Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER				FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. 6. If Indian, Allotee or Tribe Name		
1a. Type of work:   DRILL	EENTER			7. If Unit or CA Agreen	nent, Name and No.	
	other			8. Lease Name and Well No.		
1c. Type of Completion:   Hydraulic Fracturing	ingle Zone	Multiple Zone		[22	47071	
				•	4707]	
2. Name of Operator [215099]				9. API Well No. 30-	025-52012	
3a. Address	3b. Phone N	No. (include area coa	le)	10. Field and Pool, or E	Exploratory	
4. Location of Well (Report location clearly and in accordance	with any State	e requirements.*)		11. Sec., T. R. M. or Bl	k. and Survey or Area	
At surface						
At proposed prod. zone					1	
14. Distance in miles and direction from nearest town or post off	fice*			12. County or Parish	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	cres in lease	17. Spacir	g Unit dedicated to this	well	
<ul><li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li></ul>	19. Propose	ed Depth	20. BLM/	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will	start*	23. Estimated duration		
	24. Attac	chments				
The following, completed in accordance with the requirements o (as applicable)	f Onshore Oil	and Gas Order No.	1, and the H	ydraulic Fracturing rule	per 43 CFR 3162.3-3	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office</li> </ol>		Item 20 above). 5. Operator certific	cation.	s unless covered by an ex mation and/or plans as ma	-	
25. Signature	Name	e (Printed/Typed)		Da	ate	
Title						
Approved by (Signature)	Name	e (Printed/Typed)		Da	ate	
Title	Office	2				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to t	hose rights i	in the subject lease which	h 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					department or agency	
NGMP Rec 09/20/2023						
		TH CONDIT	IONS	KZ 09/21/20	Ď23	
SL INDRO	VED WI	III				
(Continued on page 2)				*(Instru	uctions on page 2)	

Approval Date: 09/13/2023



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### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT



#### Receive

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	State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division						nit Electronically E-permitting		
	1220 South St. Francis Dr. Santa Fe, NM 87505								
	Ν	NATURAL GA	AS MANA(	GEMENT PI	LAN				
This Natural Gas Manage	ement Plan n	<u>Section</u>	th each Applicat <b>1 – Plan D</b> <u>fective May 25,</u>	escription	Drill (AP	D) for a new o	r recompleted well.		
I. Operator: Cimarex Ene	ergy Company		OGRID:1	5099		_ <b>Date:</b> 1/11	/2023		
<ul> <li>II. Type:  Original I</li> <li>If Other, please describe:</li> <li>III. Well(s): Provide th to be recompleted from a</li> </ul>	e following	information for each	new or recomp	leted well or set of					
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		ipated ACF/D P	Anticipated roduced Water BBL/D		
ames 29-32 Federal Com 31H	-025-5201	B, Sec 29 T23S, R32E	413 FNL/1487	FEL 1057	26	665	3173		
IV. Central Delivery Po V. Anticipated Schedul or proposed to be recomp	int Name: _	James 20 East CTB	ation for each ne	w or recompleted	well or s				
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date		
James 29 Federal Com 31H		11/1/2023	11/21/2023	1/10/2024		1/24/2024	1/24/2024		
VI. Separation Equipmo VII. Operational Practi Subsection A through F o VIII. Best Management during active and planned	<b>ces:</b> 🛛 Atta of 19.15.27.8 <b>Practices:</b>	ch a complete descr NMAC.	iption of the act	ions Operator wil	l take to	comply with t	he requirements of		

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### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  $\Box$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII.** Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  $\Box$  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### <u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 $\boxtimes$  Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 $\Box$  Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:* 

**Well Shut-In.**  $\Box$  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  $\Box$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Sarah Jordan
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 1/11/2023
Phone: 432/620-1909
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

### From State of New Mexico, Natural Gas Management Plan

**VI. Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture.

### **XEC Standard Response**

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

## <u>Cimarex</u> <u>VII. Operational Practices</u>

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

- 1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
  - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
- 2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
- 3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
- 4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
- 5. Under routine production operations, Cimarex will not flare/vent unless:
  - a. Venting or flaring occurs due to an emergency or equipment malfunction.
  - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
  - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
  - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
  - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
  - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
  - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
  - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
- j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
- k. Venting or flaring occurs as a result of a packer leakage test.
- 1. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
- m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
- 6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
- 7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
- 8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
- 9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
  - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
  - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
- 10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
- 11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
  - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
- 12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

# VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- Workovers:
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
      - Blowdown to portable gas buster tank:
        - Vent to existing or portable flare if applicable.

### • Stock tank servicing:

- Minimize time spent with thief hatches open.
- When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
  - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
- Isolate the vent lines and overflows on the tank being serviced from other tanks.

### • Pressure vessel/compressor servicing and associated blowdowns:

- Route to flare where possible.
- Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
- Preemptively changing anodes to reduce failures and extended corrosion related servicing.
- When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

### • Flare/combustor maintenance:

- Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
- Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
- Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Cimarex
LEASE NO.:	NMNM0559539
LOCATION:	Section 29, T.23 S, R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	James 29-32 Fed Com 31H
SURFACE HOLE FOOTAGE:	413'/N & 1487'/E
<b>BOTTOM HOLE FOOTAGE:</b>	2542'/N & 330'/E

### COA

H <sub>2</sub> S	C Yes	💽 No		
Potash / WIPP	• None	C Secretary	C R-111-P	□ WIPP
Cave / Karst	• Low	C Medium	🖸 High	Critical
Wellhead	Conventional	Multibowl	C Both	C Diverter
Cementing	Primary Squeeze	Cont. Squeeze	EchoMeter	DV Tool
Special Req	Break Testing	Water Disposal	COM	🗖 Unit
Variance	Flex Hose	Casing Clearance	🗖 Pilot Hole	Capitan Reef
Variance	□ Four-String	□ Offline Cementing	🗖 Fluid-Filled	Open Annulus
		Batch APD / Sundry		

### 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 must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B. CASING**

- The 13-3/8 inch surface casing shall be set at approximately 1340 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. Excess calculates to 23%. Additional cement maybe required.
  - 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  $\underline{8}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to

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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.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at **4660ft**:

• 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 tail cement slurry due to cave/karst.

3. The minimum required fill of cement behind the 7 inch production casing is:

• Cement should tie-back at least **200 feet** into previous casing string. Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
- 5. Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 11%. Additional cement maybe required.**

### **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).
- 2. 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 casing shoe shall be **5000 (5M)** psi. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - a. 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.
  - b. Manufacturer representative shall install the test plug for the initial BOP test.
  - c. 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.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

### M Approval Date: 09/13/2023

### **D. SPECIAL REQUIREMENT (S)**

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

### **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

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV** (575) 361-2822

### Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

- (575) 689-5981
- 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

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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 2<sup>nd</sup> 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 **43 CFR part 3170 Subpart 3172** 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 doghouse 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.
- <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 integrity 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

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43
   CFR part 3170 Subpart 3172 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 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 43 CFR part 3170 Subpart 3172.

### 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.

ZS 8/29/2023

**Approval Date: 09/13/2023** 



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.

IAME:		Signed on: 04/04/2023
Title:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		
Field		
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

#### Received by OCD: 9/19/2023 7:10:48 AM

### **WAFMSS**

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

### **APD ID:** 10400088888

Operator Name: CIMAREX ENERGY COMPANY Well Name: JAMES 29-32 FEDERAL COM Well Type: OIL WELL

### Submission Date: 10/30/2022

1000

Zip: 79706

Well Number: 31H Well Work Type: Drill Highlighted data reflects the most recent changes <u>Show Final Text</u>

Section	1 - (	General	
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<b>APD ID:</b> 10400088888	Tie to previous NOS? N	Submission Date: 10/30/2022				
BLM Office: Carlsbad	User: KANICIA02 SCHLICHTING	Title: Regulatory Specialist				
Federal/Indian APD: FED	Is the first lease penetrated for p	Is the first lease penetrated for production Federal or Indian? FED				
Lease number: NMNM0559539	Lease Acres:					
Surface access agreement in place?	Allotted? Reserv	vation:				
Agreement in place? NO	Federal or Indian agreement:					
Agreement number:						
Agreement name:						
Keep application confidential? N						
Permitting Agent? NO	APD Operator: CIMAREX ENERG	Y COMPANY				
Operator letter of						

### **Operator Info**

Operator Organization Name: CIMAREX ENERGY COMPANY Operator Address: 6001 DEAUVILLE BLVD STE 300N Operator PO Box: Operator City: MIDLAND State: TX Operator Phone: (303)295-3995 Operator Internet Address: hknauls@cimarex.com

### **Section 2 - Well Information**

Well in Master Development Plan? NO	Master Development Plan nam	e:				
Well in Master SUPO? NO	Master SUPO name:					
Well in Master Drilling Plan? NO	Master Drilling Plan name:					
Well Name: JAMES 29-32 FEDERAL COM	Well Number: 31H	Well API Number:				
Field/Pool or Exploratory? Field and Pool	Field Name: SAND DUNES	<b>Pool Name:</b> BONE SPRING, SOUTH				

Application Data 09/19/2023

and the

**Operator Name: CIMAREX ENERGY COMPANY** Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

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

Is the proposed well in a Helium produ	iction area? N	Use Existing Well Pad?	Y	New surface disturbance? Y
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name	: James	Number: 39H
Well Class: HORIZONTAL		29 Fed Com W2E2 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: 24 Miles	Distance to ne	arest well: 20 FT	Distanc	e to lease line: 413 FT
Reservoir well spacing assigned acres	Measurement	: 240 Acres		
Well plat: JAMES_29_32_FEDERAL	_COM_31H_C_	102_20230713144240.pdf		
Well work start Date: 05/14/2023		Duration: 30 DAYS		
Section 3 - Well Location	Table			
Survey Type: RECTANGULAR				
Describe Survey Type:				
Datum: NAD83		Vertical Datum: NAVD88	3	
Survey number: 23782		Reference Datum: GRO	JND LE	VEL

Will this well produce Aliquot/Lot/Tract -ease Number EW Indicator NS Indicator -ongitude ease Type Elevation EW-Foot from this Meridian NS-Foot -atitude Section County Range Twsp State TVD QМ Aliquot 413 FNL 148 FEL 23S 32E 29 32.28165 LEA NEW F NMNM 368 0 Ν NEW 0 103.6929 MEXI MEXI 055953 7 6 8 NWNE 64 CO CO 9 KOP 413 FNL FEL 23S 32E 29 Aliquot NEW F 148 32.28165 LEA NEW NMNM 114 113 Ν 103.6929 MEXI MEXI 055953 765 83 38 7 6 NWNE 64 CO CO 0 9 PPP 100 FNL 23S 32E Aliquot NEW F 330 FEL 29 32.28252 LEA NEW NMNM 125 119 Ν 8 103.6892 MEXI MEXI 055953 824 33 30 NENE CO

22

CO

9

Wellbore

SHL

Leg

#1

Leg

#1

Leg

#1-1

Page 2 of 3

2

### Well Name: JAMES 29-32 FEDERAL COM

### Well Number: 31H

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	TVD	Will this well produce from this
	0	FSL	330	FEL	23S	32E		Aliquot	32.26827 6	- 103.6892	LEA	NEW MEXI	NEW	S	STATE	- 824	168 48	119 30	Y
Leg #1-2								NESE	0	103.0092		CO	CO			2	40	30	
	254	FNL	330	FEL	23S	32E	32	Aliquot	32.26128	-	LEA	NEW	NEW	S	STATE	-	193	119	Y
Leg	2		'					SENE	9	103.6892		MEXI				824	90	30	
#1			!							07		со	со			2			
BHL		FNL	330	FEL	23S	32E	32	Aliquot	32.26128		LEA	1	NEW	S	STATE	-	193	119	Y
Leg	2	1 '	'			'		SENE		103.6892		MEXI	MEXI CO			824 2	90	30	1
#1		1 '	'							07		со	00			2			



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

APD ID: 10400088888

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Type: OIL WELL

Well Number: 31H Well Work Type: Drill

Submission Date: 10/30/2022

Highlighted data reflects the most recent changes

09/19/2023

Drilling Plan Data Report

Show Final Text

### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12114659	RUSTLER	3688	1090	1090	ANHYDRITE	USEABLE WATER	N
12114660	TOP SALT	2288	1400	1400	SALT	NONE	N
12114661	BASE OF SALT	-1027	4715	4715	SALT	NONE	N
12114662	LAMAR	-1052	4740	4740	SANDSTONE	NONE	N
12114663	BELL CANYON	-1128	4816	4816	SANDSTONE	NONE	N
12114664	CHERRY CANYON	-1991	5679	5679	SANDSTONE	NONE	N
12114665	BRUSHY CANYON	-3279	6967	6967	SANDSTONE	NATURAL GAS, OIL	N
12114666	BONE SPRING LIME	-4982	8670	8670	LIMESTONE	NATURAL GAS, OIL	N
12114667	BONE SPRING 1ST	-6092	9780	9780	SANDSTONE	NATURAL GAS, OIL	N
12114668	BONE SPRING 2ND	-6539	10227	10227	SANDSTONE	NATURAL GAS, OIL	N
12114658	BONE SPRING 3RD	-8222	11910	11910	SANDSTONE	NATURAL GAS, OIL	Y

### **Section 2 - Blowout Prevention**

### Pressure Rating (PSI): 2M

Rating Depth: 1140

**Equipment:** A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

### Requesting Variance? YES

**Variance request:** Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Well Name: JAMES 29-32 FEDERAL COM

#### Well Number: 31H

**Testing Procedure:** A multi-bowl wellhead system will be utilized. After running the 13-3/8" surface casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 2000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 2000 psi test. Annular will be tested to working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendors representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder, monitored by the wellhead vendor representative. .All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 2000 psi. Slips will be utilized after running and cementing the production casing. After installation of the slips and wellhead on the production casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 2000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 2000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

### **Choke Diagram Attachment:**

James\_29\_Fed\_Com\_23H\_32H\_Choke\_2M\_3M\_20221030150723.pdf

### **BOP Diagram Attachment:**

James\_29\_Fed\_Com\_23H\_32H\_BOP\_2M\_20221030150747.pdf

### Pressure Rating (PSI): 3M

### Rating Depth: 4884

**Equipment:** A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

#### Requesting Variance? YES

**Variance request:** Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

**Testing Procedure:** A multi-bowl wellhead system will be utilized. After running the 9-5/8" surface casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendors representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder, monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi. Slips will be utilized after running and cementing the production casing. After installation of the slips and wellhead on the production casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

### **Choke Diagram Attachment:**

James\_29\_Fed\_Com\_23H\_32H\_Choke\_2M\_3M\_20221030151255.pdf

### **BOP Diagram Attachment:**

Well Name: JAMES 29-32 FEDERAL COM

James\_29\_Fed\_Com\_23H\_32H\_Choke\_2M\_3M\_20221030151255.pdf

James\_29\_Fed\_Com\_23H\_32H\_BOP\_3M\_20221030151318.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12232

**Equipment:** A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

### Requesting Variance? YES

**Variance request:** Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

**Testing Procedure:** A multi-bowl wellhead system will be utilized. After running the 7" surface casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendors representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder, monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Slips will be utilized after running and cementing the production casing. After installation of the slips and wellhead on the production casing, a 13 5/8 BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

### Choke Diagram Attachment:

James\_29\_Fed\_Com\_23H\_32H\_Choke\_5M\_20221030151411.pdf

### **BOP Diagram Attachment:**

James\_29\_Fed\_Com\_23H\_32H\_BOP\_5M\_20221030151435.pdf

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

### 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	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1140	0	1140	3688	2548	1140	H-40	48	ST&C	1.5	3.5	BUOY	5.88	BUOY	5.88
2		12.2 5	9.625	NEW	API	N	0	4884	0	4796	3688	-1108	4884	HCK -55	40	LT&C	1.48	1.54	BUOY	2.92	BUOY	2.92
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11482	0	11482	3688	-7794	11482	L-80	29	LT&C	1.3	1.52	BUOY	1.7	BUOY	1.7
4	PRODUCTI ON	8.75	7.0	NEW	API	N	11482	12232	11482	11890	-7794	-8202	750	P- 110	29	BUTT	1.53	2.02	BUOY	78.5 2	BUOY	78.5 2
5	COMPLETI ON SYSTEM	6	4.5	NEW	API	N	10482	19390	10482	11930	-6794	-8242	0000	P- 110	11.6	BUTT	1.36	1.92	BUOY	21.8 5	BUOY	21.8 5

### **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

JAMES\_29\_32\_FEDERAL\_COM\_CASING\_ASSUMPTIONS\_20230403153742.pdf

Received by OCD: 9/19/2023 7:10:48 AM

**Operator Name: CIMAREX ENERGY COMPANY** 

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

Са	sing Attachments		
	Casing ID: 2	String	INTERMEDIATE
	Inspection Document:		
	Spec Document:		
	Tapered String Spec:		
	Casing Design Assumpt	ions and Wo	rksheet(s):
	JAMES_29_32_FEI	DERAL_COM	_CASING_ASSUMPTIONS_20230403153842.pdf
	Casing ID: 3	String	PRODUCTION
	Inspection Document:		
	Spec Document:		
	Tapered String Spec:		
	Casing Design Assumpt	ions and Wo	rksheet(s):
	JAMES_29_32_FEI	DERAL_COM	_CASING_ASSUMPTIONS_20230403153952.pdf
	Casing ID: 4	String	PRODUCTION
	Inspection Document:		
	Spec Document:		
	Tapered String Spec:		
	Casing Design Assumpt	ions and Wo	rksheet(s):
	JAMES_29_32_FEI	DERAL_COM	_CASING_ASSUMPTIONS_20230403154134.pdf

Received by OCD: 9/19/2023 7:10:48 AM

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

Casing ID:5StringCOMPLETION SYSTEM

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

JAMES\_29\_32\_FEDERAL\_COM\_CASING\_ASSUMPTIONS\_20230403154315.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0		0	0

SURFACE	Lead		0	1140	553	1.72	13.5	951	45	Class C	Bentonite
SURFACE	Tail		0	1140	148	1.34	14.8	198	45	Class C	LCM
INTERMEDIATE	Lead		0	4884	921	1.88	12.9	1731	50	35:65 (POZ:C)	Salt + Bentonite
INTERMEDIATE	Tail		0	4884	286	1.34	14.8	383	50	Class C	LCM
PRODUCTION	Lead	48	884	1253 3	418	3.64	10.3	1521	25	Tuned Light	LCM
PRODUCTION	Tail	4	88	1253 3	125	1.36	14.8	170	25	Class C	Retarder
COMPLETION SYSTEM	Lead		253 3	1939 0	535	1.3	14.2	696	10	50:50 (POZ:H)	Salt + Bentonite + Fluid Loss + Dispersant + SMS

Released to Imaging: 9/21/2023 3:02:23 PM

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

### 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 will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

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 (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1140	OTHER : Fresh Water	7.83	8.33							
1140	4884	OTHER : Brine Water	9.8	10.3							
4884	1253 3	OTHER : Cut Brine or OBM	8.5	9							
1253 3	1939 0	OIL-BASED MUD	8.5	9							

**Received by OCD: 9/19/2023 7:10:48 AM** 

**Operator Name: CIMAREX ENERGY COMPANY** 

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

### Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: No DST Planned

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

GAMMA RAY LOG, COMPENSATED NEUTRON LOG, DIRECTIONAL SURVEY,

### Coring operation description for the well:

N/A

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5583

Anticipated Surface Pressure: 2958

Anticipated Bottom Hole Temperature(F): 187

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

Describe:

Contingency Plans geoharzards description:

**Contingency Plans geohazards** 

Hydrogen Sulfide drilling operations plan required? YES

### Hydrogen sulfide drilling operations

JAMES\_29\_32\_FEDERAL\_COM\_31H\_H2S\_20230404080311.pdf

### **Section 8 - Other Information**

### Proposed horizontal/directional/multi-lateral plan submission:

JAMES\_29\_32\_FEDERAL\_COM\_31H\_AC\_Report\_20230404081220.pdf JAMES\_29\_32\_FEDERAL\_COM\_31H\_DIRECTIONAL\_PLANS\_20230404081220.pdf

### Other proposed operations facets description:

### Other proposed operations facets attachment:

 $\mathsf{JAMES\_29\_32\_FEDERAL\_COM\_31H\_DRILL\_PLANS\_20230404081234.pdf}$ 

### Other Variance attachment:

James\_29\_Federal\_Com\_31H\_Multibowl\_13.375\_20221030230818.pdf James\_29\_Fed\_Com\_23H\_32H\_Flex\_Hose\_20221030152227.pdf Offline\_Cement\_Procedure\_20221029113736.pdf



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										65
Hole Size	Casing Depth From	Casing Depth Casing Depth Setting From To Depth T	9	Casing Size	Weight Grade (lb/ft)	Grade	Conn.	SF Collapse SF Burst SF Tension	SF Burst	SF Tension
17 1/2	0	1140		1140 13-3/8"	48.00 H-40	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884		4796 9-5/8"	40.00	40.00 HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	4	29.00 L-80	L-80	LT&C	131	1.52	1.70
8 3/4	11482	12232	11890 7-	1	29.00	29.00 P-110	BT&C	153	2.02	78.52
9	10482	19390		11930 4-1/2"	11.60	11.60 P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum S	BLM Minimum Safety Factor	1.125		1.6 Dry 1.8 Wet

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Hole Size	Casing Depth From	Casing Depth Casing Depth Setting From To Depth T	9	Casing Size	Weight Grade (lb/ft)	Grade	Conn.	SF Collapse SF Burst SF Tension	SF Burst	SF Tension
17 1/2	0	1140		1140 13-3/8"	48.00 H-40	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884		4796 9-5/8"	40.00	40.00 HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	1	29.00 L-80	L-80	LT&C	131	1.52	1.70
8 3/4	11482	12232	11890 7*	1	29.00	29.00 P-110	BT&C	153	2.02	78.52
9	10482	19390		11930 4-1/2"	11.60	11.60 P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum S	BLM Minimum Safety Factor	1.125		1.6 Dry 1.8 Wet

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Hole Size	Casing Depth From	Casing Depth Casing Depth Setting From To Depth T	9	Casing Size	Weight Grade (lb/ft)	Grade	Conn.	SF Collapse SF Burst SF Tension	SF Burst	SF Tension
17 1/2	0	1140		1140 13-3/8"	48.00 H-40	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884		4796 9-5/8"	40.00	40.00 HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	1	29.00 L-80	L-80	LT&C	131	1.52	1.70
8 3/4	11482	12232	11890 7*	1	29.00	29.00 P-110	BT&C	153	2.02	78.52
9	10482	19390		11930 4-1/2"	11.60	11.60 P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum S	BLM Minimum Safety Factor	1.125		1.6 Dry 1.8 Wet

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Hole Size	Casing Depth From	Casing Depth Casing Depth Setting From To Depth T	9	Casing Size	Weight Grade (lb/ft)	Grade	Conn.	SF Collapse SF Burst SF Tension	SF Burst	SF Tension
17 1/2	0	1140		1140 13-3/8"	48.00 H-40	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884		4796 9-5/8"	40.00	40.00 HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	1	29.00 L-80	L-80	LT&C	131	1.52	1.70
8 3/4	11482	12232	11890 7*	1	29.00	29.00 P-110	BT&C	153	2.02	78.52
9	10482	19390		11930 4-1/2"	11.60	11.60 P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum S	BLM Minimum Safety Factor	1.125		1.6 Dry 1.8 Wet

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Hole Size	Casing Depth Casing De From To	Casing Depth To	epth Setting Depth TVD	Casing Size	Weight Grade (lb/ft)	Grade	Conn.	SF Collapse SF Burst SF Tension	SF Burst	SF Tension
17 1/2	0	1140		1140 13-3/8"	48.00 H-40	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884		4796 9-5/8"	40.00	40.00 HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	4	29.00 L-80	L-80	LT&C	131	1.52	1.70
8 3/4	11482	12232	11890	4	29.00	29.00 P-110	BT&C	153	2.02	78.52
9	10482	19390		11930 4-1/2"	11.60	11.60 P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum S	BLM Minimum Safety Factor	1.125		1.6 Dry 1.8 Wet

All Company and Contract personnel admitted on location must be trained by a qualified

#### H2S safety instructor to the following:

- A. Characteristics of H<sub>2</sub>S
- B. Physical effects and hazards
- C. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

#### H<sub>2</sub>S Detection and Alarm Systems:

- A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
- В.

Β.

An audio alarm system will be installed on the derrick floor and in the top doghouse.

#### 3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
  - Windsock on the rig floor and / or top doghouse should be high enough to be visible.
- 4 Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H<sub>2</sub>S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.
- 5 <u>Well control equipment:</u>
  - A. See exhibit "E-1"
- 6 Communication:
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7 Drillstem Testing:

No DSTs r cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

#### H₂S Contingency Plan James 29 Federal Com 23H-25H, 31H,32H Cimarex Energy Co. Lea Co., NM

#### **Emergency Procedures**

In the event of a release of gas containing  $H_2S$ , 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 H<sub>2</sub>S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the 432-620-1975
- « 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:
  - · 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 ( $SO_2$ ). 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.

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Please see attached International Chemical Safety Cards.

#### **Contacting Authorities**

Cimarex Energy Co. of Colorado's personnel must liaise 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 including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

#### H<sub>2</sub>S Contingency Plan Emergency Contacts James 29 Federal Com 23H-25H, 31H,32H Cimarex Energy Co. Lea Co., NM

Cimarex Energy Co. of Colorad	ob	800-969-4789		
Co. Office and After-Hours Me	enu			
Key Personnel				
Name	Title	Office		Mobile
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485
Charlie Pritchard	Drilling Superintendent	432-620-1975		432-238-7084
Roy Shirley	Construction Superintendent			432-634-2136
<u>Artesia</u>				
Ambulance		911		
State Police		575-746-2703		
City Police		575-746-2703		
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning (	Committee	575-746-2122		
New Mexico Oil Conservation	on Division	575-748-1283		
Carlshad				
<u>Carlsbad</u> Ambulance		911		
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Planning (	Committee	575-887-6544		
US Bureau of Land Manage		575-887-6544		
		373 007 0311		
<u>Santa Fe</u>				
New Mexico Emergency Re	sponse Commission (Santa Fe)	505-476-9600		
New Mexico Emergency Re	sponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emerger	ncy Operations Center	505-476-9635		
National				
National Emergency Respon	nse Center (Washington, D.C.)	800-424-8802		
Medical				
Flight for Life - 4000 24th St	t.: Lubbock. TX	806-743-9911		
Aerocare - R3, Box 49F; Lub		806-747-8923		
	Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
	1 / sector destruction (			
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
Halliburton		575-746-2757		
B.J. Services		575-746-3569		





#### Coterra James 29-32 Federal Com 31H Rev2 kFc 30Mar23 Anti-Collision Summary Report

Analysis Date-24hr Time:	March 30, 2023 - 11:20
Client:	COTERRA
Field:	NM Lea County (NAD 83)
Structure:	Coterra James 29-32 Fede
Slot:	31H
Well:	James 29-32 Federal Com
Borehole:	James 29-32 Federal Com
Scan MD Range:	0.00ft ~ 19389.58ft

	Coterra James 29-32 Federal Com 31H
	31H
	James 29-32 Federal Com 31H
	James 29-32 Federal Com 31H
e:	0.00ft ~ 19389.58ft

Analysis Method: Reference Trajectory: Depth Interval: Rule Set: Min Pts: Version / Patch: Database \ Project:

3D Least Distance Coterra James 29-32 Federal Com 31H Rev2 kFc 30Mar23 (Def Plan) Every 10.00 Measured Depth (ft) NAL Procedure: D&M AntiCollision Standard S002 All local minima indicated. 2.10.834.0 localhost\drilling-project1

#### ISCWSA0 3-D 95.000% Confidence 2.7955 sigma Trajectory Error Model:

Offset Selection Criteria Wellhead distance scan: Selection filters:

Not performed! Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory	Separation	Allow	Sep.	Controlling	Reference Tr	rajectory		Risk Level		Alert	Status
	Ct-Ct (ft) MAS (ft) EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		1

Offset Trajectories Summary

#### Coterra James 29-32 Federal Co

Com	32H Rev2 kF	c 30Mar23 (I	Def Plan)									Fail N	lajor
	20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	20.00	16.50	17.50	3.50	24695.80	MAS = 5.03 (m)	23.00	23.00				WRP	
	20.00	20.07	5.79	-0.07	1.49	OSF1.50	1230.00	1230.00		OSF<1.50		Enter Minor	
	20.00	28.64	0.08	-8.64	1.00	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	20.02	28.78	-0.01	-8.77	1.00	OSF1.50	1810.00	1810.00			OSF<1.00	Enter Major	
	20.16	29.08	-0.06	-8.93	1.00	OSF1.50	1830.00	1830.00				MinPts	
	20.28	29.23	-0.04	-8.95	1.00	OSF1.50	1840.00	1840.00			OSF>1.00	Exit Major	
	31.75	32.48	9.26	-0.73	1.46	OSF1.50	2060.00	2059.64		OSF>1.50		Exit Minor	
	125.89	40.07	98.35	85.82	4.93	OSF1.50	2580.00	2570.44	OSF>5.00			Exit Alert	
	1081.48	83.87	1024.74	997.61	19.89	OSF1.50	5470.00	5361.96				MinPt-O-SF	
	1392.87	171.60	1277.64	1221.27	12.33	OSF1.50	11482.75	11337.52				MinPts	
_	1392.89	171.60	1277.66	1221.29	12.33	OSF1.50	11570.00	11424.43				MinPt-O-SF	
	1392.97	299.54	1192.44	1093.43	7.02	OSF1.50	19389.58	11930.00				MinPts	

### Coterra James 29 Federal Com 25H Rev1 kFc 27Sep22 (Def Plan)

89.43
89.43

									Warning Alert
89.43	32.81	86.93	56.62	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
89.43	32.81	86.93	56.62	81782.09	MAS = 10.00 (m)	23.00	23.00		WRP
89.43	32.81	69.51	56.62	4.99	MAS = 10.00 (m)	1800.00	1800.00	OSF<5.00	Enter Alert
83.78	34.88	59.70	48.91	3.77	OSF1.50	2220.00	2218.50		MinPt-CtCt
83.97	35.48	59.48	48.49	3.71	OSF1.50	2260.00	2258.03		MINPT-O-EOU
84.09	35.63	59.50	48.46	3.69	OSF1.50	2270.00	2267.89		MinPt-O-ADP
85.61	36.54	60.42	49.07	3.66	OSF1.50	2330.00	2326.98		MinPt-O-SF
132.58	41.70	103.95	90.89	4.98	OSF1.50	2680.00	2667.03	OSF>5.00	Exit Alert
1902.34	157.05	1796.81	1745.29	18.44	OSF1.50	10460.00	10314.77		MINPT-O-EOU
1902.40	157.12	1796.82	1745.28	18.43	OSF1.50	10470.00	10324.77		MinPt-O-ADP
1912.82	158.98	1806.00	1753.84	18.31	OSF1.50	10770.00	10624.77		MinPt-O-SF
2241.05	220.64	2093.12	2020.41	15.39	OSF1.50	16750.00	11930.00		MinPt-CtCt
2241.12	220.95	2092.99	2020.17	15.37	OSF1.50	16770.00	11930.00		MINPT-O-EOU
2241.23	221.10	2092.99	2020.13	15.36	OSF1.50	16780.00	11930.00		MinPt-O-ADP
2257.07	224.32	2106.69	2032.75	15.25	OSF1.50	17020.00	11930.00		MinPt-O-SF
3461.45	224.06	3311.24	3237.39	23.42	OSF1.50	19389.58	11930.00		TD

## Coterra James 29 Federal Com 24H Rev1 kFc 27Sep22 (Def Plan)

										Warning Alert
	99.99	32.81	97.49	67.18	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
	99.99	32.81	97.49	67.18	91713.83	MAS = 10.00 (m)	23.00	23.00		WRP
_	97.50	32.81	75.90	64.70	4.97	MAS = 10.00 (m)	1970.00	1969.90	OSF<5.00	Enter Alert
	85.91	36.70	60.61	49.21	3.66	OSF1.50	2340.00	2336.81		MinPt-CtCt
	86.07	37.16	60.47	48.92	3.62	OSF1.50	2370.00	2366.25		MINPT-O-EOU
	86.22	37.31	60.51	48.91	3.61	OSF1.50	2380.00	2376.05		MinPt-O-ADP
	87.32	37.92	61.20	49.40	3.59	OSF1.50	2420.00	2415.17		MinPt-O-SF
	141.36	44.22	111.05	97.15	4.99	OSF1.50	2840.00	2821.58	OSF>5.00	Exit Alert
	1030.95	152.99	928.13	877.97	10.25	OSF1.50	10150.00	10004.77		MINPT-O-EOU
	1031.02	153.07	928.14	877.95	10.25	OSF1.50	10160.00	10014.77		MinPt-O-ADP
	1033.24	153.85	929.83	879.38	10.22	OSF1.50	10270.00	10124.77		MinPt-O-SF
	1763.86	203.41	1627.42	1560.45	13.15	OSF1.50	16750.00	11930.00		MinPt-CtCt
	1763.98	203.84	1627.25	1560.14	13.12	OSF1.50	16770.00	11930.00		MINPT-O-EOU
	1764.32	204.25	1627.32	1560.07	13.10	OSF1.50	16790.00	11930.00		MinPt-O-ADP
	1782.95	208.39	1643.18	1574.55	12.97	OSF1.50	17010.00	11930.00		MinPt-O-SF
	3174.81	211.07	3033.27	2963.74	22.82	OSF1.50	19389.58	11930.00		TD

### Coterra James 29 Federal Com 23H Rev1 kFc 27Sep22 (Def

Plan)										Warning Alert
	113.12	32.81	110.62	80.31	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
	113.12	32.81	110.62	80.31	156100.00	MAS = 10.00 (m)	23.00	23.00		WRP
_	103.98	33.08	81.10	70.90	4.98	OSF1.50	2100.00	2099.45	OSF<5.00	Enter Alert
	88.02	38.24	61.69	49.78	3.59	OSF1.50	2440.00	2434.69		MinPt-CtCt
	88.14	38.55	61.60	49.59	3.56	OSF1.50	2460.00	2454.18		MINPT-O-EOU
	88.29	38.71	61.65	49.58	3.55	OSF1.50	2470.00	2463.91		MinPt-O-ADP
	89.13	39.17	62.18	49.96	3.54	OSF1.50	2500.00	2493.06		MinPt-O-SF
	130.78	47.22	98.47	83.57	4.30	OSF1.50	3050.00	3024.42		MinPt-O-SF
	215.28	66.40	170.18	148.88	4.99	OSF1.50	4320.00	4251.15	OSF>5.00	Exit Alert
_	407.87	124.15	324.27	283.71	5.00	OSF1.50	8080.00	7934.77	OSF<5.00	Enter Alert
	390.44	159.17	283.49	231.27	3.71	OSF1.50	10770.00	10624.77		MinPts
	473.34	145.85	375.28	327.49	4.93	OSF1.50	11130.00	10984.77	OSF>5.00	Exit Alert
	1089.58	190.83	961.52	898.75	8.66	OSF1.50	16740.00	11930.00		MinPt-CtCt
	1089.79	191.71	961.15	898.08	8.62	OSF1.50	16770.00	11930.00		MINPT-O-EOU
	1090.04	192.01	961.20	898.03	8.61	OSF1.50	16780.00	11930.00		MinPt-O-ADP
	1101.53	195.68	970.25	905.85	8.53	OSF1.50	16910.00	11930.00		MinPt-O-SF
	2857.32	201.12	2722.41	2656.20	21.56	OSF1.50	19389.58	11930.00		TD
30-025-42091 - James 29 Federal 039H - MWD to 13997ft										
- A (Def Survey)										Warning Alert
	106.36	32.81	103.86	73.55	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
	104.46	32.81	101.68	71.65	359.72	MAS = 10.00 (m)	10.00	10.00		MinPt-O-SF
	103.50	32.81	100.81	70.69	529.57	MAS = 10.00 (m)	20.00	20.00		MINPT-O-EOU

...James 29-32 Federal Com 31H\Coterra James 29-32 Federal Com 31H Rev2 kFc 30Mar23

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Offset Trajectory	s	Separation		Allow	Sep.	Controlling	Reference	Trajectory		Risk Level		Alert	Status
	Ct-Ct (ft) 103.40		EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	WRP	
	103.40 97.27	32.81 32.81	100.81 75.70	70.59 64.46	1148.96 4.97	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 1970.00	23.00 1969.90	OSF<5.00			Enter Alert	
	90.93	35.41	66.49	55.52	4.03	OSF1.50	2260.00	2258.03				MinPt-CtCt	
	91.08	35.85 36.00	66.35 66.37	55.23 55.20	3.98 3.97	OSF1.50	2290.00	2287.61 2297.47				MINPT-O-EOU	
	91.21 92.51	36.00	67.16	55.74	3.97	OSF1.50 OSF1.50	2300.00 2350.00	2297.47 2346.63				MinPt-O-ADP MinPt-O-SF	
	130.45	41.22	102.14	89.24	4.96	OSF1.50	2650.00	2638.05	OSF>5.00			Exit Alert	
	1162.89	131.62	1074.31	1031.27	13.48	OSF1.50	8800.00	8654.77				MinPts	
	876.09 2560.23	146.06 101.48	777.89 2491.74	730.04 2458.75	9.13 38.76	OSF1.50 OSF1.50	9590.00 12680.00	9444.77 11930.00				MinPts MinPt-CtCt	
	2560.29	101.62	2491.71	2458.67	38.71	OSF1.50	12700.00	11930.00				MINPT-O-EOU	
	2560.36	101.70	2491.72	2458.66	38.68	OSF1.50	12710.00	11930.00				MinPt-O-ADP	
	2571.82	108.44	2498.70	2463.38	36.38	OSF1.50	13210.00	11930.00				MinPt-CtCt	
	2572.02 2572.22	109.08 109.34	2498.46 2498.50	2462.94 2462.89	36.16 36.08	OSF1.50 OSF1.50	13260.00 13280.00	11930.00 11930.00				MINPT-O-EOU MinPt-O-ADP	
	2560.01	130.83	2471.95	2429.17	29.89	OSF1.50	14300.00	11930.00				MinPt-CtCt	
	2554.56	148.48	2454.74	2406.08	26.22	OSF1.50	15000.00	11930.00				MinPt-CtCt	
	2555.14	150.38	2454.05	2404.76	25.89	OSF1.50	15090.00	11930.00				MINPT-O-EOU	
	2556.47 2429.59	151.91 191.04	2454.36 2301.40	2404.56 2238.55	25.64 19.31	OSF1.50 OSF1.50	15160.00 16500.00	11930.00 11930.00				MinPt-O-ADP MinPt-CtCt	
	2429.69	191.33	2301.31	2238.36	19.28	OSF1.50	16520.00	11930.00				MINPT-O-EOU	
	2429.80	191.47	2301.32	2238.33	19.27	OSF1.50	16530.00	11930.00				MinPt-O-ADP	
	2461.05	196.37	2329.31	2264.69	19.02	OSF1.50	16890.00	11930.00				MinPt-O-SF	
	3777.00	207.43	3637.88	3569.57	27.63	OSF1.50	19389.58	11930.00				TD	
025-41363 - James Feder I ST01 - MWD to 13853ft													Worping Alort
Def Survey)	857.88	32.81	855.38	825.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	857.69	32.81	855.17	824.88	33781.45	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	857.62 857.62	32.81 32.81	855.11 855.03	824.81 824.81	120671.53 9466.25	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 40.00	23.00 40.00				WRP MinPts	
	863.02	32.61	849.53	830.21	9466.25 78.27	MAS = 10.00 (m) MAS = 10.00 (m)	1150.00	1150.00				MINPT-O-EOU	
	864.50	32.81	849.50	831.69	69.00	MAS = 10.00 (m)	1300.00	1300.00				MINPT-O-EOU	
	247.01	76.63	195.10	170.39	4.95	OSF1.50	4870.00	4782.41	OSF<5.00			Enter Alert	
	123.46 123.57	98.05 98.37	57.26 57.16	25.41 25.20	1.90 1.89	OSF1.50 OSF1.50	5760.00 5780.00	5642.08 5661.40				MinPt-CtCt MINPT-O-EOU	
	123.57 123.70	98.37 98.52	57.16	25.20 25.19	1.89 1.89	OSF1.50 OSF1.50	5780.00 5790.00	5661.40 5671.06				MINP1-0-EOU MinPts	
	264.40	111.73	189.08	152.67	3.60	OSF1.50	7230.00	7084.77				MinPt-CtCt	
	264.94	114.07	188.06	150.87	3.53	OSF1.50	7410.00	7264.77				MINPT-O-EOU	
	266.80 268.74	117.90 120.37	187.36 187.66	148.89 148.36	3.44 3.39	OSF1.50 OSF1.50	7700.00 7890.00	7554.77 7744.77				MINPT-O-EOU MinPt-O-ADP	
	268.74	120.37 139.90	187.66	92.25	3.39 2.51	OSF1.50 OSF1.50	7890.00 9320.00	9174.77				MinPt-O-ADP MinPt-CtCt	
	232.19	139.97	138.05	92.23	2.51	OSF1.50	9330.00	9184.77				MinPts	
	388.46	118.44	308.66	270.02	4.99	OSF1.50	9730.00	9584.77	OSF>5.00			Exit Alert	
	2389.29 2421.85	96.53 98.08	2324.11 2355.63	2292.76 2323.77	38.08 37.97	OSF1.50 OSF1.50	12000.00 12080.00	11787.32 11832.33				MinPt-O-SF MinPt-O-SF	
	2457.88	98.52	2391.37	2359.37	38.36	OSF1.50	12780.00	11930.00				MinPt-CtCt	
	2458.09	99.09	2391.20	2359.00	38.14	OSF1.50	12840.00	11930.00				MINPT-O-EOU	
	2458.43	99.49	2391.27	2358.94	37.98	OSF1.50	12880.00	11930.00				MinPt-O-ADP	
	2447.03 2447.53	112.45 113.93	2371.23 2370.75	2334.58 2333.60	33.35 32.91	OSF1.50 OSF1.50	13750.00 13840.00	11930.00 11930.00				MinPt-CtCt MINPT-O-EOU	
	2448.10	114.61	2370.86	2333.49	32.72	OSF1.50	13880.00	11930.00				MinPt-O-ADP	
	2449.18	116.98	2370.36	2332.20	32.06	OSF1.50	13990.00	11930.00				MinPt-CtCt	
	2434.92 2435.70	126.50 128.71	2349.75 2349.06	2308.42 2306.99	29.42 28.92	OSF1.50 OSF1.50	14440.00	11930.00				MinPt-CtCt MINPT-O-EOU	
	2436.56	120.71	2349.00	2306.83	28.92	OSF1.50	14550.00 14600.00	11930.00 11930.00				MinPt-O-ADP	
	2441.06	133.56	2351.18	2307.49	27.91	OSF1.50	14760.00	11930.00				MINPT-O-EOU	
	2441.54	134.17	2351.26	2307.37	27.79	OSF1.50	14790.00	11930.00				MinPt-O-ADP	
	2444.37 2445.17	144.58 147.05	2347.14 2346.31	2299.78 2298.13	25.78 25.35	OSF1.50 OSF1.50	15200.00 15310.00	11930.00 11930.00				MinPt-CtCt MINPT-O-EOU	
	2445.17	148.41	2346.57	2298.13	25.33	OSF1.50	15370.00	11930.00				MinPt-O-ADP	
	2447.12	168.64	2333.86	2278.48	22.07	OSF1.50	16110.00	11930.00				MinPt-CtCt	
	2448.69	173.20	2332.38	2275.48	21.50	OSF1.50	16290.00	11930.00				MINPT-O-EOU	
	2450.17 2514.80	174.96 187.72	2332.70 2388.82	2275.22 2327.08	21.29	OSF1.50	16360.00	11930.00					
	3827.48	204.88			20.35		17000.00					MinPt-O-ADP MinPt-O-SE	
			3690.06	3622.60	20.35 28.35	OSF1.50 OSF1.50	17000.00 19389.58	11930.00 11930.00				MinPt-O-ADP MinPt-O-SF TD	
25-46252 - Allev Cat 17-	20		3690.06									MinPt-O-SF	
eral Com 526H - MWD to	0			3622.60	28.35	OSF1.50	19389.58	11930.00				MinPt-O-SF TD	Warning Alert
eral Com 526H - MWD to		261.92 262.04	3690.06 9319.06 9296.17									MinPt-O-SF TD	Warning Alert
eral Com 526H - MWD to	9494.51 9471.69 840.06	262.04 254.73	9319.06 9296.17 669.41	3622.60 9232.59 9209.66 585.34	28.35 54.88 54.73 4.98	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	19389.58 0.00 23.00 8770.00	11930.00 0.00 23.00 8624.77	OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert	Warning Alert
eral Com 526H - MWD to	9494.51 9471.69 840.06 292.62	262.04 254.73 187.74	9319.06 9296.17 669.41 166.63	3622.60 9232.59 9209.66 585.34 104.88	28.35 54.88 54.73 4.98 <b>2.35</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00	0.00 23.00 8624.77 9314.77	OSF<5.00			MinPI-O-SF TD Surface WRP Enter Alert MinPI-O-SF	Warning Alert
eral Com 526H - MWD to	9494.51 9471.69 840.06 292.62 <b>273.42</b>	262.04 254.73 187.74 173.54	9319.06 9296.17 669.41 166.63 <b>156.89</b>	3622.60 9232.59 9209.66 585.34 104.88 <b>99.88</b>	28.35 54.88 54.73 4.98 2.35 2.38	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	19389.58 0.00 23.00 8770.00 9460.00 9560.00	0.00 23.00 8624.77 9314.77 9414.77	OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF MinPts	Warning Alert
eral Com 526H - MWD to	9494.51 9471.69 840.06 292.62	262.04 254.73 187.74	9319.06 9296.17 669.41 166.63	3622.60 9232.59 9209.66 585.34 104.88	28.35 54.88 54.73 4.98 <b>2.35</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00	0.00 23.00 8624.77 9314.77	OSF<5.00 OSF>5.00			MinPI-O-SF TD Surface WRP Enter Alert MinPI-O-SF	Warning Alert
eral Com 526H - MWD to	9494.51 9471.69 840.06 292.62 273.42 289.64	262.04 254.73 187.74 173.54 185.18	9319.06 9296.17 669.41 166.63 <b>156.89</b> 165.35	3622.60 9232.59 9209.66 585.34 104.88 <b>99.88</b> 104.46	28.35 28.35 54.88 54.73 4.98 2.35 2.38 2.36	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00 9560.00 9660.00	0.00 23.00 8624.77 9314.77 9414.77 9514.77				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF MinPt-O-SF	Warning Alert
eral Con 528H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8845ft - A (E	9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral	262.04 254.73 187.74 173.54 185.18 257.00	9319.06 9296.17 669.41 166.63 <b>156.89</b> 165.35 678.62	9232.59 9209.66 585.34 104.88 <b>99.88</b> 104.46 593.78	28.35 54.88 54.73 4.98 2.36 2.38 2.36 5.00	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 9460.00 9560.00 9660.00 10370.00	0.00 23.00 8624.77 9314.77 9514.77 10224.77				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF MinPt-O-SF Exit Alert TD	
eral Com 526H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8845ft - A (E	9 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81	9319.06 9296.17 669.41 166.63 156.89 165.35 678.62 8100.35	3622.60 9232.59 9209.66 585.34 104.88 <b>99.88</b> 104.46 593.78 8031.92 990.07	28.35 54.88 54.73 4.99 2.35 2.38 2.36 5.00 60.18	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 9460.00 9660.00 9660.00 10370.00 10370.00	0.00 23.00 8624.77 9314.77 9414.77 10224.77 11930.00 0.00				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF MinPt-O-SF Exit Alert TD	
eral Com 526H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8845ft - A (E	9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01	28.35 54.88 54.73 4.98 2.38 2.38 2.38 5.00 60.18 0.18	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9660.00 9660.00 10370.00 19389.58 0.00 23.00	11930.00 0.00 28.00 8624.77 9914.77 9914.77 10224.77 11930.00 0.00 2.3.00				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP	
eral Com 526H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8845ft - A (E	9 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.81 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20	3622.60 9232.59 9209.66 585.34 104.88 <b>99.88</b> 104.46 593.78 8031.92 990.07	28.35 54.88 54.73 4.98 2.35 2.38 2.38 5.00 60.18 N/A 3048.68 129.34	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00 8770.00 9560.00 10370.00 113389.58 0.00 23.00 23.00 280.00	11930.00 0.00 23.00 8624.77 9914.77 19934.77 11930.00 0.00 23.00 280.00				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF MinPt-O-SF Exit Alert TD	
eral Com 526H - MWD to 52ft - A (Def Survey) 225-36772 - James Feder INC Only to 8845ft - A (E	9 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87 1022.87 1022.82 1020.57	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 987.76	28.35 54.88 54.73 4.98 2.38 2.38 2.38 5.00 60.18 0.18	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9660.00 9660.00 10370.00 19389.58 0.00 23.00	11930.00 0.00 28.00 8624.77 9914.77 9914.77 10224.77 11930.00 0.00 2.3.00				MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPts	
eral Com 526H - MWD to 52ft - A (Def Survey) 225-36772 - James Feder INC Only to 8845ft - A (E	9 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 1022.87 1023.87	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.81 32.81 32.81 32.81 73.87 199.06 298.26	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 933.24 520.22 241.06	3622.60 9232.59 9209.66 585.54 104.88 99.88 104.46 593.76 990.07 990.01 997.76 939.45 454.70 142.48	28.35 54.88 54.73 4.99 2.38 2.38 2.38 5.00 60.18 N/A 3048.66 129.34 21.25 4.97 2.22	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50	0.00 23.00 9460.00 10370.00 119389.58 0.00 1332.00 23.00 23.00 23.00 1370.00 3320.00 5680.00	11930.00 0.00 23.00 8824.77 9914.77 10224.77 11930.00 23.00 23.00 23.00 23.00 3768.19 5564.81	OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-CIC Enter Alert MinPt-CIC	
eral Com 526H - MWD to 52ft - A (Def Survey) 225-36772 - James Feder INC Only to 8845ft - A (E	9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87 1022.87 1022.82 102.63.75 440.74 444.95	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 996.324 520.22 241.06 236.56	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 997.76 939.45 454.70 142.48	28.35 54.88 54.73 4.98 2.35 2.38 5.00 60.18 N/A 3048.66 129.34 2.12 4.97 2.22 2.15	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00 10370.00 10370.00 10370.00 10370.00 13320.00 280.00 13320.00 3820.00 5840.00	0.00 23.00 8624.77 9914.77 9914.77 10224.77 11930.00 280.00 1370.00 3768.19 5564.81 581.595	OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPts Surface WRP MinPts MinPt-CitCl Enter Alert MinPt-CitCl Enter Alert	Warning Alert Warning Alert
eral Com 526H - MWD to 52ft - A (Def Survey) 025-36772 - James Feder INC Only to 8845ft - A (E	9 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87 1022.82 1020.57 1013.32 653.75 440.74 444.95 450.38	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.82 32.81 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 963.24 520.22 241.06 238.56 238.56	3622.60 9232.59 9209.66 585.54 104.86 593.78 8031.92 990.07 990.01 987.76 939.45 454.77 454.77 132.46	28.35 54.88 54.73 4.98 2.35 2.38 2.38 2.38 2.36 5.00 60.18 129.34 21.25 4.97 2.22 2.15 2.13	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9660.00 19370.00 19389.58 0.00 230.00 280.00 13770.00 3820.00 280.00 13770.00 3820.00 5680.00 5940.00	0.00 23.00 8624.77 9914.77 1930.00 280.00 280.00 280.00 280.00 13770.00 3768.19 5654.81 5815.95	OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-OtSF Exit Alert TD Surface WRP MinPt-OtAP	
eral Com 526H - MWD to 52ft - A (Def Survey) 025-36772 - James Feder INC Only to 8845ft - A (E	9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 ral Def 1022.87 1022.87 1022.82 102.63.75 440.74 444.95	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 996.324 520.22 241.06 236.56	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 997.76 939.45 454.70 142.48	28.35 54.88 54.73 4.98 2.35 2.38 5.00 60.18 N/A 3048.66 129.34 2.12 4.97 2.22 2.15	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00 10370.00 10370.00 10370.00 10370.00 13320.00 280.00 13320.00 3820.00 5840.00	0.00 23.00 8624.77 9914.77 9914.77 10224.77 11930.00 280.00 1370.00 3768.19 5564.81 581.595	OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPts Surface WRP MinPts MinPt-CitCl Enter Alert MinPt-CitCl Enter Alert	
eral Com 526H - MWD to 52ft - A (Def Survey) 225-36772 - James Feder INC Only to 8845ft - A (E	9 9494,51 9471,69 840,06 292,62 273,42 289,64 850,78 8239,72 1022,87 1023,87 1023,87 1023,77 1013,32 653,75 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1055,77 10	262.04 254.73 187.74 173.54 185.18 257.00 207.80 207.80 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 33.82 31.34 [ 9.906 298.26 311.34[ 31.996 298.26 311.34[ 29.262 31.34] 20.262 31.34 32.81 32.82 31.34 32.81	9319.06 9296.17 669.41 166.63 165.35 676.62 8100.35 1020.37 1019.99 903.24 520.22 241.06 <b>236.56</b> 236.56 236.56 231.32	3622.60 9232.59 9209.66 585.54 104.86 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 999.04 454.70 142.48 133.61 132.46 134.13 79.52 50.59	28.35 54.88 54.73 4.98 2.35 2.38 2.36 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.0	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9560.00 9560.00 19370.00 19389.58 0.00 280.00 280.00 3820.00 5680.00 5680.00 5680.00 6070.00 6320.00 8300.00 8300.00	11930.00 23.00 8624.77 9914.77 9914.77 10224.77 11930.00 280.000 280.000 280.000 280.00000000	OSF>5.00 OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-OtC Enter Alert MinPt-CtC Enter Alert MinPt-OtC MinPt-O-ADP MinPt-O-CAP MinPt-O-SF MinPt-O-SF MinPt-O-SF	
eral Com 526H - MWD to 52ft - A (Def Survey) 225-36772 - James Feder INC Only to 8845ft - A (E	9494.51 9494.51 9471.69 840.06 222.62 273.42 289.64 850.78 8239.72 1022.87 1022.87 1022.82 1022.057 1013.32 653.75 440.74 444.95 450.38 460.15 507.69 510.30 900.59	262.04 254.73 187.74 185.18 257.00 207.80 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 33.7 99.06 298.26 311.34 298.26 311.34 298.26 311.34 298.26 311.34 298.26 311.34 298.26 311.34 298.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 208.26 312.37 32.37 312.37 312.37 32.37 312.37 32.37 312.37 32.37 312.37 32.37 312.37 32.37 312.37 32.3	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1010.20 963.24 963.24 236.56 237.60 241.06 241.06 241.97 221.38 203.00	3622.60 9232.59 9299.66 585.34 104.48 99.88 104.40 503.78 8031.92 990.07 990.01 997.45 939.45 454.70 142.48 133.61 132.43 79.52 50.53 625.33	28.35 54.88 54.73 4.98 2.38 2.38 2.38 2.38 5.00 60.18 2.048.68 129.34 21.25 4.97 2.2.15 2.13 2.12 2.15 2.1178 1.67 4.94	OSF1.50 OSF1.50	19389.58 0.00 23.00 8770.00 19360.00 9960.00 10370.00 11370.00 13370.00 13320.00 280.00 33220.00 5860.00 5940.00 6070.00 6230.00 8200.00 8200.00 8200.00 8200.00	11930.00 0.00 223.00 8624.77 9514.77 9514.77 10224.77 11930.00 28.00 28.00 1370.00 37668.19 5564.81 5815.95 5541.52 6096.07 8054.77 8054.77	OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-CitCl Enter Alert MinPt-CitCl Enter Alert MinPt-CitCl Min	
025-4625 - Alley Cat 17. Hera Com S26H - MWD to IS2ft - A (Def Survey) 025-36772 - James Feder INC Only to 8645ft - A (D vey)	9 9494,51 9471,69 840,06 292,62 273,42 289,64 850,78 8239,72 1022,87 1023,87 1023,87 1023,77 1013,32 653,75 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1013,32 1053,77 1055,77 10	262.04 254.73 187.74 173.54 185.18 257.00 207.80 207.80 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 33.82 31.34 [ 9.906 298.26 311.34[ 31.996 298.26 311.34[ 29.262 31.34] 20.262 31.34 32.81 32.82 31.34 32.81	9319.06 9296.17 669.41 166.63 165.35 676.62 8100.35 1020.37 1019.99 903.24 520.22 241.06 <b>236.56</b> 236.56 236.56 231.32	3622.60 9232.59 9209.66 585.54 104.86 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 999.04 454.70 142.48 133.61 132.46 134.13 79.52 50.59	28.35 54.88 54.73 4.98 2.35 2.38 2.36 60.18 129.34 21.25 4.97 2.22 2.15 2.13 2.12 1.78	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9560.00 9560.00 19370.00 19389.58 0.00 280.00 280.00 3820.00 5680.00 5680.00 5680.00 6070.00 6320.00 8300.00 8300.00	11930.00 23.00 8624.77 9914.77 9914.77 10224.77 11930.00 280.000 280.000 280.000 280.00000000	OSF>5.00 OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-OtC Enter Alert MinPt-CtC Enter Alert MinPt-OtC MinPt-O-ADP MinPt-O-CAP MinPt-O-SF MinPt-O-SF MinPt-O-SF	
eral Com 526H - MWD to 52ft - A (Def Survey) 255-36772 - James Feder INC Only to 8645ft - A (D vey) 255-45066 - Alley Cat 17-7	9494.51 9494.51 9471.69 840.06 292.62 229.64 850.78 8239.72 1022.87 1022.87 1022.87 1022.82 1020.67 653.75 440.74 444.95 450.38 460.15 507.60 510.30 900.59 4494.77 7822.32	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.82 31.24 31.24 31.24 31.24 32.82 32.82 32.82 32.82 32.82 31.24 32.82	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 933.24 520.22 241.06 238.66 238.66 241.97 241.38 203.00 716.25	3622.60 9232.59 9209.66 865.34 104.86 99.88 104.46 93.88 8031.92 990.07 990.07 990.01 997.76 939.45 454.70 132.46 133.61 132.26 133.61 132.46 133.65 132.53 132.53 132.55 132.55 132.55 132.55 132.55 133.55 133.55 133.55 133.55 135.55	28.35 54.88 54.73 4.98 2.35 2.38 2.38 5.00 60.18 129.34 21.25 2.15 2.13 2.497 2.22 2.15 2.13 2.12 1.78 1.67 4.94 20.49	OSF1.50 OSF1.50	0.00 23.00 8770.00 9660.00 9660.00 10370.00 19389.58 0.00 13389.58 0.00 280.00 1370.00 280.00 1370.00 5680.00 5640.00 6070.00 6390.00 8200.00 800.0	11930.00 23.00 8824.77 9914.77 9914.77 10224.77 11930.00 280.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 280.00 1370.00 28	OSF>5.00 OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-O-EOU MinPt-O-SF MinPt-O-SF	
eral Com 526H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8645ft - A (D INC Only to 8645ft - A (D vey) 125-45066 - Alley Cat 17-7 eral Com 215H - MWD to	9494.51 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 1022.87 1022.87 1022.82 1020.57 400.74 444.95 450.37 444.95 450.36 507.69 510.30 900.59 4494.77 7822.32	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.81 32.81 32.81 32.81 32.81 32.81 33.7.92 311.34 317.92 326.02 311.34 317.92 326.02 337.67 437.13	9319.06 9296.17 669.41 166.63 156.89 105.35 678.62 8100.35 1020.37 1019.99 1010.20 963.24 520.22 241.06 237.60 237.60 241.97 241.93 225.65 237.60 241.97 716.25 4268.82 7530.07	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01 990.01 990.01 997.45 393.45 454.70 142.48 133.61 132.41 132.43 79.52 50.69 625.33 4157.10 7385.19	28.35 24.35 54.88 54.73 4.98 2.35 2.38 2.38 2.38 2.38 2.38 2.39 5.00 60.18 20.35 2.497 2.22 2.15 2.12 1.78 1.67 4.99 26.99	OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00 9660.00 9660.00 10370.00 10370.00 1370.00 1370.00 3220.00 5880.00 5840.00 6070.00 6230.00 8200.00 8200.00 8200.00 13540.00 15360.00 15360.00	0.00 23.00 8624.77 9514.77 9514.77 10224.77 10224.77 10224.77 10224.77 10224.77 10224.77 10224.77 10224.77 10224.77 1350.00 3768.19 5564.52 55941.52 6096.07 8054.77 8054.77 8054.77 11330.00	OSF>5.00 OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-O-SF MinPt-OCC Enter Alert MinPt-OCC MinPt-O-CCU MinPt-O-CCU MinPt-O-SF MinPt-O-SF TD	Warning Alert
eral Com 526H - MWD to 52ft - A (Def Survey) 125-36772 - James Feder INC Only to 8645ft - A (D INC Only to 8645ft - A (D vey) 125-45066 - Alley Cat 17-7 eral Com 215H - MWD to	9494.51 9494.51 9471.69 840.06 292.62 273.42 289.64 850.78 8239.72 1022.87 1022.87 1022.87 1022.87 1022.87 1022.87 1022.87 1022.87 1022.87 1023.67 1013.32 653.75 440.74 444.95 551.030 900.59 4494.77 7822.32	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 32.85 32.81	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 933.24 520.22 241.06 238.66 238.66 241.97 241.38 203.00 716.25	3622.60 9232.59 9209.66 585.34 104.48 99.88 104.46 593.78 8031.92 990.07 990.01 997.75 939.45 454.70 142.48 133.61 132.43 79.52 50.59 625.33 4157.10 7385.19 10337.18 10337.18	28.35 54.88 54.73 4.98 2.35 2.38 2.38 5.00 60.18 129.34 21.25 2.15 2.13 2.497 2.22 2.15 2.13 2.12 1.78 1.67 4.94 20.49	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 10370.00 10370.00 110370.00 110370.00 110370.00 110370.00 280.00 280.00 5840.00 5840.00 5844.00 5680.00 5844.00 5680.00 15560.00 119389.58	11930.00 23.00 8824.77 9914.77 9914.77 10224.77 11930.00 280.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 1370.00 280.00 280.00 1370.00 28	OSF>5.00 OSF<5.00 OSF>5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-OCSF Exit Alert MinPt-Cit MinPt-Cit MinPt-Cit MinPt-CoSF MinPt-COSF MinPt	Warning Alert
eral Com 526H - MWD to 52ft - A (Def Survey) 025-36772 - James Feder INC Only to 8845ft - A (E	9494,51 9494,51 9471,69 940,06 292,62 2734 289,64 850,78 8239,72 1022,82 1022,82 1022,82 1022,82 1022,82 1022,857 1022,82 1022,857 1023,257 440,74 440,59 510,30 900,59	262.04 254.73 187.74 173.54 185.18 257.00 207.80 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.81 31.34 31 32.82 32.82 32.82 32.82 32.82 32.82 32.82 32.82 32.82 32.83 32	9319.06 9296.17 669.41 166.63 165.35 678.62 8100.35 1020.37 1019.99 1010.20 933.24 520.22 241.06 237.60 234.58 237.60 716.25 241.97 721.38 203.00 716.25 242.88 203.00 716.25	3622.60 9232.59 9209.66 585.34 104.86 93.88 8031.92 990.07 990.07 990.01 997.76 939.45 454.70 132.46 133.61 132.26 133.61 132.26 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.65 133.75 10 133.75 16	28.35 54.88 54.73 4.98 2.35 2.38 2.36 5.00 60.18 N/A 3048.68 129.34 21.55 2.13 2.22 2.15 2.13 2.21 1.67 4.99 2.59 60.25	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 8770.00 9460.00 9560.00 9560.00 9560.00 10370.00 10370.00 10370.00 10370.00 230.00 230.00 230.00 3320.00 5584.00 5584.00 5584.00 5584.00 11370.00 8200.00 8200.00 113389.58	0.00 23.00 8824.77 9914.77 1930.07 10224.77 11930.00 280.00 280.00 1370.00 280.00 1376.19 5564.81 5515.95 5941.52 6096.07 8054.77 9394.77 11930.00	OSF>5.00 OSF<5.00			MinPt-O-SF TD Surface WRP Enter Alert MinPt-O-SF Exit Alert TD Surface WRP MinPt-CIC MinPt-CIC MinPt-CCC MinPt-CADP MinPt-CIC MinPt-CADP MinPt-CCC MinPt-CADP MinPt-CCC MinPt-CADP MinPt-CCC MinPt-CADP MinPt-CCC	Warning Alert Warning Alert Warning Alert

		Separation		Allow	Sep.	Controlling	Reference T			Risk Level		Alert	Status
	Ct-Ct (ft) 1 1147.39	MAS (ft) 348.54	EOU (ft) 914.20	Dev. (ft) 798.86	Fact. 4.96	Rule OSF1.50	MD (ft) 11670.00	TVD (ft) 11521.45	Alert OSF>5.00	Minor	Major	Exit Alert	
	7964.11	203.91	7827.33	7760.20	59.29	OSF1.50	19389.58	11930.00	00.70.00			TD	
025-46251 - Alley Cat 17- leral Com 525H - MWD to	20												
92ft - A (Def Survey)													Warning Alert
	9411.78 9388.82	257.13 257.22	9239.53 9216.51	9154.65	55.43	OSF1.50	0.00	0.00				Surface WRP	
	9388.82 1380.25	257.22 418.78	9216.51 1100.23	9131.61 961.47	55.28 4.96	OSF1.50 OSF1.50	23.00 8600.00	23.00 8454.77	OSF<5.00			Enter Alert	
	1010.02	519.50	662.86	490.52	2.92	OSF1.50	9540.00	9394.77				MinPts	
	1392.98	419.86	1112.24	973.12	5.00	OSF1.50	10500.00	10354.77	OSF>5.00			Exit Alert	
	8373.53	215.85	8228.79	8157.68	58.85	OSF1.50	19389.58	11930.00				TD	
25-31515 - James Feder NC Only+Blind to 6160ft -													
D (Def Survey)	4444.00		4400 70	1070.11				0.00					Warning Alert
	4111.22 4111.18	32.81 32.81	4108.72 4108.67	4078.41 4078.37	N/A 777949.73	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPt-O-SF	
	4111.16	32.81	4108.63	4078.36	106883.12	MAS = 10.00 (m)	23.00	23.00				MinPts	
	4113.05	63.91	4069.61	4049.14	100.40	OSF1.50	1240.00	1240.00 2415.17				MinPt-CtCt MINPT-O-EOU	
	4129.74 4133.16	129.30 133.42	4042.71	4000.45 3999.75	48.83 47.33	OSF1.50 OSF1.50	2420.00 2520.00	2415.17 2512.44				MinPt-O-ADP	
	4134.44	134.68	4043.82	3999.76	46.89	OSF1.50	2550.00	2541.46				MinPt-O-ADP	
	4204.19	194.54	4073.66	4009.65	32.82	OSF1.50	3640.00	3594.32				MINPT-O-EOU	
	4204.66	195.04	4073.80	4009.62	32.74	OSF1.50	3650.00	3603.98				MinPt-O-ADP	
	4272.55 4409.68	245.18 1340.03	4108.26 3515.50	4027.37 3069.65	26.39 4.94	OSF1.50 OSF1.50	4500.00 5790.00	4425.02 5671.06	OSF<5.00			MinPts Enter Alert	
	4409.68 4454.64	2235.87	3515.50 2963.23	3069.65 2218.78	4.94 2.99	OSF1.50 OSF1.50	6180.00	6047.77	03540.00			Enter Alert MinPts	
	5849.97	1757.20	4677.67	4092.77	5.00	OSF1.50	10050.00	9904.77	OSF>5.00			Exit Alert	
	6096.45	787.49	5570.62	5308.96	11.64	OSF1.50	14610.00	11930.00				MinPt-O-ADP	
	5951.09 5908.17	613.29 533.68	5541.40 5551.55	5337.80 5374.49	14.61 16.68	OSF1.50 OSF1.50	15400.00 16110.00	11930.00 11930.00				MINPT-O-EOU MinPt-CtCt	
	5908.17 6053.09	533.68 684.64	5551.55 5595.83	5374.49 5368.45	16.68 13.30	OSF1.50 OSF1.50	16110.00 17430.00	11930.00 11930.00				MinPt-CtCt MinPt-O-ADP	
	6755.72	1149.24	5988.73	5606.49	8.83	OSF1.50	19389.58	11930.00				MinPt-O-SF	
25-29495 - James Feder	ral												
lind+INC Only to 8151ft													
Survey)	4652.89	32.81	4650.39	4620.08	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Aler
	4652.89 4652.65	32.81 32.81	4650.39 4650.11	4620.08 4619.84	N/A 125409.57	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00	23.00				Surface	
	4652.49	32.81	4637.67	4619.68	377.45	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	4652.64	32.81	4637.55	4619.83	369.14	MAS = 10.00 (m)	1840.00	1840.00				MINPT-O-EOU	
	5024.12 5114.79	1510.25	4016.45 3425.71	3513.86 2582.41	5.00 3.03	OSF1.50 OSF1.50	4610.00 5160.00	4531.27 5062.53	OSF<5.00			Enter Alert MinPts	
	5114.79 5376.30	2532.37 2535.81	3425.71 3684.93	2582.41 2840.49	3.03 3.18	OSF1.50 OSF1.50	5160.00 7360.00	5062.53 7214.77				MinPts MinPt-CtCt	
	5376.33	2535.90	3684.90	2840.44	3.18	OSF1.50	7400.00	7254.77				MINPT-O-EOU	
	5376.35	2535.92	3684.90	2840.43	3.18	OSF1.50	7410.00	7264.77				MinPt-O-ADP	
	5376.50 5382.88	2536.02 2537.63	3684.98 3690.30	2840.48 2845.25	3.18 3.18	OSF1.50 OSF1.50	7460.00 8140.00	7314.77 7994.77				MinPt-O-SF MinPt-O-SF	
	5382.88 5378.67	2537.63	3690.30 3685.23	2845.25 2839.77	3.18	OSF1.50 OSF1.50	8140.00 8360.00	7994.77 8214.77				MinPt-O-SF MinPts	
	5247.42	1794.78	4050.07	3452.64	4.39	OSF1.50	14190.00	11930.00				MinPt-O-SF	
	4846.87	1634.81	3756.16	3212.06	4.45	OSF1.50	16200.00	11930.00				MinPt-CtCt	
	4846.88	1634.83	3756.16	3212.05	4.45	OSF1.50	16210.00	11930.00				MINPT-O-EOU	
	4846.91 5258.38	1634.86 1803.63	3756.17 4055.12	3212.05 3454.75	4.45 4.38	OSF1.50 OSF1.50	16220.00 18240.00	11930.00 11930.00				MinPt-O-ADP MinPt-O-SF	
	5801.77	1957.58	4495.88	3844.19	4.45	OSF1.50	19389.58	11930.00				TD	
025-36028 - James Feder													
NC Only to 8603ft - A (De vey)	ðf												Pass
	451.44	32.81	448.94	418.63	N/A								
						MAS = 10.00 (m)	0.00	0.00				Surface	
	451.43	32.81	448.80	418.62	3687.45	MAS = 10.00 (m)	10.00	10.00				MinPts	
	451.44	32.81	448.55	418.63	3687.45 1164.35	MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00	10.00 23.00				MinPts WRP	
	451.44 449.93	32.81 56.59		418.63 393.34	3687.45 1164.35 12.41	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	10.00 23.00 1100.00	10.00 23.00 1100.00				MinPts	
	451.44	32.81	448.55 411.37	418.63	3687.45 1164.35	MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00	10.00 23.00				MinPts WRP MinPt-CtCt	
	451.44 449.93 462.05 464.89 528.81	32.81 56.59 101.44 104.92 131.39	448.55 411.37 <b>393.59</b> 394.11 440.39	418.63 393.34 360.61 <b>359.97</b> 397.42	3687.45 1164.35 12.41 6.97 6.77 <b>6.13</b>	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 1990.00 2520.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44				MinPts WRP MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF	
	451.44 449.93 462.05 464.89 528.81 1056.79	32.81 56.59 101.44 104.92 131.39 242.77	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11	418.63 393.34 360.61 <b>359.97</b> 397.42 814.02	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 1990.00 2520.00 4630.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59				MinPts WRP MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF MinPt-O-SF	
	451.44 449.93 462.05 464.89 528.81 1056.79 1572.05	32.81 56.59 101.44 104.92 131.39 242.77 433.84	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11 1281.99	418.63 393.34 360.61 <b>359.97</b> 397.42	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 1990.00 2520.00 4630.00 8380.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77				MinPts WRP MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF MinPt-O-SF MinPt-CtCt	
	451.44 449.93 462.05 464.89 528.81 1056.79	32.81 56.59 101.44 104.92 131.39 242.77	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11	418.63 393.34 360.61 <b>359.97</b> 397.42 814.02 1138.21	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 1990.00 2520.00 4630.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59				MinPts WRP MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF MinPt-O-SF	
	451.44 449.93 462.05 464.89 528.81 1056.79 1572.05 1577.75	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11 1281.99 <b>1274.23</b>	418.63 393.34 360.61 <b>359.97</b> 397.42 814.02 1138.21 <b>1123.71</b>	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 8634.77				MinPts WRP MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF MinPt-CtCt MinPt-CtCt	
	451.44 449.33 462.05 464.89 528.81 1056.79 <b>1572.05</b> 1577.75 4589.75 8002.23	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80	418.63 393.34 360.61 <b>359.97</b> 397.42 814.02 1138.21 <b>1123.71</b> 4252.08	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.53	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00 15050.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 8634.77 11930.00				MinPts WRP MinPt-CICt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-CICt MinPts MinPt-O-SF	
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 <b>1572.05</b> 1577.75 4589.75 8002.23	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67	448.55 411.37 <b>393.59</b> 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80	418.63 393.34 360.61 <b>359.97</b> 397.42 814.02 1138.21 <b>1123.71</b> 4252.08	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.53	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00 15050.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 8634.77 11930.00				MinPts WRP MnPt-CiCt MINPT-0-EOU MinPt-0-ASP MinPt-0-SF MinPt-OSF MinPt-CiCt MinPts MinPt-TD TD	Pass
025-41362 - James Feder I ST01 - MWD to 13835ft Def Survey)	451.44 449.93 462.05 528.81 1056.79 1572.05 1577.75 4589.75 8002.23 ral -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81	448.55 411.37 393.59 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80 7710.20 538.51	418.63 393.34 360.61 359.97 397.42 814.02 1138.21 1123.71 4252.08 7565.44 508.20	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.53 27.63	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m)	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00 15050.00 19389.58	10.00 23.00 1100.00 1919.96 1889.86 2512.44 4550.59 8234.77 11930.00 11930.00				MinPts WRP MmPt-Citt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-Citt	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 <b>1577.75</b> 4589.75 80002.23 ral -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79	448.55 411.37 393.59 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80 7710.20 538.51 538.51	418.63 393.34 360.61 359.97 397.42 814.02 1138.21 4252.08 7565.44 508.20 507.88	3687.45 1164.35 12.41 6.77 6.73 6.13 6.88 5.46 5.23 20.53 27.63 N/A 12285.18	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00 15050.00 15050.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 8834.77 11930.00 11930.00				MinPts WRP MinPt-Citt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-O-SF TD TD Surface MinPt-0-SF	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 <b>1577.75</b> 8002.23 ral - 541.01 540.69 540.69	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 456.04 337.67 436.79	448.55 411.37 <b>393.59</b> 394.11 440.39 <b>824.11</b> 1281.99 <b>1274.23</b> 4363.80 7710.20 538.51 538.55 <b>538.05</b>	418.63 393.34 360.61 359.97 42 814.02 1138.21 1123.71 4252.08 7565.44 508.20 507.88 507.75	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.53 27.63 27.63 N/A 12285.18 36837.86	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 1100.00 1990.00 2520.00 4630.00 8380.00 15050.00 19389.58	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 11930.00 11930.00				MinPts WRP MinPt-ClCt MiNPT-O-EOU MinPt-O-SF MinPt-O-SF MinPt-ClCt MinPt-SF TD Surface MinPt-O-SF MiNPt-O-SF MiNPT-O-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 <b>1577.75</b> 4589.75 80002.23 ral -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79	448.55 411.37 393.59 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80 7710.20 538.51 538.51	418.63 393.34 360.61 359.97 397.42 814.02 1138.21 4252.08 7565.44 508.20 507.88	3687.45 1164.35 12.41 6.77 6.73 6.13 6.68 5.46 5.23 20.53 27.63 N/A 12285.18	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 4630.00 8380.00 8780.00 15050.00 15050.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 8834.77 11930.00 11930.00				MinPts WRP MinPt-Citt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-O-SF TD TD Surface MinPt-0-SF	Pass
ST01 - MWD to 13935ft	451.44 449.63 462.05 464.89 528.81 1056.79 <b>1577.75</b> 8002.23 <b>1577.75</b> 8002.23 <b>1577.75</b> 8002.23 <b>1577.55</b> 541.01 540.69 540.69 540.56 <b>544.5</b> 2	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81	448.55 411.37 393.59 394.11 1281.99 4363.80 7710.20 538.51 538.05 538.05 538.05 537.97 534.03	418.63 393.34 390.61 <b>359.97</b> 397.42 814.02 <b>1138.21</b> <b>1138.21</b> <b>1138.21</b> <b>1138.2</b> <b>508.20</b> 507.65.44 <b>508.20</b> 507.75 <b>507.75</b> <b>507.75</b> <b>507.75</b> <b>507.75</b>	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.53 27.63 27.63 36837.86 151857.64 6133.47 67.87	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 1100.00 1920.00 1920.00 2520.00 8380.00 8380.00 8380.00 8380.00 15050.00 15050.00 15050.00 15050.00 15080.00 23.00 23.00 40.00 23.00 40.00 850.00	10.00 23.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 111930.00 20.00 23.00 40.00 23.00 40.00				MinPts WRP MmPt-ClCt MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-ClCt MinPts MinPt-O-SF TD Surface MinPt-O-SF MiNPT-O-EOU WRP MinPt-O-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.05 1577.75 1577.75 8002.23 ral - 541.01 540.69 540.56 540.56 544.52 546.63	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 337.67 32.81 32.81 32.81 32.81 32.81 32.81	448.55 411.37 393.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.55 538.05 538.06 538.06 538.06 538.06 538.05	418.63 393.34 390.61 359.97 397.42 1138.21 1138.21 1138.21 1138.21 1252.08 507.85 507.75 507.75 507.75 507.75 507.75 507.75	3687.45 1164.35 12.41 6.97 6.77 6.13 5.46 5.46 5.46 5.46 20.53 27.63 27.63 27.63 83837.86 151857.64 6133.47 67.87 51.91	MAS = 10.00 (m)           MAS = 10.00 (m)           OSF1.50           MAS = 10.00 (m)	11.00 23.00 1190.00 1920.00 1920.00 8380.00 8380.00 15555.00 19389.58 0.00 10.00 20.00 23.00 23.00 40.00 850.00	10.00 23.00 1100.00 1919.96 1989.96 2512.44 4550.59 8634.77 11390.00 11930.00 11930.00 10.00 20.00 23.00 40.00 40.00 850.00				MinPts WRP MinPt-Citt MINPT-0-EOU MinPt-0-SF MinPt-O:SF MinPt-O:SF MinPt-O:SF TD Surface MinPt-0-SF MINPT-0-EOU WRP MinPts MINPT-0-EOU MINPT-0-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rai - 541.01 540.69 540.56 540.56 540.56 540.56 546.83 678.92	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81	448.55 411.37 39.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.51 538.55 538.06 537.97 534.03 533.85 650.49	418.63 393.34 390.61 399.97 397.42 814.02 7565.44 508.20 5765.44 507.75 507.75 507.75 507.75 507.75 511.71 511.03	3687.45 1164.35 12.41 6.97 6.77 6.73 6.58 5.46 5.46 5.23 20.53 27.63 27.63 20.53 27.63 21.54 6.58 6.52 20.53 27.64 27.63 27.64 27.63 27.64	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	110.00 23.00 1100.00 2520.00 2520.00 4630.00 8380.00 8380.00 19389.58 19389.58 0.00 10.00 20.00 23.00 40.00 855.00 1100.00 855.00	10.00 23.00 1100.00 1919.96 2512.44 4550.59 8234.77 11930.00 110.00 20.0				MinPis WRP MnPt-ClCt MiNPT-O-EOU MinPt-O-SF MinPt-O-SF MinPt-O-SF TD Surface MinPt-O-SF MINPT-O-EOU WRP MiNPT-O-EOU WINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.05 1577.75 1577.75 8002.23 ral - 541.01 540.69 540.56 540.56 544.52 546.63	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 337.67 32.81 32.81 32.81 32.81 32.81 32.81	448.55 411.37 335.59 394.11 440.39 894.11 1281.99 <b>1274.23</b> 4363.80 7710.20 538.51 538.05 538.05 538.06 538.06 533.97 534.03 533.85 650.49 6695.50	418.63 393.34 390.61 359.97 397.42 814.02 1138.21 1123.71 4252.08 7565.44 507.75 507.75 507.75 507.75 507.75 507.75	3687.45 1164.35 12.41 6.97 6.77 6.13 5.46 5.46 5.46 5.46 20.53 27.63 27.63 27.63 83837.86 151857.64 6133.47 67.87 51.91	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	11.00 23.00 1190.00 1920.00 1920.00 8380.00 8380.00 15555.00 19389.58 0.00 10.00 20.00 23.00 23.00 40.00 850.00	10.00 23.00 1100.00 1919.96 1989.96 2512.44 4550.59 8634.77 11390.00 11930.00 11930.00 10.00 20.00 23.00 40.00 40.00 850.00				MinPts WRP MnPt-CiCt MiNPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-O-SF MiNPT-O-EOU WRP MiNPT-O-EOU WINPT-O-EOU MiNPT-O-EOU MinPt-O-SF MinPt-O-SF	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.75 8002.23 ral - 541.01 540.69 540.56 540.56 540.56 540.56 544.52 546.83 678.92 729.89 1111.83 1241.22	32.81 56.59 101.44 1242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81	448.55 411.37 39.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.51 538.55 538.06 537.97 534.03 533.85 650.49	418.63 393.34 390.61 399.97 397.42 814.02 7565.44 508.20 5765.44 507.75 507.75 507.75 507.75 507.75 511.71 511.03	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.63 27.63 27.63 28.63 27.63 27.63 28.63 27.63 27.63	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 1100.00 1920.00 1920.00 8380.00 8380.00 8380.00 8380.00 15050.00 19389.58 0 0.00 10.00 2.0.00 2.0.00 2.3.00 40.00 2.3.00 40.00 2.3.00 2.3.00 2.3.00 2.3.00 2.3.00 2.3.00 2.5.000 2.5.000 2.5.000 2.5.0000000000	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 111930.00 20.00 23.00 40.00 23.00 40.00 850.00 11100.00 2467.71				MinPis WRP MnPt-ClCt MiNPT-O-EOU MinPt-O-SF MinPt-O-SF MinPt-O-SF TD Surface MinPt-O-SF MINPT-O-EOU WRP MiNPT-O-EOU WINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 74 541.01 540.56 540.56 540.56 540.56 540.56 546.83 678.92 729.99 1111.83 1241.22 1265.54	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 46.542 72.81 131.39	448.55 411.37 393.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.15 538.06 538.97 534.03 533.85 650.49 659.50 1067.39 1191.85 1567.52	418.63 393.34 360.61 359.97 397.42 1138.21 1138.21 1123.71 4252.08 507.75 507.7	3687.45 1164.35 12.41 6.97 6.77 6.13 6.58 5.46 5.23 20.63 27.63 27.63 28.63 86837.86 151857.64 6133.47 67.87 51.91 26.09 26.09 26.45 26.43	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1100.00 1920.00 2520.00 46330.00 8380.00 8780.00 15050.00 19389.58 0 0.00 10.00 22.00 23.00 40.00 23.00 40.00 1100.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 450.00 250.00 250.00 250.00 250.00 250.00 20	10.00 23.00 1100.00 199.96 1989.96 2512.44 4550.59 8234.77 11390.00 11930.00 11930.00 20.00 20.00 23.00 40.00 23.00 40.00 23.00 1100.00 23.00 40.00 23.00 1100.00 244.90 2544.90 4262.85 4666.771				MinPts WRP MnPt-CiCt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-0-SF MINPT-0-EOU WRP MiNPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rail - 541.01 540.69 540.56 540.55 540.55 544.52 546.83 678.92 729.89 1111.83 1241.22 1655.94 1473.55	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 65.42 72.81 131.39	448.55 411.37 333.69 394.11 440.39 884.11 1281.99 1274.23 4363.80 7710.20 538.51 538.06 538.06 538.06 538.05 538.0	418.63 393.34 306.61 399.97 397.42 814.02 7565.44 508.20 507.75 5	3687.45 1164.35 12.41 6.97 6.77 6.13 6.68 5.46 5.46 5.23 20.53 27.63 27.63 27.63 151857.64 6133.47 6133.47 613.87 613.47 614.47 615.57	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	110.00 23.00 1100.00 2520.00 2520.00 4630.00 8380.00 15555.00 11389.58 0.00 10.00 20.00 23.00 40.00 8550.00 1100.00 2866.00 4270.00 8760.00 8760.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 10.00 20.				MinPis WRP MnPt-ClCt MINPT-O-SD MinPt-O-SF MinPt-O-SF MinPt-O-SF TD Surface MinPt-O-SF MINPT-O-SO MINPT-O-EOU WRP MINPT-O-EOU MINPT-O-EOU MINPT-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rai - - - - - - - - - - - - - - - - - - -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 34.83 34.83 34.84 34.8	448.55 411.37 393.59 394.11 440.39 894.11 1274.23 4363.80 7710.20 538.51 538.65 538.55	418.63 393.34 360.61 359.97 397.42 414.02 1138.21 4123.71 4252.06 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 511.71 514.03 635.55 1046.41 1188.41 1524.55 1329.30	3687.45 1164.35 112.41 6.97 6.77 6.13 6.546 5.24 20.53 27.53 27.53 20.53 20.55 20.55	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m	10.00 23.00 1100.00 1920.00 1920.00 8380.00 8380.00 8380.00 8380.00 15050.00 15050.00 15050.00 15050.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 25.00 23.00 25.00 20.00 25.00 20.0	10.00 23.00 199.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 20.00 2.0000 2.0000 2.0000 2.00000000				MinPts WRP MnPt-ClCt MiNPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-ClCt MinPts MinPt-O-SF MiNPt-O-SF MINPT-O-EOU WRP MINPT-O-EOU MiNPT-O-EOU MiNPT-O-EOU MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rail - 541.01 540.69 540.55 540.55 540.55 544.52 546.83 678.92 729.89 1111.83 1241.22 1655.94 1473.55	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 454.04 32.81 31.33 32.81 31.33	448.55 411.37 333.69 394.11 440.39 884.11 1281.99 1274.23 4363.80 7710.20 538.51 538.06 538.06 538.06 538.05 538.0	418.63 393.34 360.61 1359.97 37.42 1138.21 1138.21 4252.06 7765.44 507.75 507.7	3687.45 1164.35 12.41 6.97 6.77 6.13 6.68 5.46 5.46 5.23 20.53 27.63 27.63 27.63 151857.64 6133.47 6133.47 613.87 613.47 614.47 615.57	MAS = 10.00 (m)           MAS = 10.00 (m)           OSF1.50           MAS = 10.00 (m)           OSF1.50	10.00 23.00 1190.00 1920.00 2520.00 8380.00 8380.00 8380.00 15050.00 19389.58 0 0.00 10.00 23.00 40.00 23.00 40.00 8550.00 1100.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 24.00 23.00 24.00 25.00 2	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8634.77 111930.00 111930.00 111930.00 20.00 10.00 20.00 10.00 20.00 10.00 20.00 10.00 20.00 10.00 20.00 1100.00 20.00 1100.00 20.00 1100.00 20.00 20.00 10.00 20.000				MinPis WRP MnPt-ClCt MINPT-O-SD MinPt-O-SF MinPt-O-SF MinPt-O-SF TD Surface MinPt-O-SF MINPT-O-SO MINPT-O-EOU WRP MINPT-O-EOU MINPT-O-EOU MINPT-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF MinPt-O-SF	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.05 1577.75 1577.45 8002.23 7459.75 8002.23 7459.75 8002.23 7459.75 8002.23 7459.75 8002.23 7459.75 8002.23 745.85 540.55 540.55 544.52 546.83 678.92 729.89 1111.83 1241.22 1255.54 1473.55 1473.54 2666.18 2666.1	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 34.83 34.83 34.84 34.8	448.55 411.37 333.69 394.11 40.39 894.11 1281.99 1274.23 4363.80 7710.20 538.61 538.06 538.06 537.97 534.03 538.05 538.06 537.97 534.03 538.05 538.05 1376.59 1191.85 1376.59 1376.59 1376.59	418.63 393.34 360.61 359.97 397.42 414.02 1138.21 4123.71 4252.06 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 511.71 514.03 635.55 1046.41 1188.41 1524.55 1329.30	3687.45 1164.35 112.41 6.97 6.13 6.97 6.13 6.546 5.24 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 26.05 27.63 27.64 27.65 27.64 27.64 27.65 27.64 27.65 27.64 27.65 27.64 27.65 27.64 27.65 27.64 27.65 27.64 27.55	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m	10.00 23.00 1100.00 1920.00 1920.00 8380.00 8380.00 8380.00 8380.00 15050.00 15050.00 15050.00 15050.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 25.00 23.00 25.00 20.00 25.00 20.0	10.00 23.00 199.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 20.00 2.0000 2.0000 2.0000 2.00000000				MinPts WRP MmPt-Citt MINPT-0-EOU MinPt-0-SF MinPt-OSF MinPt-Citt MinPt-Citt MinPt-Citt MinPt-0-SF MINPT-0-EOU WRP MiNPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-SE0 MinPt-0-SF	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1572.05 1577.75 1577.75 1577.75 1577.75 1577.75 1577.75 1572.05 1572.05 1540.56 540.56 540.56 540.56 540.56 544.52 544.52 544.52 544.52 544.52 1473.35 1572.05 1473.05 1475.05 1475.05 1475.05 1475.05 1475.05 1475.05	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 454.04 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 65.42 72.81 131.39 44.34 142.5[ 144.33 112.62 113.10[ 113.41 116.72	448.55 411.37 333.69 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.56 538.06 537.97 544.03 538.65 538.06 537.97 544.03 538.65 538.06 537.97 544.03 538.65 1376.59 13772 2790.13 2790.17 2791.32	418.63 393.34 396.61 395.97 397.42 814.02 7565.44 508.20 507.75 5	3687.45 1164.35 112.41 6.97 6.77 6.13 6.68 5.46 5.46 5.45 20.53 27.63 27	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	110.00 23.00 1100.00 1920.00 2520.00 2520.00 8380.00 15550.00 15550.00 20.00 23.00 40.00 20.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 2560.00 2560.00 2560.00 4750.00 8760.00 8760.00 12780.00 12780.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 10.00 20.				MinPis WRP MnPt-ClCt MINPT-0-SD MinPt-0-SF MinPt-0-SF MinPt-OSF MinPt-0-SF MinPt-0-SF MINPT-0-EOU WRP MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SP MinPt-0-ADP	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rai - - - - - - - - - - - - - - - - - - -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 31.83 31.8	448.55 411.37 393.59 394.11 440.39 894.11 1281.93 4363.80 7710.20 538.51 538.65 538.05	418.63 393.34 360.61 359.97 397.42 414.02 1138.21 4252.08 507.75	3687.45 1164.35 112.41 6.97 6.77 6.13 6.546 5.24 20.53 27.53 20.53 27.55 20.54 20.54 25.54 25.54 25.54 25.54 25.54 25.57	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 1100.00 1920.00 2520.00 2520.00 8380.00 8380.00 8380.00 8380.00 15050.00 11000.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 24.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 20.00 25	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.99 8234.77 11930.00 11000 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 247.71 2840.90 4402.85 4666.50 8614.77 9347.77 11330.00 11930.00				MinPts WRP MnPt-ClCt MINPT-0-SP MinPt-0-SF MinPt-0-SF MinPt-ClCt MinPts MinPt-OSF TD Surface MinPt-0-SF MinPt-0-SF MINPT-0-E0U MINPT-0-E0U MINPT-0-E0U MINPT-0-E0U MINPT-0-SF MinPt-0-SP MinPt-0-ADP MinPt-0-ADP	Pass
ST01 - MWD to 13935ft	451.44 449.93 462.05 464.89 528.81 1056.79 1577.75 1577.75 8002.23 rat 541.01 540.69 540.56 540.56 540.56 544.52 546.83 678.92 729.89 1111.83 1241.22 1255.94 1473.54 1247.354 1247.354 1247.354 1247.354 1247.354 1247.354 1247.354 1247.354 1247.354 1246.83 678.92 72.989.97 111.83 1247.25 1473.54 1247.354 1247.354 1247.354 1247.354 1247.354 1246.83 686.61 2869.97 2886.68 1286.58 1286.58	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 32.81 33.83 32.81 33.83 33.84	448.55 411.37 333.69 394.11 40.39 894.11 1281.99 1274.23 4363.80 7710.20 538.61 538.66 533.06 533.06 533.06 533.05 533.05 533.05 1376.59 1376.	418.63 393.34 360.61 359.97 377.42 1138.21 1138.21 1138.21 4252.06 507.75 507.75 507.75 507.75 507.75 507.75 507.75 507.75 511.13 1106.41 1168.41 1175.25 1175.26 2753.26 2753.26 2753.26 2753.26 2753.26 2753.26	3687.45 1164.35 112.41 6.97 6.77 6.13 6.58 5.46 5.23 20.63 27.63 27.63 28.53 27.63 28.53 27.63 28.63 26.64 26.45 26.45 26.45 26.45 26.45 26.45 26.45 26.45 26.45 26.45 28.97 39.01 38.87 43.77 66 32.97 32.07	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 1100.00 1920.00 2520.00 46330.00 8380.00 8780.00 15050.00 19389.58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.00 23.00 1100.00 1919.96 1989.96 2512.44 4550.59 8234.77 11390.00 11930.00 11930.00 20.00 0.00 10.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 11930.00 11930.00 11930.00 11930.00				MinPts WRP MnPt-CiCt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SP MinPt-0-SP MinPt-0-SAP MinPt-0-SAP	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rai - - - - - - - - - - - - - - - - - - -	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 31.83 31.8	448.55 411.37 393.59 394.11 440.39 894.11 1281.93 4363.80 7710.20 538.51 538.65 538.05	418.63 393.34 360.61 359.97 397.42 414.02 1138.21 4252.08 507.75	3687.45 1164.35 112.41 6.97 6.77 6.13 6.546 5.24 20.53 27.53 20.53 27.55 20.54 20.54 25.54 25.54 25.54 25.54 25.54 25.57	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 1100.00 1920.00 2520.00 2520.00 8380.00 8380.00 8380.00 8380.00 15050.00 11000.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 24.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 20.00 25	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.99 8234.77 11930.00 11000 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 247.71 2840.90 4402.85 4666.50 8614.77 9347.77 11330.00 11930.00				MinPts WRP MnPt-ClCt MINPT-0-SP MinPt-0-SF MinPt-0-SF MinPt-ClCt MinPts MinPt-OSF TD Surface MinPt-0-SF MinPt-0-SF MINPT-0-E0U MINPT-0-E0U MINPT-0-E0U MINPT-0-E0U MINPT-0-SF MinPt-0-SP MinPt-0-ADP MinPt-0-ADP	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 74 540.56 540.56 540.56 540.56 540.56 544.52 546.83 678.92 729.89 1111.83 1241.22 1255.94 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1473.55 1286.88 2866.61 2869.97 2884.99 2886.08 2862.21	32.81 56.59 101.44 124.92 131.39 242.77 433.84 454.04 32.81 33.81 32.81 33.81 32.81 33.813	448.55 411.37 333.69 394.11 440.39 894.11 1281.99 1274.23 4365.80 7710.20 538.65 538.06 537.97 534.03 538.05 538.06 537.97 534.03 538.06 537.97 534.03 538.05 1376.89 2790.13 2790.13 2790.13 2790.13 2795.05 2795.05 2794.82 2746.82 2746.84	418.63 393.34 390.61 1359.97 397.42 1138.21 1138.21 4252.06 507.75 507.7	3687.45 1164.35 112.41 6.97 6.77 6.13 5.46 5.46 5.23 20.53 27.63 27.63 27.63 27.63 27.63 27.63 27.63 27.63 26.68 151857.64 6133.47 6133.47 6133.47 6133.47 6133.47 613.47 7 615.67 7 7 62.67 7 62.67 7 7 62.57 7 7 5.57	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	110.00 23.00 1100.00 1920.00 2520.00 4630.00 8780.00 15550.00 19389.58 0 0.00 10.00 20.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 23.00 40.00 2560.00 2560.00 2760.00 4750.00 8760.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 1280.00 1280.00 15200.00 15200.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4450.59 8234.77 11930.00 10.00 20.				MinPis WRP MnPt-ClCt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-0-SF TD Sufface MinPt-0-SF MINPT-0-EOU WRP MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SP MinPt-0-ADP MinPt-0-ADP MinPt-0-CDU	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1572.05 1577.75 4589.75 8002.23 307.75 4589.75 8002.23 307.75 4589.75 8002.23 317.45 540.56 540.56 540.56 540.56 540.56 540.56 540.56 544.52 546.83 128.97 2866.36 2866.36 2866.36 2866.38 2866.49 2866.80 2866.49 2866.77 2866.77 2866.77 2862.71 286	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 31.82 31.8	448.55 411.37 393.59 394.11 440.39 894.11 1281.92 894.11 1281.92 894.11 1281.92 894.11 1274.23 4363.80 7710.20 538.51 538.65 538.06 538.06 538.06 538.06 538.05 537.52 2790.17 2795.05 2746.65 2746.59 2746.	418.63 393.34 360.61 359.97 377.42 4252.08 7765.44 508.20 507.75	3687.45 1164.35 112.41 6.97 6.77 6.13 6.69 5.46 5.23 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.63 20.53 27.63 20.63 20.63 20.63 20.63 20.63 20.64 2	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 1100.00 2520.00 2520.00 8380.00 8380.00 8380.00 8380.00 15050.00 23.00 40.00 850.00 1100.00 23.00 40.00 850.00 1100.00 2860.00 2860.00 2860.00 2860.00 2860.00 2860.00 2860.00 2860.00 2860.00 1260.00 12730.00 12730.00 12730.00 12730.00 1280.00 12730.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 1280.00 15200.00 15200.00	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.99 8234.77 11330.00 1100.00 23.00 40.00 23.00 40.00 23.00 40.00 850.00 1100.00 23.00 40.00 850.00 1100.00 850.00 850.00 810.00 850.00 810.00 850.00 810.00 850.00 1130.00 11330.00 11330.00 11330.00 11330.00 11330.00				MinPts WRP MnPt-ClCt MINPT-O-EOU MinPt-O-SF MinPt-O-SF MinPt-O-SF TD Surface MinPt-O-SF MinPt-O-SF MinPt-O-SF MINPT-O-EOU MINPT-O-EOU MinPt-O-SF MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.70 1577.75 4589.75 8002.23 74 541.01 540.56	32.81 56.59 101.44 104.92 131.39 242.77 433.34 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 46.542 72.81 131.39 144.25 113.41 113.41 113.41 113.41 113.41 113.45 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.15 113.45 1	448.55 411.37 333.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.65 538.06 537.97 538.05 538.06 537.97 538.05 538.06 537.97 534.03 533.86 650.49 699.50 1067.39 1191.85 1376.65 1376.65 1376.65 1376.65 2790.27 2790.13 2790.13 2790.27 2790.13 2790.27 2790.13 2795.2 2795.2 2795.2 2795.2 2795.2 2746.82 2746.59 2746.51 2746.51	418.63 393.34 360.61 359.97 377.42 4252.08 7765.44 500.20 507.78 507.75 500.75	3687.45 1164.35 112.41 6.97 6.77 6.13 6.546 5.24 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 20.53 20.53 27.63 20.54 20.54 20.54 20.54 20.54 20.54 20.54 20.57	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m	10.00 23.00 1100.00 1220.00 1990.00 8380.00 8380.00 8380.00 15050.00 113389.58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 23.00 40.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 240.00 1100.00 244.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00				MinPts WRP MnPt-CICt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-CICt MinPt-CSF MinPt-CSF MINPT-0-EOU WRP MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SP MinPt-0-SP MinPt-0-SD MinPt-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1572.05 1577.75 4589.75 8002.23 3002.25 3002.25	32.81 56.59 101.44 104.92 131.39 242.77 433.84 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 65.42 72.81 131.39 44.34 65.42 72.81 131.39 44.33 112.62 113.41 116.72 113.41 116.72 133.66 137.36[ 172.23] 772.33 179.45[ 181.55]	448.55 411.37 333.69 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.65 538.06 537.97 538.06 538.06 537.97 538.06 538.06 537.97 538.06 538.06 537.97 538.06 538.05 1376.89 2790.13 2790.13 2790.13 2790.13 2795.05 2796.55 1376.89 2796.13 2795.05 2796.48 2796.48 2796.44 2746.82 2746.82 2746.81 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.31 2746.79 2746.31 2746.31 2746.79 2746.31 2746.79 2746.31 2746.79 2746.31 2746.79 2746.31 2746.79 2746.	418.63 393.34 390.61 395.97 397.42 1138.21 1138.21 1138.21 4252.08 507.75 507.7	3687.45 1164.35 112.41 6.97 6.77 6.13 6.69 5.46 5.23 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.53 27.63 20.63 20.53 27.63 20.63 20.63 20.63 20.63 20.63 20.64 2	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	110.00 23.00 1100.00 2520.00 2520.00 8380.00 8380.00 15550.00 20.00 23.00 40.00 8550.00 1100.00 23.00 40.00 8550.00 1100.00 2380.00 4270.00 22660.00 4270.00 22660.00 4270.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 12780.00 15500.00 15500.00 15500.00	10.00 23.00 1100.00 1919.95 1989.86 2512.44 4550.59 8234.77 11330.00 10.00 20.				MinPis WRP MnPt-ClCt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF TD Surface MinPt-0-SF MINPT-0-EOU WRP MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SCU MINPT-0-EOU MinPt-0-ADP MinPt-0-CADP MinPt-0-CADP MinPt-0-CADP	Pass
ST01 - MWD to 13935ft	451.44 449.33 462.05 464.89 528.81 1056.79 1577.75 4589.75 8002.23 rail 541.01 540.69 540.56 540.56 540.56 540.56 544.52 546.83 678.92 729.89 1111.83 1241.22 1655.94 1473.55 1473.55 1473.55 1473.55 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 1473.85 12866.81 2886.97 2886.97 2886.97 2886.97 2886.97 2866.71 2866.71 2866.71 2866.71 2866.71 2866.71 2866.71 2866.75 28	32.81 56.59 101.44 104.92 131.39 242.77 433.34 454.04 337.67 436.79 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 41.39 44.34 46.542 72.81 131.39 144.25 113.41 113.41 113.41 113.41 113.41 113.45 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.25 113.15 113.45 1	448.55 411.37 333.59 394.11 440.39 894.11 1281.99 1274.23 4363.80 7710.20 538.51 538.65 538.06 537.97 538.05 538.06 537.97 538.05 538.06 537.97 534.03 533.86 650.49 699.50 1067.39 1191.85 1376.65 1376.65 1376.65 1376.65 2790.27 2790.13 2790.13 2790.27 2790.13 2790.27 2790.13 2795.2 2795.2 2795.2 2795.2 2795.2 2746.82 2746.59 2746.51 2746.51	418.63 393.34 360.61 359.97 377.42 4252.08 7765.44 500.20 507.78 507.75 500.75	3687.45 1164.35 112.41 6.97 6.77 6.13 6.68 5.46 5.46 5.46 5.23 20.53 27.53 27.53 27.53 27.53 15185.764 6133.47 6133.47 6133.47 6133.47 5.19 26.09 26.09 26.08 26.43 19.24 15.55 15.56 38.84 38.84 38.74 37.56 26.25 26.22 25.17 32.0	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m	10.00 23.00 1100.00 1220.00 1990.00 8380.00 8380.00 8380.00 15050.00 113389.58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.00 23.00 1100.00 1919.96 1989.86 2512.44 4550.59 8234.77 11930.00 111930.00 23.00 40.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 23.00 240.00 240.00 1100.00 244.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00				MinPts WRP MnPt-CICt MINPT-0-EOU MinPt-0-SF MinPt-0-SF MinPt-CICt MinPt-CSF MinPt-CSF MINPT-0-EOU WRP MINPT-0-EOU MINPT-0-EOU MINPT-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SF MinPt-0-SP MinPt-0-SP MinPt-0-SD MinPt-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU MINPT-0-EOU	Pass

		eparation MAS (ft) E	OU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference T MD (ft)	rajectory TVD (ft)	Alert	Risk Level Minor	Majo	Alert	Status
	2872.17	206.09	2733.95	2666.09	21.14	OSF1.50	16350.00	11930.00	Aien		Major	MinPt-O-ADP	
	2875.18 2900.88	213.24 217.06	2732.19 2755.34	2661.94 2683.82	20.45 20.26	OSF1.50 OSF1.50	16550.00 16890.00	11930.00 11930.00				MinPts MinPt-O-SF	
	4074.79	221.28	3926.44	3853.51	27.92	OSF1.50	19389.58	11930.00				TD	
025-41852 - James 29													
leral 38H ST01 - MWD to													Pass
40ft - A (Def Survey)	821.22	32.81	818.72	788.41	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	rass
	821.01	32.81	818.48	788.20	28370.45	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	820.92 820.92	32.81 32.81	818.41 818.42	788.12 788.11	85093.65 230985.13	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 23.00	20.00 23.00				MINPT-O-EOU WRP	
	820.80	32.81	817.84	787.99	1786.64	MAS = 10.00 (m)	90.00	90.00				MinPts	
	820.66	32.81	815.84	787.85	353.06	MAS = 10.00 (m)	280.00	280.00				MinPts	
	820.61 820.68	32.81 32.81	814.79 814.06	787.80 787.87	246.66 198.67	MAS = 10.00 (m) MAS = 10.00 (m)	380.00 460.00	380.00 460.00				MinPts MinPts	
	826.48	32.81	808.29	793.67	52.53	MAS = 10.00 (m)	1620.00	1620.00				MINPT-O-EOU	
	828.26	32.81	808.27	795.45	47.21	MAS = 10.00 (m)	1800.00	1800.00				MINPT-O-EOU	
	2006.40 2005.36	114.01 132.28	1929.56 1916.34	1892.39 1873.08	26.96 23.15	OSF1.50 OSF1.50	7470.00 8750.00	7324.77 8604.77				MinPt-CtCt MinPt-CtCt	
	2005.76	134.22	1915.45	1871.54	22.81	OSF1.50	8900.00	8754.77				MINPT-O-EOU	
	2005.85	134.32	1915.47	1871.53	22.80	OSF1.50	8910.00	8764.77				MinPt-O-ADP	
	2014.86 2054.20	135.94 140.44	1923.41 1959.74	1878.93 1913.76	22.62 22.31	OSF1.50 OSF1.50	9140.00 9470.00	8994.77 9324.77				MinPt-O-SF MinPts	
	2056.16	140.65	1961.56	1915.51	22.30	OSF1.50	9500.00	9354.77				MinPt-O-SF	
	3240.78	123.85	3157.38	3116.93	40.03	OSF1.50	12650.00	11930.00				MinPt-CtCt	
	3240.54 3240.65	126.29 126.56	3155.52 3155.44	3114.25 3114.08	39.24 39.15	OSF1.50 OSF1.50	12830.00 12860.00	11930.00 11930.00				MinPt-CtCt MINPT-O-EOU	
	3240.03	126.66	3155.46	3114.08	39.15	OSF1.50	12870.00	11930.00				MinPt-O-ADP	
	3247.69	129.69	3160.40	3118.00	38.27	OSF1.50	13090.00	11930.00				MinPts	
	3223.51 3224.06	176.06 180.41	3105.30 3102.95	3047.45 3043.65	27.84 27.16	OSF1.50 OSF1.50	14860.00 15000.00	11930.00 11930.00				MinPt-CtCt MinPt-CtCt	
	3224.06	180.41	3102.95 3102.39	3043.65	27.16	OSF1.50 OSF1.50	15000.00	11930.00				MINPT-O-EOU	
	3225.35	182.98	3102.52	3042.36	26.79	OSF1.50	15120.00	11930.00				MinPt-O-ADP	
	3219.57 3220.14	210.17	3078.63	3009.40	23.24 23.04	OSF1.50	15870.00	11930.00				MinPt-CtCt MINPT-O-EOU	
	3220.14 3220.88	211.94 212.82	3078.01 3078.17	3008.20 3008.06	23.04 22.95	OSF1.50 OSF1.50	15950.00 15990.00	11930.00 11930.00				MINPT-O-EOU MinPt-O-ADP	
	3289.20	229.39	3135.44	3059.81	21.73	OSF1.50	16740.00	11930.00				MinPt-O-SF	
	4527.42	233.53	4370.90	4293.89	29.38	OSF1.50	19389.58	11930.00				TD	
025-35888 - James Federal INC Only to 8700ft - A (Def													
vey)													Pass
	1652.45 1652.32	32.81 32.81	1649.95 1649.80	1619.64 1619.51	N/A 86315.17	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPt-O-SF	
	1652.25	32.81	1649.74		200133.01	MAS = 10.00 (m)	23.00	23.00				WRP	
	1652.24	32.81	1649.66	1619.44	19216.83	MAS = 10.00 (m)	30.00	30.00				MinPts	
	1647.19 1652.82	71.35 97.16	1598.80 1587.21	1575.85 1555.65	35.83 26.15	OSF1.50 OSF1.50	1420.00 1930.00	1420.00 1929.96				MinPt-CtCt MINPT-O-EOU	
	1663.39	110.05	1589.19	1553.35	23.17	OSF1.50	2170.00	2168.97				MinPt-O-ADP	
	2321.89	401.79 457.82	2053.20	1920.10	8.71 7.67	OSF1.50 OSF1.50	7800.00	7654.77				MinPt-CtCt MinPts	
	2330.82 2330.84	457.83	2024.77 2024.79	1873.00 1873.01	7.67	OSF1.50	8870.00 8880.00	8724.77 8734.77				MinPts MinPt-O-SF	
	3539.71	225.07	3388.83	3314.64	23.84	OSF1.50	13590.00	11930.00				MinPt-CtCt	
	3539.75 3539.81	225.19	3388.79 3388.80	3314.56 3314.55	23.83 23.82	OSF1.50 OSF1.50	13610.00	11930.00				MINPT-O-EOU MinPt-O-ADP	
	4401.59	225.26 342.12	4172.68	4059.47	23.82 19.43	OSF1.50	13620.00 16210.00	11930.00 11930.00				MinPt-O-SF	
	6791.21	428.81	6504.50	6362.40	23.89	OSF1.50	19389.58	11930.00				TD	
025-36773 - James Federal INC Only to 8639ft - A (De													
vey)													Pass
	1887.81 1887.76	32.81 32.81	1885.31 1884.97	1855.01 1854.96	N/A 6369.64	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00	0.00 23.00				Surface WRP	
	1885.44	32.81	1871.10	1852.64	158.96	MAS = 10.00 (m)	350.00	350.00				MinPts	
	1733.53	254.13	1563.27	1479.40	10.32	OSF1.50	4870.00	4782.41				MinPt-CtCt	
	1738.38 1746.44	268.98 280.55	1558.23 1558.57	1469.40 1465.89	9.77 9.41	OSF1.50 OSF1.50	5160.00 5370.00	5062.53 5265.37				MINPT-O-EOU MINPT-O-EOU	
	1771.84	322.99	1555.68	1448.85	8.28	OSF1.50	6180.00	6047.77					
												MINPT-O-EOU	
	1796.59	432.08	1507.70	1364.50	6.26	OSF1.50	8290.00	8144.77				MINPT-O-EOU MinPt-CtCt	
	1796.59 1804.52	432.08 456.14	1507.70 1499.59 1498.06	1364.50 1348.38 1345.65	6.26 5.96 5.91	OSF1.50 OSF1.50	8290.00 8790.00	8644.77				MINPT-O-EOU MinPt-CtCt MINPT-O-EOU	
	1796.59 1804.52 1805.39 3285.51	432.08 456.14 459.75 125.61	1499.59 1498.06 3200.94	1348.38 1345.65 3159.90	5.96 5.91 40.00	OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00	8644.77 8674.77 11930.00				MINPT-O-EOU MinPt-CtCt MINPT-O-EOU MinPts MinPt-CtCt	
	1796.59 1804.52 1805.39 3285.51 3285.59	432.08 456.14 459.75 125.61 125.82	1499.59 1498.06 3200.94 3200.88	1348.38 1345.65 3159.90 3159.77	5.96 <b>5.91</b> 40.00 39.93	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00 13630.00	8644.77 8674.77 11930.00 11930.00				MINPT-O-EOU MinPt-CtCt MINPT-O-EOU MinPts MinPt-CtCt MINPT-O-EOU	
	1796.59 1804.52 1805.39 3285.51	432.08 456.14 459.75 125.61	1499.59 1498.06 3200.94	1348.38 1345.65 3159.90	5.96 5.91 40.00	OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00	8644.77 8674.77 11930.00				MINPT-O-EOU MinPt-CtCt MINPT-O-EOU MinPts MinPt-CtCt	
	1796.59 1804.52 1805.39 3285.51 3285.59 3285.94	432.08 456.14 459.75 125.61 125.82 126.24	1499.59 1498.06 3200.94 3200.88 3200.95	1348.38 1345.65 3159.90 3159.77 3159.70	5.96 <b>5.91</b> 40.00 39.93 39.80	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00 13630.00 13660.00	8644.77 8674.77 11930.00 11930.00 11930.00				MINPT-O-EOU MinPt-CtCt MINPT-O-EOU MinPts MinPt-CtCt MINPT-O-EOU MinPt-O-ADP	
	1796.69 1804.52 1805.39 3285.51 3285.59 3285.94 4464.86 6651.04	432.08 456.14 459.75 125.61 125.82 126.24 340.46	1499.59           1498.06           3200.94           3200.88           3200.95           4237.06	1348.38 1345.65 3159.90 3159.77 3159.70 4124.40	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00 13630.00 13660.00 16630.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00				MINPT-O-EOU MinP+CiCU MINPT-O-EOU MinPs MinPt-CiCt MINPT-O-EOU MinPt-O-ADP MinPt-O-SF	
INC Only to 8865ft - A (De	1796.69 1804.52 1805.39 3285.51 3285.59 3285.94 4464.86 6651.04	432.08 456.14 459.75 125.61 125.82 126.24 340.46	1499.59           1498.06           3200.94           3200.88           3200.95           4237.06	1348.38 1345.65 3159.90 3159.77 3159.70 4124.40	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8820.00 13610.00 13630.00 13660.00 16630.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00				MINPT-O-EOU MinPt-O-EOU MINPT-O-EOU MinPt-O-EOU MINPT-O-EOU MinPt-O-ADP MinPt-O-SF TD	Pass
INC Only to 8865ft - A (De	1796.59 1804.52 1805.39 3285.51 3285.59 3285.94 4464.86 6651.04 al	432.08 456.14 459.75 125.61 125.82 126.24 340.46 423.16	1499.59           1498.06           3200.94           3200.88           3200.95           4237.06           6368.10	1348.38 1345.65 3159.90 3159.77 3159.70 4124.40 6227.88 1792.52 1792.52 1792.41	5.96 5.91 40.00 39.93 39.80 19.81 23.71	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	8290.00 8790.00 8820.00 13630.00 13630.00 13660.00 16630.00 19389.58	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-O-SF TD F Surface MinPt-O-SF	Pass
INC Only to 8865ft - A (De	1796.59 1804.52 1805.39 3285.59 3285.59 3285.94 4464.86 6651.04 al ef 1825.33 1825.22 1825.17	432.08 456.14 459.75 125.61 125.82 126.24 340.46 423.16 32.81 32.81 32.81	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66	1348.38 1345.65 3159.90 3159.77 3159.70 4124.40 6227.88 1792.52 1792.52 1792.41 1792.36	5.96 5.91 40.00 39.93 39.80 19.81 23.71 N/A 120388.07 210667.72	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	8290.00 8790.00 8820.00 13610.00 13660.00 16630.00 19389.58 0.00 10.00 20.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 0.00 10.00 20.00				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-ST TD Surface MinPt-O-SF MINPT-O-EOU MINPT-O-EOU	Pass
INC Only to 8865ft - A (De	1796.59 1804.52 1805.39 3285.59 3285.99 3285.94 4464.86 6651.04 ad ef 1825.33 1825.22	432.08 456.14 459.75 125.61 125.82 126.24 340.46 423.16 32.81 32.81	1499.59           1498.06           3200.94           3200.95           4237.06           6368.10           1822.83           1822.71	1348.38 1345.65 3159.90 3159.77 3159.70 4124.40 6227.88 1792.52 1792.52 1792.41 1792.36	5.96 5.91 40.00 39.93 39.80 19.81 23.71 N/A 120388.07	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	8290.00 8790.00 8820.00 13610.00 13630.00 13660.00 19389.58 0.00 1.000	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-O-SF TD F Surface MinPt-O-SF	Pass
INC Only to 8865ft - A (De	1796.59 1804.52 1804.52 1805.39 3285.54 3285.54 4464.86 6651.04 al ef 1825.33 1825.22 1825.17 1825.17 1825.17 1825.17	432.08 456.14 459.75 125.61 125.82 126.24 340.46 423.16 32.81 3	1499.59 1498.06 3200.94 3200.88 3200.95 6368.10 1822.83 1822.71 1822.66 1822.67 1822.67 1782.11 1782.11	1348.38 1345.65 3159.90 3159.77 3159.77 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1792.36 1761.34 1761.34 1761.34	5.96 5.91 40.00 39.93 39.80 19.81 23.71 23.71 120388.07 210667.72 732754.00 43.91 29.69	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m)	8290.00 8790.00 88220.00 13610.00 13660.00 13660.00 19389.58 0.00 19389.58 0.00 20.00 23.00 1320.00 1320.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 20.00 20.00 23.00 1320.00 1889.99				MINPT-O-EOU MinPt-CiCt MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF TD TD Surface MinPt-O-SF MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
- INC Only to 8865ft - A (De	1796.59 1804.52 1805.39 2285.51 3285.59 3285.59 3285.94 4464.86 6651.04 4464.86 6651.04 1825.33 1825.27 1825.17 1825.17 1825.17 1825.17 1825.17 1825.17	432.08 456.14 125.61 125.62 126.64 340.46 423.16 32.81 32.81 32.81 64.80 94.80 97.99	1499.59 1498.06 3200.94 3200.88 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66 1822.67 1782.11 1765.06	1348.38 1345.65 3159.77 3159.77 3159.77 4124.40 6227.88 1792.52 1792.41 1792.38 1792.38 1792.38 1761.34 1734.30 1733.77	5.96 5.91 40.00 39.93 39.80 19.81 23.71 120388.07 210667.72 732754.00 43.91 29.69 28.74	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50	8290.00 8790.00 88220.00 13610.00 13660.00 13660.00 13660.00 13680.00 13989.58 0.00 10.00 20.00 23.00 1320.00 1320.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 20.00 20.00 23.00 1320.00 1320.00 1329.99 1949.93				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU Surface MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU	Pass
INC Only to 8865ft - A (De	1796.59 1804.52 1804.52 1805.39 3285.54 3285.54 4464.86 6651.04 al ef 1825.33 1825.22 1825.17 1825.17 1825.17 1825.17	432.08 456.14 459.75 125.61 125.82 126.24 340.46 423.16 32.81 3	1499.59 1498.06 3200.94 3200.88 3200.95 6368.10 1822.83 1822.71 1822.66 1822.67 1822.67 1782.11 1782.11	1348.38 1345.65 3159.90 3159.77 3159.77 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1792.36 1761.34 1761.34 1761.34	5.96 5.91 40.00 39.93 39.80 19.81 23.71 23.71 120388.07 210667.72 732754.00 43.91 29.69	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m)	8290.00 8790.00 88220.00 13610.00 13660.00 13660.00 19389.58 0.00 19389.58 0.00 20.00 23.00 1320.00 1320.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 20.00 20.00 23.00 1320.00 1889.99				MINPT-O-EOU MinPt-CiCt MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF TD TD Surface MinPt-O-SF MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
- INC Only to 8865ft - A (De	1796.59 1804.52 1805.39 2285.51 3285.59 3285.59 4464.86 6651.04 4464.86 6651.04 1825.33 1825.27 1825.17 182	432.08 456.14 459.75 125.61 125.82 340.46 423.16 32.81 32.81 32.81 32.81 32.81 32.81 64.80 94.80 97.99 363.01 445.83	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66 1822.67 1782.11 1782.15 1782.15 1782.15 1782.15 1782.50 2751.28 2690.06 2681.96 2681.96	1348.38 1346.65 3159.70 3159.77 3159.70 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1792.36 1792.36 1792.36 1793.377 2631.10 2542.28 2527.65	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b> 23.71 <b>N/A</b> <b>12038.07</b> 210667.72 732754.00 43.91 29.69 28.74 12.45 10.10 <b>9.68</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8822.00 13610.00 13660.00 16630.00 19389.58 0.00 10.00 20.00 23.00 1320.00 1320.00 1320.00 1320.00 1320.00 1890.00 7100.00 8660.00	8644,77 8674,77 11930,00 11930,00 11930,00 11930,00 11930,00 11930,00 11930,00 10,00 20,00 23,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,0000 10,0000 10,0000 10,00000000				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MinPt-CiCt MinPt-CiCt	ass
INC Only to 8865ft - A (De	1796.59           1804.52           1805.39           3285.51           3285.59           3285.94           4464.86           6651.04           1825.33           1825.22           1825.51           1825.517           1825.17           1825.17           1825.17           1825.44           1825.17           1825.41           1829.10           1831.76           2994.12           2984.11	432.08 456.14 125.61 125.62 430.46 423.16 32.81 32.81 32.81 32.81 4.80 94.80 97.99 363.01 445.83	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.67 1782.11 1765.60 1765.60 2751.28 2690.06	1348.38 1346.56 3159.77 3159.70 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1792.36 1792.36 1793.377 2631.10 2542.28	5.96 5.91 40.00 39.93 39.80 19.81 23.71 210667.72 732754.00 43.91 29.69 28.74 12.45 10.10	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 8822.00 13610.00 13630.00 16630.00 19389.58 0 0 0.00 10.00 20.00 23.00 1320.00 1320.00 1320.00 1350.00 7100.00 8850.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 120.00 23.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 5854.77				MINPT-O-EOU MinPI-CICt MINPT-O-EOU MINPT-O-EOU MinPI-O-EOU MinPI-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	ass
INC Only to 8865ft - A (De vey)	1796.59           1804.52           1805.39           3265.51           3265.59           3285.94           4464.86           6651.04           1825.33           1825.22           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1826.14           1829.10           1831.76           2994.12           2994.12           2994.303.67           3306.95	432.08 456.14 459.75 125.61 125.82 340.46 423.16 32.81	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66 1822.67 1782.11 1765.60 17751.28 2690.06 2751.28 2681.96 4130.49	1348.38 <b>1346.65</b> 3159.70 3159.77 <b>3159.70</b> <b>4124.40</b> 6227.88 <b>1792.52</b> <b>1792.41</b> <b>1792.36</b> <b>1792.36</b> <b>1761.34</b> <b>1732.37</b> <b>1733.77</b> <b>2631.10</b> <b>2542.28</b> <b>2527.55</b>	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b> 23.71 <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>10</b>	MAS = 10.00 (m) MAS = 10.00 (m	8220.00 8790.00 8822.00 13610.00 13660.00 13660.00 13660.00 13389.58 0.00 10.00 22.00 23.00 1320.00 1320.00 1320.00 1880.00 1950.00 7100.00 6650.00 9060.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 10.00 20.00 20.00 23.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.07 1340.07 1340.0				MINPT-O-EOU MinPt-CICt MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF TD TD Surface MINPT-O-EOU	Pass
INC Only to 8865ft - A (De vey) 025-46023 - Alley Cat 17-21 Com 524H - MWD to	1796.59           1804.52           1805.39           3265.51           3265.59           3285.94           4464.86           6651.04           1825.33           1825.22           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1826.14           1829.10           1831.76           2994.12           2994.12           2994.29           4363.67           63306.95	432.08 456.14 459.75 125.61 125.82 340.46 423.16 32.81	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66 1822.67 1782.11 1765.60 17751.28 2690.06 2751.28 2681.96 4130.49	1348.38 <b>1346.65</b> 3159.70 3159.77 <b>3159.70</b> <b>4124.40</b> 6227.88 <b>1792.52</b> <b>1792.41</b> <b>1792.36</b> <b>1792.36</b> <b>1761.34</b> <b>1732.37</b> <b>1733.77</b> <b>2631.10</b> <b>2542.28</b> <b>2527.55</b>	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b> 23.71 <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>10</b>	MAS = 10.00 (m) MAS = 10.00 (m	8220.00 8790.00 8822.00 13610.00 13660.00 13660.00 13660.00 13389.58 0.00 10.00 22.00 23.00 1320.00 1320.00 1320.00 1880.00 1950.00 7100.00 6650.00 9060.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 10.00 20.00 20.00 23.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.07 1340.07 1340.0				MINPT-O-EOU MinPt-OCI MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-SF TD TD Surface MINPT-O-SF MINPT-O-SF MINPT-O-SF MINPT-O-CI MINPT	
025-37778 - James Federal INC Only to 8865ft - A (De vvey) 2025-46023 - Alley Cat 17-2( 21 Can 524H - MWD to 13ft - A (Def Survey)	1796.59           1804.52           1805.39           3265.51           3265.59           3285.94           4464.86           6651.04           1825.33           1825.22           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1826.14           1829.10           1831.76           2994.12           2994.12           2994.29           4363.67           63306.95	432.08 456.14 459.75 125.61 125.82 340.46 423.16 32.81	1499.59 1498.06 3200.94 3200.95 4237.06 6368.10 1822.83 1822.71 1822.66 1822.67 1782.11 1765.60 17751.28 2690.06 2751.28 2681.96 4130.49	1348.38 <b>1346.65</b> 3159.70 3159.77 <b>3159.70</b> <b>4124.40</b> 6227.88 <b>1792.52</b> <b>1792.41</b> <b>1792.36</b> <b>1792.36</b> <b>1761.34</b> <b>1732.37</b> <b>1733.77</b> <b>2631.10</b> <b>2542.28</b> <b>2527.55</b>	5.96 <b>5.91</b> 40.00 39.93 39.80 <b>19.81</b> 23.71 <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>1005</b> <b>10</b>	MAS = 10.00 (m) MAS = 10.00 (m	8220.00 8790.00 8822.00 13610.00 13660.00 13660.00 13660.00 13389.58 0.00 10.00 22.00 23.00 1320.00 1320.00 1320.00 1880.00 1950.00 7100.00 6650.00 9060.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 10.00 20.00 20.00 23.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.00 1320.07 1340.07 1340.0				MINPT-O-EOU MinPt-OCI MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-SF TD TD Surface MINPT-O-SF MINPT-O-SF MINPT-O-SF MINPT-O-CI MINPT	Pass
INC Only to 8865ft - A (De vey) 025-46023 - Alley Cat 17-21 Com 524H - MWD to	1796.59           1804.52           1805.39           3265.51           3265.59           3285.51           3285.51           1825.33           1825.33           1825.22           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1825.17           1826.11           2994.12           2984.11           2993.29           4363.67           6306.95           00           9394.78           9371.87	432.08 456.14 459.75 125.61 125.82 340.46 423.16 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 42.31 64.80 97.99 363.01 445.83 465.74 455.88	1499.53 1490.05 3200.94 3200.93 3200.93 4237.06 6368.10 1822.71 1822.66 1822.71 1822.66 1822.71 1822.60 1822.61 1925.61 1935.61 1935.6	1348.38 1346.65 3159.90 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1781.34 1781.34 1781.34 1781.34 1781.37 2631.10 2542.28 2527.55 4015.15 7851.07	5.96 6.91 40.00 39.80 19.81 23.71 120386.07 210667.72 732754.00 732754.00 732754.00 9.68 10.10 9.68 10.91 27.47 55.16 55.16 55.11	OSF1.50 OSF1.50	8290.00 8790.00 8822.00 13610.00 13630.00 16630.00 19389.58 0 0.00 13389.58 0 13280.00 1320.00 1320.00 1320.00 1320.00 13950.00 13950.00 13959.58	8644,77 8674,77 11930,00 11930,00 11930,00 11930,00 11930,00 11930,00 10,00 20,00 23,00 1320,00 1320,00 1320,00 1320,00 1320,00 1320,00 1349,93 1549,477 11930,00 11930,00 11930,00 23,00				MINPT-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF	
INC Only to 8865ft - A (De vey) 025-46023 - Alley Cat 17-21 Com 5241 - MWD to	1796.59           1804.52           1805.39           3285.51           3285.59           3285.94           4464.86           6651.04           al           1825.33           1825.22           1825.17           1825	432.08 456.14 459.75 125.61 126.24 340.46 423.16 32.81 32.81 32.81 32.81 32.81 423.16 94.80 97.99 363.01 445.83 455.88	1499.59 1498.06 3200.94 2200.88 3200.95 6368.10 1822.71 1822.67 1782.11 1782.12 1782.12 1765.60 2751.28 2690.06 2881.96 4130.49 8002.19	1348.38 1346.65 3159.90 3159.97 3159.70 4124.40 6227.88 1792.52 1792.41 1792.36 1792.36 1792.36 1792.36 1792.36 1792.36 1761.34 1743.30 2531.10 2542.28 2537.55 7851.07	5.96 5.91 40.00 39.93 39.80 19.81 23.71 210667.72 732754.00 43.91 29.69 28.74 12.45 10.10 9.68 18.91 27.47 55.16	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	8290.00 8790.00 13610.00 13630.00 13630.00 13630.00 13630.00 13630.00 13630.00 13389.58 0.00 13280.00 13280.00 13280.00 13280.00 13280.00 13280.00 13280.00	8644.77 8674.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 10.00 20.00 20.00 23.00 189.99 1949.93 6094.77 8504.77 8504.77 8504.77 11930.00				MINPT-O-EOU MinPt-CiCt MINPT-O-EOU	

		Separation	50	Allow	Sep.	Controlling	Reference		•• ·	Risk Level	 a la s	Alert	Status
marex James Federal 20H	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	lajor		I
01 MWD 8951ft to 14067ft ef Survey)													Pass
	1911.80 1911.80	32.81 32.81	1909.30 1909.30	1878.99 1878.99	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00	0.00 23.00				Surface	
	1910.43	32.81	1903.63	1877.62	443.86	MAS = 10.00 (m)	490.00	490.00				MinPts	3
	1911.38 3185.07	32.81 108.46	1902.31 3111.93	1878.57 3076.61	290.82 45.05	MAS = 10.00 (m) OSF1.50	730.00 7160.00	730.00 7014.77				MINPT-O-EOL MinPt-O-ADF	
	3165.07	106.40	3118.35	3076.61	43.44	OSF1.50 OSF1.50	7480.00	7014.77				MinPt-O-ADF	
	3195.64	113.84	3118.91	3081.80	43.02	OSF1.50	7540.00	7394.77				MinPt-O-ADF	
	2868.87 2868.89	148.52 148.56	2769.02 2769.01	2720.35 2720.33	29.45 29.44	OSF1.50 OSF1.50	9570.00 9580.00	9424.77 9434.77				MinPt-CtC MinPts	
	2873.43	149.14	2773.17	2724.29	29.37	OSF1.50	9730.00	9584.77				MinPt-O-SF	
	3709.09 3709.71	140.25 141.97	3614.75 3614.22	3568.84 3567.73	40.36 39.87	OSF1.50 OSF1.50	12970.00 13090.00	11930.00 11930.00				MinPt-CtC MINPT-O-EOL	
	3713.93	154.60	3610.03	3559.33	36.60	OSF1.50	13620.00	11930.00				MinPt-CtC	t
	3716.20 3719.70	162.74 166.81	3606.88 3607.65	3553.46 3552.88	34.76 33.93	OSF1.50 OSF1.50	13970.00 14140.00	11930.00 11930.00				MINPT-O-EOL MinPt-O-ADF	
	3719.70	174.36	3609.93	3552.65	32.51	OSF1.50 OSF1.50	14140.00	11930.00				MinPt-O-ADF	
	3737.74	183.68	3614.45 3614.32	3554.06	30.92	OSF1.50	14680.00	11930.00				MINPT-O-EOU	
	3743.28 3723.73	192.20 238.26	3614.32 3564.06	3551.09 3485.47	29.58 23.68	OSF1.50 OSF1.50	14920.00 16120.00	11930.00 11930.00				MINPT-O-EOL MinPt-CtC	
	3726.03	245.04	3561.83	3480.98	23.03	OSF1.50	16350.00	11930.00				MINPT-O-EOU	J
	3728.95 3730.69	248.58 254.29	3562.40 3560.33	3480.37 3476.40	22.72 22.21	OSF1.50 OSF1.50	16470.00 16570.00	11930.00 11930.00				MinPt-O-ADF MinPts	
	3746.24	256.40	3574.47	3489.83	22.21	OSF1.50	16860.00	11930.00				MinPt-O-SF	
	4709.62	252.30	4540.59	4457.32	28.27	OSF1.50	19389.58	11930.00				TE	)
marex James Federal 20H													
VD 0ft to 12150ft (Def rvey)													Pass
	1911.80	32.81	1909.30	1878.99	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1911.80 1910.43	32.81 32.81	1909.30 1903.63	1878.99 1877.62	N/A 443.86	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 490.00	23.00 490.00				WRF MinPts	
	1911.38	32.81	1902.31	1878.57	290.82	MAS = 10.00 (m)	730.00	730.00				MINPT-O-EOU	J
	3185.07 3194.32	108.46 112.71	3111.93 3118.35	3076.61 3081.61	45.05 43.44	OSF1.50 OSF1.50	7160.00 7480.00	7014.77 7334.77				MinPt-O-ADF MinPt-O-ADF	
	3195.64	113.84	3118.91	3081.80	43.02	OSF1.50	7540.00	7394.77				MinPt-O-ADF	
	3217.43 3221.83	128.85 132.81	3130.70 3132.46	3088.59 3089.02	38.17 37.06	OSF1.50 OSF1.50	8570.00 8840.00	8424.77 8694.77				MinPt-O-ADF MINPT-O-EOL	
	3222.15	133.17	3132.53	3088.97	36.96	OSF1.50	8870.00	8724.77				MinPt-O-ADF	
	3224.24 3224.57	137.70 139.94	3131.61 3130.44	3086.54 3084.63	35.74 35.17	OSF1.50 OSF1.50	9160.00 9330.00	9014.77 9184.77				MinPt-CtC MINPT-O-EOL	
	3224.57 3224.82	140.26	3130.44	3084.55	35.09	OSF1.50 OSF1.50	9360.00	9164.77 9214.77				MinPt-O-ADF	
	3238.81	149.36	3138.40	3089.45	33.06	OSF1.50	9990.00	9844.77				MinPt-O-ADF	
	3252.82 3253.56	157.64 168.30	3146.89 3140.52	3095.18 3085.25	31.43 29.41	OSF1.50 OSF1.50	10560.00 11260.00	10414.77 11114.77				MinPt-O-ADF MinPt-CtC	
	3255.65	173.15	3139.38	3082.50	28.59	OSF1.50	11750.00	11595.18				MINPT-O-EOU	
	3255.76 3275.48	173.29 175.85	3139.40 3157.41	3082.47 3099.63	28.57 28.32	OSF1.50 OSF1.50	11770.00 12200.00	11612.88 11881.58				MinPt-O-ADF MinPt-O-SF	
	8193.80	203.38	8057.38	7990.42	61.16	OSF1.50	19389.58	11930.00				TE	
0-025-45067 - Alley Cat 17-20	0												
EDERAL COM 216H - MWD 21324ft - A (Def Survey)													Pass
	10620.76	266.92	10442.30	10353.84	60.02	OSF1.50	0.00	0.00				Surface	
	10597.84 1933.97	267.02 501.34	10419.32 1599.23	10330.83 1432.63	59.87 5.80	OSF1.50 OSF1.50	23.00 10730.00	23.00 10584.77				WRF MinPts	
	1933.99	501.34	1599.23	1432.63	5.80	OSF1.50	10730.00	10594.77				MinPt-O-ADF	
			1599.29	1432.66	5.80	OSF1.50	10750.00	10604.77					
	1934.07	501.41			50.00	00004 50	40000 50					MinPt-O-SF	
	1934.07 8184.11		8026.28	7948.14	52.36	OSF1.50	19389.58	11930.00				MINPt-O-SF TE	)
01 - INC Only to 8870ft - A	1934.07 8184.11	501.41			52.36	OSF1.50	19389.58	11930.00					
i0-025-38447 - Lonecat Feder 101 - INC Only to 8870ft - A Def Survey)	1934.07 8184.11	501.41			52.36 N/A	OSF1.50 MAS = 10.00 (m)	19389.58	0.00					Pass
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47	501.41 235.97 32.81 32.81	8026.28 2083.06 2082.88	7948.14 2052.75 2052.66	N/A 22908.72	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00	0.00 23.00				TE Surface WRF	Pass
01 - INC Only to 8870ft - A	1934.07 8184.11 ral 2085.56	501.41 235.97 32.81	8026.28	7948.14 2052.75 2052.66	N/A	MAS = 10.00 (m)	0.00	0.00				TE Surface	Pass
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.78 2084.69 2088.02	501.41 235.97 32.81 32.81 32.81 32.81 54.37 95.08	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95	N/A 22908.72 176.28 60.21 33.79	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00	0.00 23.00 420.00 1080.00 1830.00				TE Surface WRF MinPts MinPt-CtC MinPt-CtC	Pass 9 5 5 t
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.78 2084.69 2088.02 2090.99	501.41 235.97 32.81 32.81 32.81 32.81 54.37 95.08 104.42	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 <b>2020.55</b>	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95 1986.57	N/A 22908.72 176.28 60.21 33.79 30.74	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00	0.00 23.00 420.00 1080.00 1830.00 1989.86				TE Surface WRF MinPt-CtC MinPt-CtC MiNPT-O-EOL	Pass 9 5 5 t t
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.78 2084.69 2088.02	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95	N/A 22908.72 176.28 60.21 33.79	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00 2040.00 4770.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82				TE Surface WRF MinPt-CtC MinPt-CtC MiNPT-O-EOL MinPt-O-ADF MinPte	Pass e s t t J o s
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.78 2084.69 2080.99 2093.90 2093.20 2653.31 <b>3096.37</b>	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 411.59	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95 1986.57 <b>1986.17</b> <b>2403.72</b> 2684.78	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1990.00 2040.00 4770.00 7930.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82 7784.77				TE Surface WRF MinPt-CIC MINPT-0-EOL MINPT-0-EOL MINPT-0-ADD MinPte MinPt-CATO	Pass 9 5 5 t t J 5 5 5 t
01 - INC Only to 8870ft - A	1934.07 8184.11 ral 2085.56 2085.47 2082.78 2084.69 2088.02 2090.99 2093.20 2653.31	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 <b>2020.55</b> 2021.01 <b>2486.09</b>	7948.14 2052.75 2052.66 2049.97 2030.32 1992.95 1986.57 1986.17 2403.72	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00 2040.00 4770.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82				TE Surface WRF MinPt-CtC MinPt-CtC MiNPT-O-EOL MinPt-O-ADF MinPte	Pass 9 5 5 t t 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.78 2084.69 2088.02 2090.99 2093.20 2653.31 <u>3096.37</u> <u>3095.24</u> 3095.29	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 449.59 411.59 469.97 469.97	8026.28 2083.06 2082.88 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14	7948.14 2052.75 2052.66 2049.97 2030.32 1986.57 1986.57 1986.57 2403.72 2684.78 2625.29 2625.29	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 <b>9.92</b>	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00 2040.00 4770.00 7930.00 9030.00 9040.00 9050.00	0.00 23.00 420.00 1080.00 1830.00 1989.86 2039.72 4685.82 7784.77 8884.77 8884.77 8894.77				Surface WRP MinPt-CIC MinPt-CIC MinPt-CADF MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CICS	Pass 9 5 5 5 5 5 5 5 5 5 5 5
11 - INC Only to 8870ft - A	1934 07 8184.11 2085.56 2085.47 2082.78 2084.69 2090.99 2090.99 2090.92 2090.99 2093.20 2053.31 <u>3096.24</u> 3095.25 3095.29 9455.40	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 411.59 469.79 469.97	8026.28 2083.06 2082.88 2068.48 2024.761 2023.80 2020.55 2021.01 2486.09 2821.42 2781.22 2781.11	7948.14 2052.75 2052.66 2049.97 2030.32 1992.95 1986.57 1986.17 2403.72 2684.78 2625.45 2625.45	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1990.00 2040.00 4770.00 7930.00 9030.00 9040.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82 7784.77 8884.77 8884.77				Surface Surface MinPt-CiC MinPt-CiC MinPt-C-EOL MinPt-C-EOL MinPt-C-CIC MinPt-C-CIC MinPt-C-CIC MinPt-C-CIC	Pass 9 5 5 5 5 5 5 5 5 5 5 5
01 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2094.69 2098.02 2090.99 2093.00 2055.31 3096.37 3096.24 3095.25 3095.20 3095.25 3095.20 3005.20 2005.20 2005.20 2005.20 2005.20 2005.20 2005.20 2005.2	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 449.59 411.59 469.97 469.97	8026.28 2083.06 2082.88 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14	7948.14 2052.75 2052.66 2049.97 2030.32 1986.57 1986.57 1986.57 2403.72 2684.78 2625.29 2625.29	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 <b>9.92</b>	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00 2040.00 4770.00 7930.00 9030.00 9040.00 9050.00	0.00 23.00 420.00 1080.00 1830.00 1989.86 2039.72 4685.82 7784.77 8884.77 8884.77 8894.77				Surface WRP MinPt-CIC MinPt-CIC MinPt-CADF MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CICS	Pass 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
01 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2094.69 2098.02 2090.99 2093.00 2055.31 3096.37 3096.24 3095.25 3095.20 3095.25 3095.20 3005.20 2005.20 2005.20 2005.20 2005.20 2005.20 2005.20 2005.2	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 449.59 411.59 469.97 469.97	8026.28 2083.06 2082.88 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14	7948.14 2052.75 2052.66 2049.97 2030.32 1986.57 1986.57 1986.57 2403.72 2684.78 2625.29 2625.29	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 <b>9.92</b>	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1830.00 1990.00 2040.00 4770.00 7930.00 9030.00 9040.00 9050.00	0.00 23.00 420.00 1080.00 1830.00 1989.86 2039.72 4685.82 7784.77 8884.77 8884.77 8894.77				Surface WRP MinPt-CIC MinPt-CIC MinPt-CADF MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CIC MinPt-CICS	Pass 9 3 t t t t t t t 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
01 - NC Only to 8870ft - A Def Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2084.02 2090.99 2090.90 2093.20 2093.20 2093.20 2095.24 3095.25 3095.25 3095.29 9455.40	501.41 235.97 32.81 32.81 32.81 32.81 32.81 104.42 107.03 249.58 469.79 469.79 469.79 469.79 469.79 469.79 469.59 249.58 32.81 32.81	8026.28 2083.06 2082.88 2068.48 2023.80 2022.30 2021.01 2486.09 2821.14 2781.22 2781.11 9144.87 2163.79 2163.37	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95 1996.57 <b>1996.57</b> <b>2403.72</b> 2684.78 2625.45 <b>2625.31</b> 8990.85 <b>2132.64</b> 2132.64 2132.26	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.92 9.92 9.92 30.69 N/A 42968.06	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 1990.00 2040.00 2440.00 2440.00 2440.00 9050.00 9050.00 9050.00 19389.58	0.00 23.00 422.00 1080.00 1989.86 2039.72 4685.82 7774.77 8894.77 8894.77 11930.00				TE Surface WRP MinPt-CEO MinPt-CEO MinPt-CEO MinPt-CCO MinPt-CCC MinPt-CCE MinPt-CCE MinPt-CEC MinPt-CEC MinPt-CEE MinPt-CEE MinPt-CEE Surface MinPt-C-SF	Pass Pass Pass Pass
01 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2084.69 2084.02 2090.99 2093.20 2093.20 2093.20 2093.20 2095.54 3095.25 3005.25 2005.25 2005.25 2005.25 2005.25 2005.25 2005.25 2005.2	501.41 235.97 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 469.79 469.97 469.98 464.55	8026.28 2083.06 2082.88 2047.61 2020.85 2021.01 2486.09 2821.14 2781.12 2781.14 9144.87 2163.79 2163.79 2163.37	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1992.95 1996.57 <b>1996.57</b> <b>2403.72</b> 2684.78 2625.45 <b>2625.31</b> 8990.85 <b>2132.64</b> 2132.64 2132.26	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 9.92 30.69 N/A	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00 420.00 1880.00 1990.00 2040.00 9030.00 9040.00 9050.00 19389.58	0.00 23.00 420.00 11880.00 11989.86 2039.72 44655.82 7764.77 8894.77 8894.77 11930.00				TC Surface MinPL-CIC MINPL-CIC MINPL-COC MINPL-O-SP MinPL-COC MINPL-COS TC Surface	Pass Pass Pass Pass Pass
01 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2086.02 2090.90 2093.90 2095.55 20 2055.55 20	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.58 449.59 449.59 449.59 449.59 4464.55 32.8132.81 32.	8026.28 2083.06 2082.88 2086.48 2047.61 2023.80 2020.65 2021.01 2028.00 2020.65 2021.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.02 2029.02 2029.0	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1998.57 <b>1986.17</b> 2403.72 2684.78 2625.45 2625.29 2625.31 8990.85	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 30.69 9.92 30.69 267.99 46.69 34.96	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1980.00 2040.00 2040.00 9030.00 9040.00 9050.00 19389.58 0.00 19389.58	0.00 23.00 422.00 1080.00 1898.96 2039.72 4685.82 7778.477 8894.77 8994.77 11930.00 0.00 23.00 310.00 140.00 1879.99				TE Surface WiRP MinPL-CRC MINPL-CRC MINPL-CADP MinPL-CADP MinPL-CADP MINPL-CADP MINPL-CASP MINPL-CSF MINPL-OSF MINPL-OSF MINPL-CSF MINPL-CSF MINPL-CSF MINPL-CAPC	Pass 5 5 5 5 5 5 5 5 5 5 5 5 5
11 - INC Only to 8870ft - A ef Survey) -025-36721 - James Federa - INC Only to 8664ft - A (Def	1934.07 8184.11 2085.56 2085.47 2094.69 2098.02 2090.99 2093.20 2090.99 2093.20 2095.31 3096.37 3095.25 3095.25 3095.25 3095.26 3095.26 3095.26 3095.20 2165.64 2165.02 2165.02 2165.02	501.41 235.97 32.81 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 469.98 469.98 469.98 469.98 469.98 464.55	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2021.01 2488.09 2821.14 2781.22 2781.14 9144.87 2163.79 2166.37 2165.32 2112.09 2101.60	7948.14 2052.75 2052.66 2049.97 1982.95 1986.57 1986.57 2403.72 2684.78 2625.45 2625.31 8990.85 2132.26 2132.26 2132.28 2132.64 2132.28 2132.64 2132.28 2132.64 2130.23 2068.98 2070.05	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 9.92 9.92 30.69 N/A <b>42988.06</b> 267.99 266.69 33.86	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50	0.00 22.00 1080.00 1990.00 2040.00 4770.00 9030.00 9050.00 19389.58 0.00 23.00 310.00 1410.00 1410.00 1880.00	0.00 23.00 420.00 11880.00 11989.86 2039.72 44655.82 7784.77 8894.77 8894.77 11930.00 23.00 310.00 1410.00 1879.99.4				Surface WiRP MinPt-CitC MinPt-CitC MinPt-C-ADF MinPt-CitC MinPt-C-ST Surface Surface MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-C-ADF	Pass 
01 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2086.02 2090.90 2090.90 2093.90 2095.55 20 2055.55 20	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.58 449.59 449.59 449.59 449.59 4464.55 32.8132.81 32.	8026.28 2083.06 2082.88 2086.48 2047.61 2023.80 2020.65 2021.01 2028.00 2020.65 2021.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.01 2028.02 2029.02 2029.0	7948.14 2052.75 2052.66 <b>2049.97</b> 2030.32 1998.57 <b>1986.17</b> 2403.72 2684.78 2625.45 2625.29 2625.31 8990.85	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 30.69 9.92 30.69 267.99 46.69 34.96	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1980.00 2040.00 2040.00 9030.00 9040.00 9050.00 19389.58 0.00 19389.58	0.00 23.00 422.00 1080.00 1898.96 2039.72 4685.82 7778.477 8894.77 8994.77 11930.00 0.00 23.00 310.00 140.00 1879.99				TE Surface WiRP MinPL-CRC MINPL-CRC MINPL-CADP MinPL-CADP MinPL-CADP MINPL-CADP MINPL-CASP MINPL-CSF MINPL-OSF MINPL-OSF MINPL-CSF MINPL-CSF MINPL-CSF MINPL-CAPC	Pass b c t t c c c c c c c c c c c c c
01 - NC Only to 8870ft - A Def Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2082.79 2082.02 2090.99 2093.20 2090.99 2093.20 2090.99 2093.20 2090.99 2093.20 2053.31 3095.25 3095.29 9455.40 2165.44 2165.47 2165.63 2165.97 2165.03 2165.05 3155.69 3156.65	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.59[ 449.98 469.79 469.98 469.98 464.55 32.81 34.85 34	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2021.02 2486.09 2821.14 2781.22 2781.11 9144.87 2163.37 2163.37 2163.32 2112.09 2101.60 2102.04 2102.04 2102.05 2102.04 2102.05 2100.05 2100.05 2100.05 2100.05 2100.05 2100.05 2100.05 2100.05 2100.05 2100.0	7948.14 2052.75 2052.66 2049.97 19962.95 19962.95 19965.97 19965.77 2403.72 2684.78 2625.45 2625.45 2625.53 2625.31 8990.85 2132.26 2132.26 2132.26 2132.26 2132.26 2132.26 2132.26 2130.26 2130.27 2008.98	N/A 22908.72 176.28 60.21 30.74 30.74 30.00 16.09 11.34 9.93 9.92 9.92 30.69 N/A 42598.06 267.99 46.69 34.96 33.88 12.24 10.41	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 22.00 1080.00 1990.00 2040.00 4770.00 9030.00 9050.00 9050.00 19389.58 0.00 23.00 310.00 1410.00 1880.00 1940.00 7550.00 8850.00	0.00 23.00 420.00 1080.00 1989.80 2039.72 4455.82 7778.477 8894.77 8894.77 8894.77 11930.00 23.00 310.00 1410.00 1497.99 1939.94 7404.77 8704.77				Surface MinPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD Surface MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD MINPL-CAD	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
01 - INC Only to 8870ft - A	1934.07 8184.11 2085.56 2085.47 2082.73 2094.02 2090.99 2093.20 2093.92 2093.92 2093.92 2093.92 2093.92 2093.92 2093.92 2093.92 2093.92 2093.92 2095.24 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 2005.2	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.59 449.59 449.59 449.59 449.59 449.59 32.81 32.	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2020.101 2486.09 2821.14 2781.22 2781.11 2781.22 2781.11 2781.22 2101.60 2102.60 2102.04 2102.04 2102.04 2102.04 2853.73	7948.14 2052.75 2052.66 2043.97 2030.32 1986.57 1986.57 2403.72 2684.78 2625.45 2625.45 2625.45 2625.31 6890.85 2132.64 2132.26 2130.29 2088.98 2070.56 2070.07 27670.06 27070.10	N/A 22908.72 176.28 60.21 33.79 30.74 9.93 9.92 9.92 30.69 <b>N/A</b> <b>42988.06</b> 267.99 46.69 33.88 12.24 10.41	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	0.00 23.00 420.00 1080.00 2040.00 2040.00 9030.00 9030.00 9050.00 19389.58 0.00 310.00 1410.00 1440.00 7550.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82 7784.77 8894.77 8894.77 11930.00 0.00 23.00 310.00 310.00 1410.00 1879.99 1939.94 7704.77				TE Surface WIRP MinPL-CIC MINPL-CIC MINPL-CADP MINPL-CADP MINPL-CADP MINPL-CADP MINPL-CADP MINPL-CIC Surface MINPL-O-SF MINPL-O-SF MINPL-CIC MINPL-CADP MINPL-CADP MINPL-CADP	Pass Pass Pass Pass Pass Pass Pass Pass Pass
01 - NC Only to 8870ft - A Def Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2065.56 2085.47 2082.78 2080.02 2090.99 2093.20 2090.20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2090.55 20 2050.55 20 2165.44 2165.65 2165.65 2165.65 2165.65 2165.65 2165.65 215	501.41 235.97 32.81 32.81 32.81 32.81 32.81 107.03 249.50 409.79 469.79 469.99 469.79 469.99 469.79 469.99 464.55 32.81 33.85 32.812	8026.28 2083.06 2082.88 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14 9144.87 2163.37 2163.37 2163.32 2112.09 2102.06 2102.06 2102.06 2102.05 2102.06 2102.05 2102.06 200.06 200	7948.14 2052.75 2052.66 2049.97 2030.32 1992.95 1996.57 1996.57 2403.72 2684.78 2625.45 2625.53 2625.31 8990.85 2625.45 2625.31 2625.31 2625.32 2625.31 2625.32 2625.31 2625.32 2625.31 2625.32 2625.32 2625.33 2625.32 2625.32 2625.33 2625.32 2625.33 2625.32 2625.33 2625.32 2625.33 2625.35 2700.05 2700.05 2700.3	N/A 22908.72 176.28 60.21 30.74 30.00 16.09 11.34 9.93 9.92 9.92 30.69 267.99 46.69 34.96	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	0.00 23.00 420.00 1080.00 1990.00 2040.00 47770.00 9030.00 9050.00 19389.58 0.00 23.00 310.00 1410.00 1880.00 1840.00 1850.00 8857.00 8857.00 13570.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4485.82 7778.477 8894.77 8894.77 8894.77 8894.77 11930.00 310.00 1410.00 1879.99 1939.94 1939.94 7404.77 8744.77 8744.77 8744.77				Surface MinPt-Cit MinPt-Ci	Pass Pass t t Pass Pass Pass t t S t t S t t S t t S S S S S S S S S S S S S
01 - NC Only to 8870ft - A Def Survey) D-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2005.56 2085.47 2094.09 2098.02 2090.99 2093.00 2055.31 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3158.65 3158.55 3158.55 3158.55 3158.55 3158.55 3158.55 3158.55 3158.5	501.41 235.97 32.81 32.81 32.81 32.81 32.81 107.03 249.59 499.97 499.97 499.97 499.97 499.97 499.97 499.97 499.97 499.97 32.81 469.75 469.75 38.80 34.65 54.55 38.80 34.65 56 38.80 34.65 56 38.80 34.65 56 38.80 34.65 56 38.80 34.65 56 38.80 34.65 36 38.65 37 38.80 34.65 56 38.80 32.81 32.81 32.81 32.81 32.81 32.81 32.97 33.97 34.07 34.	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14 9144.87 2781.22 2781.14 9144.87 2763.22 2781.14 9144.87 2163.79 2163.32 2112.09 2101.50 2102.04 2405.35 2102.04 2405.35 2102.04 2405.35 2102.04 2405.35 2102.04 2405.35 2102.04 2405.35 2102.04 2102.0	7948.14 2052.75 2052.66 2049.97 1986.57 1986.57 1986.57 2403.72 2684.78 2625.45 2625.45 2625.53 8990.85 2132.26 2132.28 2132.26 2132.28 2132.26 212.26 212.26 212.26 212.26 212.26 212.26 212.26 212.26 212.26	N/A 22908.72 176.28 60.21 33.79 30.74 9.93 9.92 9.92 30.69 267.99 46.69 34.96 33.88 12.24 10.41 10.41 20.45	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	0.00 23.00 420.00 1080.00 1990.00 9030.00 9030.00 9030.00 9050.00 19389.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19380.00 18880.00 8850.00 88570.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4665.82 27784.77 8894.77 8894.77 8904.77 11930.00 310.00 310.00 310.00 310.00 1410.00 1879.99 1939.94 7704.77 8714.77 8714.77				Surface WRR MinPt-CitC MinPt-CitC MinPt-CitC MinPt-C-ADF MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC MinPt-CitC	Pass 
91 - NC Only to 8870ft - A Jef Survey) -025-36721 - James Federa - INC Only to 8664ft - A (Def urvey)	1934.07 8184.11 2005.56 2005.47 2004.09 2009.09 2009.09 2009.20 2009.2	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.58 449.79 469.97 47.97 47	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2020.101 2486.09 2821.14 2781.22 2781.11 2781.22 2781.11 2781.48 7781.22 2781.11 2781.48 7781.22 2781.11 2781.20 2105.50 2005.50 2105.	7948.14 2052.75 2052.66 2043.97 2030.32 1982.97 2684.78 2625.45 2625.45 2625.29 2684.78 2625.45 2625.29 2684.78 2625.45 2625.29 2685.29 2690.85 2132.64 2132.26 2130.29 2088.98 2070.56 2070.70 27070.00 27070.10 27070.90 27070.90 3849.35 3849.36	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 267.99 46.69 267.99 44.96 33.88 12.24 10.410	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	0.00 23.00 420.00 1080.00 1990.00 2040.00 9030.00 9040.00 9050.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19380.00 1980.00 19550.00 8850.00 8850.00 13570.00 13570.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82 7774.77 8894.77 8994.77 1930.00 310.00 310.00 1410.00 1879.99 1939.94 7404.77 8714.77 8744.77 8744.77 8744.77 11930.00 11930.00				TE Surface WiRP MinPL-CIC MinPL-CADP MinPL-CADP MinPL-CADP MinPL-CADP MinPL-CASF MinPL-OSF MinPL-OSF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF	Pass 
11 - INC Only to 8870ft - A lef Survey) 	1934.07 8184.11 2085.56 2085.47 2084.02 2090.99 2093.00 2055.31 3095.25 3095.25 3095.29 9455.40 4 7 2165.07 2165.07 2165.07 2165.07 2165.07 2165.07 2165.07 2165.07 2165.58 3155.68 3155.68 3155.68 4155.69 4156.44 4156.69 4156.44 41	501.41 235.97 32.81 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 449.59 449.98 469.59 449.59 32.81 32.85 34 455 56 38.03 455 56 455 56 38.03 455 56 455 56 38.03 455 56 36 36 36 36 36 36 36 36 36 36 36 36 36	8026.28 2083.06 2082.88 2068.48 2028.288 2029.55 2020.101 2486.09 2821.14 2781.22 2781.14 9144.87 2163.79 2163.79 2163.79 2163.32 2112.09 2101.50 2101.05 2102.04 2495.85 2102.04 2495.85 2102.04 2495.85 2855.38 2102.04 2495.85 2855.86 2855.38 2102.04 2495.85 2855.86 2855	7948.14 2052.75 2052.66 2049.97 1986.57 1986.57 1986.57 2403.72 2684.78 2625.45 2625.45 2625.31 8990.85 2132.64 2132.26 2132.64 2132.26 2132.64 2132.26 2130.23 2088.98 2070.07 2767.06 2702.10 2701.98 3849.34 4208.39 6720.02	N/A 22908.72 176.28 60.21 33.79 30.74 9.93 9.92 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 33.88 12.24 10.41 10.41 10.41 20.45 20.45 20.45	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	0.00 23.00 420.00 1980.00 2040.00 9730.00 9040.00 9050.00 19389.58 0.00 1140.00 1140.00 11880.00 11880.00 13570.00 13570.00 13580.00 15530.00 155430.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4665.82 7784.77 8894.77 8904.77 11930.00 310.00 310.00 1410.00 1879.99 1939.94 7404.77 8704.77 8714.77 8744.77 8744.77 11930.00 11930.00				T U Surface WRR MinPt-GLC MINPT-O-EOL MINPT-O-EOL MINPT-O-EOL MINPL-CIS MINPL-O-SF	Pass a b c c c c c c c c c c c c c
01 - INC Only to 8870ft - A Def Survey) D-025-36721 - James Federa - INC Only to 8664ft - A (Def urvey)	1934.07 8184.11 2085.56 2085.47 2082.78 2084.02 2093.00 2093.20 2095.54 3095.24 2165.44 2165.45 3155.6	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 107.03 249.58 449.79 469.97 47.97 47	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2020.101 2486.09 2821.14 2781.22 2781.11 2781.22 2781.11 2781.48 7781.22 2781.11 2781.48 7781.22 2781.11 2781.20 2105.50 2005.50 2105.	7948.14 2052.75 2052.66 2043.97 2030.32 1982.97 2684.78 2625.45 2625.45 2625.29 2684.78 2625.45 2625.29 2684.78 2625.45 2625.29 2685.29 2690.85 2132.64 2132.26 2130.29 2088.98 2070.56 2070.70 27070.00 27070.10 27070.90 27070.90 3849.35 3849.36	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.93 9.92 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 30.69 <b>8.92</b> 267.99 46.69 267.99 44.96 33.88 12.24 10.410	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	0.00 23.00 420.00 1080.00 1990.00 2040.00 9030.00 9040.00 9050.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19389.58 0.00 19380.00 1980.00 19550.00 8850.00 8850.00 13570.00 13570.00	0.00 23.00 420.00 1080.00 1989.86 2039.72 4685.82 7774.77 8894.77 8994.77 1930.00 310.00 310.00 1410.00 1879.99 1939.94 7404.77 8714.77 8744.77 8744.77 8744.77 11930.00 11930.00				TE Surface WiRP MinPL-CIC MinPL-CADP MinPL-CADP MinPL-CADP MinPL-CADP MinPL-CASF MinPL-OSF MinPL-OSF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF MinPL-CASF	Pass Pass t t Pass Pass t t Pass Pass Pass Pass Pass
01 - INC Only to 8870ft - A Def Survey) 0-025-36721 - James Federa - INC Only to 86641 - A (Def	1934.07 8184.11 2085.56 2085.47 2098.73 2090.99 2093.00 2093.00 2093.00 2093.00 2093.00 2095.50 2094.54 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3095.25 3158.65 3158.5	501.41 235.97 32.81 32.81 32.81 32.81 54.37 95.08 104.42 107.03 249.59 449.59 449.59 449.59 449.59 449.59 449.59 32.81 32.81 32.81 32.81 32.81 32.81 32.81	8026.28 2083.06 2082.88 2068.48 2047.61 2023.80 2020.55 2021.01 2486.09 2821.14 2781.22 2781.14 9144.87 2163.79 2165.32 2112.09 2102.04 2495.85 2853.73 2855.86 3950.90 4323.28 6323.28 6323.28 535.68 3950.90 4323.28 6323.28 535.68 2336.67 2336.65 2336.65 2336.65 2336.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356.57 2356	7948.14 2052.75 2052.66 2049.97 2030.32 1982.95 1986.57 1986.57 2403.72 2684.78 2625.45 2625.29 2625.31 8990.85 2132.28 2132.28 2132.28 2132.28 2000.85 2130.23 2088.98 2070.56 2070.07 2767.06 2702.10 2701.98 3849.34 4203.39 6720.02 2306.26 2306.24 2306.24	N/A 22908.72 176.28 60.21 30.74 30.74 30.00 16.09 11.34 9.93 9.92 9.932 30.69 <b>N/A</b> 42988.06 34.96 33.88 12.24 10.41 10.41 10.41 10.41 20.45 20.45 19.81 24.78	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	0.00 22.00 420.00 1080.00 1990.00 2040.00 4770.00 9030.00 9050.00 19389.58 0 0.00 23.00 310.00 23.00 310.00 7550.00 88560.00 1840.00 1940.00 13570.00 13589.00 13570.00 13589.00 15430.00 15450.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.00 15550.	0.00 23.00 420.00 11880.00 11989.08 2039.72 44655.82 77784.77 8894.77 8894.77 8894.77 11930.00 310.00 30.				TU Surface MinPt-CitC	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
11 - NC Only to 8870ft - A Jef Survey) D-025-36721 - James Federa - NC Only to 8664ft - A (Def urvey)	1934.07 8184.11 2085.56 2085.47 2086.02 2099.209 2099.209 2099.209 2099.209 2099.209 2099.209 2099.209 2099.209 2099.209 2099.209 2095.24 3095.25 305.25 2005.25 2005.25 2005.25 2005.25 2005.25 2005.	501.41 235.97 32.81 32.81 32.81 32.81 32.81 32.81 104.42 107.03 499.75 499.79 469.79 469.79 469.79 469.79 469.79 469.79 469.79 469.79 469.75 32.81 32.81 71.00 94.46 97.56 388.03 456.54 565.545.54 565.545.545.545.545.545.545.545.545.5	8026.28 2083.06 2082.88 2064.84 2022.85 2022.101 2486.09 2821.14 2781.22 2781.11 2781.22 2781.11 2781.22 2781.11 2781.22 2781.11 2781.28 2486.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2496.09 2495.08 2495.08 2495.09 24	7948.14 2052.75 2052.66 2049.97] 2030.32 1982.97 2403.72] 2684.78 2625.45 2625.29] 2684.78 2625.45 2625.29] 2625.45 2625.29] 2132.64 2132.26 2130.29 2088.98 2070.56 2070.70 2770.198 3699.36 3699.3	N/A 22908.72 176.28 60.21 33.79 30.74 30.00 16.09 11.34 9.92 <b>9.92</b> <b>9.92</b> 30.69 <b>N/A</b> <b>42988.06</b> 287.99 46.69 34.96 33.88 12.24 10.41 10.41 20.45 <b>20.45</b> <b>19.81</b> 24.78	MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	0.00 23.00 420.00 1080.00 1990.00 2040.00 4770.00 9930.00 9940.00 9950.00 19389.58 0.00 13880.00 1880.00 1880.00 8860.00 8860.00 8870.00 13580.00 13580.00 13580.00 13580.00 135430.00 15430.00 15430.00 15430.00	0.00 23.00 422.00 1080.00 1899.86 2039.72 4685.82 7774.77 8894.77 8894.77 8994.77 11930.00 1410.00 1879.99 1939.94 7404.77 8724.77 11930.00 11930.00 11930.00				TE Surface MinPL-CAD MinPL-CAD MinPL-CAD MinPL-CAD MinPL-CAD MinPL-CAD MinPL-CAD MinPL-CAS MinPL-CAS MinPL-O-SS MinPL-O-SS MinPL-CAS	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

	1	Canavat'	1	Allow	Con	Controlling	Defer	volente		Bight			Alert	Status
Offset Trajectory	Ct-Ct (ft)	Separation MAS (ft) EOI		Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference T MD (ft)	rajectory TVD (ft)	Alert	Risk Level Minor	Ма	jor	Alert	Status
	2338.94	32.81 2	321.81	2306.13	159.69	MAS = 10.00 (m)	1520.00	1520.00					MinPts	
	2339.83 3467.81		319.62 383.87	2307.03 3343.15	131.93 42.55	MAS = 10.00 (m) OSF1.50	1830.00 8270.00	1830.00 8124.77					MINPT-O-EOU MinPt-CtCt	
	3467.18	134.68 3	376.56	3332.50	39.32	OSF1.50	8960.00	8814.77					MinPt-CtCt	
	3467.57 3486.86		376.32 394.30	3331.94 3349.28	39.04 38.69	OSF1.50 OSF1.50	9040.00 9440.00	8894.77					MinPts MinPt-O-SF	
	4385.47		294.89	4250.85	49.76	OSF1.50 OSF1.50	12230.00	9294.77 11890.24					MinPt-O-SF	
	4410.68	137.18 43	318.40	4273.50	49.10	OSF1.50	12610.00	11930.00					MinPt-O-ADP	
	4390.22 4391.90		283.62	4231.57 4226.47	42.15 40.41	OSF1.50 OSF1.50	13800.00 14100.00	11930.00 11930.00					MinPt-CtCt MINPT-O-EOU	
	4391.90		280.96	4226.29	40.41	OSF1.50	14160.00	11930.00					MinPt-O-ADP	
	4394.76		281.06	4225.46	39.50	OSF1.50	14260.00	11930.00					MINPT-O-EOU	
	4397.16 4370.63		281.44	4224.83 4160.28	38.82 31.52	OSF1.50 OSF1.50	14380.00 15530.00	11930.00 11930.00					MinPt-O-ADP MinPt-CtCt	
	4371.45		228.64	4158.48	31.14	OSF1.50	15650.00	11930.00					MINPT-O-EOU	
	4376.75		229.78	4157.55	30.28	OSF1.50	15880.00	11930.00					MinPt-O-ADP	
	4477.36 5275.56		308.86 102.48	4225.86 5017.20	26.96 30.91	OSF1.50 OSF1.50	17220.00 19389.58	11930.00 11930.00					MinPt-O-SF TD	
	5275.50	200.00 0	102.40	5017.20	30.91	03-1.50	19309.30	11930.00					1D	
erra James 20-29 Federal n 41H Rev0 kFc 08Sep22														
f Plan)	6142.57	32.81 6	6140.07	6109.76	N/A	MAS = 10.00 (m)	0.00	0.00					F Surface	ass
	6142.56		140.06	6109.75	N/A	MAS = 10.00 (m)	23.00	23.00					WRP	
	2762.48		627.06	2560.60	20.76	OSF1.50	10730.00	10584.77					MinPt-CtCt	
	2762.48 2762.71		627.06	2560.59 2560.79	20.76 20.76	OSF1.50 OSF1.50	10740.00 10770.00	10594.77 10624.77					MinPts MinPt-O-SF	
	3073.97		871.90	2772.11	15.39	OSF1.50	16780.00	11930.00					MINPT-O-EOU	
	3074.08		871.93	2772.10	15.38	OSF1.50	16790.00	11930.00					MinPt-O-ADP	
	3083.74 4049.45		880.26 856.41	2779.76 3761.14	15.33 21.24	OSF1.50 OSF1.50	17000.00 19389.58	11930.00 11930.00					MinPt-O-SF TD	
	-043.40	200.02 0		0.01.14	21.24	00F 1.00	.3003.00							
025-45603 - James 20-29 deral Com 38H - Corrected /D to 22061 ft - A (Def													_	1000
vey)	6138.13		135.63	6105.32	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	ass
	6138.12		135.62	6105.32 6105.32	N/A	MAS = 10.00 (m)	10.00	10.00					MinPts	
	6138.13 6087.37		135.62 059.45	6105.32 6046.73	N/A 239.35	MAS = 10.00 (m) OSF1.50	23.00 2410.00	23.00 2405.40					WRP MinPt-CtCt	
	6087.78		059.06	6045.94	232.00	OSF1.50	2490.00	2483.35					MINPT-O-EOU	
	6088.17		059.15	6045.89	229.50	OSF1.50	2520.00	2512.44					MinPt-O-ADP	
	6121.79 6126.37		081.92 084.62	6063.23 6064.99	163.74 156.02	OSF1.50 OSF1.50	3490.00 3640.00	3449.43 3594.32					MinPts MINPT-O-EOU	
	6126.59		084.64	6064.91	155.20	OSF1.50	3650.00	3603.98					MinPt-O-ADP	
	6123.33		076.28	6054.01	137.39	OSF1.50	4010.00	3951.71					MinPt-CtCt	
	6123.69 6124.02		075.95	6053.33 6053.27	135.30 134.54	OSF1.50 OSF1.50	4090.00 4120.00	4028.99 4057.96					MINPT-O-EOU MinPt-O-ADP	
	6139.63		070.02 086.08	6060.56	120.23	OSF1.50	4590.00	4037.90					MINPT-O-EOU	
	6140.20	79.93 6	6086.08	6060.27	118.91	OSF1.50	4620.00	4540.93					MINPT-O-EOU	
	6141.99 6154.30		086.51	6060.02 6064.79	115.89 106.05	OSF1.50 OSF1.50	4730.00 5130.00	4647.18 5033.55					MinPt-O-ADP MinPts	
	2928.36		779.29	2706.00	19.96	OSF1.50	12390.00	11921.12					MinPt-CtCt	
	2928.50		777.74	2703.61	19.74	OSF1.50	12560.00	11930.00					MinPt-CtCt	
	2927.13 2923.61		772.20	2695.99	19.19	OSF1.50	12940.00	11930.00					MinPt-CtCt	
	2923.61 2923.87		2757.48 2757.15	2675.67 2675.04	17.85 17.79	OSF1.50 OSF1.50	13860.00 13930.00	11930.00 11930.00					MinPt-CtCt MINPT-O-EOU	
	2924.49		755.62	2672.44	17.56	OSF1.50	14070.00	11930.00					MinPt-CtCt	
	2925.19		751.20	2665.45	17.04	OSF1.50	14440.00	11930.00					MinPt-CtCt	
	2923.88 2923.88		2742.09 2737.93	2652.45 2646.21	16.29 15.92	OSF1.50 OSF1.50	14980.00 15260.00	11930.00 11930.00					MinPt-CtCt MinPt-CtCt	
	2924.95		736.04	2642.84	15.68	OSF1.50	15480.00	11930.00					MINPT-O-EOU	
	2925.45		736.15	2642.75	15.65	OSF1.50	15520.00	11930.00					MinPt-O-ADP	
	2934.62 2932.91		2736.40 2731.17	2638.54 2631.56	14.98 14.71	OSF1.50 OSF1.50	16040.00 16260.00	11930.00 11930.00					MinPt-CtCt MinPt-CtCt	
	2936.52		727.28	2623.91	14.19	OSF1.50	16730.00	11930.00					MINPT-O-EOU	
	2936.60		727.28	2623.87	14.19	OSF1.50	16740.00	11930.00					MinPt-O-ADP	
	2937.26 3974.39		727.87 788.15	2624.42 3696.27	14.18 21.62	OSF1.50 OSF1.50	16780.00 19389.58	11930.00 11930.00					MinPt-O-SF TD	
025-37786 - James 20														
deral 1 - INC Only to 8889ft Def Survey)	- 2979.07	32.81 2	976.57	2946.26	N/A	MAS = 10.00 (m)	0.00	0.00					F Surface	ass
	2979.05	32.81 2	976.54	2946.24	277543.79	MAS = 10.00 (m)	23.00	23.00					WRP	
	2976.55		961.18 904.31	2943.74 2872.08	231.07 46.07	MAS = 10.00 (m) OSF1.50	440.00 1860.00	440.00 1860.00					MinPts MinPt-CtCt	
	2074 25	00.17 ~		2872.08 2868.35	46.07 43.64			1860.00						
	2971.25 2972.94		902.38			OSF1.50	1980.00						MINPT-O-EOU	
	2972.94 2975.46	104.59 2 107.62 2	902.88	2867.84	42.42	OSF1.50	2050.00	2049.68					MINPT-O-EOU MinPt-O-ADP	
	2972.94 2975.46 3657.35	104.59 21 107.62 29 435.59 33	902.88	2867.84 3221.76	42.42 12.66	OSF1.50 OSF1.50	2050.00 8290.00	8144.77					MINPT-O-EOU MinPt-O-ADP MinPt-CtCt	
	2972.94 2975.46	104.59 21 107.62 24 435.59 33 473.40 33	902.88	2867.84	42.42	OSF1.50	2050.00						MINPT-O-EOU MinPt-O-ADP	
	2972.94 2975.46 <b>3657.35</b> <b>3663.27</b> 3663.27 3663.31	104.59 2 107.62 2 435.59 3 473.40 3 473.49 3 473.49 3	902.88 366.12 346.84 346.78 346.81	2867.84 3221.76 3189.87 3189.79 3189.81	42.42 12.66 11.66 11.66 <b>11.66</b>	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050.00 8290.00 9040.00 9050.00 9060.00	8144.77 8894.77 8904.77 8914.77					MINPT-O-EOU MinPt-O-ADP MinPt-CtCt MinPt-CtCt MinPts MinPt-O-SF	
025-36031 - James Federa	2972.94 2975.46 <b>3657.35</b> <b>3663.27</b> 3663.27 3663.31 10634.51	104.59 2 107.62 2 435.59 3 473.40 3 473.49 3 473.49 3	902.88 366.12 346.84 346.78 346.81	2867.84 3221.76 3189.87 3189.79	42.42 12.66 11.66 11.66	OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050.00 8290.00 9040.00 9050.00	8144.77 8894.77 8904.77					MINPT-O-EOU MinPt-O-ADP MinPt-CtCt MinPt-CtCt MinPts	
INC Only to 8657ft - A (De	2972.94 2975.46 3657.35 3663.27 3663.27 3663.31 10634.51	104.59 24 107.62 24 435.59 33 473.40 33 473.49 3 473.49 3 470.27 103	9902.88 3366.12 1346.84 1346.78 1346.81 1320.17	2867.84 3221.76 3189.87 3189.79 3189.81 10164.24	42.42 12.66 11.66 11.66 <b>11.66</b> 34.09	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050.00 8290.00 9040.00 9050.00 9060.00 19389.58	8144.77 8894.77 8904.77 8914.77 11930.00					MINPT-O-EOU MinPt-O-ADP MinPt-CtCt MinPt-CtCt MinPts MinPt-O-SF TD	'ass
INC Only to 8657ft - A (De	2972.94 2975.46 3667.36 3663.27 3663.27 3663.31 10634.51 3004.60 3004.55	104.59 2 107.62 2: 435.59 3: 473.49 3: 473.49 3: 473.49 3: 470.27 10: 32.81 3: 32.81 3:	902.88 3366.12 3346.84 346.84 346.81 320.17 5002.10 5002.04	2867.84 3221.76 3189.87 3189.79 3189.81 10164.24 2971.79 2971.74	42.42 12.66 11.66 11.66 34.09 N/A 415412.24	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	2050.00 8290.00 9040.00 9050.00 9060.00 19389.58	8144.77 8894.77 8904.77 8914.77 11930.00 0.00 10.00					MINPT-O-EOU MinPt-O-ADP MinPt-CICt MinPt-CICt MinPt-O-SF TD Surface MinPt-O-SF	Pass
INC Only to 8657ft - A (De	2972.94 2975.46 3663.27 3663.27 3663.21 3663.21 3663.21 3663.21 3063.51	104.59 2 107.62 2 435.59 2 473.49 3 473.49 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.	902.88 3366.12 346.84 346.81 346.81 320.17 0002.10 0002.04 001.99	2867.84 3221.76 3189.87 3189.79 3189.81 10164.24 2971.79 2971.79 2971.74	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	2050.00 8290.00 9040.00 9050.00 9060.00 19389.58 0.00 10.00 23.00	8144.77 8894.77 8904.77 8914.77 11930.00 0.00 10.00 23.00					MINPT-O-EOU MinPt-O-ADP MinPt-CICI MinPt-CICI MinPt-CO-SF TD Surface MinPt-O-SF WRP	Pass
INC Only to 8657ft - A (De	2972.94 2975.46 3657.36 3663.27 3663.27 3663.31 10634.51 4 4 5 3004.60 3004.60 3004.55 3004.53	104.59 22 107.62 23 435.59 33 473.40 33 473.49 3 473.49 3 473.49 3 470.27 103 32.81 33 32.81 33 32.81 33 32.81 32 32.81 32 32.81 32 32.81 33 32.81 34 32.81 34 34 32.81 34 34 34 34 34 34 34 34 34 34 34 34 34 3	1902.88 1366.12 1346.84 1346.81 1320.17 1002.10 1002.04 1002.04 1001.99 1997.15	2867.84 3221.76 3189.87 3189.87 3189.81 10164.24 2971.79 2971.79 2971.74 2971.72 2971.51	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39 642.74	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m)	2050.00 8290.00 9050.00 9060.00 19389.58 0.00 10.00 23.00 240.00	8144.77 8894.77 8904.77 8914.77 11930.00 0.00 10.00 23.00 240.00					MINPT-O-EOU MinPt-O-ADP MinPt-CICt MinPt-CICt MinPt-O-SF TD Surface MinPt-O-SF WRP MinPt-O-SF	'ass
INC Only to 8657ft - A (De	2972.94 2975.46 3663.27 3663.27 3663.21 3663.21 3663.21 3663.21 3063.51	104.59 22 107.62 22 435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 2 35.92 22	902.88 3366.12 346.84 346.81 346.81 320.17 0002.10 0002.04 001.99	2867.84 3221.76 3189.87 3189.79 3189.81 10164.24 2971.79 2971.79 2971.74	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	2050.00 8290.00 9040.00 9050.00 9060.00 19389.58 0.00 10.00 23.00	8144.77 8894.77 8904.77 8914.77 11930.00 0.00 10.00 23.00					MINPT-O-EOU MinPt-O-ADP MinPt-CICI MinPt-CICI MinPt-CO-SF TD Surface MinPt-O-SF WRP	'ass
-025-36031 - James Federa INC Only to 8657ft - A (De rvey)	2972.94 2975.46 3667.38 3663.27 3663.27 3663.27 3663.45 10634.51 3004.65 3004.53 3004.53 3004.53 3004.53 3004.53 3004.53 3004.53	104.59 22 107.62 22 435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 2 35.92 2 139.71 22 192.38 22	1302.88         1366.12           1346.84         1346.81           1346.81         1320.17           1002.10         1002.04           1002.04         1097.15           1979.44         1901.44           1801.48         1875.54	2867.84 3221.76 3189.87 3189.81 10164.24 2971.79 2971.74 2971.72 2971.72 2971.51 2968.31 2855.70 2812.25	42.42 12.66 11.66 <b>11.66</b> <b>34.09</b> <b>N/A</b> <b>415412.24</b> 79630.39 642.74 134.74 32.72 23.72	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50	2050.00 8290.00 9050.00 9050.00 19389.58 0.00 19389.58 0.00 23.00 240.00 740.00 2740.00 3690.00	8144.77 8894.77 8904.77 11930.00 0.00 10.00 23.00 240.00 740.00 2724.99 3642.62					MINPT-O-EOU MINPT-O-CADP MINPt-OCCU MINPt-CCCU MINPt-O-SF TD Surface MINPt-O-SF WRP MINPt-CCU MINPt-CCU	'ass
INC Only to 8657ft - A (De	2972.94 2975.46 3663.27 3663.27 3663.27 3663.27 3663.21 3063.51 10634.51 3004.60 3004.65 3004.53 3004.52 3004.22 2995.41 3004.63 3004.23	104.59 2 107.62 2 435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.8	1302.88         1366.12           1346.84         1346.78           1346.84         1346.81           1320.17         1320.17           1002.10         1002.04           1002.04         1997.15           1997.44         1901.44           1875.54         1866.47	2867.84 3221.76 3189.87 3189.79 3189.79 3189.81 10164.24 2971.79 2971.74 2971.72 2971.51 2963.31 2855.70 2812.25 27194.79	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39 642.74 134.74 32.72 23.72 23.72 21.00	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050.00 8290.00 9040.00 9060.00 19389.58 0.00 10.00 23.00 240.00 740.00 2740.00 3690.00 4230.00	8144.77 8894.77 8914.77 11930.00 0.00 10.00 23.00 240.00 740.00 2724.99 3642.62 4164.22					MINPT-O-EOU MinPt-O-ADP MinPt-CiCt MinPt-CiCt MinPt-OSF TD TD Surface MinPt-OSF WRP MinPt-SF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-CiCt	'ass
INC Only to 8657ft - A (De	2972.94 2975.46 3667.38 3663.27 3663.27 3663.27 3663.45 10634.51 3004.65 3004.53 3004.53 3004.53 3004.53 3004.53 3004.53 3004.53	104.59 22 107.62 21 435.59 33 473.40 33 473.49 33 473.49 33 470.27 10 32.81 30 32.81 30 32.81 30 32.81 21 35.92 22 139.71 22 147.71 22 147.71 22 147.71 22 147.71 22 1	1302.88         1366.12           1346.84         1346.81           1346.81         1320.17           1002.10         1002.04           1002.04         1097.15           1979.44         1901.44           1875.54         1001.49	2867.84 3221.76 3189.87 3189.81 10164.24 2971.79 2971.74 2971.72 2971.72 2971.51 2968.31 2855.70 2812.25	42.42 12.66 11.66 <b>11.66</b> <b>34.09</b> <b>N/A</b> <b>415412.24</b> 79630.39 642.74 134.74 32.72 23.72	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50	2050.00 8290.00 9050.00 9050.00 19389.58 0.00 19389.58 0.00 23.00 240.00 740.00 2740.00 3690.00	8144.77 8894.77 8904.77 11930.00 0.00 10.00 23.00 240.00 740.00 2724.99 3642.62					MINPT-O-EOU MINPT-O-CADP MINPt-CICI MINPt-CICI MINPt-CICI MINPt-O-SF TD Surface MINPt-O-SF WRP MINPt-CICI MINPt-CICI	ass
INC Only to 8657ft - A (De	2972 94 2975 46 3657.36 3653.27 3663.27 3663.27 3663.21 10634.51 3004.65 3004.53 3004.53 3004.22 2995.41 3004.22 2995.41 3004.23 3022.21 3022.21 3033.46	104.59 2 107.62 2 435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.8	902.88	2867.84 3221.76 3189.87 3189.87 3189.81 10164.24 2971.74 2971.74 2971.74 2971.74 2971.75 2971.75 2971.75 2971.75 2971.51 2985.70 2812.25 2794.79 2793.30 27781.44	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39 642.74 134.74 32.72 23.72 21.00 20.17 18.31 18.22	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) GSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050 00 8290 00 9050 00 9050 00 9060 00 19389 58 0 0 00 23 00 240 00 2740 00 2740 00 2440 00 4440 00 4440 00 4840 00	8144.77 8894.77 8904.77 8914.77 11930.00 23.00 23.00 240.00 740.00 2724.99 3462.62 4164.22 4164.25 4164.25 4165.13					MINPT-O-EOU MinPt-O-ADP MinPt-CiCt MinPt-CiCt MinPt-OSF TD Surface MinPt-O-SF WRP MinPt-O-SF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU	ass
INC Only to 8657ft - A (De	2972 94 2975 46 3667.36 3663.27 3663.37 3663.31 10634.51 3004.60 3004.65 3004.53 3004.22 2995.41 3004.23 3004.22 3004.21 3004.23 30 3004.23 30 30 30 30 30 30 30 30 30 30 30 30 30	104.59 22 107.62 22 435.59 33 473.40 33 473.49 33 470.27 10 32.81 39 32.81 39 32.81 39 32.81 39 32.81 21 35.92 22 139.71 22 139.71 22 139.71 22 139.71 22 217.53 22 226.07 22 226.07 22 225.01 22 225.01 22	902.88 (3366.12 (3346.78) (3346.78) (3346.81 (3346.81 (3320.17) (002.10) (002.10 (002.10) (002.10 (002.10) (002.10) (002.10) (002.10) (002.10	2867.84 3221.76 3189.87 3189.87 3189.81 10164.24 2971.79 2971.74 2971.72 2971.72 2971.72 2971.72 2971.75 2971.72 2971.75 2971.72 2971.75 2971.79 2781.70 2781.70 2781.70	42.42 12.66 11.66 11.66 34.09 N/A 415412.24 79630.39 642.74 134.74 134.74 32.72 23.72 23.72 21.00 20.17 18.31 18.22 21.6.77	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2250 00 8290 00 9040 00 9050 00 9060 00 19389 58 0 0 240 00 240 00 240 00 240 00 240 00 240 00 240 00 4400 00 4400 00 4400 00 4400 00 5270 00	8144.77 8804.77 8914.77 8914.77 11930.00 23.00 23.00 240.00 2724.99 3642.62 4164.22 4367.06 4705.13 4753.43 5168.78					MINPT-O-EOU MINPT-O-CIQ MINPT-CIQ MINPT-CIQ MINPT-CIQ MINPT-O-SF TD Surface MINPT-O-SF MINPT-O-EOU MINPT-O-CIQ MINPT-O-CIQ MINPT-O-CIQ MINPT-O-CIQ MINPT-O-CIQ	'ass
INC Only to 8657ft - A (De	2972 94 2975 46 3657.36 3653.27 3663.27 3663.27 3663.21 10634.51 3004.65 3004.53 3004.53 3004.22 2995.41 3004.22 2995.41 3004.23 3022.21 3022.21 3033.46	104.59 2 107.62 2 435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 3 32.81 3 32.81 2 35.92 2 139.71 2 21.53 2 22.66 91 2 25.01 2 25.01 2 25.01 2 25.60 2	902.88 3366.12 3346.84 3346.84 3346.81 3346.81 3320.17 4002.10 4002.04 4002.04 4001.99 997.15 997.44 997.	2867.84 3221.76 3189.87 3189.87 10164.24 2971.79 2971.74 2971.74 2971.72 2971.71 2985.70 2855.70 2855.70 2812.25 274.79 2793.30 2781.44 2779.29	42.42 12.66 11.66 11.66 34.09 415412.24 79630.39 642.74 134.74 32.72 23.72 21.00 20.17 18.31 18.22 16.77 16.15	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050 00 8290 00 9040 00 9050 00 19389 58 0 00 19389 58 0 00 23 00 240 00 2740 00 2740 00 2740 00 2740 00 2440 00 4440 00 4490 00 4490 00 4490 00 5520 00	8144.77 8894.77 8904.77 8914.77 11930.00 10.00 23.00 240.00 740.0					MINPT-O-EOU MinPt-O:ADP MinPt-CiCt MinPt-CiCt MinPt-O:SF TD TD Surface MinPt-O:SF WRP MinPt-O:SF WinPt-CiCt MinPt-CiCt	Pass
INC Only to 8657ft - A (De	2972.44 2975.46 3667.36 3663.27 3663.27 3663.31 10634.51 3004.60 3004.55 3004.52 3004.52 3004.52 3004.53 3004.52 3004.53 3004.52 3004.53 30040	104.59 2 107.62 2 107.62 2 145.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 3 32.81 2 35.92 2 192.38 2 192.38 2 217.53 2 226.91 2 2	902.88 3366.12 3346.84 3346.81 3346.81 3346.81 3320.17 9002.10 9002.04 9002.04 907.15 979.44 901.44 8375.86 8372.66 8375.86 835.86	2867.84 3221.76 3189.87 3189.87 10164.24 2971.79 2971.74 2971.72 2971.72 2971.72 2971.72 2971.75 2985.70 2812.25 2764.79 2778.70 2778.170 2778.170 2778.170 2778.76 2779.20 2779.20 2779.20 2779.20 2779.20 2779.20 27745.76	42.42 12.66 11.66 11.66 34.09 415412.24 79630.39 642.74 134.74 134.74 134.74 134.74 134.74 134.74 132.72 21.00 20.17 18.31 18.22 16.75 10.53	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050 00 8290 00 9050 00 9050 00 19389 58 0 0 00 13389 58 0 0 00 23 00 240 00 240 00 240 00 240 00 4440 00 4440 00 4480 00 5270 00 5220 00 5200 00	8144,77 8894,77 8904,77 8914,77 11930.00 10.00 23.00 240.0					MINPT-O-EOU MinPt-OCIC MinPt-CICI MinPt-CICI MinPt-CICI MinPt-O-SF TD Surface MinPt-O-SF WRP MinPt-CICI MinPt-CICI MinPt-CICI MinPt-CAD MinPt-O-EOU MinPt-O-ADP MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU	'ass
INC Only to 8657ft - A (De	2972.94 2975.46 3967.36 3963.27 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3968.327 3904.52 3904.53 3004.52 2999.41 3004.52 3004.52 2999.41 302.27 3033.46 3054.63 3028.29 3033.46 3054.63 3028.29 3033.46 3054.63 3028.29 3033.46 3054.63 3054.09 3033.46 3054.63 3054.09 3033.46 3054.63 3054.09 3033.46 3054.63 3054.09 3033.46 3054.63 3054.53 3054.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 30555.55 305555.55 305555.55 30555.55 305555.55 305555555.55 305555555555	104.59 2 107.62 2 435.59 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 2 35.92 2 139.71 2 217.53 2 226.61 2 252.01 2	902.88 3366.12 3346.84 3346.84 3346.84 3346.81 3320.17 9002.10 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.04 9002.05 900.44 900.44 900.44 900.44 900.20 900.44 900.20 900.44 900.45 900.44 900.45 900.44 900.45	2867.84 3221.76 3189.87 3189.87 3189.87 10164.24 2971.79 2971.74 2971.74 2971.74 2971.74 2971.74 2971.75 2781.75 2071.	42.42 12.66 11.66 11.63 34.09 <b>N/A</b> 415412.24 79630.39 642.74 134.74 32.72 23.72 21.00 20.17 18.31 18.22 16.75 18.25 10.33 10.33	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050 00 8290 00 9040 00 9050 00 19389 58 0 00 19389 58 0 00 19389 58 0 00 23 00 240 00 2740 00 270	8144.77 8894.77 8904.77 8914.77 11930.00 10.00 23.00 240.00 740.0					MINPT-O-EOU MinPt-O-ADP MinPt-CiCt MinPt-CiCt MinPt-OSF TD Surface MinPt-O-SF WRP MinPt-OSF MinPt-OSF MinPt-CiCt MinPt-CiCt MinPt-CiCt MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU	Pass
INC Only to 8657ft - A (De	2972.44 2975.46 3667.36 3663.27 3663.27 3663.31 10634.51 3004.60 3004.55 3004.52 3004.52 3004.52 3004.52 3004.53 3004.52 3004.53 30040	104.59 2 107.62 2 107.62 2 1435.59 3 473.40 3 473.49 3 473.49 3 470.27 10 32.81 3 32.81 3 32.81 3 32.81 3 32.81 2 35.92 2 192.38 22 192.38 22 192.38 22 217.53 2 226.91 2 250.67 2 250.67 2 250.67 2 250.67 2 250.67 2 250.67 2 26.80 2 25.53 2 26.80 2 25.55 2 24.85 51 2 48.85 52 2 25.55 2	902.88 3366.12 3346.84 3346.81 3346.81 3346.81 3320.17 9002.10 9002.04 9002.04 907.15 979.44 901.44 8375.86 8372.66 8375.86 835.86	2867.84 3221.76 3189.87 3189.87 10164.24 2971.79 2971.74 2971.72 2971.72 2971.72 2971.72 2971.75 2985.70 2812.25 2764.79 2778.70 2778.170 2778.170 2778.170 2778.76 2779.20 2779.20 2779.20 2779.20 2779.20 2779.20 27745.76	42.42 12.66 11.66 11.66 34.09 415412.24 79630.39 642.74 134.74 134.74 134.74 134.74 134.74 134.74 132.72 21.00 20.17 18.31 18.22 16.75 10.53	OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	2050 00 8290 00 9050 00 9050 00 19389 58 0 0 00 13389 58 0 0 00 23 00 240 00 240 00 240 00 240 00 4440 00 4430 00 4440 00 4490 00 5270 00 5270 00 5220 00 5220 00	8144,77 8894,77 8904,77 8914,77 11930.00 10.00 23.00 240.0					MINPT-O-EOU MinPt-OCIC MinPt-CICI MinPt-CICI MinPt-CICI MinPt-O-SF TD Surface MinPt-O-SF WRP MinPt-CICI MinPt-CICI MinPt-CICI MinPt-CAD MinPt-O-EOU MinPt-O-ADP MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU	ass

