blind Ram Pipe Ram Double Ram		X	
Int i	15-50	5111				- 5M
					X	5101
			Other*			
				lar (5M)	x	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		X	
Troduction			Pipe Ram Double Ram			10M
					X	10141
			Other*			
			Annul	lar (5M)		
			Blin	d Ram		
			Pipe	e Ram		
			Doub	ole Ram		
			Other*			
A variance is requested for	the use of a	diverter on	the surface	casing. See a	attached for	schematic.
A variance is requested to	run a 5 M an	nular on a	10M system	r		

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4. Pressure Control Equipment (Three String Design)

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5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?		
	What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing		
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the	
x	Completion Rpeort and sbumitted to the BLM.	
	No logs are planned based on well control or offset log information.	
	Drill stem test? If yes, explain.	
	Coring? If yes, explain.	

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	7027
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

 Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

 N
 H2S is present

 Y
 H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- ³ The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400039468

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Type: OIL WELL

Well Number: 9H

Well Work Type: Drill

Submission Date: 02/22/2019

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule: Lined pit reclamation description:

Leak detection system description:

Leak detection system attachment:

PWD disturbance (acres):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Number: 9H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment: Section 3 - Unlined Pits Would you like to utilize Unlined Pit PWD options? NO Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Number: 9H

Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount: Additional bond information attachment: Section 4 - Injection Would you like to utilize Injection PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD surface owner: PWD discharge volume (bbl/day): Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well mineral owner: Injection well number: Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: COBBER 21-28 FED

Well Number: 9H

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Other PWD type description:

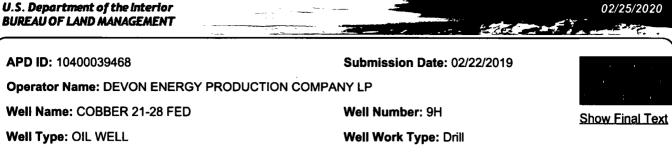
Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior



Bond Info Data Report

Bond Information

Federal/Indian APD: FED BLM Bond number: CO1104 **BIA Bond number:** Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? **BLM reclamation bond number:** Forest Service reclamation bond number: Forest Service reclamation bond attachment: **Reclamation bond number: Reclamation bond amount: Reclamation bond rider amount:**

Additional reclamation bond information attachment: