Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE Office.

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5. Lease Serial No. NMLC061936

6. If Indian, Allottee or Tribe Name

abandoned we	II. Use form 3160-3 (APD) f	or such proposate	6. If Indian, Allottee	or Tribe Name
SUBMIT IN	TRIPLICATE - Other instruc	tions on page 2	6. If Indian, Allottee 7. If Unit or CA/Agr 8. Well Name and No CO GRIZZLY 3 3	eement, Name and/or No.
1. Type of Well	· · · · · · · · · · · · · · · · · · ·		8. Well Name and No). 24 FED 005711
☑ Oil Well ☐ Gas Well ☐ Otl 2. Name of Operator		IDA BECEBBA	CO GRIZZLY 3 :	34 FED 0057H
CHEVRON USA INCORPOR	ATED E-Mail: LBECERRA@		9. API Well No. 30-025-45488-	00-X1
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706	3b Pl	o. Phone No. (include area code) h: 432-687-7665	10. Field and Pool or COTTON DRA	Exploratory Area W
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)		11. County or Parish	State
Sec 3 T25S R32E SENE 2640 32.159538 N Lat, 103.657387			LEA COUNTY,	NM
12. CHECK THE AI	PPROPRIATE BOX(ES) TO	INDICATE NATURE OF	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
■ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	■ Recomplete	Other
☐ Final Abandonment Notice	□ Change Plans	Plug and Abandon	□ Temporarily Abandon	Change to Original A PD
	Convert to Injection	□ Plug Back	■ Water Disposal	
Chevron USA Inc respectfully 12/21/2018: FTP - From: 2,310' FNL, 1,782' ITP - From: 330' FNL, 1,782' IBHL - From: 100' FNL, 1,782' MD/TVD: 18,060'/10,738' to 18	2' FEL to 2,310' FNL, 550' FE FEL to 100' FNL, 550' FEL FEL to 25' FNL, 550' FEL 3,411'/10,475'		OCD Hobbs	,
14. I hereby certify that the foregoing is	 	17 verified by the BLM Well	Information System	
Com	For CHEVRON USA mitted to AFMSS for procession	INCORPORATED, sent to	the Hobbs	
Name (Printed/Typed) LAURA BE	•	- · I	ATORY SPECIALIST	
		1,2002		
Signature (Electronic S	ubmission)	Date 07/29/20	19	
State and	THIS SPACE FOR F	EDERAL OR STATE O	OFFICE USE	
_Approved_ByNDUNGU_KAMAU		TitlePETROLEU	JM ENGINEER	Date 08/05/2019
Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to conduct	itable title to those rights in the subj			
Title 18 U.S.C. Section 1001 and Title 43 U.S. States any false, fictitious or fraudulent st			willfully to make to any department or	agency of the United

Additional data for EC transaction #475517 that would not fit on the form

32. Additional remarks, continued

Copy of a revised certified plat and a revised drilling plan with updated well information is attached.

Revisions to Operator-Submitted EC Data for Sundry Notice #475517

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH

NOI

APDCH NOI

Lease:

NMLC061936

NMLC061936

Agreement:

Operator:

CHEVRON USA INC 6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432-687-7665

CHEVRON USA INCORPORATED 6301 DEAUVILLE BLVD MIDLAND, TX 79706 Ph: 432.687.7100 Fx: 432-687-7221

Admin Contact:

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7665

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM Ph: 432-687-7665

Tech Contact:

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7665

LAURA BECERRA REGULATORY SPECIALIST E-Mail: LBECERRA@CHEVRON.COM

Ph: 432-687-7665

Location:

State: County: NM LEA

Field/Pool:

WC-025G06S253206M;BN SPRG

COTTON DRAW

NM LEA

Well/Facility:

CO GRIZZLY 3 34 FED 0057H Sec 3 T25S R32E Mer NMP SENE 2640FNL 1015FEL

CO GRIZZLY 3 34 FED 0057H Sec 3 T25S R32E SENE 2640FNL 1015FEL 32.159538 N Lat, 103.657387 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CHEVRON USA INCORPORATED LEASE NO.: NMLC061936 COUNTY: LEA

CO GRIZZLY 3 10 FED 0052H

LOCATION: Section 3, T.25 S., R.32 E., NMPM SURFACE HOLE FOOTAGE: 2640'/N & 1040'/E BOTTOM HOLE FOOTAGE: 25'/S & 550'/E

CO GRIZZLY 3 10 FED 0057H

LOCATION: Section 3, T.25 S., R.32 E., NMPM SURFACE HOLE FOOTAGE: 2640'/N & 1115'/E BOTTOM HOLE FOOTAGE: 25'/S & 2310'/E

CO GRIZZLY 3 10 FED 00510H

LOCATION: Section 3, T.25 S., R.32 E., NMPM SURFACE HOLE FOOTAGE: 2640'/N & 1115'/E BOTTOM HOLE FOOTAGE: 25'/S & 2310'/E

ALL PREVIOUS COAS STILL APPLY.

A. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 880 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 **8** hours 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 1/3 fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• 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.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

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

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. 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).'

2.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. 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.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall 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

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

- 1. 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.
- 2. Wait on cement (WOC) for Potash Areas: 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 24 hours. 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. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. 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.

- 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: 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.

- 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.

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

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.

NMK822019

For the latest performance data, always visit our website: www.tenaris.com

February 02 2017



Connection: TenarisXP® BTC

Casing/Tubing: CAS

Coupling Option: REGULAR

Size: 5.500 in. Wall: 0.361 in.

Weight: 20.00 lbs/ft

Grade: P110-IC

Min. Wall Thickness: 87.5 %

		GEOMET	TRY		
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft	Standard Drift Dlameter	4.653 in.
Nominal ID	4.778 in.	Wall Thickness	0.361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft		•		
		PERFORM	ANCE		
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi
Collapse	12100 psi				
	TEI	NARISXP® BTC CO		BATA	
		GEOME:		1	
Connection OD	6.100 In.	Coupling Length	9.450 in.	Connection ID	4.766 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 lbs	Structural Bending ⁽²⁾	92 %100 ft
External Pressure Capacity	12100 psi				
	Ŀ	STIMATED MAKE-	JP TORQUES	(3)	
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-ib
		OPERATIONAL LI	MIT TORQUE	\$	
Operating Torque	21500 ft-lbs	Yleid Torque	23900 ft-lbs		
		BLANKING DI	MENSIONS		
		Blanking Dir	nensions		

⁽¹⁾ Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per

section 10.3 API 5C3 / ISO 10400 - 2007.

- (2) Structural rating, pure bending to yield (i.e no other loads applied)
- (3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread $compounds \ please \ contact \ us \ at \ \underline{licensees@oilfield.tenaris.com}. \ Torque \ values \ may \ be \ further \ reviewed.$ For additional information, please contact us at contact-tenarishydril@tenaris.com

ONSHORE ORDER NO. 1 Chevron CO Grizzly 3 34 Fed 0057H Lea County NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 1

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

levation: 3494 ft

FORMATION	SUB-SEA TVD	TVD	MD	LITHOLOGIES	MIN. RESOURCES	PROD. FORMATION
Rustler	2634	860	860	ANHYD	N/A	
Castile	-26	3,520	3,520	SALT	N/A	
Lamar	-1253	4,747	4,747	LIMESTONE	N/A	
Bell Canyon	-1326	4,820	4,820	SAND STONE	N/A	
Cherry Canyon	-2216	5,710	5,710	SAND STONE	N/A	
Brushy Canyon	-3606	7,100	7,100	SAND STONE	N/A	
Bone Spring Limestone	-5216	8,710	8,710	SHALE	Oil	
Upr. Avalon	-5336	8,830	8,830	SHALE	Oil	
Top Bone Spring 1	-6216	9,710	9,710	SHALE	Oil	
Top Bone Spring 2	-6853	10,347	10,470	SHALE	Oil	
Estimated Target TVD	-6981	10,475	18,411	SHALE	Oil	yes
			 	 		
					<u></u>	
	L		<u> </u>		<u> </u>	

WELLBORE LOCATIONS	SUB-SEA TVD	RKB TVD	MD
SHL	3494	•	
КОР	-6408	9,902	9,947
FTP	-6981	10,475	10,847
LTP	-6981	10,475	18,411

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

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

Substance	Formation	Depth
Deepest Ex	750	
Water	Rustler	860
Water	Bell Canyon	4820
Water	Cherry Canyon	5710
Oil/Gas	Brushy Canyon	7100
Oil/Gas	Bone Spring Limestone	8710
Oil/Gas	Upr. Avalon	8830
Oil/Gas	Top Bone Spring 1	9710
Oil/Gas	Top Bone Spring 2	10347
Oil/Gas	Estimated Target TVD	10,475

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

3. **BOP EQUIPMENT**

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test will be conducted by a third party.

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

ONSHORE ORDER NO. 1 Chevron CO Grizzly 3 34 Fed 0057H Lea County NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 2

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	880'	17-1/2"	13-3/8"	54.5#	J-55	STC	New
Intermediate	0'	8,750'	12-1/4"	9-5/8"	43.5#	L-80	LTC	New
Production	0'	18,667'	8-1/2"	5-1/2"	20.0#	P-110	TXP BTC	New

Proposed	Hole Size	Casing Size	Top (MD)	Btm (MD)	Top (TVD)	Btm (TVD)	Top (SSTVD)	Btm (SSTVD)	Grade	Weight	Joint type
Surface	17-1/2"	13-3/8"	0'	880'	Ò,	880'	3,494'	2,614'	J-55	54.5#	STC
Intermediate	12-1/4"	9-5/8"	0'	8,750'	0'	8,750'	3,494	-5,256'	L-80	43.5#	LTC
Production	8-1/2"	5-1/2"	0'	18,411'	0'	_10,475'	3,494'	-6,981	P110	20.0#	TXP-BTC

- b. Casing design subject to revision based on geologic conditions encountered.
- A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing C. design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (~840') while running for intermediate and production casing in order to maintain collapse SF.

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

Surface Casing: 880' ftTVD Intermediate Casing: 8,750' ftTVD Production Casing: 18,411' ftMD

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1,41	2.06	2.80	1.77
Intermediate	1.28	3.01	1.84	1.58
Production	1.29	2.00	2.18	1.54

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design	Surf	Int	Prod
Pressure Test- Surface, Int, Prod Csg			
P external: Mud weight above TOC, PP below	X	Х	X
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg			
P external: Mud weight above TOC, PP below	X		
P internal: Dry Gas from Next Csg Point	ł		
Gas over mud (60/40) - Int Csg			
P external: Mud weight above TOC, PP below		X	Ì
P internal: 60% gas over 40% mud from hole TD PP	!		I .
Stimulation (Frac) Pressures- Prod Csg			
P external: Mud weight above TOC, PP below	.	ł	X
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (packer at KOP)			
P external: Mud weight above TOC, PP below		}	X
P internal: Leak just below surf, 8.45 ppg packer fluid			1
Collapse Design	Surf	Int	Prod
Full Evacuation			
P external: Mud weight gradient	X	Х	X
P internal: none			<u> </u>
Cementing- Surf, Int, Prod Csg			
P external: Wet cement	X	Х	X
P internal: displacement fluid - water	<u> </u>		
Tension Design	Surf	Int	Prod
100k ib overpuli			
	Х	Х	Х
·			

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE:

5. **CEMENTING PROGRAM**

Slurry	Туре	Тор	Bottom	Sacks	Yield	Density	%Excess	Water	Volume	Additives
Surface					(cu ft/sk)	(ppg)	Open Hole	gal/sk	cuft	
Tail	Class C	0'	880'	1178	1.34	14.8	100	6.40	1579	Extender, Antifoam, Retarder
Intermediate Csq										Ι
Lead	Class C	0,	7,750'	1233	2.56	11.9	30	14.66	3156	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	7,750'	8,750'	334	1.33	14.8	30	6.38	445	Extender, Antifoam, Retarder, Viscosifier
Production		1								*
Lead 1	Class C	0'	10,000'	1028	2.46	11.9	10	14.05	2530	Extender, Antifoam, Retarder, Viscosifier
Lead 2	Class C	10,000'	17,411'	1009	1.85	13.2	10	9.87	1868	Extender, Antifoam, Retarder, Viscosifier
Tail	Acid Sol Class H	17,411'	18,411'	115	2.19	15	10	9.54	252	Extender, Antifoam, Retarder, Viscosifier

Final cement volumes will be determined by caliper.
 Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

^{3.} Production casing will have one solid body type centralizer on every joint in the lateral, then every other joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing and surface.

CONFIDENTIAL – TIGHT HOLE DRILLING PLAN PAGE: 4

6. MUD PROGRAM

From	То	Туре	Weight	Viscosity	Filtrate
0'	880'	Fresh water mud	8.3 - 8.7	28-30	N/C
880'	8,750'	Brine/OBM	8.7 - 9.6	28-70	15-25
8,750'	18,411'	ОВМ	8.7 - 12.0	50-70	10 - 25

A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transportating of E&P waste will follow EPA regulations and accompanying manifests.

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

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

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

7. TESTING, LOGGING, AND CORING

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

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

TYPE	Logs	Interval	Timing
Mudlogs	2 man mudlog	Surface casing shoe	While drilling or
		through prod hole TD	circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

- c. Conventional whole core samples are not planned.
- d. A directional survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressure or temperatures are expected. Estimated BHP is: 4,362 psi
 b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the

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

Schlumberger

Chevron CO Grizzly 3 34 Fed 0057H Rev0 kFc 01May19 Proposal Geodetic Report



Report Data: Client: Fleid: Structure / Slot: Well: Borahole: UWI / APIB: Survey Name: Survey Data: Tor/ AHD / DDI / ERD R. Contrillants Reference.

Survey Date: Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: Location Lat / Long: Location Grid Mtz Y/X: CRS Grid Convergence Angle: Grid Scale Factor:

Grid Scale Factor
Version / Patch:

May 01, 2019 - 02:53 PM
Chevron
NM Lea County (NAD 27)
Chevron CO Grizzly 3 Fed Pad 5 / 0057H
CO Grizzly 3 34 Fed 0057H
CO Grizzly 3 34 Fed 0057H
Urknown / Unknown
Chevron CO Grizzly 3 34 Fed 0057H Rev0 kFc 01May19

May 01, 2019 111,999 ' 1876,271 ft /6,232 / 0,828 NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32' 9' 33,9336", W 103' 39' 24,8995" N 422374,000 ft US, E 709325,000 ft US

0.3601 ° 0.99995928 2.10.753.0 Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum: TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination: Total Gravity Field Strength: Gravity Model:

Gravity Model: Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference: Grid Convergence Used: Minimum Curvature / Lubinski 159,900 * (Grid North) 0,000 ft, 0,000 ft RKB = 28ft 3522,000 ft above 3494,000 ft above 6,877 * 998, 4280mgn (9,80665 Based) GARM 47847,839 nT 59,794 * Chevron

47847,839 nT 59,794 ° May 01, 2019 HDGM 2019 Grid North 0,3601 ° 6,3171 °

Grid Convergence Used: 0.3601 *
Total Corr Mag North->Grid North: 6.3171 *
Local Coord Referenced To: We'll Head

Surfeer	Comments	MD (ft)	inci (*)	Azim Grid	TVD (ff)	VSEC (ff)	NS (ft)	EW (ft)	DLS (*/100ft)	Northing (MUS)	Easting Latitude Longitude (ftUS) (N/S * ") (E/W * ")
200.0 0.00 110.1 12.1 200.0 0.00 0.00 0.	Surface	0.00	0,00		0,00	0,00	0.00	0.00	N/A	422374.00	709325,00 N 32 9 33,89 W 103 39 24,89
200 0 0.00 11421 2000 0 0.00 11421 2000 0 0.00 0.00 0.00 0.00 0.00 0.00										422374.00	
March Marc											
19.00 0 0 0 1102 1 1021 0 000 0 0 0 0 0 0 0										422374,00	
TABLE TOTAL STATE OF THE PARTY											
13 per Canago Manti Dyviges 10 per Canago											
100.00 150 1162 1993	13 3/8" Casing									422374,00	
1100 00 100 1102 1102 11027	Build 1,5*/100ft										
Hold 100,00 1,00 11,02 110,00 1,02 1,0		1000,00				-0.58 -2.32			1,50	422373,42 42237169	
Held 1988 100 1100 1100 1100 1100 1100 1100		1200,00	4,50	116.21	1199,69	-5.22	-5,20	10,56	1,50	422368,80	709335,56 N 32 9 33.84 W 103 39 24,77
Helia (1900) (19		1300,00							1,50	422384.76	709343,77 N 32 9 33,80 W 103 39 24,87
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1770,000 10.50 11.52 1 10.54 1 36.4 1 36.4 1 36.5 1 37.7 37.5 1 00.0 42231.7 70 700961.2 N 32 83.5 W 103.3 24.5 1 10.5	Hold	1599,98	10.50	116.21		-28.35	-28,25	57.38	1,50	422345,75	709382.38 N 32 9 33,61 W 103 39 24.22
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Schlumberger-Private

KOP. Build 10"/100ft Landing Point Turn 2"/100ft Hold	(17) 6200.00 6300.00 6300.00 6400.00 6500.00 6500.00 6500.00 6900.00 9100.00 9200.00 9300.00 9500.00 9500.00 9500.00 9500.00 9600.00 9700.00 9947.68 10000.00 10200.00 10200.00 10200.00 10400.00 10500.00 10700.00 111100.00 111100.00 111100.00 111100.00 11100.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 11	(PT) 8154.38 8254.38 8254.38 8454.38 8554.39 8754.36 8854.39 8754.36 8854.39 9154.38 91554.38	239.14 239.16 239.17 339.17 339.17 339.17 339.17 339.17 339.17 339.17 339.17 339.17 398.60 486.00	(M) 238.30 238.3	(M) 483,98 483,99 483,9	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	[mUS] 422135.71	(mus) (N3 · · ·) (EW · · ·) 708808 96 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.51 W 103 39 19.28 708808 97 N 32 931.70 W 103 39 19.28 708808 97 N 32 931.70 W 103 39 19.38 708798 88 N 32 937.70 W 103 39 19.34 708798 98 N 32 937.70 W 103 39 19.34 708796 98 N 32 937.69 W 103 39 19.34 708796 98 N 32 937.69 W 103 39 19.34 708796 98 N 32 937.69 W 103 39 19.34
Landing Point Turn 2*/100ft	8400.00 8500.00 8500.00 8500.00 8700.00 8300.00 9100.00 9100.00 9200.00 9300.00 9400.00 9500.00 9500.00 9600.00 9600.00 9600.00 9600.00 9600.00 9600.00 9600.00 1000.00 1000.00 10500.00 10500.00 10500.00 10500.00 10500.00 11111,73 11161,72 11200.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 11	8154, 38 8454, 38 8554, 38 8554, 38 8554, 38 8554, 38 8154, 38 9154, 38 915	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 17 333, 17 333, 17 34, 21 39, 70 38, 71 39, 73 39, 74 3	238, 30 238, 3	483, 98 483, 99 487, 97 477 477 477 477 477 477 477 477 477 4	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	422135.71 422135	709808.96 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.51 W 103 39 19.28 709808.96 N 32 931.51 W 103 39 19.28 709808.96 N 32 931.51 W 103 39 19.28 709808.96 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.50 W 103 39 19.37 709804.24 N 32 933.98 W 103 39 19.38 709804.24 N 32 933.98 W 103 39 19.33 709802.58 N 32 935.70 W 103 39 19.33 709802.58 N 32 935.70 W 103 39 19.33 709808.76 N 32 937.77 W 103 39 19.33 709808.98 N 32 937.77 W 103 39 19.33 709808.98 N 32 937.70 W 103 39 19.33 709809.89 N 32 937.70 W 103 39 19.33 709809.99 N
Landing Point Turn 2*/100ft	8500.00 8500.00 8500.00 8500.00 9000.00 9100.00 9200.00 9300.00 9500.00 9500.00 9500.00 9500.00 9500.00 9600.00 9700.00 9947.68 10000.00 10200.00 10200.00 10500.00 10500.00 10500.00 10500.00 10500.00 11111.73 11161.72 11200.00 11300.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	8554, 36 8754, 38 8754, 38 8954, 38 9054, 38 905	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 17 339, 17 339, 18 339, 73 387, 70 286, 11 333, 77 386, 03 586, 03 586, 03	238.30 23	483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 89 483, 8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	42135.71 422135.	708808.96 N 32 9 31.51 W 103 39 19.28 708808.97 N 32 9 31.51 W 103 39 19.28 708808.97 N 32 9 31.50 W 103 39 19.28 708805.57 N 32 9 31.50 W 103 39 19.28 708805.57 N 32 9 31.50 W 103 39 19.30 708805.57 N 32 9 33.84 W 103 39 19.30 708802.58 N 32 9 35.73 W 103 39 19.33 70880.76 N 32 9 35.73 W 103 39 19.33 70880.76 N 32 9 35.73 W 103 39 19.33 70880.76 N 32 9 37.77 W 103 39 19.33 70878.98 N 32 9 37.77 W 103 39 19.33 70878.98 N 32 9 37.75 W 103 39 19.33 70878.98 N 32 9 37.75 W 103 39 19.33 70878.98 N 32 9 37.75 W 103 39 19.33 70878.98 N 32 9 37.75 W 103 39 19.33 70878.98 N 32 9 37.75 W 103 39 19.33
Landing Point Turn 2*/100ft	8700.00 8900.00 9000.00 9100.00 9200.00 9200.00 9300.00 9400.00 9500.00 9600.00 9600.00 9800.00 9800.00 9900.00 9900.00 10200.00 10300.00 10300.00 10300.00 10300.00 10300.00 10300.00 10300.00 10300.00 10300.00 11111.73 11181.72 11180.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	8654, 36 8754, 38 8754, 38 8754, 38 8754, 38 9754, 38 9754, 38 9754, 38 9654, 38 9754, 38 9854, 38 9754, 38 9854, 38 10052, 57 10146, 29 10232, 58 10308, 82 10475, 00 10475, 00	239, 14 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 16 239, 1	238.30 238.68 248.68 268.67 486.65	483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 99 481, 57 477, 60 477, 60 477, 80 477, 80 477, 80 477, 80 477, 80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422136.70 422155.83 422190.37 422166.44 422305.13 422468.56 422562.52 422660.93 422708.53 422708.53	708808,96 N 32 931,51 W 103 39 19,28 708808,96 N 32 931,53 W 103 39 19,28 708808,97 N 32 931,53 W 103 39 19,28 708808,97 N 32 931,53 W 103 39 19,28 708808,97 N 32 932,55 W 103 39 19,28 708805,97 N 32 931,50 W 103 39 19,28 708805,97 N 32 933,18 W 103 39 19,33 70880,76 N 32 935,73 W 103 39 19,33 70880,76 N 32 935,70 W 103 39 19,33 70880,78 N 32 937,70 W 103 39 19,33 70880,78 N 32 937,77 W 103 39 19,33 70880,78 N 32 937,77 W 103 39 19,33 70879,78 N 32 937,75 W 103 39 19,33
Landing Point Turn 2*/100ft	8900.00 9100.00 9200.00 9200.00 9200.00 9300.00 9400.00 9500.00 9600.00 9800.00 9900.00 9900.00 9947.68 10000.00 10200.00 10200.00 10400.00 10500.00 10500.00 10500.00 10500.00 11111,73 11181,72 11200.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	8854, 36 8954, 38 9054, 38 9154, 36 9254, 36 9354, 36 9354, 36 9554, 38 9554, 38 9754, 38 9854, 38 10552, 57 10146, 29 10232, 58 10308, 62 10372, 71 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 17 239, 17 239, 18 239, 17 238, 78 218, 77 286, 11 333, 72 386, 01 586, 01 586, 03 586, 01	238.30 34.35 58.67 486.65 586.67 486.65 586.63	483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 88 483, 88 483, 88 483, 89 483, 93 481, 97 480, 73 476, 28 477, 80 477, 80 477, 90 470, 08	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422136.70 422155.83 422190.37 42240.64 422305.13 422468.56 422562.52 422660.93 422708.53 422708.53	708808.96 N 32 931.51 W 103 39 19.28 708808.97 N 32 931.57 W 103 39 19.28 708808.97 N 32 931.57 W 103 39 19.28 708808.97 N 32 931.57 W 103 39 19.28 708805.97 N 32 931.50 W 103 39 19.28 708805.97 N 32 935.94 W 103 39 19.33 708802.76 N 32 935.73 W 103 39 19.33 708802.76 N 32 935.73 W 103 39 19.33 708802.76 N 32 935.73 W 103 39 19.33 708802.76 N 32 937.70 W 103 39 19.33 70878.89 N 32 937.70 W 103 39 19.33 70878.89 N 32 937.70 W 103 39 19.33 70879.89 N 32 937.77 W 103 39 19.33 70879.89 N 32 937.77 W 103 39 19.33 70879.89 N 32 937.70 W 103 39 19.33 70879.98 N 32 937.75 W 103 39 19.33 70879.98 N 32 937.75 W 103 39 19.33