Offset Trajectory		Separation		Allow	Sep.	Controlling	Reference			Risk Level		Alert	Status
	Ct-Ct (ft) 3291.89	MAS (ft) 152.01	EOU (ft) 3189.72	Dev. (ft) 3139.88	Fact. 33.00	Rule OSF1.50	MD (ft) 14990.00	TVD (ft) 11930.00	Alert	Minor	Major	MinPt-O-ADP	
	4370.98	342.77	4141.63	4028.21	19.26	OSF1.50	17790.00	11930.00				MinPt-O-SF	
	5555.78	402.05	5286.91	5153.73	20.85	OSF1.50	19389.58	11930.00				TD	
025-35843 - James Federa													
INC Only to 8632ft - A (De rvey)	er												Pass
	3009.28	32.81	3007.63	2976.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3009.15 3009.14	32.81 32.81	3007.48 3007.48		229241.93 284770.98	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 23.00	20.00 23.00				MinPt-O-SF WRP	
	3009.00	32.81	3003.09	2976.20	704.87	MAS = 10.00 (m)	250.00	250.00				MinPts	
	3011.60	81.49	2956.72	2930.11	56.55	OSF1.50	1640.00	1640.00				MinPt-CtCt	
	3015.19 3018.92	96.94 101.43	2950.01 2950.75	2918.25 2917.50	47.44 45.36	OSF1.50 OSF1.50	1960.00 2050.00	1959.92 2049.68				MINPT-O-EOU MinPt-O-ADP	
	3274.33	225.47	3123.47	3048.86	21.93	OSF1.50	4280.00	4212.51				Mini t-0-ABI	
	3293.06	228.02	3140.50	3065.04	21.81	OSF1.50	4440.00	4367.06				MinPt-O-SF	
	3317.73 3357.76	238.91 242.68	3157.91 3195.43	3078.83 3115.08	20.97 20.89	OSF1.50 OSF1.50	4600.00 4860.00	4521.61 4772.75				MinPts MinPt-O-SE	
	3370.82	242.66	3195.43 3199.84	3115.06 3115.17	19.90	OSF1.50 OSF1.50	4860.00	4772.75 4840.36				MinPt-O-SF MinPts	
	3643.54	383.43	3387.37	3260.11	14.31	OSF1.50	7450.00	7304.77				MinPt-CtCt	
	3647.92	454.98	3344.05	3192.94	12.06	OSF1.50	8810.00	8664.77				MinPts	
	3647.99 3820.09	455.01 265.61	3344.10 3642.47	3192.98 3554.48	12.06 21.70	OSF1.50 OSF1.50	8830.00 14880.00	8684.77 11930.00				MinPt-O-SF MinPt-CtCt	
	3820.16	265.76	3642.43	3554.39	21.69	OSF1.50	14900.00	11930.00				MINPT-O-EOU	
	3820.23	265.85	3642.45	3554.38	21.68	OSF1.50	14910.00	11930.00				MinPt-O-ADP	
	4476.08 5912.29	345.32 410.81	4245.32 5637.86	4130.76 5501.47	19.53 21.67	OSF1.50 OSF1.50	17210.00 19389.58	11930.00 11930.00				MinPt-O-SF TD	
		410.01	3037.00	3301.47	21.07	0011.00	13503.50	11330.00				10	
025-35812 - James Federa INC Only to 8610ft - A (De													
vey)													Pass
	3254.21 3254.18	32.81 32.81	3251.71 3251.67	3221.40 3221.37	N/A 765818.06	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPt-O-SF	
	3254.16	32.81	3251.67	3221.37	N/A	MAS = 10.00 (m) MAS = 10.00 (m)	23.00	23.00				WRP	
	3253.22	32.81	3242.67	3220.41	403.70	MAS = 10.00 (m)	340.00	340.00				MinPts	
	3252.20 3254.43	94.19 101.08	3188.57 3186.21	3158.01 3153.35	53.16 49.48	OSF1.50 OSF1.50	1840.00 1980.00	1840.00 1979.88				MinPt-CtCt MINPT-O-EOU	
	3254.43 3257.22	101.08 104.46	3186.21 3186.74	3153.35 3152.75	49.48 47.88	OSF1.50 OSF1.50	1980.00 2050.00	1979.88 2049.68				MINP1-O-EOU MinPt-O-ADP	
	4031.34	396.04	3766.48	3635.30	15.36	OSF1.50	7670.00	7524.77				MinPt-CtCt	
	4041.06 4041.07	453.09 453.12	3738.17 3738.16	3587.97 3587.95	13.44 13.44	OSF1.50 OSF1.50	8770.00 8780.00	8624.77 8634.77				MinPt-CtCt MinPts	
	4041.07 4041.16	453.12	3738.16	3588.02	13.44 13.44	OSF1.50 OSF1.50	8780.00	8654.77				MinPts MinPt-O-SF	
	4222.59	305.73	4017.93	3916.86	20.88	OSF1.50	14880.00	11930.00				MinPt-CtCt	
	4222.63	305.86	4017.89	3916.78	20.87	OSF1.50	14900.00	11930.00				MINPT-O-EOU	
	4222.69 4642.73	305.93 349.95	4017.91 4408.59	3916.77 4292.78	20.86 20.03	OSF1.50 OSF1.50	14910.00 16810.00	11930.00 11930.00				MinPt-O-ADP MinPt-O-SF	
	6177.86	415.63	5899.95	5762.24	22.42	OSF1.50	19389.58	11930.00				TD	
marex James 29 Federal 35 ND to 13649ft (Def Survey)													Pass
	, 3448.60	32.81	3446.10	3415.80	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3448.44	32.81	3445.91		158424.12	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF WRP	
	3448.42 3442.11	32.81 32.81	3445.90 3430.20	3415.61 3409.30	163588.68 365.56	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 1010.00	23.00 1010.00				MinPts	
	3444.93	32.81	3425.23	3412.12	200.08	MAS = 10.00 (m)	1810.00	1810.00				MINPT-O-EOU	
	4437.78	134.82	4347.07 4346.84	4302.96 4302.52	50.28	OSF1.50	8960.00	8814.77				MinPt-CtCt	
	4437.97 4438.12	135.45 135.64	4346.84	4302.52 4302.48	50.04 49.97	OSF1.50 OSF1.50	9020.00 9040.00	8874.77 8894.77				MINPT-O-EOU MinPt-O-ADP	
	4446.04	138.82	4352.66	4307.22	48.89	OSF1.50	9320.00	9174.77				MinPts	
	4505.50	143.79	4408.81	4361.71	47.81	OSF1.50	9990.00	9844.77				MinPt-O-SF	
	5071.23 5145.59	143.88 144.86	4974.48 5048.18	4927.35 5000.73	53.78 54.19	OSF1.50 OSF1.50	11900.00 12550.00	11718.85 11930.00				MinPt-O-SF MinPt-CtCt	
	5145.63	144.95	5048.17	5000.68	54.16	OSF1.50	12570.00	11930.00				MINPT-O-EOU	
	5145.68	145.00	5048.18	5000.68	54.14	OSF1.50	12580.00	11930.00				MinPt-O-ADP	
	5149.58 5149.81	149.93 150.67	5048.79 5048.53	4999.65 4999.14	52.37 52.11	OSF1.50 OSF1.50	12900.00 12970.00	11930.00 11930.00				MinPt-CtCt MINPT-O-EOU	
	5150.17	151.10	5048.61	4999.07	51.96	OSF1.50	13010.00	11930.00				MinPt-O-ADP	
	5135.50	179.58	5014.95	4955.92	43.48	OSF1.50	14110.00	11930.00				MinPt-CtCt	
	5138.38 5143.40	187.89 203.78	5012.29 5006.72	4950.49 4939.62	41.55 38.31	OSF1.50 OSF1.50	14430.00 14830.00	11930.00 11930.00				MINPT-O-EOU MinPt-CtCt	
	5143.40	203.78 242.32	5006.72 4934.62	4939.62	38.31 31.86	OSF1.50 OSF1.50	14830.00 15830.00	11930.00				MinPt-CtCt MinPt-CtCt	
	5098.27	246.11	4933.37	4852.16	31.38	OSF1.50	15990.00	11930.00				MINPT-O-EOU	
	5102.09 5170.55	251.13 274.77	4933.83 4986.54	4850.96 4895.78	30.77 28.47	OSF1.50 OSF1.50	16160.00 17130.00	11930.00 11930.00				MinPt-O-ADP MinPt-O-SF	
	5170.55	274.77 278.20	4986.54 5699.36	4895.78 5607.46	32.01	OSF1.50 OSF1.50	17130.00	11930.00				MINPt-O-SF TD	
025-27136 - State `IG` 1 - o to 8630ft - A (Def Surve													Pass
	5588.11	32.81	5585.61	5555.30	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5588.02 5588.02	32.81	5585.51		608168.95 687493.81	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF	
	5588.02 5588.01	32.81 32.81	5585.51 5585.44	5555.21 ( 5555.20	687493.81 86907.16	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 40.00	23.00 40.00				WRP MinPts	
	5587.87	32.81	5581.92	5555.06	1621.15	MAS = 10.00 (m)	420.00	420.00				MinPts	
	5588.08	32.81	5578.77	5555.27	820.74	MAS = 10.00 (m) MAS = 10.00 (m)	760.00	760.00				MinPts	
	5588.64 5589.85	32.81 32.81	5574.58 5569.44	5555.83 5557.04	483.23 312.01	MAS = 10.00 (m) MAS = 10.00 (m)	1240.00 1890.00	1240.00 1889.99				MinPts MINPT-O-EOU	
	5820.39	84.18	5763.44	5736.21	106.84	OSF1.50	5110.00	5014.23				MinPt-O-ADP	
	5843.17	89.55	5782.64	5753.62	100.65	OSF1.50	5340.00	5236.39				MinPts MinPt CtCt	
	5911.09 5911.36	121.10 121.88	5829.53 5829.28	5790.00 5789.48	74.73 74.24	OSF1.50 OSF1.50	7150.00 7230.00	7004.77 7084.77				MinPt-CtCt MINPT-O-EOU	
	5911.68	121.00	5829.33	5789.48 5789.41	74.24	OSF1.50	7270.00	7124.77				MinPt-O-ADP	
	5918.99	126.25	5833.99	5792.74	71.71	OSF1.50	7590.00	7444.77				MinPts	
	5974.73 6048.38	143.89 147.37	5877.97 5949.29	5830.84 5901.00	63.36 62.60	OSF1.50 OSF1.50	9020.00 9750.00	8874.77 9604.77				MinPts MinPt-O-SF	
	6048.38 3525.07	147.37	5949.29 3414.24	3360.08	32.52	OSF1.50 OSF1.50	9750.00	9604.77 11930.00				MinPt-O-SF MinPt-CtCt	
	3525.43	166.13	3413.85	3359.31	32.30	OSF1.50	17700.00	11930.00				MINPT-O-EOU	
	3525.99 3760.82	166.81 192.65	3413.95 3631.55	3359.18 3568.17	32.17 29.65	OSF1.50 OSF1.50	17730.00 18960.00	11930.00 11930.00				MinPt-O-ADP MinPt-O-SF	
	3931.19	192.00	3797.36	3731.69	29.91	OSF1.50	19389.58	11930.00				TD	
terra James 20-29 Federal													
m 42H Rev0 kFc 08Sep22													Reco
f Plan)	6152.06	32.81	6149.56	6119.25	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6152.05	32.81	6149.55	6119.24	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	0102.00	52.01	01-0.00	0110.24	14/74		23.00	20.00				WRP	

Offset Trajectory	s	eparation		Allow	Sep.	Controlling	Reference T	rajectorv		Ris	k Level		Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	1	linor	Major		
	6148.38 6148.80	32.81 33.40	6126.08 6125.70	6115.57 6115.40	310.40 298.37	MAS = 10.00 (m) OSF1.50	1980.00 2060.00	1979.88 2059.64					MinPts MINPT-O-EOU	
	6149.30	34.00	6125.80	6115.30	292.69	OSF1.50	2100.00	2099.45					MinPt-O-ADP	
	3554.40	203.65	3417.80	3350.74	26.49	OSF1.50	11030.00	10884.77					MinPt-CtCt	
	3554.40 3554.43	203.69 203.72	3417.78 3417.79	3350.71 3350.71	26.48 26.48	OSF1.50 OSF1.50	11040.00 11050.00	10894.77 10904.77					MINPT-O-EOU MinPt-O-ADP	
	3557.84	204.14	3420.91	3353.70	26.45	OSF1.50	11190.00	11044.77					MinPt-O-SF	
	3706.97	306.64	3501.71	3400.33	18.27	OSF1.50	16780.00	11930.00					MINPT-O-EOU	
	3707.05 3718.57	306.74 308.86	3501.73 3511.83	3400.31 3409.71	18.26 18.19	OSF1.50 OSF1.50	16790.00 17050.00	11930.00 11930.00					MinPt-O-ADP MinPt-O-SF	
	4547.48	297.54	4348.29	4249.94	23.11	OSF1.50	19389.58	11930.00					TD	
0-025-33001 - Falcon '32'														
ate 1 - INC Only to 10000ft - (Def Survey)														Pass
	7279.19 7279.11	32.81 32.81	7276.69 7276.60	7246.38 7246.30	N/A 670845.40	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 20.00	0.00 20.00					Surface MinPt-O-SF	
	7279.10	32.81	7276.59		686285.41	MAS = 10.00 (m)	23.00	23.00					WRP	
	7279.08	32.81 97.45	7276.52 7211.13	7246.27 7179.47	120805.05 114.92	MAS = 10.00 (m) OSF1.50	40.00 1840.00	40.00 1840.00					MinPts MinPt-CtCt	
	7279.52	105.49	7208.36	7174.03	105.98	OSF1.50	2020.00	2019.78					MINPT-O-EOU	
	7282.83	109.48	7209.01	7173.35	102.08	OSF1.50	2110.00	2109.40					MinPt-O-ADP	
	7586.75 7821.12	254.33 407.24	7416.37 7548.79	7332.42 7413.87	45.18 28.98	OSF1.50 OSF1.50	4840.00 7830.00	4753.43 7684.77					MinPts MinPt-CtCt	
	7815.19	506.46	7476.72	7308.74	23.25	OSF1.50	9710.00	9564.77					MinPt-CtCt	
	7824.46	527.98	7471.64	7296.48	22.33	OSF1.50	10330.00	10184.77					MINPT-O-EOU	
	7826.34 7826.63	530.70 530.83	7471.71 7471.90	7295.64 7295.79	22.22 22.21	OSF1.50 OSF1.50	10400.00 10410.00	10254.77 10264.77					MinPt-O-ADP MinPt-O-SF	
	3664.24	487.21	3338.61	3177.04	11.33	OSF1.50	18980.00	11930.00					MinPt-CtCt	
	3664.31	487.39	3338.55	3176.93	11.33	OSF1.50	19000.00	11930.00					MINPT-O-EOU	
	3664.39 3677.52	487.48 490.33	3338.57 3349.80	3176.91 3187.19	11.33 11.30	OSF1.50 OSF1.50	19010.00 19290.00	11930.00 11930.00					MinPt-O-ADP MinPt-O-SF	
	3687.31	490.33	3358.82	3195.82	11.30	OSF1.50	19389.58	11930.00					TD	
25-37176 - State IG 2 - Only to 8625ft - A (Def														2
vey)	6602.92	32.81	6600.42	6570.11	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	Pass
	6602.89	32.81	6600.39	6570.08	N/A	MAS = 10.00 (m)	10.00	10.00					MinPt-O-SF	
	6602.88 6604.07	32.81 83.46	6600.34 6547.59	6570.07 6520.61	168909.77 122.31	MAS = 10.00 (m) OSF1.50	23.00 1620.00	23.00 1620.00					MinPts MinPt-CtCt	
	6608.04	100.97	6539.89	6507.06	100.62	OSF1.50	2010.00	2009.81					MINPT-O-EOU	
	6612.85	106.73	6540.87	6506.12	95.13	OSF1.50	2140.00	2139.20					MinPt-O-ADP	
	6638.17 6662.09	131.58 164.89	6549.62 6551.33	6506.59 6497.20	77.11 61.52	OSF1.50 OSF1.50	2540.00 2960.00	2531.80 2937.49					MinPt-O-ADP MinPts	
	6765.16	233.15	6608.89	6532.01	43.98	OSF1.50	4330.00	4260.81					MinPts	
	6843.71	270.80	6662.34	6572.91	38.25	OSF1.50	5150.00	5052.87					MINPT-O-EOU	
	6844.54 6982.19	271.67	6662.59	6572.87	38.13	OSF1.50	5160.00	5062.53					MinPt-O-ADP	
	6982.19	423.58 457.94	6698.97 6681.55	6558.61 6529.74	24.86 23.01	OSF1.50 OSF1.50	8140.00 8800.00	7994.77 8654.77					MinPt-CtCt MinPts	
	6988.54	458.09	6682.32	6530.45	23.00	OSF1.50	8900.00	8754.77					MinPt-O-SF	
	4124.94	310.54	3917.08	3814.40	20.07	OSF1.50	16860.00	11930.00					MinPt-O-SF	
	3760.34 3760.50	289.83 290.29	3566.29 3566.14	3470.51 3470.21	19.62 19.59	OSF1.50 OSF1.50	18560.00 18590.00	11930.00 11930.00					MinPt-CtCt MINPT-O-EOU	
	3760.89	290.77	3566.21	3470.12	19.56	OSF1.50	18620.00	11930.00					MinPt-O-ADP	
025-38050 - James 20	3851.72	312.03	3642.87	3539.69	18.65	OSF1.50	19389.58	11930.00					MinPt-O-SF	
eral 2 - INC Only to 8850ft Def Survey)	- 4103.11	32.81	4100.61	4070.30	N/A	MAS = 10.00 (m)	0.00	0.00						Pass
	4103.06												Surface	
		32.81	4100.55	4070.25	532729.72	MAS = 10.00 (m)	10.00	10.00						
	4103.03	32.81	4100.53	4070.22	532729.72 N/A	MAS = 10.00 (m)	10.00 23.00	23.00					Surface MinPt-O-SF WRP	
	4100.56	32.81 32.81	4100.53 4080.55	4070.22 4067.75	532729.72 N/A 234.11	MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 630.00	23.00 630.00					Surface MinPt-O-SF WRP MinPts	
		32.81	4100.53	4070.22	532729.72 N/A	MAS = 10.00 (m)	10.00 23.00	23.00					Surface MinPt-O-SF WRP	
	4100.56 4102.60	32.81 32.81 99.35 111.58 122.06	4100.53 4080.55 4035.53	4070.22 4067.75 4003.25	532729.72 N/A 234.11 63.50	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00	23.00 630.00 1919.96 2168.97 2356.44					Surface MinPt-O-SF WRP MinPts MinPt-CtCt MINPT-O-EOU MinPt-O-ADP	
	4100.56 4102.60 4106.75 4115.17 4576.79	32.81 32.81 99.35 111.58 122.06 409.69	4100.53 4080.55 4035.53 4031.53 4032.97 4302.83	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10	532729.72 N/A 234.11 63.50 56.44 51.60 16.85	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00 7910.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77					Surface MinPt-O-SF WRP MinPts MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-CtCt	
	4100.56 4102.60 4106.75 4115.17 4576.79 4578.68	32.81 32.81 99.35 111.58 122.06	4100.53 4080.55 4035.53 4031.53 4032.97	4070.22 4067.75 4003.25 3995.17 3993.11	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00 7910.00 9020.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77					Surface MinPt-O-SF WRP MinPts MinPt-CICt MINPT-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-Cict MinPts	
	4100.56 4102.60 4106.75 4115.17 4576.79 4578.68 4578.69 4578.85	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84	4100.53 4080.55 4035.53 4031.53 4032.97 4302.83 4265.98 4265.99 4266.13	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10 4110.89 4110.88 4111.01	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 14.75	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00 7910.00 9020.00 9030.00 9060.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8884.77 8914.77					Surface MinPt-O.SF WRP MinPt-CIC MINPT-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-SF	
	4100.56 4102.60 4106.75 4115.17 4576.79 4578.68 4578.69	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81	4100.53 4080.55 4035.53 4031.53 4032.97 4302.83 4265.98 4265.99	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10 4110.89 4110.88	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00 7910.00 9020.00 9030.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8884.77					Surface MinPt-O-SF WRP MinPts MinPt-CtCt MINPT-O-EOU MinPt-O-ADP MinPt-CtCt MinPts MinPt-O-ADP	
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4106.75 4116.75 4115.17 4578.69 4578.69 4578.85 11872.50	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.19	4100.53 4080.55[ 4035.53 4031.53 4032.97 4302.83 4265.99] 4265.99 4266.13 11560.21	4070.22 4067.75 3095.17 3993.11 4167.10 4110.89 4110.88 4111.01 11405.32	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 2360.00 7910.00 9020.00 9030.00 9060.00 19389.58	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8884.77 8914.77 11930.00					Surface MinPt-O.SF WRP MinPt-C MINPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP TD	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4578.69 4578.69 4578.85 11872.50 6148.02 6148.02	32.81 32.81 99.35 111.58 122.06 409.69 467.81 467.81 467.84 467.19	4100.53 4080.55 4035.53 4031.53 4032.97 4302.83 4265.99 4266.13 11560.21 6145.52 6145.52	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10 4110.89 4110.81 11405.32 6115.21 6115.21	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 2160.00 2360.00 9030.00 9030.00 9060.00 19389.58	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8844.77 8844.77 11930.00					Surface MinPt-C-SP WRP MinPts MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-T TD Surface WRP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4116.77 <b>4578.79</b> 4578.69 4578.85 11872.50 6148.02 6148.02 6147.97	32.81 32.81 99.35 111.58 122.06 409.99 467.79 467.81 467.84 467.84 467.19	4100.53 4080.55[ 4035.53 4031.53 4032.97 4302.83 4265.99[ 4266.13 11560.21 6145.52 6145.52 6144.55	4070.22 4067.76 4003.25 3995.17 3993.11 4167.10 4110.88 4111.01 11405.32 6115.21 6115.21 6115.21 6115.16	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 630.00 2170.00 22170.00 9020.00 9020.00 9020.00 9060.00 19389.58	23.00 630.00 1919.62 2168.97 2356.44 7764.77 8874.77 8874.77 88914.77 11930.00					Surface MinPt-O.SF WRP MinPt-CH MINPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-SF TD Surface WRP MinPt-O-MP	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4578.69 4578.69 4578.85 11872.50 6148.02 6148.02	32.81 32.81 99.35 111.58 122.06 409.69 467.81 467.81 467.84 467.19	4100.53 4080.55 4035.53 4031.53 4032.97 4302.83 4265.99 4266.13 11560.21 6145.52 6145.52	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10 4110.89 4110.81 11405.32 6115.21 6115.21	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 2160.00 2360.00 9030.00 9030.00 9060.00 19389.58	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8844.77 8844.77 11930.00					Surface MinPt-C-SP WRP MinPts MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-T TD Surface WRP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4576.69 4578.69 4578.69 4578.69 4578.68 11872.50 6148.02 6148.	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.84 467.19 32.81 32.81 32.81 32.81 32.81 32.81 68.13	4100.53 4080.55 4035.53 4032.97 4032.83 4032.97 4265.99 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6144.86 <b>6144.21</b> <b>6141.20</b> <b>6142.54</b>	4070.22 4067.75 4003.25 3995.17 3995.17 3993.11 4167.10 4110.89 4110.89 4110.89 4110.81 11405.32 6115.21 6115.21 6115.21 6115.21 6115.21 6115.23 912.23 6115.21 6117.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 617	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A 10067.86 1552.04 469.82	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	10.00 23.00 630.00 1920.00 2700.00 9020.00 9020.00 9030.00 9060.00 19389.58 0.00 23.00 130.00 430.00 430.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8874.77 11930.00 11930.00 130.00 430.00 1410.00					Surface MinPt-O-SF WRP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4102.60 4102.60 4106.75 4115.17 4576.59 4578.69 4578.65 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6158.80 658.30 6551.97	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.84 467.99 32.81	4100.53 4080.55 4035.53 4032.53 4032.97 4302.83 4265.98 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6144.52 6144.21 <b>6144.21</b> <b>6144.21</b> <b>6144.21</b>	4070.22 4067.75 4003.25 3995.17 3993.11 4167.10 4110.88 4110.88 4110.88 6115.21 6115.21 6115.21 6115.22 6115.23 6115.21 6117.22 6123.99 6490.17 6500.51	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A N/A N/A 10067.86 100	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 630.00 2170.00 2280.00 9030.00 9030.00 9030.00 9030.00 9030.00 193858 0.00 133858 0.00 1330.00 4300.00 1410.00	23.00 630.00 1919.95 2168.97 2366.47 8874.77 8874.77 8914.77 11930.00 23.00 130.00 430.00 1410.00 44312.51					Surface MinPt-O-SP MinPt-SitCl MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF TD Surface WRP MinPt-O-SF MINPT-O-EOU MINPT-O-EOU MinPt-O-ADP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4576.69 4578.69 4578.69 4578.69 4578.68 11872.50 6148.02 6148.	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.84 467.19 32.81 32.81 32.81 32.81 32.81 32.81 68.13	4100.53 4080.55 4035.53 4032.97 4032.83 4032.97 4265.99 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6144.86 <b>6144.21</b> <b>6141.20</b> <b>6142.54</b>	4070.22 4067.75 4003.25 3995.17 3995.17 3993.11 4167.10 4110.89 4110.89 4110.89 4110.81 11405.32 6115.21 6115.21 6115.21 6115.21 6115.21 6115.23 912.23 6115.21 6117.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 6127.22 617	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A 10067.86 1552.04 469.82	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50	10.00 23.00 630.00 1920.00 2700.00 9020.00 9020.00 9030.00 9060.00 19389.58 0.00 23.00 130.00 430.00 430.00	23.00 630.00 1919.96 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8874.77 11930.00 11930.00 130.00 430.00 1410.00					Surface MinPt-O-SF WRP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-EOU MINPT-O-EOU MINPT-O-EOU MINPT-O-EOU	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4576.39 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 6148.02 614	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.81 467.84 467.19 32.81 32.82 32.81 32.82 32.81 32.82 32.82 32.83 34.8	4100.53 4080.56 4035.53 4035.53 4032.83 4265.98 4265.99 4265.99 4266.13 11560.21 6145.52 6144.52 6144.26 6144.20 6512.04 6523.49 4020.42 4019.47 4017.11	4070.22 4067.75 4063.25 3995.17 3995.17 3995.17 3995.17 4167.10 4110.89 410.89	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.95	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 630.00 2170.00 2280.00 9020.00 9030.00 9030.00 9030.00 9030.00 9030.00 19389.58 0.00 13389.58 0.00 1330.00 430.00 1410.00 1410.00 1240.00 1240.00 1240.00	23.00 630.00 1919.95 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8844.77 11930.00 23.00 130.00 130.00 130.00 1410.00 4212.51 4318.76 11926.25 11930.00					Surface MinPt-O-SP MinPt-Sitt MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-C-ADP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4105.75 4576.79 4576.75 4576.69 4578.65 11872.50 6148.02 6148.	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.19 32.81	4100.53 4080.56 4035.53 4035.53 4032.97 4302.83 4265.98 4265.98 4265.99 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6144.20 6512.04 6512.04 6512.04 6512.04 6512.04 4019.47 4017.11	4070.22 4067.75 4063.25 3993.17 3993.11 3993.11 4167.10 4170.82 4170.82 4170.82 4170.82 4170.80 410.80 410	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.96	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2360.00 9020.00 9030.00 9060.00 19389.58 0.00 130.00 430.00 430.00 430.00 44280.00 4280.00 4280.00 12760.00 12760.00	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 11930.00 130.00 430.00 1410.00 4212.51 4318.76 11926.25 11930.00 11930.00					Surface MinPt-O-SF WRP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-CADP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4576.39 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 6148.02 614	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.81 467.84 467.19 32.81 32.82 32.81 32.82 32.81 32.82 32.82 32.83 34.8	4100.53 4080.56 4035.53 4035.53 4032.83 4265.98 4265.99 4265.99 4266.13 11560.21 6145.52 6144.52 6144.26 6144.20 6512.04 6523.49 4020.42 4019.47 4017.11	4070.22 4067.75 4063.25 3995.17 3995.17 3995.17 3995.17 4167.10 4110.89 410.89	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.95	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m)	10.00 23.00 630.00 2170.00 2280.00 9020.00 9030.00 9030.00 9030.00 9030.00 9030.00 19389.58 0.00 13389.58 0.00 1330.00 430.00 1410.00 1410.00 1240.00 1240.00 1240.00	23.00 630.00 1919.95 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8844.77 11930.00 23.00 130.00 130.00 130.00 1410.00 4212.51 4318.76 11926.25 11930.00					Surface MinPt-O-SP MinPt-Sitt MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-C-ADP	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4105.75 4105.75 4576.59 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.50 4578.40 4558.30 4558.30 4558.30 4558.31 455.51 4155.51 4155.51	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.84 467.84 467.49 32.81 8.83 8.84 8.84 8.84 8.84 8.84 8.84 8.84	4100.53 4080.55 4035.53 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4025.98 4265.99 4265.98 4265.9	4070.22 4067.75 4063.25 3995.17 3993.11 4167.10 4110.89 4110.89 4110.81 4111.01 11405.32 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 910.05 910.05 949.05	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A N/A 10067.86 10067.86 10067.86 1452.04 469.83 149.82 142.89 28.66 27.96 27.96 27.96 27.96 25.28 25.09 24.83	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1920.00 2170.00 9020.00 9030.00 9050.00 19389.58 0.00 13389.58 0.00 1410.00 430.00 430.00 1410.00 1240.00 12240.00 12240.00 12240.00 12240.00 12240.00 12240.00 12240.00	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8914.77 11930.00 23.00 430.00 430.00 430.00 430.00 431.00 431.00 11920.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-SF TD Surface WRP MINPT-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU	Pass
ral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4576.69 4578.69 4578.65 4578.69 4578.65 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6158.80 6578.197 4157.52 4165.591 4155.591	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.81 467.81 467.81 467.81 32.81 52.53 32.25 58 32.25 58 22.53 52.55 53 52.55 53 52.55 55 55 55 55 55 55 55 55 55 55 55 55	4100.53 4080.55 4035.53 4032.97 4302.97 4302.83 4265.98 4265.98 4265.98 4265.98 4265.92 4265.92 4265.92 4265.93 4265.92 4265.93 4265.92 4265.93 4265.92 4265.93 4265.92 4265.93 4265.92 4265.93 4265.9	4070.22 4067.75 4063.25 3995.17 3995.17 3995.17 3995.17 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 6115.21 612.39 612.39 612.39 612.39 612.39 612.39 640.17 6500.51 3947.74 3962.62 3903.97 3903.97	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 27.96 27.99 25.28 25.09 24.83 24.81	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m	10.00 23.00 630.00 2170.00 9030.00 9030.00 9030.00 9060.00 19389.58 0.00 13389.58 0.00 1410.00 1410.00 1440.00 12440.00 12440.00 12440.00 14140.00 14140.00	23.00 630.00 1919.95 2168.97 23564.77 8874.77 8874.77 8874.77 8914.77 11930.00 130.00 130.00 1410.00 430.00 1410.00 4318.76 11926.25 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4105.75 4105.75 4576.59 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.69 4578.50 4578.40 4558.30 4558.30 4558.30 4558.31 455.51 4155.51 4155.51	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.84 467.84 467.49 32.81 8.83 8.84 8.84 8.84 8.84 8.84 8.84 8.84	4100.53 4080.55 4035.53 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4025.98 4265.99 4265.98 4265.9	4070.22 4067.75 4063.25 3995.17 3993.11 4167.10 4110.89 4110.89 4110.81 4111.01 11405.32 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 6115.21 910.05 910.05 949.05	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A N/A 10067.86 10067.86 10067.86 1452.04 469.83 149.82 142.89 28.66 27.96 27.96 27.96 27.96 25.28 25.09 24.83	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 1920.00 2170.00 9020.00 9030.00 9050.00 19389.58 0.00 13389.58 0.00 1410.00 430.00 430.00 1410.00 1240.00 12240.00 12240.00 12240.00 12240.00 12240.00 12240.00 12240.00	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8914.77 11930.00 23.00 430.00 430.00 430.00 430.00 431.00 431.00 11920.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-SF TD Surface WRP MINPT-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4102.60 4105.75 4115.17 4576.69 4578.65 4578.69 4578.65 11872.50 6148.02 61	32.81 32.81 99.35 111.58 122.06 407.73 467.84 467.84 467.84 467.19 32.81	4100.53 4080.55 4035.53 4035.53 4032.97 4302.83 4265.98 4265.99 4265.9	4070.22 4067.75 4063.25 3995.17 3995.17 3995.17 3995.17 4167.10 4110.88 4110.88 4110.89 410.89 410	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 28.46 27.96 27.19 25.28 25.09 24.83 24.81 24.26 22.20	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	10.00 23.00 630.00 1920.00 2170.00 9020.00 9030.00 9030.00 9030.00 9030.00 19389.58 0.00 13389.58 0.00 1330.00 430.00 1410.00 1240.00 1240.00 1240.00 1240.00 1240.00 1240.00 1240.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 141450.00 142880.00 142880.00 142880.00 141450.00 15560.00 15560.00 15560.00 15560.00 15560.00 15560.00 15560.00 15560.00 15560.00 15560.00 15570	23.00 630.00 1919.95 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11530.00 130.00 130.00 1410.00 1410.00 1419.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O.SP MinPt-CiCU MinPt-O-EOU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-O-ADP MinPt-C-ADP	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	410.56 4106.75 4106.75 4115.17 4576.79 4578.69 4578.59	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.84 467.84 467.19 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 5.85 5.55 5.55 5.55 5.55 5.55 5.55 5	4100.53 4080.55 4035.53 4032.97 4032.97 4032.97 4032.97 4032.97 4265.98 4265.98 4265.98 4265.98 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6145.52 6145.52 6142.40 6512.04 807.05 8	4070.22 4067.75 4067.75 3993.17 3993.17 3993.17 3993.14 4167.10 4110.89 410.89 410	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.96 28.48 27.96 27.19 25.28 25.09 24.83 24.81 24.26 22.20 22.15	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 1920.00 2170.00 92360.00 9030.00 9030.00 9030.00 19389.58 0.00 130.00 430.00 1401.00 4280.00 1410.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 14140.00 14140.00 14140.00 14140.00 14270.00 14280.00 14280.00 14280.00 14460.00 14590.00 15640.00	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11930.00 130.00 4210.01 4310.00 1410.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SF WRP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-CiCU MinPt-CiCC MinPt-CiCCU MinPt-CiCCU MinPt-CiCCU MinPt-C-ADP MinPt-CiCCU MinPt-C-ADP	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56         4102.60           4102.61         4106.75           4105.75         4576.79           4576.79         4576.85           4576.85         11872.50           6148.02         6148.02           6148.02         6148.02           6148.02         6148.02           6148.02         6147.97           6155.03         6568.30           6571.97         4168.27           4165.591         4155.51           4155.51         4155.51           4155.51         4157.63           4168.33         4164.16           4164.48         4164.48	32.81 32.81 99.35 111.58 122.06 409.69 467.79 467.81 467.84 467.84 467.19 32.81 40 81 32.82 81 23.22 32.22 32.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.22 23.23 24.23 24.23 24.23 2	4100.53 4080.55 4035.53 4031.53 4032.87 4032.97 4032.97 4032.97 4032.97 4032.87 4032.87 4032.87 4032.87 4032.87 4032.87 6145.52 6145.52 6145.52 6145.52 6144.21 6512.04 6512.04 6512.04 6512.04 6512.04 6512.04 809.87 809.78 3987.83 3987.83 3987.83 3987.83 3987.83 3987.38 3973.78 3973.98	4070.22 4067.75 4063.25 3995.17 3993.11 4167.10 4110.89 4110.89 4110.89 4110.89 4110.89 4110.89 6115.21 6115.21 6115.22 6115.21 6115.22 6115.21 6117.22 6123.99 6490.17 6500.51 3946.28 3950.51 3900.55 3903.97 3903.97 3903.97 3903.97 3903.98 3880.25 3879.62 3879.62	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A 10067.86 1452.04 469.83 149.82 1452.84 469.83 149.82 142.89 28.66 27.96 27.19 25.28 25.09 24.83 24.81 24.26 22.15 22.15 22.12	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 2170.00 9020.00 9030.00 9030.00 9030.00 9030.00 13389.58 0.00 13389.58 0.00 13380.00 1410.00 1440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12460.00 15590.00 15590.00 15590.00 15640.00 15640.00 15640.00 15640.00	23.00 630.00 1919.96 2168.97 23564.77 8874.77 8874.77 8874.77 8914.77 11930.00 23.00 23.00 23.00 430.00 430.00 430.00 430.00 430.00 1410.00 431.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-EOU MinPt-O-EOU MinPt-O-SF MinPt-O-SF TD Surface WRP MinPt-O-SF MINPT-O-EOU MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-C-ADP MinPt-C-ADP	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	410.56 4106.75 4106.75 4115.17 4576.79 4578.69 4578.59	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.84 467.84 467.19 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 5.85 5.55 5.55 5.55 5.55 5.55 5.55 5	4100.53 4080.55 4035.53 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4265.98 4265.98 4265.98 4265.98 4265.99 4266.13 11560.21 6145.52 6145.52 6145.52 6145.52 6145.52 6145.52 6142.40 6512.04 8397.83 3987.66 3987.69 3995.20 3973.98	4070.22 4067.75 4067.75 3993.17 3993.17 3993.17 3993.14 4167.10 4110.89 410.89 410	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.96 28.48 27.96 27.19 25.28 25.09 24.83 24.81 24.26 22.20 22.15	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 1920.00 2170.00 92360.00 9030.00 9030.00 9030.00 19389.58 0.00 130.00 430.00 1401.00 4280.00 1410.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 14140.00 14140.00 14140.00 14140.00 14270.00 14280.00 14280.00 14280.00 14460.00 14590.00 15640.00	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11930.00 130.00 430.00 4410.00 1410.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SF WRP MinPt-CiCU MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-ADP MinPt-O-CiCU MinPt-CiCC MinPt-CiCCU MinPt-CiCCU MinPt-CiCCU MinPt-C-ADP MinPt-CiCCU MinPt-C-ADP	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4577.69 4578.69 4578.65 4578.69 4578.65 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6158.80 6158.80 6158.80 6159.17 4155.91 4167.92 4165.91 4167.92 4165.91 4167.92 417.92	32.81 32.81 99.35 111.58 122.06 409.69 467.73 467.84 467.84 467.19 32.81 32.91 30.00 30.004	4100.53 4080.55 4035.53 4032.97 4302.97 4302.83 4265.98 4265.98 4266.13 11560.21 6145.52 6145.52 6145.52 6144.86 6144.21 66142.04 6512.04 6512.04 6512.04 6512.04 6512.04 8047.65 3987.66 397.67 397.88 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.80 39	4070.22 4067.75 4067.75 4003.25 3995.17 3995.17 3995.17 3995.17 4110.89 410.89	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.96 27.99 24.83 24.81 24.28 25.09 24.83 24.81 24.28 24.20 22.15 22.12 21.75 21.66 20.91 20.91	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 2170.00 22960.00 9030.00 9030.00 9060.00 19389.58 0.00 13389.58 0.00 1410.00 1410.00 1440.00 12440.00 12440.00 12440.00 12440.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14550.00 15640.00 15690.00 15690.00 15690.00 16580.00	23.00 630.00 1919.95 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11530.00 130.00 430.00 1410.00 4410.00 4410.00 1410.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-ADP MinPt-O-CiCU MinPt-O-ADP MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-SF MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-C-COU MinPt-C-EOU MinPt-O-ADP MinPt-C-EOU	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4102.60 4106.75 4151.77 4576.79 4578.69 4578.69 4578.68 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6150.02 6150.02 6162.03 6177.04 4175.51 4166.35 4167.33 4166.35 4166.35 4166.35 4166.35 4166.35 4167.35 4166.35 4166.35 4167.35 4168.85 4167.35 4168.85 4167.35 4168.85 4167.35 4168.85 4167.35 4168.85 4167.35 4168.85 4177.45 41	32,81 32,81 99,35 111,58 122,06 467,79 467,79 467,84 467,84 467,19 32,81	4100.53 4080.55 4035.53 4035.53 4032.97 4302.83 4265.98 4265.98 4265.98 4265.98 4265.98 4265.98 4265.98 4265.98 4265.98 4265.99 4265.99 4265.99 4265.99 4265.99 4265.99 4265.99 4265.99 4265.94 6145.52 615.52 615.5	4070.22 4067.75 4067.75 4003.25 3993.11 3993.11 4167.10 4110.89 410.89 410	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A 10067.86 1852.04 469.83 149.82 142.83 24.83 24.83 24.84 27.96 27.19 25.28 25.09 24.83 24.8	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 1920.00 2170.00 9020.00 9030.00 9060.00 19389.58 0.00 13389.58 0.00 130.00 430.00 1410.00 1340.00 1410.00 1340.00 14410.00 12440.00 13440.00 13440.00 14440.00 14440.00 14460.00 14460.00 15690	23.00 630.00 1919.95 2168.97 2366.47 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11930.00 1410.00 4212.51 4318.75 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MINPT-O-EQU MINPT-O-EQU MINPT-O-EQU MINPT-O-CEU MINPT-O-ADP MINPT-O-SF TD Surface WRP MINPT-O-SFU MINPT-O-EQU	Pass
eral Com 39H - Corrected D to 21906ft - A (Def	4100.56 4102.60 4106.75 4115.17 4577.69 4578.69 4578.65 4578.69 4578.65 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6158.80 6158.80 6158.80 6159.17 4155.91 4167.92 4165.91 4167.92 4165.91 4167.92 417.92	32.81 32.81 99.35 111.58 122.06 409.69 467.73 467.84 467.84 467.19 32.81 32.91 30.00 30.004	4100.53 4080.55 4035.53 4032.97 4302.97 4302.83 4265.98 4265.98 4266.13 11560.21 6145.52 6145.52 6145.52 6144.86 6144.21 66142.04 6512.04 6512.04 6512.04 6512.04 6512.04 8047.65 3987.66 397.67 397.88 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.89 397.80 39	4070.22 4067.75 4067.75 4003.25 3995.17 3995.17 3995.17 3995.17 4110.89 410.89	532729.72] N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 38.32 N/A N/A N/A 10067.86 1852.04 469.83 149.82 142.89 28.66 28.46 27.96 27.99 24.83 24.81 24.28 25.09 24.83 24.81 24.28 24.20 22.15 22.12 21.75 21.66 20.91 20.91	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 2170.00 22960.00 9030.00 9030.00 9060.00 19389.58 0.00 13389.58 0.00 1410.00 1410.00 1440.00 12440.00 12440.00 12440.00 12440.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14140.00 14550.00 15640.00 15690.00 15690.00 15690.00 16580.00	23.00 630.00 1919.95 2168.97 2356.44 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8874.77 11530.00 130.00 430.00 1410.00 4410.00 4410.00 1410.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-ADP MinPt-O-CiCU MinPt-O-ADP MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-SF MinPt-O-EOU MinPt-O-ADP MinPt-O-ADP MinPt-CiCU MinPt-CiCU MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-CiCU MinPt-C-ADP MinPt-C-COU MinPt-C-EOU MinPt-O-ADP MinPt-C-EOU	Pass
925-45604 - James 20-29 eral Com 39H - Corrected D to 21906t - A (Def vey)	4100.56 4102.60 4106.75 4105.75 4105.75 4576.69 4576.69 4576.85 11872.50 6148.02 6148.02 6148.02 6148.02 6148.02 6148.02 6148.02 6148.02 6155.02 6155.02 6155.02 6155.02 6155.02 6155.03 6571.97 4168.27 4165.59 4167.75 417.75 417.	32.81 32.81 99.35 111.58 122.06 467.79 467.81 467.84 467.49 467.41 32.81	4100.53 4080.55 4035.53 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 4032.97 402.47 4015.52 6145.52 6145.52 6145.52 6145.52 6144.21 6144.86 6144.21 6612.04 6512.04 6144.21 6614.23 6144.21 6614.23 6144.21 6614.23 6144.21 6614.23 6144.21 6144.23 6144.21 6144.21 6144.21 6144.21 63988.39 3987.83 3987.63 3987.63 3997.398 3977.38 3977.38 3974.49 3970.38	4070.22 4067.75 4067.75 3995.17 3995.17 3995.17 3995.17 3995.17 4167.10 410.00	532729.72 N/A 234.11 63.50 56.44 51.60 16.85 14.75 14.75 14.75 38.32 N/A N/A 10067.86 155.04 469.83 149.83 149.82 142.89 28.66 27.96 27.19 25.29 24.83 14.25 25.09 24.83 24.81 24.26 22.15 22.15 22.15 22.15 22.15 22.15 22.15 22.15 22.15 22.166 20.977 20.82 20.477 20.3777 20.3777 20.3777 20.3777 20.3777 20.3777 20.3777 20.3777 20.37777 20.377777 20.3777777777777777777777777777777777777	MAS = 10.00 (m) MAS = 10.00 (m) OSF1.50 OSF1.5	10.00 23.00 630.00 2170.00 9020.00 9030.00 9030.00 9030.00 9030.00 13389.58 0.00 13389.58 0.00 13389.58 0.00 13380.00 1430.00 1430.00 1440.00 12440.00 12440.00 12440.00 12440.00 12440.00 12440.00 1440.00 1440.00 1440.00 1440.00 1440.00 14280.00 14280.00 14280.00 14280.00 15590.00 15590.00 15590.00 15580.00	23.00 630.00 1919.96 2168.97 2366.47 7764.77 8874.77 8874.77 8874.77 8874.77 8874.77 8914.77 11930.00 23.000 430.00 430.00 430.00 430.00 430.00 1410.00 1410.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00					Surface MinPt-O-SP MinPt-CiCU MinPt-O-EOU MinPt-O-EOU MinPt-O-ADP MinPt-O-SF TD Surface WRP MinPt-O-SF MinPt-O-EOU MinPt-O-EOU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CiCU MinPt-O-CICU MinPt-O-CICU MinPt-O-CICU	Pass

