

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for notices and reports to enter an abandoned well. Use form 3160-5 (AFB) for such proposals.

5. Lease Serial No.
NMLC063228

6. Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
TRISTE DRAW 25 FEDERAL COM 14H

9. API Well No.
30-025-44002-00-X1

10. Field and Pool or Exploratory Area
TRISTE DRAW-BONE SPRING

11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other Instructions on page 2

JUL 03 2019

RECEIVED

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
CIMAREX ENERGY COMPANY

Contact: FATIMA VASQUEZ
E-Mail: fvasquez@cimarex.com

3a. Address
600 N. MARIENFELD SUITE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-620-1933

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 25 T23S R32E SESW 560FSL 2390FWL
32.269997 N Lat, 103.629143 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Cimarex respectfully requests approval to change the SHL and BHL. No additional surface disturbance is required for the well pad.

Approved:
SHL - 560 FSL & 2390 FWL, Sec 25-23S-32E
BHL - 330 FNL & 2110 FWL, Sec 25-23S-32E

Proposed:
SHL - 500 FSL & 2450 FWL, Sec 25-23S-32E
BHL - 330 FNL & 1860 FWL, Sec 25-23S-32E

Please see attached plat, directional plan, and drilling plan for changes.

Engineering COA shall apply. 25 6-6-19 Surface good same COA's 6-7-2019

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #467265 verified by the BLM Well Information System

For CIMAREX ENERGY COMPANY, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 06/03/2019 (19PP2071SE)

Name (Printed/Typed) FATIMA VASQUEZ

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/31/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *[Signature]*

Title *[Signature]*

Date *06/07/2019*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office *CPD*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

[Signature]

1. Geological Formations

TVD of target 9,450

Pilot Hole TD N/A

MD at TD 13,740

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1240	N/A	
Salado	1730	N/A	
Base of Salt	4800	N/A	
Delaware Sands	5030	N/A	
Brushy Canyon	7360	Hydrocarbons	
Bone Spring	8830	Hydrocarbons	
Avalon Shale	9320	Hydrocarbons	
Avalon Target	9450	Hydrocarbons	
1st Bone Spring	10040	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	1290	1290	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.25	2.93	5.20
12 1/4	0	5010	5010	9-5/8"	40.00	J-55	LT&C	1.54	1.49	2.59
8 3/4	0	9012	9012	5-1/2"	17.00	L-80	LT&C	1.49	1.84	2.10
8 3/4	9012	13740	9450	5-1/2"	17.00	L-80	BT&C	1.42	1.75	53.32
BLM Minimum Safety 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 IILB.1.h

Cimarex Energy Co., Triste Draw 25 Fed Com #14H

	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?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
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?	N

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	625	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	168	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	939	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	362	10.30	3.64	22.18		Lead: Tuned Light + LCM
	1149	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4810	25

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	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			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.	
X	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.	
N	Are anchors required by manufacturer?	

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1290'	FW Spud Mud	8.30 - 8.80	30-32	N/C
1290' to 5010'	Brine Water	9.70 - 10.20	30-32	N/C
5010' to 13740'	FW/Cut Brine	8.50 - 9.00	30-32	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/Visual Monitoring
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6. Logging and Testing Procedures

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

Additional Logs Planned	Interval
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4422 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.

X	H ₂ S is present
X	H ₂ S 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 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 50% of 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 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 3000 psi.

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.

Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 Anti-Collision Summary Report

Analysis Date-24hr Time: May 09, 2019 - 14:50

Client:

Field: NM Lea County (NAD 83)

Structure: Cimarex Triste Draw 25 Federal #14H

Slot: Cimarex Triste Draw 25 Federal #14H

Well: Cimarex Triste Draw 25 Federal #14H

Borehole: Original Borehole

Scan MD Range: 0.00R - 13739.81ft

Analysis Method:

Reference Trajectory:

Depth Interval:

Rule Set:

Min Pts:

Version / Patch:

Database \ Project:

3D Least Distance

Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (Def Plan)

Every 10.00 Measured Depth (ft)

NAL Procedure: D&M AntiCollision Standard S002

All local minima indicated.

2.10.760.0

US1163APP452.dir.slb.com/drilling-NM Lea County 2.10

Trajectory Error Model:

ISCWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

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 Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted: Sep-Factor separation <= 1.50 ft

Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 (Def Plan)

20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	0.00	0.00	CtCt<15m<15.00				Enter Alert	Fail Minor
20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	26.00	26.00					WRP	
20.00	20.00	5.83	0.00	1.50	OSF1.50	1920.00	1920.00			OSF<1.50		Enter Minor	
20.00	22.84	4.07	-2.64	1.30	OSF1.50	2200.00	2200.00					MinPt-CtCt	
20.02	22.72	4.04	-2.70	1.30	OSF1.50	2210.00	2210.00					MinPt	
20.07	22.79	4.05	-2.71	1.30	OSF1.50	2220.00	2220.00					MinPt	
23.42	23.55	6.89	-0.13	1.49	OSF1.50	2340.00	2339.94					Exit Minor	
80.87	26.04	62.47	54.63	4.98	OSF1.50	3250.00	3242.88			OSF>1.50		Exit Alert	
249.97	59.70	209.34	190.27	6.49	OSF1.50	9040.00	9000.88					MinPt-CtCt	
250.08	60.11	209.17	189.87	6.45	OSF1.50	9100.00	9060.39					MinPt-O-EOU	
250.14	60.18	209.10	189.80	6.44	OSF1.50	9110.00	9070.20					MinPt-O-ADP	
251.24	60.61	210.00	190.63	6.42	OSF1.50	9170.00	9128.01					MinPt-O-SF	
454.85	158.35	381.78	318.49	4.89	OSF1.50	13080.00	9450.00			OSF<5.00		Enter Alert	
454.85	158.00	348.03	285.04	4.34	OSF1.50	13739.81	9450.00					MinPt	