Landing Point Turn 2*/100ft	9000.00 9100.00 9200.00 9300.00 9300.00 9300.00 9500.00 9500.00 9700.00 9900.00 9947.68 16000.00 10100.00 10200.00 10500.00 10500.00 10500.00 10500.00 10600.00 11111.73 11161.72 11200.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	8954.36 9154.38 9154.38 9254.38 9354.38 9454.36 9854.36 9854.36 9854.36 9954.28 10252.57 10146.29 10272.71 10472.00 10475.00 10475.00 10475.00 10475.00	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 17 70, 184, 49 -134, 27 7, 05 93, 73 187, 70 286, 11 333, 72 386, 03 586, 03 586, 03	238. 30 238. 31 248. 47 488. 67 488. 67 486. 65 586. 67 486. 65	483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 88 483, 89 483, 89 483, 89 483, 59 482, 89 481, 97 480, 73 479, 26 477, 60 477, 60 477, 61 473, 00 472, 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422136.10 422155.83 422190.37 42240.64 422305.13 422305.13 42246.64 42246.64 42246	709808.96 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.51 W 103 39 19.28 709807.97 N 32 931.70 W 103 39 19.30 709804.24 N 32 933.84 W 103 39 19.30 709804.24 N 32 935.70 W 103 39 19.31 709802.58 N 32 935.70 W 103 39 19.31 709802.58 N 32 935.70 W 103 39 19.33 709800.78 N 32 937.77 W 103 39 19.33 709808.98 N 32 937.77 W 103 39 19.33 709809.89 N 32 937.77 W 103 39 19.33 709797.98 N 32 937.79 W 103 39 19.33
Landing Point Turn 2*/100ft	9200.00 9300.00 9300.00 9500.00 9500.00 9700.00 9900.00 9947.68 10000.00 10100.00 10200.00 10500.00 10500.00 10500.00 10500.00 10500.00 11111.73 11161.72 11200.00 11500.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	9154, 38 9254, 38 9354, 38 9454, 38 9554, 38 9554, 38 9554, 38 9854, 38 9802, 04 9954, 29 10252, 57 10146, 29 10232, 58 10308, 62 10372, 71 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 17 333, 72 386, 71 7, 05 93, 73 187, 70 286, 11 333, 72 386, 04 486, 03 586, 03 586, 03	238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.51 183.64 183.65 184.65 186.65 334.55 386.67 486.65 586.67	483 98 483 98 483 98 483 98 483 98 483 98 483 98 483 98 483 99 482 93 481 97 480 73 479 26 477 50 476 80 477 80 477 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	422135,71 422135,71 422135,71 422135,71 422135,71 422135,71 422135,71 422135,71 422135,71 422135,71 422136,70 422155,83 422190,37 42240,64 42305,13 422381,88 422488,56 422562,52 42260,93 427708,53 42708,53	708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.97 N 32 9 31.50 W 103 39 19.28 708808.97 N 32 9 32.50 W 103 39 19.28 708808.97 N 32 9 32.54 W 103 39 19.28 708805.71 N 32 9 33.18 W 103 39 19.29 708805.71 N 32 9 33.18 W 103 39 19.30 708804.24 N 32 9 33.80 W 103 39 19.30 708804.24 N 32 9 33.80 W 103 39 19.30 708800.78 N 32 9 35.73 W 103 39 19.33 708800.78 N 32 9 35.73 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.70 W 103 39 19.33 708798.98 N 32 9 37.70 W 103 39 19.33 708798.98 N 32 9 37.70 W 103 39 19.33 708798.98 N 32 9 37.70 W 103 39 19.33
Landing Point Turn 2*/100ft	\$300.00 \$400.00 \$400.00 \$500.00 \$600.00 \$600.00 \$900.00 \$900.00 \$947.00 \$000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1000.00 \$1111.73 \$11161.72 \$1120.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$1100.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00	0,00 0,00 0,00 0,00 0,00 0,00 5,23 15,23 25,23 35,23 45,23 55,23 75,23 85,23 85,23 85,23 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00	116.21 116.21 116.21 116.21 116.21 116.21 116.21 138.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	9354, 36 9454, 38 9554, 38 9654, 38 9754, 38 9854, 38 98902, 04 9954, 29 10052, 57 10146, 29 10232, 58 10308, 62 10372, 71 10475, 00 10475, 00	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 236, 76 219, 02 -184, 49 -134, 27 7, 70 286, 11 333, 72 386, 03 586, 01 597, 74	238.30 238.30 238.30 238.30 238.30 238.30 238.30 238.30 235.51 218.17 -183.64 -133.35 -68.67 7.88 94.56 188.53 286.64 334.55 386.67 486.65 586.67	483, 88 483, 88 483, 88 483, 88 483, 88 483, 89 483, 89 483, 89 483, 69 482, 83 481, 57 480, 73 479, 26 477, 60 476, 80 473, 91 473, 00 470, 08	0.00 0.00 0.00 0.00 0.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.10 422155.83 42240.64 422305.13 422305.13 422305.13 422305.13 422305.13 422708.53 422708.53	709808.96 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.53 W 103 39 19.28 709808.79 N 32 931.53 W 103 39 19.28 709808.79 N 32 932.54 W 103 39 19.28 709805.71 N 32 933.18 W 103 39 19.30 709805.71 N 32 933.18 W 103 39 19.30 709805.76 N 32 935.73 W 103 39 19.33 709802.58 N 32 935.73 W 103 39 19.33 709802.58 N 32 935.73 W 103 39 19.33 70979.98 N 32 937.70 W 103 39 19.38 70979.98 N 32 937.75 W 103 39 19.38 70979.98 N 32 937.75 W 103 39 19.38
Landing Point Turn 2*/100ft	\$500.00 \$600.00 \$700.00 \$800.00 \$800.00 \$900.00 \$947.88 \$900.00 \$947.88 \$10000.00 \$10100.00 \$10200.00 \$10300.00 \$10500.00 \$10500.00 \$10500.00 \$10700.00 \$10800.00 \$10800.00 \$111100.00 \$11111,73 \$11161,72 \$11200.00 \$11300.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$11500.00 \$12000.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 5.23 15.23 25.23 35.23 45.23 75.23 85.23 85.23 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	116.21 116.21 116.21 116.21 116.21 116.21 116.21 1358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90	9454. 36 9554. 38 9554. 38 9754. 38 9854. 38 9802. 04 9854. 22 10052. 57 10146. 22 10328. 52 10328. 62 10372. 71 10422. 22 10475. 00 10475. 00 10475. 00 10475. 00 10475. 00	239, 14 239, 14 239, 14 239, 14 239, 14 239, 14 239, 16 239, 16 239, 17 239, 17 34, 21 39, 70 38, 73 187, 70 286, 11 333, 72 386, 03 586, 03 586, 03	238.30 238.30 238.30 238.30 238.30 238.30 235.59 218.17 -183.54 -133.38 -68.87 7, 88 94.55 188.55 286.64 334.55 336.67 486.65 586.63	483, 98 483, 98 483, 98 483, 98 483, 98 483, 98 483, 93 483, 55 482, 93 481, 97 480, 73 479, 26 477, 80 475, 80 473, 91 473, 00 470, 08	0.00 0.00 0.00 0.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.71 422135.73 422100.37 42240.64 422305.13 422488.56 422488.56 422488.56 422488.56 422708.53 422708.53	709808.96 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.51 W 103 39 19.28 709808.97 N 32 931.50 W 103 39 19.28 709807.91 N 32 931.70 W 103 39 19.28 709807.91 N 32 932.54 W 103 39 19.28 709805.91 N 32 932.54 W 103 39 19.28 709805.91 N 32 932.54 W 103 39 19.30 709804.24 N 32 933.18 W 103 39 19.31 709802.58 N 32 936.70 W 103 39 19.31 709802.58 N 32 935.73 W 103 39 19.34 709798.89 N 32 935.70 W 103 39 19.34 709798.89 N 32 937.70 W 103 39 19.36 709797.98 N 32 937.70 W 103 39 19.36 709796.98 N 32 937.70 W 103 39 19.36