		Separation		Allow	Sep.	Controlling	Reference	Trajectory	Risk Level Alert Status
Offset Trajectory	Ct-Ct (ft)	MAS (ft)	EOU (ft)		Fact.	Rule	MD (ft)		Alert Minor Major
I-025-36555 - Falcon 32 Stat - INC Only to 8600ft - A (Def	te		. 1						
irvey)									Pass
	5775.20		5772.70		N/A	MAS = 10.00 (m)	0.00	0.00	Surface MinPt-O-SE
	5775.11 5775.10		5772.60 5772.59	5742.30 5742.29	527786.20 564853.32	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 23.00	20.00 23.00	MinPt-O-SF WRP
	5775.09	32.81	5772.49		59471.31	MAS = 10.00 (m)	40.00	40.00	MinPts
	5775.33	57.74	5736.00	5717.59	156.74	OSF1.50	1190.00	1190.00	MinPt-CtCt
	5793.61		5717.52	5680.73	78.69	OSF1.50	2160.00	2159.05	MINPT-O-EOU
	5801.19 6090.03		5719.12 5912.66	5679.34 5825.23	72.88 34.81	OSF1.50 OSF1.50	2310.00 4950.00	2307.31 4859.68	MinPt-O-ADP MinPts
	6145.89		5956.85	5863.58	32.93	OSF1.50	5400.00	5294.35	MinPts
	6304.93	420.33	6023.88	5884.60	22.63	OSF1.50	8100.00	7954.77	MinPt-CtCt
	6307.44 6310.08		6020.51	5878.30 5877.77	22.17 22.01	OSF1.50 OSF1.50	8390.00 8510.00	8244.77	MINPT-O-EOU MinPt-O-ADP
	6334.99		6021.04 6031.49	5880.99	22.01	OSF1.50 OSF1.50	9060.00	8364.77 8914.77	MinPts
	4216.58	325.24	3998.92	3891.34	19.59	OSF1.50	17570.00	11930.00	MinPt-CtCt
	4216.70		3998.82	3891.13	19.57	OSF1.50	17600.00	11930.00	MINPT-O-EOU
	4216.90 4539.55		3998.86 4296.13	3891.10 4175.68	19.55 18.83	OSF1.50 OSF1.50	17620.00 19250.00	11930.00 11930.00	MinPt-O-ADP MinPt-O-SF
	4593.08		4346.92		18.84	OSF1.50	19389.58	11930.00	TD
025-35640 - Falcon `32`									
te 3 - INC Only to 8690ft - f Survey)	A								Pass
	8390.27		8387.77	8357.46	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
	8390.15 8390.08		8387.63	8357.34	469724.70	MAS = 10.00 (m)	23.00	23.00	WRP
	8390.08 8391.03	32.81 44.59	8387.43 8360.47	8357.27 8346.44	56486.63 298.97	MAS = 10.00 (m) OSF1.50	60.00 990.00	60.00 990.00	MinPts MinPt-CtCt
	8390.76	73.68	8340.81	8317.08	176.78	OSF1.50	1540.00	1540.00	MinPt-CtCt
	8394.66	91.65	8332.73	8303.01	141.21	OSF1.50	1960.00	1959.92	MINPT-O-EOU
	8398.33 8405.22		8333.49 8330.02	8302.33 8293.67	134.69 115.58	OSF1.50	2060.00	2059.64	MinPt-O-ADP MINPT-O-EOU
	8405.22 8417.58		8330.02 8332.35	8293.67 8290.98	115.58 101.71	OSF1.50 OSF1.50	2210.00 2440.00	2208.60 2434.69	MINP1-O-EOU MinPt-O-ADP
	8474.88	156.65	8369.62	8318.23	82.44	OSF1.50	3110.00	3082.38	MinPts
	8668.51		8499.25	8415.87	51.97	OSF1.50	4910.00	4821.04	MinPts
	8691.82 8771.16	100	8508.35 8563.66	8417.86 8461.16	48.01 42.77	OSF1.50 OSF1.50	5160.00 5940.00	5062.53 5815.95	MinPt-O-ADP MinPts
	8858.91	368.83	8612.19	8490.08	36.26	OSF1.50 OSF1.50	7170.00	7024.77	MinPts
	8859.56	436.50	8567.73	8423.06	30.61	OSF1.50	8480.00	8334.77	MinPt-CtCt
	8863.61	458.91	8556.84	8404.71	29.12	OSF1.50	9040.00	8894.77	MinPts
	8864.38 4335.59	458.95 365.49	8557.58 4091.09	8405.43 3970.09	29.12 17.91	OSF1.50 OSF1.50	9080.00 19389.58	8934.77 11930.00	MinPt-O-SF MinPts
				•	-				
-025-45602 - James 20 deral 037H - Corrected MW	D								
20191ft - A (Def Survey)	6128.34	32.81	6125.84	6095.53	N/A	MAS = 10.00 (m)	0.00	0.00	Pass Surface
	6128.33		6125.83	6095.52	N/A	MAS = 10.00 (m)	23.00	23.00	WRP
	6127.99	32.81	6123.02	6095.18	2483.50	MAS = 10.00 (m)	330.00	330.00	MinPts
	6124.14 6123.15	32.81 32.81	6109.16 6102.66	6091.33 6090.34	490.52 340.28	MAS = 10.00 (m) MAS = 10.00 (m)	1340.00 1870.00	1340.00 1869.99	MinPts MinPts
	6123.13	32.81	6102.00	6090.34	323.84	MAS = 10.00 (m) MAS = 10.00 (m)	1960.00	1959.92	MINPT-O-EOU
	6304.41	63.49	6261.24	6240.91	154.98	OSF1.50	3910.00	3855.12	MinPts
	4695.43	196.21	4563.79	4499.22	36.34	OSF1.50	10690.00	10544.77	MinPt-CtCt
	4695.48 4695.53		4563.75 4563.76	4499.13 4499.12	36.32 36.30	OSF1.50 OSF1.50	10710.00 10720.00	10564.77 10574.77	MINPT-O-EOU MinPt-O-ADP
	4095.53		4592.68	4527.06	36.00	OSF1.50	11230.00	11084.77	MinPt-O-SF
	4870.96		4733.34	4665.78	36.03	OSF1.50	12040.00	11810.98	MinPt-O-ADP
	4878.87	224.72	4728.22	4654.14	32.92	OSF1.50	13250.00	11930.00	MinPt-CtCt
	4879.78 4881.35	235.52 247.95	4721.93 4715.22	4644.26 4633.40	31.40 29.82	OSF1.50 OSF1.50	13790.00 14370.00	11930.00 11930.00	MinPt-CtCt MinPt-CtCt
	4883.79	247.95	4715.22	4633.40	29.82	OSF1.50 OSF1.50	14370.00	11930.00	MinPt-CtCt
	4883.81	263.93	4707.03	4619.88	28.01	OSF1.50	15070.00	11930.00	MinPt-CtCt
	4883.73	270.58	4702.51	4613.15	27.31	OSF1.50	15350.00	11930.00	MinPt-CtCt
	4884.63 4885.33	278.35 280.43	4698.23	4606.27 4604.90	26.55 26.35	OSF1.50 OSF1.50	15670.00 15790.00	11930.00 11930.00	MinPt-CtCt MINPT-O-EOU
	4885.33		4696.06	4599.94	25.43	OSF1.50	16220.00	11930.00	MINPT-0-EOU
	4892.95	293.55	4696.42	4599.40	25.20	OSF1.50	16340.00	11930.00	MinPt-O-ADP
	4897.80		4697.65	4598.82	24.77	OSF1.50	16540.00	11930.00	MINPT-O-EOU
	4897.96 4929.42		4697.67 4726.41	4598.77 4626.15	24.75 24.57	OSF1.50 OSF1.50	16550.00 17030.00	11930.00 11930.00	MinPt-O-ADP MinPt-O-SF
	5702.54		5499.26		28.39	OSF1.50	19389.58	11930.00	TD
	te					MAR = 40.00 ( )		0.05	Pass
Y-H - Gyro+MWD to		00.5	4000	40000	N/A	MAS = 10.00 (m)	0.00 23.00	0.00 23.00	Surface WRP
5Y-H - Gyro+MWD to	10233.59 10233.44		10231.09 10230.92		411809.93	MAS = 10.00 (m)			
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29	32.81 32.81	10230.92 10230.58	10200.63 10200.48	411809.93 50653.04	MAS = 10.00 (m)	80.00	80.00	MinPts
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.36	32.81 32.81 228.40	10230.92 10230.58 6818.26	10200.63 10200.48 6742.96	411809.93 50653.04 46.27	MAS = 10.00 (m) OSF1.50	80.00 8610.00	8464.77	MinPt-CtCt
-025-39661 - Falcon 32 Stat 5Y-H - Gyro+MWD to 715ft - A (Def Survey)	10233.59 10233.44 <b>10233.29</b> <b>6971.36</b> 6971.39	32.81 32.81 228.40 228.48	10230.92 10230.58 6818.26 6818.24	10200.63 10200.48 6742.96 6742.91	411809.93 50653.04 46.27 46.26	MAS = 10.00 (m) OSF1.50 OSF1.50	80.00 8610.00 8630.00	8464.77 8484.77	MinPt-CtCt MINPT-O-EOU
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.36	32.81 32.81 228.40 228.48 228.51	10230.92 10230.58 6818.26	10200.63 10200.48 6742.96 6742.91	411809.93 50653.04 46.27	MAS = 10.00 (m) OSF1.50	80.00 8610.00	8464.77	MinPt-CtCt
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.36 6971.39 6971.42 6987.80 5609.48	32.81 32.81 228.40 228.48 228.51 229.81 276.57	10230.92 10230.58 6818.26 6818.24 6818.25 6833.76 5424.27	10200.63 10200.48 6742.96 6742.91 6742.91 6757.99 5332.91	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 8640.00 9090.00 16830.00	8464.77 8484.77 8494.77 8944.77 11930.00	MinPt-CICt MINPT-0-EOU MinPt-0-ADP MinPt-0-SF MinPt-0-SF
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.39 6971.42 6987.80 5609.48 5590.59	32.81 32.81 228.40 228.48 228.51 229.81 276.57 271.56	10230.92 10230.58 6818.26 6818.25 6833.76 5424.27 5408.72	10200.63 10200.48 6742.96 6742.91 6757.99 5332.91 5319.03	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69 31.15	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 8640.00 9090.00 16830.00 17130.00	8464.77 8484.77 8494.77 8944.77 11930.00 11930.00	MinPt-CiCt MINPT-0-EOU MinPt-0-ADP MinPt-0-SF MinPt-0-SF MinPts
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.39 6971.42 6987.80 5609.48 5590.59 5569.24	32.81 32.81 228.40 228.48 228.51 229.81 276.57 271.56 263.76	10230.92 10230.58 6818.26 6818.24 6818.25 6833.76 5424.27	10200.63 10200.48 6742.96 6742.91 6742.91 6757.99 5332.91	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69 31.15 31.96	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 9090.00 16830.00 17130.00 17470.00	8464.77 8484.77 8944.77 11930.00 11930.00 11930.00	MinPt-CiCt MINPT-0-EOU MinPt-0-ADP MinPt-0-SF MinPt-0-SF MinPts MinPts
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.39 6971.42 6987.80 5609.48 5590.59	32.81 32.81 228.40 228.48 228.51 229.81 276.57 271.56 263.76 258.46	10230.92 10230.58 6818.26 6818.24 6818.25 6833.76 5424.27 5408.72 5392.57	10200.63 10200.48 6742.96 6742.91 6742.91 6757.99 5332.91 5319.03 5305.48	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69 31.15	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 8640.00 9090.00 16830.00 17130.00	8464.77 8484.77 8494.77 8944.77 11930.00 11930.00	MinPt-CiCt MINPT-0-EOU MinPt-0-ADP MinPt-0-SF MinPt-0-SF MinPts
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.39 6971.39 6971.42 6987.80 5609.48 5590.59 5569.24 5565.21 5511.00 5494.43	32.81 32.81 32.84 228.40 228.48 228.51 229.81 276.57 271.56 263.76 258.46 244.49 240.79	10230.92 10230.58 6818.26 6818.25 6833.76 5424.27 5408.72 5392.57 5392.07 5347.17 5333.07	10200.63 10200.48 6742.96 6742.91 6757.99 5319.03 5305.48 5306.75 5266.51 5253.64	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69 31.15 31.96 32.60	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 8640.00 9090.00 16830.00 17130.00 17540.00 17540.00 18200.00 18440.00	8464.77 8484.77 8944.77 11930.00 11930.00 11930.00 11930.00 11930.00 11930.00	MinPt-CiCt MINPT-0-EOU MinPt-0-ADP MinPt-0-SF MinPts MinPts MinPts MinPts MinPts MinPts MinPts
5Y-H - Gyro+MWD to	10233.59 10233.44 10233.29 6971.36 6971.32 6971.42 6987.80 5609.48 5560.59 5569.24 5565.21 5511.00	32.81 32.81 32.840 228.40 228.48 228.57 229.81 229.81 229.81 276.57 271.56 263.76 263.76 263.76 264.49 244.49 240.79 235.44	10230.92 10230.58 6818.26 6818.25 6833.76 5424.27 5408.72 5392.57 5392.07 5347.17	10200.63 10200.48 6742.96 6742.91 6757.99 5332.91 5319.03 5305.48 5306.75 5266.51	411809.93 50653.04 46.27 46.26 46.25 46.10 30.69 31.15 31.96 32.60 34.15	MAS = 10.00 (m) OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50 OSF1.50	80.00 8610.00 8630.00 8640.00 9090.00 16830.00 17130.00 17470.00 17540.00 18200.00	8464.77 8484.77 8944.77 11930.00 11930.00 11930.00 11930.00 11930.00	MinPt-CiCt MINPT-0-E0U MinPt-0-ADP MinPt-0-SF MinPt-0-SF MinPts MinPts MinPts MinPts MinPts

🔿 COTERRA

Schlumberger

#### Coterra James 29-32 Federal Com 31H Rev2 kFc 30Mar23 Proposal Geodetic Report

(Def Plan)

Report Date: Client: Field: Structure / Slot: Well: Borehole: UWI / API#: Survey Name: Survey Date: Tort / AHD / DDI / EI Coordinate Referen Location Lat / Long Location Lat / Long Location Grid N/E Y CRS Grid Converge Grid Scale Factor: Version / Patch:	ice System: j: //X:	James 29-32 Fed James 29-32 Fed Unknown / Unkno Coterra James 29 September 27, 20 120.000 ° / 8746. NAD83 New Mex N 32° 16' 53.962	NAD 83) 32 Federal Com 3 leral Com 31H leral Com 31H wm 3-32 Federal Com 3 322 748 ft / 6.232 / 0.73	1H Rev2 kFc 30Mar23 3 stern Zone, US Feet 66999"	Ve Ve Tr Tr Se Me Gr Gr Me Me Me Se Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr	Irvey / DLS Comput rrtical Section Azim rrtical Section Origi /D Reference Datur /D Reference Eleva abed / Ground Ele- agnetic Declination tal Gravity Field St ravity Model: tal Magnetic Elp Angle: celination Date: agnetic De Jn Angle: celination Date: agnetic Declination orth Reference: rid Convergence Us tal Corr Mag North orth:	nuth: in: in: vation: : trength: Strength: Model: sed: ->Grid	Minimum Curvatu 172.620 ° (Grid Nc 0.000 ft, 0.000 ft RKB = 23ft 3711.000 ft above 3688.000 ft above 6.349 ° 998.4335mg (9.8 GARM 47544.341 nT 47544.341 nT 47544.341 nT 47544.341 nT 47544.341 nT 0.2023 Grid North 0.3420 ° 6.0065 ° Well Head	orth) MSL MSL			
Comments	ME			TVD	VSEC	NS	EW		Northing	Easting	Latitude	Longitude
SHL [413' FNL,	(ft) 0.00		(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/ <b>100ft)</b> N/A	(ftUS) 466790.01	(ftUS) 739236.95	(N/S °) N 32.281656	(E/W °) W 103.692964
1487' FEL]	100.00			100.00	0.00	0.00	0.00	0.00	466790.01	739236.95		W 103.692964
	200.00	0.00	81.39	200.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	300.00 400.00			300.00 400.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	466790.01 466790.01	739236.95 739236.95	N 32.281656 N 32.281656	W 103.692964 W 103.692964
	500.00	0.00	81.39	500.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	600.00 700.00			600.00 700.00	0.00 0.00	0.00 0.00	0.00 0.00		466790.01 466790.01	739236.95 739236.95	N 32.281656 N 32.281656	W 103.692964 W 103.692964
	800.00			800.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	900.00			900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	466790.01 466790.01	739236.95	N 32.281656	W 103.692964
Rustler	1000.00 1090.00		81.39 <i>81.3</i> 9	1000.00 <i>1090.00</i>	0.00	0.00	0.00	0.00	466790.01	739236.95 739236.95	N 32.281656 N 32.281656	W 103.692964 W 103.692964
	1100.00			1100.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	1200.00 1300.00			1200.00 1300.00	0.00 0.00	0.00	0.00	0.00 0.00	466790.01 466790.01	739236.95 739236.95	N 32.281656 N 32.281656	W 103.692964 W 103.692964
Top of Salt	1400.00	0.00	81.39	1400.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	1500.00 1600.00			1500.00 1600.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	466790.01 466790.01	739236.95 739236.95	N 32.281656 N 32.281656	W 103.692964 W 103.692964
	1700.00			1700.00	0.00	0.00	0.00		466790.01	739236.95	N 32.281656	W 103.692964
Nudge, Build 2°/100ft	1800.00	0.00	81.39	1800.00	0.00	0.00	0.00	0.00	466790.01	739236.95	N 32.281656	W 103.692964
	1900.00			1899.98	-0.04	0.26	1.73		466790.27	739238.68	N 32.281657	W 103.692958
	2000.00 2100.00			1999.84 2099.45	-0.15 -0.34	1.04 2.35	6.90 15.52		466791.05 466792.36	739243.85 739252.47		W 103.692942 W 103.692914
	2200.00			2198.70	-0.60	4.17	27.57	2.00	466794.18	739264.51	N 32.281667	W 103.692875
	2300.00 2400.00			2297.47 2395.62	-0.94 -1.35	6.52 9.37	43.03 61.90	2.00 2.00	466796.53 466799.38	739279.98 739298.84	N 32.281673 N 32.281681	W 103.692825 W 103.692763
	2500.00	14.00	81.39	2493.06	-1.83	12.74	84.14	2.00	466802.75	739321.08	N 32.281690	W 103.692691
Hold	2550.01 2600.00			2541.47 2589.76	-2.10 -2.38	14.62 16.55	96.52 109.31	2.00 0.00	466804.63 466806.56	739333.46 739346.25	N 32.281695 N 32.281700	W 103.692651 W 103.692610
	2700.00	15.00	81.39	2686.35	-2.93	20.43	134.90	0.00	466810.44	739371.84	N 32.281710	W 103.692527
	2800.00 2900.00			2782.94 2879.54	-3.49 -4.05	24.31 28.18	160.49 186.08		466814.32 466818.19	739397.43 739423.02	N 32.281720 N 32.281731	W 103.692444 W 103.692361
	3000.00	15.00	81.39	2976.13	-4.60	32.06	211.67	0.00	466822.07	739448.61	N 32.281741	W 103.692278
	3100.00 3200.00			3072.72 3169.31	-5.16 -5.72	35.93 39.81	237.26 262.85	0.00 0.00	466825.94 466829.82	739474.20 739499.79	N 32.281751 N 32.281761	W 103.692196 W 103.692113
	3300.00			3265.91	-6.27	43.68	288.44	0.00	466833.69	739525.38	N 32.281772	W 103.692030
	3400.00 3500.00			3362.50 3459.09	-6.83 -7.39	47.56 51.44	314.03 339.62	0.00 0.00	466837.57 466841.44	739550.97 739576.56	N 32.281782 N 32.281792	W 103.691947 W 103.691864
	3600.00			3555.68	-7.94	55.31	365.21	0.00	466845.32	739602.15	N 32.281802	W 103.691781
	3700.00 3800.00			3652.28 3748.87	-8.50 -9.05	59.19 63.06	390.80 416.40	0.00 0.00	466849.19 466853.07	739627.74 739653.33	N 32.281812 N 32.281823	W 103.691698 W 103.691615
	3900.00	15.00	81.39	3845.46	-9.61	66.94	441.99		466856.95	739678.91	N 32.281833	W 103.691533
	4000.00 4100.00			3942.05 4038.65	-10.17 -10.72	70.81 74.69	467.58 493.17	0.00 0.00	466860.82 466864.70	739704.50 739730.09		W 103.691450 W 103.691367
	4200.00	15.00	81.39	4135.24	-11.28	78.57	518.76	0.00	466868.57	739755.68	N 32.281864	W 103.691284
	4300.00 4400.00			4231.83 4328.42	-11.84 -12.39	82.44 86.32	544.35 569.94	0.00 0.00	466872.45 466876.32	739781.27 739806.86		W 103.691201 W 103.691118
	4500.00	15.00	81.39	4425.02	-12.95	90.19	595.53	0.00	466880.20	739832.45	N 32.281894	W 103.691035
	4600.00 4700.00			4521.61 4618.20	-13.51 -14.06	94.07 97.94	621.12 646.71	0.00 0.00	466884.07 466887.95	739858.04 739883.63		W 103.690952 W 103.690870
Roop of Cott	4800.00	15.00	81.39	4714.79	-14.62 -14.62	101.82	672.30	0.00	466891.82	739909.22		W 103.690787
Base of Salt Lamar	4800.21 4826.10	15.00	81.39 81.39	4715.00 4740.00	-14.76	101.83 102.83	672.35 678.98	0.00 0.00	466891.83 466892.84	739909.27 739915.90	N 32.281925 N 32.281928	W 103.690787 W 103.690765
Dell Carvas	4900.00			4811.39	-15.18	105.70	697.89	0.00	466895.70	739934.81	N 32.281935 N 32.281936	W 103.690704
Bell Canyon	4904.78 5000.00		<i>81.39</i> 81.39	4816.00 4907.98	-15.20 -15.73	105.88 109.57	699.11 723.48	0.00 0.00	466895.89 466899.58	739936.03 739960.40	N 32.281930	W 103.690700 W 103.690621
	5100.00			5004.57	-16.29	113.45	749.07	0.00	466903.45	739985.99	N 32.281956	W 103.690538
	5200.00 5300.00			5101.16 5197.76	-16.85 -17.40	117.32 121.20	774.66 800.25	0.00 0.00	466907.33 466911.20	740011.57 740037.16	N 32.281966 N 32.281976	W 103.690455 W 103.690372
	5400.00			5294.35	-17.96	125.07	825.84	0.00	466915.08	740062.75		W 103.690289
	5500.00 5600.00			5390.94 5487.53	-18.51 -19.07	128.95 132.82	851.43 877.02	0.00 0.00	466918.95 466922.83	740088.34 740113.93	N 32.281997 N 32.282007	W 103.690207 W 103.690124
Charte Carrier	5700.00	15.00	81.39	5584.13	-19.63	136.70	902.61	0.00	466926.70	740139.52	N 32.282017	W 103.690041
Cherry Canyon	5798.22 5800.00		81.39 81.39	5679.00 5680.72	-20.17 -20.18	<i>140.51</i> 140.58	927.75 928.20	0.00 0.00	466930.51 466930.58	740164.65 740165.11	N 32.282027 N 32.282027	W 103.689959 W 103.689958
	5900.00	15.00	81.39	5777.31	-20.74	144.45	953.79	0.00	466934.45	740190.70	N 32.282038	W 103.689875
	6000.00 6100.00			5873.90 5970.50	-21.30 -21.85	148.33 152.20	979.39 1004.98	0.00 0.00	466938.33 466942.21	740216.29 740241.88		W 103.689792 W 103.689709
	6200.00	15.00	81.39	6067.09	-22.41	156.08	1030.57	0.00	466946.08	740267.47	N 32.282068	W 103.689626
Drop 2°/100ft	6300.00 6311.04			6163.68 6174.35	-22.97 -23.03	159.95 160.38	1056.16 1058.98	0.00 0.00	466949.96 466950.38	740293.06 740295.88		W 103.689544 W 103.689534
5100 2 / 1001	6400.00	13.22	81.39	6260.62	-23.49	163.63	1080.42	2.00	466953.63	740317.32	N 32.282088	W 103.689465
	6500.00 6600.00			6358.35 6456.75	-23.95 -24.33	166.80 169.46	1101.35 1118.90	2.00 2.00	466956.80 466959.46	740338.25 740355.79		W 103.689397 W 103.689340
	6700.00	7.22	81.39	6555.72	-24.64	171.60	1133.03	2.00	466961.60	740369.93	N 32.282109	W 103.689295
	6800.00	5.22	81.39	6655.13	-24.87	173.22	1143.75	2.00	466963.22	740380.64	N 32.282113	W 103.689260
	6900.00	3.22	81.39	6754.85	-25.03	174.32	1151.03	2.00	466964.32	740387.92	IN 32.202110	W 103.689236