Landing Point Turn 2*/100ft	9700.00 9800.00 9800.00 9947.68 10000.00 10100.00 10200.00 10300.00 10500.00 10500.00 10500.00 10500.00 10500.00 10800.00 111100.00 111100.00 11111,73 11161,72 11200.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11000.00 11000.00 11000.00 11000.00 11000.00 11000.00 11000.00 11000.00	0.00 0.00 0.00 0.00 5.23 15.23 35.23 35.23 55.23 65.23 75.23 85.23 85.23 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	116.21 116.21 116.21 1358.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90 338.90	9654, 36 9754, 38 9854, 38 9802, 04 9854, 29 10052, 57 10146, 29 10232, 58 10308, 62 10372, 71 10422, 29 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00	239, 14 239, 14 239, 14 238, 76 219, 07 219, 07 218, 04 238, 77 7, 05 83, 73 187, 70 286, 11 333, 72 386, 04 486, 03 586, 01	238.30 238.30 238.30 238.30 235.51 218.17 183.54 133.36 -68.87 7,88 94.56 188.65 286.94 334.55 388.67 486.65	483,88 483,88 483,88 483,89 483,59 482,83 481,97 480,73 479,26 477,80 475,80 473,91 473,00 470,08	0.00 0.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	422135.71 422135.71 422135.71 422135.71 422135.71 422136.10 422155.83 422190.37 422240.64 422305.13 422381.88 422468.56 422562.52 422660.93 422708.53	708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.97 N 32 9 31.51 W 103 39 19.28 708808.97 N 32 9 31.50 W 103 39 19.28 708808.97 N 32 9 32.54 W 103 39 19.28 708805.97 N 32 9 32.54 W 103 39 19.28 708805.97 N 32 9 33.84 W 103 39 19.31 708804.24 N 32 9 33.84 W 103 39 19.31 709802.58 N 32 9 34.80 W 103 39 19.31 709802.58 N 32 9 35.73 W 103 39 19.33 709807.88 N 32 9 35.73 W 103 39 19.34 709780.89 N 32 9 35.70 W 103 39 19.34 709780.89 N 32 9 37.70 W 103 39 19.34 709780.89 N 32 9 37.70 W 103 39 19.34 709789.89 N 32 9 37.70 W 103 39 19.34 709789.89 N 32 9 37.70 W 103 39 19.34 709789.89 N 32 9 37.70 W 103 39 19.34 709789.89 N 32 9 37.70 W 103 39 19.34
Landing Point Turn 2*/100ft	9800.00 9907.68 10000.00 10100.00 10200.00 10500.00 10500.00 10500.00 10500.00 10500.00 10600.00 11000.00 111100.00 11111.73 11161.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00	0.00 0.00 5.23 15.23 25.23 25.23 45.23 45.23 65.23 65.23 65.23 69.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	116.21 116.21 116.21 1358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 359.90 359.90	9754.38 9802.04 9854.29 10052.57 10146.29 10232.55 10308.62 10372.71 10422.29 10475.00 10475.00 10475.00 10475.00 10475.00 10475.00 10475.00	239, 14 239, 14 239, 14 236, 76 219, 02 184, 48 134, 21 7, 05 93, 73 187, 70 286, 11 333, 72 386, 04 486, 03 586, 01	238.30 238.30 235.51 216.17 1-183.64 1-33.36 4-68.67 7.88 94.56 188.53 286.94 334.55 386.87 486.85 586.87	483 88 483 88 483 89 483 59 482 89 481 97 480 73 477 50 477 50 475 80 473 91 473 00 472 00 470 08	0.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 0.00	422135.71 422135.71 422135.71 422135.10 422155.83 422180.37 422240.64 422305.13 422381.88 422468.56 422562.52 422660.93 422708.53	708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.96 N 32 9 31.51 W 103 39 19.28 708808.91 N 32 9 31.51 W 103 39 19.28 708808.57 N 32 9 31.70 W 103 39 19.28 708807.91 N 32 9 32.05 W 103 39 19.28 708806.95 N 32 9 32.54 W 103 39 19.28 708806.95 N 32 9 32.54 W 103 39 19.30 708804.24 N 32 9 33.18 W 103 39 19.30 708804.24 N 32 9 33.84 W 103 39 19.31 708802.58 N 32 9 34.80 W 103 39 19.33 708800.78 N 32 9 35.70 W 103 39 19.33 709879.89 N 32 9 37.17 W 103 39 19.36 709797.98 N 32 9 37.17 W 103 39 19.36 709797.98 N 32 9 37.79 W 103 39 19.36 709797.98 N 32 9 37.79 W 103 39 19.36
Landing Point Turn 2*/100ft	9947.88 10000.00 10100.00 10200.00 10300.00 10300.00 10500.00 10500.00 10700.00 10800.00 10800.00 11000.00 111100.00 111100.00 11111.73 11181.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11900.00 11900.00 11900.00 12000.00 12000.00	0.00 5.23 15.23 25.23 35.23 45.23 45.23 65.23 65.23 65.23 69.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	116.21 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 359.90 359.90	8902, 04 9954, 29 10052, 57 10146, 29 10232, 58 10308, 62 10372, 71 10422, 29 10476, 07 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00 10475, 00	-239,14 -236,76 -219,02 -184,49 -134,21 -89,71 7.05 93,73 187,70 286,11 333,72 385,04 486,03 586,01 597,74	-238.30 -235.91 -218.17 -183.64 -133.38 -68.87 7.88 94.56 188.53 286.94 334.55 386.87 486.85 586.83	483,98 483,59 482,93 481,97 480,73 479,26 477,60 475,80 473,91 473,00 472,00 470,08	0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 0.00	422135.71 422138.10 422155.83 422190.37 422240.64 422305.13 422381.88 422468.56 422562.52 422660.93 422760.65	709808,96 N 32 9 31,51 W 103 39 19,28 709808,97 N 32 9 31,70 W 103 39 19,28 709808,57 N 32 9 31,70 W 103 39 19,28 709806,95 N 32 9 32,55 W 103 39 19,28 709806,95 N 32 9 32,54 W 103 39 19,29 709805,71 N 32 9 33,18 W 103 39 19,30 709804,24 N 32 9 33,34 W 103 39 19,31 709802,58 N 32 9 36,70 W 103 39 19,33 709800,78 N 32 9 35,73 W 103 39 19,34 709798,89 N 32 93,70 W 103 39 19,36 709796,98 N 32 93,71 W 103 39 19,36 709796,98 N 32 93,75 S W 103 39 19,36 709796,98 N 32 93,75 S W 103 39 19,36
Landing Point Turn 2*/100ft	1000.00 10100.00 10200.00 10300.00 10300.00 10500.00 10500.00 10500.00 10700.00 10800.00 10800.00 11000.00 11100.00 11100.00 11101.73 11161.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11900.00 12000.00	15 23 25 23 35 23 45 23 65 23 65 23 65 23 85 23 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 358.90 359.90 359.90	10052,57 10146,29 10232,58 10308,82 10372,71 10422,29 10473,02 10473,00 10475,00 10475,00 10475,00 10475,00 10475,00 10475,00	219.02 -184.49 -134.21 -59.71 7.05 93.73 187.70 285.11 333.72 385.04 486.03 586.01 597.74	-218.17 -183.64 -133.36 -68.87 7.88 94.56 188.53 286.94 334.55 386.87 486.85 586.83	483.59 482.93 481.97 480.73 479.26 477.60 475.80 473.91 473.00 472.00 470.08	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 0.00	422155.83 422190.37 422240.64 422305.13 422381.88 422468.56 422562.52 422660.93 422760.85	708808.57 N 32 9 31.70 W 103 39 19.28 708808.95 N 32 9 32.55 W 103 39 19.29 708808.95 N 32 9 32.54 W 103 39 19.29 708808.571 N 32 9 33.18 W 103 39 19.31 708804.24 N 32 9 33.94 W 103 39 19.31 709802.58 N 32 9 34.80 W 103 39 19.33 709800.78 N 32 9 35.73 W 103 39 19.34 709798.89 N 32 9 35.73 W 103 39 19.36 709798.98 N 32 9 37.70 W 103 39 19.36 709798.98 N 32 9 37.70 W 103 39 19.36 709798.98 N 32 9 37.70 W 103 39 19.37
Turn 2*/190ft	10200.00 10300.00 10400.00 10500.00 10500.00 10700.00 10800.00 10807.67 10900.00 11100.00 111107.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11900.00 12000.00	25,23 35,23 45,23 55,23 75,23 65,23 75,23 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00	358,90 358,90 358,90 358,90 358,90 358,90 358,90 358,90 358,90 358,90 359,90 359,90	10146,29 10232,58 10308,82 10372,71 10422,29 10456,07 10475,00 10475,00 10475,00 10475,00 10475,00 10475,00 10475,00 10475,00	-184,49 -134,21 -59,71 -7.05 93,73 187,70 286,11 333,72 385,04 486,03 586,01 597,74	-183,64 -133,36 -68,87 7,88 94,56 188,53 286,94 334,55 386,87 486,85 588,83	482.93 481.97 480.73 479.26 477.60 475.80 473.91 473.00 472.00 470.08	10.00 10.00 10.00 10.00 10.00 10.00 10.00 0.00	422190.37 422240.64 422305.13 422381.88 422468.56 422562.52 422660.93 422708.53 422760.85	708807.91 N 32 9 32.05 W 103 39 19.29 708808.95 N 32 9 32.54 W 103 39 19.29 708805.71 N 32 9 33.18 W 103 39 19.30 708802.56 N 32 9 33.84 W 103 39 19.31 708802.56 N 32 9 34.60 W 103 39 19.33 708802.68 N 32 9 35.73 W 103 39 19.33 708708.89 N 32 9 37.70 W 103 39 19.33 708797.98 N 32 9 37.17 W 103 39 19.36 709797.98 N 32 9 37.17 W 103 39 19.36 709796.98 N 32 9 37.59 W 103 39 19.37