...James 29-32 Federal Com 31H\Coterra James 29-32 Federal Com 31H Rev2 kFc 30Mar23

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
	7000.00	1.22	81.39	6854.77	-25.11	174.90	1154.86	2.00	466964.90	740391.75	N 32.282118	W 103.689224
Hold	7061.05 7100.00	0.00 0.00	81.39 81.39	6915.82 6954.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	2.00 0.00	466965.00 466965.00	740392.39 740392.39		W 103.689222 W 103.689222
Brushy Canyon	7112.23	0.00	81.39	6967.00	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	7200.00 7300.00	0.00 0.00	81.39 81.39	7054.77 7154.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	7400.00	0.00	81.39	7254.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	7500.00 7600.00	0.00 0.00	81.39 81.39	7354.77 7454.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	7700.00	0.00	81.39	7554.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	7800.00 7900.00	0.00 0.00	81.39 81.39	7654.77 7754.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	8000.00	0.00	81.39	7854.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	8100.00 8200.00	0.00 0.00	81.39 81.39	7954.77 8054.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	8300.00	0.00	81.39	8154.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	8400.00 8500.00	0.00 0.00	81.39 81.39	8254.77 8354.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	8600.00	0.00	81.39	8454.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	8700.00 8800.00	0.00	81.39 81.39	8554.77 8654.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39		W 103.689222 W 103.689222
BS/BS Lime	8815.23	0.00	81.39	8670.00	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
Leonard	8900.00 8900.23	0.00 0.00	81.39 <i>81.3</i> 9	8754.77 8755.00	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	9000.00	0.00	81.39	8854.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	9100.00 9200.00	0.00 0.00	81.39 81.39	8954.77 9054.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
Avalon	9278.23	0.00	81.39	9133.00	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	9300.00 9400.00	0.00	81.39 81.39	9154.77 9254.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	9500.00	0.00	81.39	9354.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	9600.00 9700.00	0.00	81.39 81.39	9454.77 9554.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	9800.00	0.00	81.39	9654.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
1st BS Sand	9900.00 9925.23	0.00 0.00	81.39 <i>81.3</i> 9	9754.77 9780.00	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	10000.00	0.00	81.39	9854.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	10100.00 10200.00	0.00	81.39 81.39	9954.77 10054.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
	10300.00	0.00	81.39	10154.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
2nd BS Carb	10372.23 10400.00	0.00 0.00	81.39 81.39	10227.00 10254.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
0.4.00.0	10500.00	0.00	81.39	10354.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
2nd BS Sand	10530.23 10600.00	0.00 0.00	81.39 81.39	10385.00 10454.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39		W 103.689222 W 103.689222
	10700.00	0.00	81.39	10554.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	10800.00 10900.00	0.00 0.00	81.39 81.39	10654.77 10754.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39		W 103.689222 W 103.689222
	11000.00	0.00	81.39	10854.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
3rd BS Carb	11100.00 <i>11165.23</i>	0.00 0.00	81.39 <i>81.3</i> 9	10954.77 11020.00	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39		W 103.689222 W 103.689222
	11200.00	0.00	81.39	11054.77	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
	11300.00 11400.00	0.00 0.00	81.39 81.39	11154.77 11254.77	-25.13 -25.13	175.00 175.00	1155.50 1155.50	0.00 0.00	466965.00 466965.00	740392.39 740392.39	N 32.282118 N 32.282118	W 103.689222 W 103.689222
KOP, Build	11482.75	0.00	81.39	11337.52	-25.13	175.00	1155.50	0.00	466965.00	740392.39	N 32.282118	W 103.689222
10°/100ft	11500.00	1.72	179.62	11354.76	-24.87	174.74	1155.50	10.00	466964.74	740392.40		W 103.689222
	11600.00	11.72	179.62	11453.95	-13.26	163.05	1155.58	10.00	466953.05	740392.47	N 32.282085	W 103.689222
3rd BS Sand	11700.00 11711.24	21.72 22.85	179.62 179.62	11549.60 11560.00	15.26 19.50	134.31 <i>130.04</i>	1155.77 1155.80	10.00 <i>10.00</i>	466924.31 466920.05	740392.66 740392.69	N 32.282006 N 32.281995	W 103.689222 W 103.689222
	11800.00 11900.00	31.72	179.62 179.62	11638.80	59.84 119.12	89.39 29.67	1156.07	10.00	466879.40	740392.96 740393.36	N 32.281883 N 32.281719	W 103.689222
	12000.00	41.72 51.72	179.62	11718.85 11787.32	191.29	-43.04	1156.46 1156.94	10.00 10.00	466819.68 466746.97	740393.84	N 32.281519	W 103.689222 W 103.689221
	12100.00 12200.00	61.72 71.72	179.62 179.62	11842.11 11881.58	274.17 365.23	-126.53 -218.28	1157.50 1158.10	10.00 10.00	466663.48 466571.74	740394.39 740395.00	N 32.281289 N 32.281037	W 103.689221 W 103.689221
Build 5°/100ft	12232.75	75.00	179.62	11890.95	396.37	-249.66	1158.31	10.00	466540.37	740395.20	N 32.280951	W 103.689221 W 103.689221
	12300.00 12400.00	78.36 83.36	179.62 179.62	11906.44 11922.32	461.31 559.28	-315.08 -413.78	1158.74 1159.40	5.00 5.00	466474.94 466376.25	740395.64 740396.29	N 32.280771 N 32.280500	W 103.689221 W 103.689221
	12500.00	88.36	179.62	11929.53	658.24	-513.49	1160.06	5.00	466276.55	740396.95	N 32.280226	W 103.689220
Landing Point	12532.75 12600.00	90.00 90.00	179.62 179.62	11930.00 11930.00	690.75 757.49	-546.23 -613.48	1160.27 1160.72	5.00 0.00	466243.80 466176.56	740397.17 740397.61	N 32.280136	W 103.689220 W 103.689220
	12700.00	90.00	179.62	11930.00	856.74	-713.48	1161.38	0.00	466076.57	740398.27	N 32.279676	W 103.689220
	12800.00 12900.00	90.00 90.00	179.62 179.62	11930.00 11930.00	956.00 1055.25	-813.47 -913.47	1162.04 1162.70	0.00 0.00	465976.58 465876.58	740398.93 740399.59		W 103.689220 W 103.689220
	13000.00	90.00	179.62	11930.00	1154.51	-1013.47	1163.36	0.00	465776.59	740400.26	N 32.278851	W 103.689220
	13100.00 13200.00	90.00 90.00	179.62 179.62	11930.00 11930.00	1253.76 1353.02	-1113.47 -1213.47	1164.02 1164.68	0.00 0.00	465676.60 465576.60	740400.92 740401.58		W 103.689219 W 103.689219
	13300.00	90.00	179.62	11930.00	1452.27	-1313.46	1165.35	0.00	465476.61	740402.24	N 32.278027	W 103.689219
	13400.00 13500.00	90.00 90.00	179.62 179.62	11930.00 11930.00	1551.52 1650.78	-1413.46 -1513.46	1166.01 1166.67	0.00 0.00	465376.62 465276.62	740402.90 740403.56		W 103.689219 W 103.689219
	13600.00	90.00	179.62	11930.00	1750.03	-1613.46	1167.33	0.00	465176.63	740404.22	N 32.277202	W 103.689218
	13700.00 13800.00	90.00 90.00	179.62 179.62	11930.00 11930.00	1849.29 1948.54	-1713.45 -1813.45	1167.99 1168.65	0.00 0.00	465076.64 464976.65	740404.88 740405.55	N 32.276927 N 32.276653	W 103.689218 W 103.689218
	13900.00	90.00	179.62	11930.00	2047.80	-1913.45	1169.31	0.00	464876.65	740406.21	N 32.276378	W 103.689218
	14000.00 14100.00	90.00 90.00	179.62 179.62	11930.00 11930.00	2147.05 2246.31	-2013.45 -2113.45	1169.97 1170.63	0.00 0.00	464776.66 464676.67	740406.87 740407.53	N 32.276103 N 32.275828	W 103.689218 W 103.689217
	14200.00	90.00	179.62	11930.00	2345.56	-2213.44	1171.30	0.00	464576.67	740408.19	N 32.275553	W 103.689217
	14300.00 14400.00	90.00 90.00	179.62 179.62	11930.00 11930.00	2444.81 2544.07	-2313.44 -2413.44	1171.96 1172.62	0.00 0.00	464476.68 464376.69	740408.85 740409.51	N 32.275278 N 32.275003	W 103.689217 W 103.689217
	14500.00	90.00	179.62	11930.00	2643.32	-2513.44	1173.28	0.00	464276.69	740410.17	N 32.274729	W 103.689217
	14600.00 14700.00	90.00 90.00	179.62 179.62	11930.00 11930.00	2742.58 2841.83	-2613.43 -2713.43	1173.94 1174.60	0.00 0.00	464176.70 464076.71	740410.83 740411.50		W 103.689216 W 103.689216
	14800.00	90.00	179.62	11930.00	2941.09	-2813.43	1175.26	0.00	463976.71	740412.16	N 32.273904	W 103.689216
	14900.00 15000.00	90.00 90.00	179.62 179.62	11930.00 11930.00	3040.34 3139.59	-2913.43 -3013.43	1175.92 1176.59	0.00 0.00	463876.72 463776.73	740412.82 740413.48		W 103.689216 W 103.689216
	15100.00	90.00	179.62	11930.00	3238.85	-3113.42	1177.25	0.00	463676.74	740414.14	N 32.273079	W 103.689215
	15200.00 15300.00	90.00 90.00	179.62 179.62	11930.00 11930.00	3338.10 3437.36	-3213.42 -3313.42	1177.91 1178.57	0.00 0.00	463576.74 463476.75	740414.80 740415.46	N 32.272804 N 32.272530	W 103.689215 W 103.689215
	15400.00	90.00	179.62	11930.00	3536.61	-3413.42	1179.23	0.00	463376.76	740416.12	N 32.272255	W 103.689215
	15500.00 15600.00	90.00 90.00	179.62 179.62	11930.00 11930.00	3635.87 3735.12	-3513.41 -3613.41	1179.89 1180.55	0.00 0.00	463276.76 463176.77	740416.78 740417.45		W 103.689215 W 103.689214
	15700.00	90.00	179.62	11930.00	3834.38	-3713.41	1181.21	0.00	463076.78	740418.11	N 32.271430	W 103.689214
	15800.00 15900.00	90.00 90.00	179.62 179.62	11930.00 11930.00	3933.63 4032.88	-3813.41 -3913.41	1181.87 1182.54	0.00 0.00	462976.78 462876.79	740418.77 740419.43	N 32.271155 N 32.270880	W 103.689214 W 103.689214
	16000.00	90.00	179.62	11930.00	4132.14	-4013.40	1183.20	0.00	462776.80	740420.09	N 32.270606	W 103.689214
	16100.00 16200.00	90.00 90.00	179.62 179.62	11930.00 11930.00	4231.39 4330.65	-4113.40 -4213.40	1183.86 1184.52	0.00 0.00	462676.81 462576.81	740420.75 740421.41		W 103.689213 W 103.689213
	16300.00	90.00	179.62	11930.00	4429.90	-4313.40	1185.18	0.00	462476.82	740422.07	N 32.269781	W 103.689213
	16400.00	90.00	179.62	11930.00	4529.16	-4413.40	1185.84	0.00	462376.83	740422.73	N 32.269506	W 103.689213

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
	16500.00	90.00	179.62	11930.00	4628.41	-4513.39	1186.50	0.00	462276.83	740423.40	N 32.269231	W 103.689213
	16600.00	90.00	179.62	11930.00	4727.66	-4613.39	1187.16	0.00	462176.84	740424.06	N 32.268956	W 103.689212
	16700.00	90.00	179.62	11930.00	4826.92	-4713.39	1187.83	0.00	462076.85	740424.72	N 32.268682	W 103.689212
	16800.00	90.00	179.62	11930.00	4926.17	-4813.39	1188.49	0.00	461976.85	740425.38	N 32.268407	W 103.689212
Section 29-32												
Line,												
NMNM0559539	16847.56	90.00	179.62	11930.00	4973.38	-4860.95	1188.80	0.00	461929.29	740425.69	N 32 268276	W 103.689212
exit to State	10047.50	30.00	119.02	11930.00	4373.30	-4000.90	1100.00	0.00	401323.23	740423.03	10 32.200270	W 105.009212
enter Lease												
Cross												
	16900.00	90.00	179.62	11930.00	5025.43	-4913.38	1189.15	0.00	461876.86	740426.04		W 103.689212
	17000.00	90.00	179.62	11930.00	5124.68	-5013.38	1189.81	0.00	461776.87	740426.70	N 32.267857	W 103.689212
	17100.00	90.00	179.62	11930.00	5223.94	-5113.38	1190.47	0.00	461676.88	740427.36	N 32.267582	W 103.689211
	17200.00	90.00	179.62	11930.00	5323.19	-5213.38	1191.13	0.00	461576.88	740428.02	N 32.267307	W 103.689211
	17300.00	90.00	179.62	11930.00	5422.44	-5313.38	1191.79	0.00	461476.89	740428.68	N 32.267032	W 103.689211
	17400.00	90.00	179.62	11930.00	5521.70	-5413.37	1192.45	0.00	461376.90	740429.35	N 32.266757	W 103.689211
	17500.00	90.00	179.62	11930.00	5620.95	-5513.37	1193.11	0.00	461276.90	740430.01	N 32.266483	W 103.689211
	17600.00	90.00	179.62	11930.00	5720.21	-5613.37	1193.78	0.00	461176.91	740430.67	N 32.266208	W 103.689210
	17700.00	90.00	179.62	11930.00	5819.46	-5713.37	1194.44	0.00	461076.92	740431.33	N 32.265933	W 103.689210
	17800.00	90.00	179.62	11930.00	5918.72	-5813.36	1195.10	0.00	460976.92	740431.99	N 32.265658	W 103.689210
	17900.00	90.00	179.62	11930.00	6017.97	-5913.36	1195.76	0.00	460876.93	740432.65	N 32.265383	W 103.689210
	18000.00	90.00	179.62	11930.00	6117.23	-6013.36	1196.42	0.00	460776.94 460676.95	740433.31	N 32.265108	W 103.689210
	18100.00	90.00	179.62	11930.00	6216.48	-6113.36	1197.08	0.00		740433.97	N 32.264833	W 103.689209
	18200.00	90.00	179.62	11930.00	6315.73	-6213.36	1197.74	0.00	460576.95	740434.64	N 32.264559 N 32.264284	W 103.689209
	18300.00 18400.00	90.00 90.00	179.62 179.62	11930.00 11930.00	6414.99 6514.24	-6313.35 -6413.35	1198.40 1199.07	0.00 0.00	460476.96 460376.97	740435.30 740435.96	N 32.264284	W 103.689209 W 103.689209
	18500.00	90.00	179.62	11930.00	6613.50	-6513.35	1199.07	0.00	460276.97	740435.96	N 32.263734	W 103.689209
	18600.00	90.00	179.62	11930.00	6712.75	-6613.35	1200.39	0.00	460276.97	740436.62	N 32.263459	W 103.689209 W 103.689208
	18700.00	90.00	179.62	11930.00	6812.01	-6713.35	1200.39	0.00	460076.99	740437.28	N 32.263184	W 103.689208
	18800.00	90.00	179.62	11930.00	6911.26	-6813.34	1201.03	0.00	459976.99	740438.60	N 32.262909	W 103.689208
	18900.00	90.00	179.62	11930.00	7010.51	-6913.34	1202.37	0.00	459877.00	740439.26	N 32.262635	W 103.689208
	19000.00	90.00	179.62	11930.00	7109.77	-7013.34	1203.03	0.00	459777.01	740439.92	N 32.262360	W 103.689208
	19100.00	90.00	179.62	11930.00	7209.02	-7113.34	1203.69	0.00	459677.02	740440.59	N 32.262085	W 103.689207
	19200.00	90.00	179.62	11930.00	7308.28	-7213.33	1204.35	0.00	459577.02	740440.39		W 103.689207
	19300.00	90.00	179.62	11930.00	7407.53	-7313.33	1205.02	0.00	459477.03	740441.91		W 103.689207
James 29-32	10000.00	50.00	110.02	11000.00	1401.00	-1010.00	1200.02	0.00	400411.00	740441.01	14 02.201000	100.000201
Federal Com												
31H - BHL												
[2542' FNL or	19389.58	90.00	179.62	11930.00	7496.44	-7402.91	1205.61	0.00	459387.46	740442.50	N 32.261289	W 103.689207
100' FSL, 330' FEL]												

#### Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 \*\*\* 3-D 95.000% Confidence 2.7955 sigma Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	30.000	30.000		A001Mb_MWD-Depth Only	James 29-32 Federal Com 31H / Coterra James 29-32 Federal
	1	23.000	11400.000	1/100.000	30.000	30.000		A001Mb_MWD	James 29-32 Federal Com 31H / Coterra James 29-32 Federal
	1	11400.000	19389.576	1/100.000	30.000	30.000		A008Mb_MWD+IFR1+MS	James 29-32 Federal Com 31H / Coterra James 29-32 Federal

#### 1. Geological Formations

TVD of target 11,930	Pilot Hole TD N/A
MD at TD 19,390	Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1090	Useable Water	
Top Salt	1400	N/A	
Base Salt	4715	N/A	
Lamar	4740	N/A	
Bell Canyon	4816	N/A	
Cherry Canyon	5679	N/A	
Brushy Canyon	6967	Hydrocarbons	
Bone Spring Lime	8670	Hydrocarbons	
1st Bone Spring	9780	Hydrocarbons	
2nd Bone Spring	11560	Hydrocarbons	
3rd Bone Spring	11930	Hydrocarbons	

#### 2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1140	1140	13-3/8"	48.00	H-40	ST&C	1.50	3.50	5.88
12 1/4	0	4884	4796	9-5/8"	40.00	HCK-55	LT&C	1.48	1.54	2.92
8 3/4	0	11482	11482	7"	29.00	L-80	LT&C	1.31	1.52	1.70
8 3/4	11482	12232	11890	7"	29.00	P-110	BT&C	1.53	2.02	78.52
6	10482	19390	11930	4-1/2"	11.60	P-110	BT&C	1.36	1.92	21.85
					BLM	Minimum Sa	afety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	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 specification 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?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	Ν
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	Ν
Is well located in R-111-P and SOPA?	Ν
If yes, are the first three strings cemented to surface?	Ν
Is 2nd string set 100' to 600' below the base of salt?	Ν
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

#### 3. Cementing Program

Casing		Wt. Ib/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	553	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	148	14.80	1.34	6.32	9.5	Tail: Class C + LCM
			-			
Intermediate	921	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	286	14.80	1.34	6.32	9.5	Tail: Class C + LCM
			-			
Production	418	10.30	3.64	22.18		Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	535	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
			-			

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	50
Production	4684	25
Completion System	12032	10

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

#### 4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2М	Annular	х	
			Blind Ram		
			Pipe Ram		2M
			Double Ram	Х	
			Other		
8 3/4	13 5/8	3M	Annular	х	
			Blind Ram		
			Pipe Ram		3M
			Double Ram	Х	
			Other		
6	13 5/8	5M	Annular	х	
			Blind Ram		
			Pipe Ram	Х	5M
			Double Ram	Х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
х	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	Y Are anchors required by manufacturer?

#### 5. Mud Program

Depth	Туре	Weigh	nt (ppg)	Viscosity	Water Loss
0' to 1140'	Fresh Water	7.83 -	8.33	28	N/C
1140' to 4884'	Brine Water	9.80 -	10.30	30-32	N/C
4884' to 12533'	Cut Brine or OBM	8.50 -	9.00	27-70	N/C
12533' to 19390'	OBM	8.50 -	9.00	50-70	N/C
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?			PVT/Pason/Vis	ual Monitoring	

6. Logging and Testing Procedures

Logo	Logging, Coring and Testing				
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.				
х	No logs are planned based on well control or offset log information.				
	Drill stem test?				
	Coring?				

Additional Logs Planned	Interval
-------------------------	----------

#### 7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5583 psi
Abnormal Temperature	No

Hydrogen 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.

Х	H2S is present
х	H2S plan is attached

#### 8. Other Facets of Operation

#### 9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30 days, asper Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

#### Drilling Plan

#### 10. Other Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage pack off and lock ring 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 31H well. Surface cement will be pumped, and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 31H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 13 3/8" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 31H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.



James 29 Federal Com 31H

Casing Depth To

2. Casing Program

Casing Depth From

Hole Size CACTUS FOR SERVICE WEARBUSHING IN CASING HEAD & CASING SPOOL

LEA CO., NM



Co-Flex Hose James 29 Federal Com 23H-25H, 31H,32H Cimarex Energy Co.



<b></b>	Co-Flex Hose Hydrostatic Test James 29 Federal Com 23H Cimarex Energy Co.
& Spe	est Hose cialty, Inc. STATIC TEST REPORT
Customer: Oderco Inc	P.O. Number: odyd-271
Choke & Kill Hose	Hose Length:         45'ft.           6         O.D.         9         INCHES
WORKING PRESSURE         TEST PRESS           10,000         PSI         15,0	URE BURST PRESSURE
	UPLINGS Ferrule No.
OKC OKC Type of Coupling:	OKC OKC
Swage-It	OCEDURE
	with water at ambient temperature.
15 MIN Hose Assembly Serial Number: 79793	0 PSI Hose Serial Number: OKC
Comments:	
Date: Tested: 0	Joine Some Approved:

**Co-Flex Hose Hydrostatic Test** 





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Tested By: Zac Mcconnell

Approved By: Kim Thomas

	Cimarex Energy Co.	Ŵ	- <b> </b>	
	Mi	dwest Hose	2	1.
		pecialty, In		
		ate of Confor	mity	7
	Customer: DEM		PO	1
		ECIFICATIONS	ODYD-271	1
	Sales Order	Dated:		4
	79793		3/8/2011	
				<b>1</b> ,
	according to the requ order and current ind	lustry standards	e purchase S	
	Supplier:			
÷.	Midwest Hose & Spe 10640 Tanner Road	cialty, Inc.		
	Houston, Texas 7704	41		
	Comments:			
	Approved:		Date:	
	Samael Garcia			



Midwest Hose & Specialty, Inc. Co-Flex Hose James 29 Federal Com 23H Cimarex Energy Co.

## Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unibolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2". 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

P.O. Box 96558 - 1421 S.E. 29th St. Oklahoma City, OK 73143 \* (405) 670-6718 \* Fax: (405) 670-6816

## **Cementing Operational Workflow**

### **Conventional Cementing**

- 1. Land casing on fluted mandrel hanger
- 2. Circulate down casing, taking returns through BOP stack
- 3. Pump lead and tail cement
- 4. Displace cement and bump the plug
- 5. Ensure floats are holding pressure
- 6. RD cement crew
- 7. Install packoff to isolate pressure
- 8. Install BPV and skid rig

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### Offline Cementing

- 1. Land casing on <u>solid body</u> mandrel hanger
  - a) Engage packoff and lockring
- 2. Install BPV
- 3. Skid rig
- 4. Check for pressure and remove BPV
- 5. Circulate down casing, taking returns through casing valves
- 6. Pump lead and tail cement
- 7. Displace cement and bump the plug
- 8. Ensure floats are holding pressure
- 9. RD cement crew
- 10. Install BPV and TA cap

# Conventional Cementing Equipment-Fluted Mandrel

- Fluted Hanger allows returns up past the hanger body
- Returns throughout cement job flow up through BOP stack and into flowline
- Packoff is installed <u>after</u> cement job to isolate pressure above and below hanger
- Lockring engaged during packoff installation



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# Offline Cementing Equipment-Solid Body Mandrel Hanger

- Solid Body Mandrel Hanger allows for casing to be landed and pressure isolated in one step, <u>prior</u> to cementing
- Lockring is engaged to lock casing in place
- Casing is isolated and returns throughout cement job flow through the casing valves and through flowback iron independent of rig





## **Conventional Cementing Flow Diagram**


### **Conventional Cementing Flow Diagram**



### Offline Cementing -- Intermediate Casing



### Offline Cementing -- Intermediate Casing



# **Offline Cementing Progression**

- Run 7" casing
- Land 11" nominal x 7" hanger
- Test casing hanger
- Energize 11" nom x 7" hanger lock ring and pull test
- Re-test casing hanger
- Barriers & Procedures after landing casing before setting packoff
  - 10K BOP & 5K Annular-Internal and Annular barrier
  - Kill Weight Fluid in annulus and casing (ensure well is static before setting solid body packoff) Internal and Annular barrier
    - If well is not static we <u>WILL NOT</u> set solid body packoff.
  - 10K float collar-Internal Barrier
  - 10k float Shoe-Internal Barrier

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• After circulating a 1.5 casing capacities to ensure full column of mud and no entrained gas pumps will be shut off and floats checked for flow





CIMARE

## **Offline Cementing Progression**

- Pick up running tool with 6-1/2" nominal Back Pressure valve run into well and set
- Barriers and procedures **<u>BEFORE</u>** removing BOP's
  - Kill weight Fluid in annulus-Annular Barrier
  - Solid Body Packoff-Annular Barrier

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- 10K Float Equipment-Internal Barrier
- 10K Back pressure valve installed with BOP still on well-Internal Barrier
  - BPV will be tested before it arrives on location by Cactus



# **Offline Cementing Progression**

- Nipple down BOP
- Nipple up TA Cap and test
- Skid Drilling Rig

CIMAREX

- Barriers and procedures **AFTER** removing BOP's
  - Kill weight Fluid in annulus-Annular Barrier
  - Solid Body Packoff-Annular Barrier

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- 10K Float Equipment-Internal Barrier
- 10K Back pressure valve-Internal Barrier
- 10K rated TA cap with Valve-Internal Barrier



## **Offline Cementing Progression**

- Check Pressure on TA Cap and remove
- Install adaptor with Gate valve for off line cementing and test
- Rig up flowback iron independent of rig
- Retrieve Back Pressure Valve
- Shut in well
- Rig up to cement and pump job
- NU 10K TA cap after cement job
- Barriers and procedures before rigging up cementing equipment
  - Address well and ensure no pressure on TA cap
    - Ability to pump into well through casing valves on backside to kill if needed
  - Kill weight Fluid in annulus-Annular barrier
  - Solid Body Packoff-Annular barrier

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- 10K Float Equipment-Internal Barrier
- 10K Back pressure valve-Internal Barrier





## Offline Cementing Risk and COA Compliance

- All testing and breaks tested in accordance with Onshore Order # 2 and COA's
- If no cement to surface, bradenhead squeeze still possible with offline cementing equipment
- Time from skid rig to offline cementing ops typically 24 hours
- Conditions where we would not Offline Cement
  - Well is flowing
- All wellhead equipment equipment rated to 10K maintaining APD compliant
  - 10K flowback iron independent of rig circulating system
  - 10K Back Pressure Valve

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- 10K Gate Valve & TA combo for second barrier during operations
- 10K 1-13/16 Valve coming off TA cap
- 10K TA Cap

#### AFMSS

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

APD ID: 10400088888

**Operator Name: CIMAREX ENERGY COMPANY** 

Well Name: JAMES 29-32 FEDERAL COM

Well Type: OIL WELL

#### **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

JAMES\_29\_32\_FEDERAL\_COM\_EXISTING\_PUBLIC\_ACCESS\_ROAD\_MAP\_20230404081506.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID: 137119

ID: 138298

ID: 35915

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Well Work Type: Drill



Well Name: JAMES 29-32 FEDERAL COM

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#### **Section 3 - Location of Existing Wells**

Existing Wells Map? YES

#### Attach Well map:

JAMES\_29\_32\_FEDERAL\_COM\_WELL\_RADIUS\_MAP\_20230404083511.pdf

#### **Section 4 - Location of Existing and/or Proposed Production Facilities**

#### Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Will use the existing James Fed 38H CTB located at the James Fed 35H well pad on exhibit M.

Production Facilities map:

JAMES\_29\_32\_FEDERAL\_COM\_FLOW\_LINE\_ROW\_20230404083606.pdf

Section 5 - Location a	nd Types of	Water Supply	,	
Water Source Tab	le			
Water source type: MUNICIPAL				
Water source use type:	SURFACE C	ASING		
	INTERMEDIA CASING	TE/PRODUCTION		
Source latitude:			Source	e longitude:
Source datum:				
Water source permit type:	WATER RIG	IT		
Permit Number:				
Water source transport method:	TRUC	KING		
Source land ownership: FEDERA	-			
Source transportation land owner	ship: FEDERA	L		
Water source volume (barrels): 50	000		Source	e volume (acre-feet): 0.6444
Source volume (gal): 210000				

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

#### Water source and transportation

JAMES\_29\_32\_FEDERAL\_COM\_PROPOSED\_FRESH\_WATER\_MAP\_20230404083930.pdf JAMES\_29\_32\_FEDERAL\_COM\_PROPOSED\_FRAC\_WATER\_MAP\_20230404083938.pdf

Water source comments: Attached are 2 proposed water routes, fresh water would be trucked, frac water would be moved using a 12" layflat line.

New water well? N

#### New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aqu	lifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside dia	meter (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Section 6 - Construction Materials

Using any construction materials: YES

**Construction Materials description:** Caliche will be obtained from the actual well site if available. If not available onsite caliche will be obtained from Swag caliche pit located in NE/NE of Sec 21. **Construction Materials source location** 

JAMES\_29\_32\_FEDERAL\_COM\_CALICHE\_MAP\_20230404085055.pdf

#### **Section 7 - Methods for Handling**

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.

Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: N/A

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

#### Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY **Disposal type description**:

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

**Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose human waste to City of Toyah TX waste water facility.

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill

	Reserve Pit	
Reserve Pit being used? NO		
Temporary disposal of produ	ced water into reserve pit	? NO
Reserve pit length (ft.)	Reserve pit width (ft.)	
Reserve pit depth (ft.)		Reserve pit volume (cu. yd
Is at least 50% of the reserve	pit in cut?	
Reserve pit liner		
Reserve pit liner specification	ns and installation descrip	otion

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

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#### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

**Cuttings area length (ft.)** 

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

#### **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

Comments:

#### Section 9 - Well Site

Well Site Layout Diagram:

JAMES\_29\_FEDERAL\_COM\_W2E2\_Well\_Pad\_Layout\_20221029123614.pdf

#### Comments:

#### **Section 10 - Plans for Surface**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: James 29 Fed Com W2E2

Multiple Well Pad Number: 39H

#### Recontouring

JAMES\_29\_FEDERAL\_COM\_Reclamation\_plat\_20221029123834.pdf

**Drainage/Erosion control construction:** To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction. Erosion Control Best Management Practices would be used where necessary and consist of Seeding, fiber rolls, water bars, silt fences, would be used where necessary and construction that are no longer needed for operations would be used where necessary and construction best Management Practices would be used where necessary and construction. Erosion Control Best Management Practices would be used where necessary and construction that are no longer needed for operations would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed for operations would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for

Well Name: JAMES 29-32 FEDERAL COM

#### Well Number: 31H

operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

**Drainage/Erosion control reclamation:** All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Well pad proposed disturbance (acres): 4.459 Road proposed disturbance (acres):	Well pad interim reclamation (acres): 1.824 Road interim reclamation (acres): 0	Well pad long term disturbance (acres): 2.635 Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 1.553 Other proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0 Other interim reclamation (acres): 0	(acres): 0
Total proposed disturbance: 6.012	Total interim reclamation: 1.824	Total long term disturbance: 4.188

Disturbance Comments: Surface Ownership for pipeline disturbance is BLM.

**Reconstruction method:** After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

**Topsoil redistribution:** The original stock piled topsoil, if any, will be spread evenly over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pad, production facilities, roads, pipelines, and power line corridors as close as possible to the original topography. The location will then be seeded

**Soil treatment:** The soil surface would be prepared to provide a seedbed for reestablishment of desirable vegetation. Establish control of erosion and invasion of non-native plants to reestablish plant community. **Existing Vegetation at the well pad:** N/A

#### Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A Existing Vegetation Community at the road Existing Vegetation Community at the pipeline: N/A Existing Vegetation Community at the pipeline

#### Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

**Seed Table** 

Seed S	Seed Summary		
Seed Type	Pounds/Acre		
Seed reclamation			
Operator C	Operator Contact/Responsible Official		
First Name:		Last Name:	
Phone:		Email:	
Seedbed prep:			
Seed BMP:			
Seed method:			
Existing invasive species?	Ν		
Existing invasive species treatment description:			
Existing invasive species to	reatment		
Weed treatment plan description: N/A			
Weed treatment plan			
Monitoring plan description	n: N/A		
Monitoring plan			
Success standards: N/A			

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

#### Pit closure description: N/A

Pit closure attachment:

#### Section 11 - Surface

Disturbance type: OTHER Describe: CTB Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

**USFS** Ranger District:

Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office:

**Operator Name:** CIMAREX ENERGY COMPANY **Well Name:** JAMES 29-32 FEDERAL COM

Well Number: 31H

USFWS Local Office:

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: OTHER Describe: OVERHEAD POWER LINE Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

NPS Local Office:

State Local Office:

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: PIPELINE Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office:

**USFS Ranger District:** 

Section 12 - Other

Right of Way needed? N ROW Type(s):

ROW

Use APD as ROW?

Operator Name: CIMAREX ENERGY COMPANY Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

SUPO Additional Information: Please see attached SUPO with additional attachments.

Use a previously conducted onsite? Y

Previous Onsite information: 6/17/2022 with Caroline Kaufman- BLM and Todd Miller - Coterra.

#### Other SUPO

JAMES\_29\_32\_FEDERAL\_COM\_SUPO\_20230428105534.pdf JAMES\_19\_20\_FEDERAL\_POWER\_LINE\_NETWORK\_\_\_REV\_4\_26\_2023\_BG\_Edits\_20230428105645.pdf

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**Section 1 - General** 

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

#### Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit Pit liner description: **Pit liner manufacturers** Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule Lined pit reclamation description: Lined pit reclamation Leak detection system description: Leak detection system

**PWD** disturbance (acres):

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

#### Lined pit Monitor description:

Lined pit Monitor

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

#### **Section 3 - Unlined**

Would you like to utilize Unlined Pit PWD options? N

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** 

Precipitated solids disposal:

Decribe precipitated solids disposal:

#### Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

**Unlined pit reclamation** 

Unlined pit Monitor description:

**Unlined pit Monitor** 

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

Beneficial use user

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

State

**Unlined Produced Water Pit Estimated** 

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

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

PWD disturbance (acres):

Injection well name:

Injection well API number:

#### Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

#### Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

**PWD surface owner:** 

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

**Mineral protection** 

**Underground Injection Control (UIC) Permit?** 

**UIC Permit** 

#### **Section 5 - Surface**

Would you like to utilize Surface Discharge PWD options? N

 Produced Water Disposal (PWD) Location:

 PWD surface owner:
 PWD disturbance (acres):

 Surface discharge PWD discharge volume (bbl/day):
 PWD disturbance (acres):

 Surface Discharge NPDES Permit?
 Surface Discharge NPDES Permit attachment:

 Surface Discharge site facilities information:
 Surface discharge site facilities map:

 Section 6 Section 6 

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

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Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Number: 31H

#### Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

#### **WAFMSS**

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

### APD ID: 10400088888 Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 29-32 FEDERAL COM

Well Type: OIL WELL

#### Submission Date: 10/30/2022

Well Number: 31H Well Work Type: Drill Highlighted data reflects the most recent changes <u>Show Final Text</u>

#### Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

**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
- **Reclamation bond number:**
- **Reclamation bond amount:**
- **Reclamation bond rider amount:**
- Additional reclamation bond information

### Bond Info Data 09/19/2023

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	266658
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

CONDITIONS			
Created By	Condition	Condition Date	
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/21/2023	
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/21/2023	
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/21/2023	
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/21/2023	
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.	9/21/2023	

CONDITIONS

Action 266658