Turn 2*/190ft	10400.00 10500.00 10500.00 10500.00 10700.00 10800.00 10807.67 10900.00 11100.00 11111.73 11161.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 11500.00 12000.00	45,23 55,23 75,23 85,23 80,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00 90,00	358,90 358,90 358,90 358,90 358,90 358,90 358,90 358,90 359,90 359,90	10308.82 10372.71 10422.29 10456.07 10473.02 10475.00 10475.00 10475.00 10475.00 10475.00 10475.00	-59.71 7.05 93.73 187.70 286.11 333.72 385.04 486.03 586.01 597.74	-68.87 7.88 94.56 188.53 286.94 334.55 386.87 486.85 586.83	480.73 479.26 477.60 475.80 473.91 473.00 472.00 470.08	10.00 10.00 10.00 10.00 10.00 10.00 0.00	422305,13 422381,88 422468,56 422562,52 422660,93 422708,53 422760,85	709805.71 N 32 9 33.18 W 103 39 19.30 709804.24 N 32 9 33.84 W 103 39 19.31 709802.58 N 32 9 34.80 W 103 39 19.33 709800.76 N 32 9 35.73 W 103 39 19.33 70978.89 N 32 9 35.70 W 103 39 19.36 709796.98 N 32 9 37.17 W 103 39 19.36 709796.98 N 32 9 37.59 W 103 39 19.37
Turn 2*/190ft	10500.00 10600.00 10700.00 10800.00 10807.67 10900.00 11100.00 11111.73 11161.72 11200.00 11300.00 11500.00 11500.00 11800.00 11800.00 12000.00 12000.00	55.23 65.23 75.23 85.23 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358,90 358,90 358,90 358,90 358,90 358,90 358,90 358,90 359,90 359,90	10372,71 10422,29 10456,07 10473,02 10475,00 10475,00 10475,00 10475,00 10475,00 10475,00	7.05 93.73 187.70 286.11 333.72 386.04 486.03 586.01 597.74	7,88 94,56 188,53 286,94 334,55 386,87 486,85 586,83	479,26 477,60 475,80 473,91 473,00 472,00 470,08	10,00 10,00 10,00 10,00 0,00 0,00	422468.56 422562.52 422660.93 422708.53 422760.85	70980258 N 32 9 34.80 W 103 39 19.33 709800.76 N 32 9 35.73 W 103 39 19.34 709798.89 N 32 9 37.77 W 103 39 19.36 709799.8 N 32 9 37.77 W 103 39 19.36 709796.98 N 32 9 37.69 W 103 39 19.37
Turn 2*/190ft	10700.00 10847.67 10940.00 10847.67 10900.00 11100.00 11111.73 11161.72 11200.00 11300.00 11500.00 11500.00 11500.00 11500.00 11500.00 11900.00 12000.00 12000.00	75.23 85.23 80.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358.90 358.90 358.90 358.90 358.90 358.90 359.90 359.90 359.90	10456.07 10473.02 10475.00 10475.00 10475.00 10475.00 10475.00 10475.00	187,70 286,11 333,72 386,04 486,03 586,01 597,74	188,53 286,94 334,55 388,87 486,85 586,83	475,80 473,91 473,00 472,00 470,08	10,00 10,00 10,00 0,00 0,00	422562.52 422660.93 422708.53 422760.85	709800.76 N 32 9 35.73 W 103 39 19.34 709798.89 N 32 9 36.70 W 103 39 19.36 709797.98 N 32 9 37.17 W 103 39 19.36 709796.98 N 32 9 37.69 W 103 39 19.37
Turn 2*/190ft	10847.67 10900.00 11000.00 11100.00 11111.73 11161.72 11200.00 11300.00 11400.00 11500.00 11600.00 11900.00 12000.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358.90 358.90 358.90 358.90 358.90 359.90 359.90 359.90	10475.00 10475.00 10475.00 10475.00 10475.00 10475.00 10475.00	333,72 386,04 486,03 586,01 597,74	334,55 386,87 486,85 586,83	473,00 472,00 470,08	10,00 0,00 0,00	422708.53 422760,85	709797.98 N 32 9 37.17 W 103 39 19.36 709796.98 N 32 9 37.69 W 103 39 19.37
Turn 2*/190ft	10900.00 11000.00 11100.00 11111.73 11161.72 11200.00 11300.00 11500.00 11600.00 11700.00 11800.00 11900.00 12000.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358,90 358,90 358,90 358,90 359,90 359,90 359,90	10475,00 10475,00 10475,00 10475,00 10475,00 10475,00	386,04 486,03 586,01 597,74	386,87 486,85 586,83	472.00 470,08	0.00 0.00	422760,85	709796.98 N 32 9 37 69 W 103 39 19 37
	11100.00 11111,73 11161,72 11200.00 11300.00 11500.00 11500.00 11700.00 11800.00 11900.00 12000.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	358,90 358,90 359,90 359,90 359,90 359,90	10475,00 10475,00 10475,00 10475,00	586,01 597,74	586,83		0,00		
	1111,73 11161,72 11200,00 11300,00 11400,00 11500,00 11600,00 11700,00 11800,00 11900,00 12000,00	90.00 90.00 90.00 90.00 90.00 90.00 90.00	358.90 359.90 359.90 359.90 359.90	10475.00 10475.00 10475.00	597,74	598.55	468,17	0,00	422960,80	709793.15 N 32 9 39.67 W 103 39 19.40
нов	11200.00 11300.00 11400.00 11500.00 11500.00 11700.00 11800.00 11900.00 12000.00	90.00 90.00 90.00 90.00 90.00	359,90 359,90 359,90	10475,00		648,55	467,94 467,42	0.00 2.00	422972.53 423022,52	709792,92 N 32 9 39,79 W 103 39 19,40 709792,40 N 32 9 40,28 W 103 39 19,41
	11400.00 11500.00 11600.00 11700.00 11800.00 11900.00 12000.00	90,00 90,00 90,00	359,90		686,01	686,82	467.35	0.00	423060.79	709792,33 N 32 9 40,66 W 103 39 19 40
	11500.00 11600.00 11700.00 11800.00 11900.00 12000.00	90,00 90,00 90,00		10475,00 10475,00	786,01 886,01	786,82 888,82	467,18 467,01	0.00 0.00	423160,79 423260,79	709792.16 N 32 9 41,65 W 103 39 19,40 709791,99 N 32 9 42,64 W 103 39 19,39
	11700,00 11800,00 11900,00 12000,00 12100,00	90.00	359,80	10475.00	986,01	986,62	466,84	0,00	423360.78	709791,82 N 32 943,63 W 103 39 19,39
	11800,00 11900,00 12000,00 12100,00		359,90 359,90	10475.00 10475.00	1086.01 1186.01	1086,82 1186,82	466,67 468,50	0.00 0.00	423460,78 423560,77	709791,48 N 32 9 45,61 W 103 39 19,38
	12000,00 12100,00	90.00	359,90 359,90	10475,00 10475,00	1286,01 1386,01	1285,82 1388,82	466,33 466,16	0,00 0,00	423660,77 423760,76	709791.31 N 32 9 46.60 W 103 39 19.37 709791.14 N 32 9 47.59 W 103 39 19.37
	12100,00	90.00	359,90	10475,00	1486,01	1486,62	465,99	0,00	423860,76	709790.97 N 32 9 48.58 W 103 39 19.36
	12200.00	90,00 90,00	359,90 359,90	10475,00 10475,00	1586,01 1686,01	1586,82 1586,82	465,81 465,64	0.00 0.00	423960,75 424060,75	709780,78 N 32 9 49,57 W 103 39 19,35 709780,62 N 32 9 50,56 W 103 39 19,35
	12300,00	90,00	359,90	10475,00	1786,01	1785,82	465.47	0.00	424160.75 424260.74	709790.45 N 32 9 51.55 W 103 39 19.34 709790.28 N 32 9 52.54 W 103 39 19.34
	12400,00 12500,00	90,00 90,00	359,90 359,90	10475,00 10475,00	1886.01 1986.01	1886,82 1988,82	465,30 465,13	0.00 0,00	424380,74	709790.11 N 32 9 53.53 W 103 39 19.33
	12600,00 12700,00	90.00 90.00	359,90 359,90	10475,00 10475,00	2086.01 2186.01	2086,62 2186,82	464.96 464.79	0.00 0.00	424460.73 424560,73	709789,94 N 32 9 54,51 W 103 39 19,33 709789,77 N 32 9 55,50 W 103 39 19,32
	12800,00	90,00	359,90	10475,00	2286,01	2286,82	464.62	0,00	424650,72	709789.60 N 32 9 56.49 W 103 39 19.32
	12900.00 13000.00	90,00 90,00	359,90 359,90	10475,00 10475,00	2386,01 2486,01	2386,82 2486,82	464,45 484,28	0.00 0.00	424760,72 424880,71	709789,43 N 32 9 57,48 W 103 39 19,31 709789,26 N 32 9 58,47 W 103 39 19,31
	13100.00	90.00 80.00	359,90	10475,00 10475,00	2586.01 2686.01	2586,62 2686,62	464,10 463,93	0.00 0.00	424960.71 425060,71	709789,08 N 32 9 59,46 W 103 39 19,30 709788,91 N 32 10 0,45 W 103 39 19,30
	13200,00 13300,00	90,00	359,90 359,90	10475.00	2786,01	2786,82	463.76	0.00	425160,70	709768.74 N 32 10 1,44 W 103 39 19,29
	13400,00 13500,00	90,00 90,00	359,90 359,90	10475,00 10475,00	2886,01 2988,01	2886,82 2986,82	483,59 463,42	0,00 0,00	425260,70 425380,69	709788.57 N 32 10 2.43 W 103 39 19.29 709788.40 N 32 10 3.42 W 103 39 19.28
	13600,00	90,00	359.90	10475,00	3086.01	3086,82	453.25	0.00	425460.69	709768.23 N 32 10 4.41 W 103 39 19.27 709768.06 N 32 10 5.40 W 103 39 19.27
	13700,00 13800,00	90.00 90.00	359,90 359,90	10475,00 10475,00	3186,01 3286,01	3186,82 3286,82	463,08 462,91	0.00 0.00	425560,68 425660,68	709787,89 N 32 10 6,39 W 103 39 19,26
	13900,00 14000,00	90,00 90,00	359,90 359,90	10475,00 10475,00	3386,01 3486,01	3386.62 3486.62	482,74 482,57	0,00 0.00	425760,67 425860,67	709767.72 N 32 10 7.38 W 103 39 19.26 709767.55 N 32 10 8.37 W 103 39 19.25
	14100,00	90,00	359.90	10475.00	3586,01	3586.82	462,39	0.00	425960,67	709787.37 N 32 10 9.36 W 103 39 19.25
	14200,00 14300,00	90.00 90.00	359,90 359,90	10475,00 10475,00	3686.01 3786.01	3686,82 3786,82	462.22 462.05	0.00 0.00	426060,66 426160,66	709787.03 N 32 10 11 34 W 103 39 19 24
	14400,00	90,00 90,00	359,90 359,90	10475,00 10475,00	3886,01 3988,01	3886,82 3986,62	481,88 481,71	0.00 0.00	426260,65 426360,65	709786,86 N 32 10 12,33 W 103 39 19,23 709786,69 N 32 10 13,32 W 103 39 19,23
	14500,00 14600,00	90.00	359,90	10475.00	4086.01	4086,82	461.54	0.00	426460.64	709786,52 N 32 10 14.31 W 103 39 19.22
	14700,00 14800,00	90.00 90.00	359,90 359,90	10475,00 10475,00	4186,01 4286,01	4186,82 4286,82	461,37 461,20	0.00 0.00	426560,64 426660,63	709786,35 N 32 10 15,30 W 103 39 19,22 709786,18 N 32 10 16,28 W 103 39 19,21
	14900,00	90,00	359,90	10475,00	4386.01	4386,82	461.03	0.00	426760,63 426860,63	709786,01 N 32 10 17.27 W 103 39 19.21 709785,63 N 32 10 18.26 W 103 39 19.20
	15000,00 15100,00	90,00 90,00	359,90 359,90	10475,00 10475,00	4486.01 4586.01	4488.82 4586.82	460,85 460,68	0,00	426960,62	709785,66 N 32 10 19,25 W 103 39 19 19
	15200,00 15300,00	90,00 90,00	359,90 359,90	10475,00 10475,00	4686,01 4786,01	4686,82 4786,82	460,51 460,34	0.00 0.00	427060,62 427160,61	709785.49 N 32 10 20.24 W 103 39 19.19 709785.32 N 32 10 21.23 W 103 39 19.18
	15400,00	90,00	359,90	10475,00	4886,01	4886,82	460.17	0.00	427260,61	709785.15 N 32 10 22.22 W 103 39 19.18
	15500.00 15600,00	90.00 90.00	359,90 359,90	10475,00 10475,00	4986.01 5086.01	4986.82 5086,82	460,00 459,83	0.00 0.00	427360,60 427460,60	709784.98 N 32 10 23.21 W 103 39 19 17 709784.81 N 32 10 24.20 W 103 39 19 17
	15700,00	90,00 90,00	359,90 359,90	10475,00 10475,00	5186,01 5288,01	5186,82 5286,82	459.68 459.49	0,00 0,00	427560,60 427660,59	709784.64 N 32 10 25.19 W 103 39 19.16 709784.47 N 32 10 26.18 W 103 39 19.16
	15800,00 15900,00	90.00	359,90	10475,00	5386,01	5386.82	459,32	0.00	427760.59	709784,30 N 32 10 27,17 W 103 39 19,15
	16000.00 16100.00	90,00 90,00	359,90 359,90	10475,00 10475,00	5486,01 5586,01	5486,82 5586,82	459,14 458,97	0.00 0.00	427860,58 427960,58	709784,12 N 32 10 28,16 W 103 39 19,15 709783,95 N 32 10 29,15 W 103 39 19,14
	16200,00	90,00	359,90	10475.00	5686.01	5686,82	458,80 458,63	0.00	428060.57 428160.57	709763,78 N 32 10 30,14 W 103 39 19,14 709763,61 N 32 10 31,13 W 103 39 19,13
	16300.00 16400,00	90,00 90,00	359,90 359,90	10475,00 10475,00	5786.01 5886.01	5786.82 5886.82	458.46	0.00	428260.56	709783,44 N 32 10 32.12 W 103 39 19.13
	16500,00 16600,00	90,00 90,00	359,90 359,90	10475,00 10475,00	5988.01 6086,01	5986,82 6086,82	458.29 458.12	0.00 0.00	428360.56 428460.56	709763,27 N 32 10 33,11 W 103 39 19,12 709763,10 N 32 10 34,10 W 103 39 19,11
	16700,00	90,00	359.90	10475,00	6186,01	6186,82	457.95	0.00	428560,55	709782.93 N 32 10 35,09 W 103 39 19,11
	16800,00 16900,00	90,00 90,00	359,90 359,90	10475,00 10475,00	6286,01 6386,01	6288,82 6386,82	457,78 457,60	0,00 0,00	428660,55 428760,54	709782.76 N 32 10 36.08 W 103 39 19 10 709782.59 N 32 10 37.07 W 103 39 19 10
	17000.00	90,00	359,90	10475,00	6486,01	6486,61	457,43 457,28	0,00 0,00	428860,54 428960,53	709782.41 N 32 10 38.05 W 103 39 19.09 709782.24 N 32 10 39.04 W 103 39 19.09
	17100,00 17200,00	90,00 90,00	359,90 359,90	10475,00 10475,00	6586,01 6686,01	6586,81 6686,81	457.09	0.00	429060.53	709782.07 N 32 10 40,03 W 103 39 19,08
	17300,00 17400,00	90,00 90,00	359,90 359,90	10475,00 10475,00	6786,01 6886,01	6788,61 6886,61	456,92 456,75	0,00 0,00	429160,52 429260,52	709781,90 N 32 10 41.02 W 103 39 19.08 709781,73 N 32 10 42.01 W 103 39 19.07
	17500.00	90,00	359,90	10475,00	6986.01	6986,81	456,58	0,00	429360,52	709781.56 N 32 10 43.00 W 103 39 19.07 709781.39 N 32 10 43.99 W 103 39 19.06
	17600,00 17700,00	90,00 90,00	359,90 359,90	10475,00 10475,00	7086.01 7186.01	7085,81 7186,81	456,41 456,24	0,00 0,00	429460,51 429560,51	709781,22 N 32 10 44,98 W 103 39 19.06
	17800.00	90,00	359,90	10475,00	7286,01	7288,61	458,07 455,89	0,00 0,00	429680,50 429760,50	709781.05 N 32 10 45.97 W 103 39 19.05 709780.87 N 32 10 46.96 W 103 39 19.05
	17900,00 18000,00	90,00 90.00	359.90 359,90	10475,00 10475,00	7386,01 7486,01	7386,81 7486,81	455,72	0,00	429860,49	709780,70 N 32 10 47.95 W 103 39 19.04
	18100,00	90.00	359,90	10475,00	7586,01 7686,01	7588,81 7686,81	455,55 455,38	0,00 00,0	429960,49 430060,48	709780,53 N 32 10 48,94 W 103 39 19,03 709780,36 N 32 10 49,93 W 103 39 19,03
	18200,00 18300,00	90.00 90.00	359,90 359,90	10475,00 10475,00	7786,01	7788,81	455,21	0.00	430160,48	709780 19 N 32 10 50 92 W 103 39 19 02
LTP Cross	18336.69 18400,00	90.00 90.00	359.90 359.90	10475.00 10475.00	7822.69 7886,01	7823.50 7888,81	455.15 455.04	0.00 0.00	430197.17 430260,48	709780.13 N 32 10 51.28 W 103 39 19.02 709780.02 N 32 10 51.91 W 103 39 19.02
CO Grzzły 3 34 Fed 0057H - PBHL	18411.52	90,00	359,90	10475,00	7897,53	7898.34	455.02	0.00	430272,00	709780.00 N 32 10 52.02 W 103 39 19.02

Survey Type:

Def Plan

Survey Error Model:

ISCWSA Rev 3 *** 3-D 97,071% Confidence 3,0000 sigma

Comments	MD (ft)	inci (*)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	(ft)	DLS (*/100ft)	Northing (MUS)	Easting (ITUS)	Latitude (N/S * ' *)	Longitude (EW * ' '')
Survey Program: Description		Part	MD From (ft)	MD To (ff)	EOU Freq (ft)	Hote Size Casing Diameter		Expected Max Inclination (deg)	Survey Tool Type		Borehote / Survey	
	-	1	0.000	28.000	1/100.000	30.000	30,000		B001Ma_MWD+HDGM Only	VI-Depth	CO Grizzly 3 34 F Chevron CO Grizz 0057H Rev0 kFo	zly 3 34 Fed
		1	28,000	18411,525	1/100,000	30,000	30,000		B001Ma_MWD+H0	OGM	CO Grizzly 3 34 F	