Cimarex Triste Draw 25 Federal #13H MWD to 13,778R MD TD (Surcon Cor) (Def Survey)

99.95	32.81	97.45	87.14	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	Warning Alert
99.93	32.81	97.42	87.12	15190.89	MAS = 10.00 (m)	26.00	26.00					WRP	
88.11	32.81	79.02	55.31	12.98	MAS = 10.00 (m)	1540.00	1540.00					MinPt	
88.87	32.81	78.84	55.88	11.79	MAS = 10.00 (m)	1690.00	1690.00					MinPt	
89.31	32.81	78.83	56.50	10.88	MAS = 10.00 (m)	1840.00	1840.00					MinPt	
73.50	32.81	60.89	40.78	6.95	MAS = 10.00 (m)	2790.00	2786.94					MinPt	
73.00	32.81	60.85	40.79	6.95	MAS = 10.00 (m)	2800.00	2798.84					MinPt	
73.72	32.81	60.85	40.91	6.94	MAS = 10.00 (m)	2820.00	2816.86					MinPt	
74.63	32.81	60.78	42.13	6.22	MAS = 10.00 (m)	3450.00	3450.71					MinPt	
74.94	32.81	60.78	42.13	6.20	MAS = 10.00 (m)	3470.00	3469.82					MinPt	
70.83	32.81	54.45	37.82	4.98	MAS = 10.00 (m)	4170.00	4154.11			OSF<5.00		Enter Alert	
57.70	32.81	39.40	24.95	3.49	MAS = 10.00 (m)	4700.00	4679.19					MinPt	
58.31	32.81	39.21	25.50	3.36	MAS = 10.00 (m)	4880.00	4857.51					MinPt	
68.99	32.81	39.22	26.18	3.27	MAS = 10.00 (m)	5050.00	5025.93					MinPt	
59.76	32.81	39.05	26.95	3.14	MAS = 10.00 (m)	5280.00	5233.96					MinPt	
60.73	37.39	34.87	23.34	2.60	OSF1.50	6300.00	6284.32					MinPt	
61.24	39.10	34.28	22.06	2.40	OSF1.50	6537.89	6500.00					MinPt	
123.78	39.11	86.89	84.89	4.97	OSF1.50	7330.00	7290.89			OSF<5.00		Exit Alert	
259.84	47.30	227.59	212.64	6.62	OSF1.50	9650.00	9437.01					MinPt	
259.88	47.32	227.60	212.69	6.62	OSF1.50	9880.00	9438.22					MinPt	
268.70	49.03	233.26	217.75	6.52	OSF1.50	10160.00	9450.00					MinPt	
267.14	50.04	232.93	217.10	6.35	OSF1.50	10220.00	9450.00					MinPt	
267.58	50.65	233.03	217.01	6.27	OSF1.50	10250.00	9460.00					MinPt	
268.80	52.63	232.85	216.17	7.97	OSF1.50	10390.00	9450.00					MinPt	
269.27	53.23	232.95	216.04	7.89	OSF1.50	10430.00	9450.00					MinPt	
267.65	53.93	224.24	203.77	6.48	OSF1.50	11020.00	9450.00					MinPt	
268.87	56.56	223.46	202.10	6.23	OSF1.50	11130.00	9450.00					MinPt	
270.24	58.48	223.77	201.70	6.09	OSF1.50	11210.00	9450.00					MinPt	
275.80	84.89	218.50	191.11	4.90	OSF1.50	11840.00	9450.00			OSF<5.00		Enter Alert	
275.79	85.24	218.13	190.55	4.95	OSF1.50	11890.00	9450.00					MinPt	
289.25	111.08	194.37	158.18	3.89	OSF1.50	12740.00	9450.00					MinPt	
259.89	134.16	169.42	125.54	2.93	OSF1.50	13520.00	9450.00					MinPt	
258.50	140.83	193.85	117.75	2.78	OSF1.50	13739.81	9450.00					MinPt	

Cimarex Triste Draw 25 Federal #12H survey final (Def Survey)

116.81	32.81	114.11	83.80	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	Pass
116.59	32.81	114.09	83.78	24378.07	MAS = 10.00 (m)	26.00	26.00					WRP	
105.83	32.81	97.34	73.07	17.12	MAS = 10.00 (m)	1420.00	1420.00					MinPt	
105.85	32.81	97.27	73.14	16.78	MAS = 10.00 (m)	1450.00	1450.00					MinPt	
100.13	32.81	87.09	67.32	9.26	MAS = 10.00 (m)	2720.00	2717.59					MinPt	
100.14	32.81	87.07	67.33	9.25	MAS = 10.00 (m)	2730.00	2727.50					MinPt	
101.24	32.81	87.99	68.43	6.16	MAS = 10.00 (m)	2830.00	2826.57					MinPt	
118.12	32.81	102.14	83.31	6.90	MAS = 10.00 (m)	3310.00	3302.10					MinPt	
120.02	32.81	105.23	87.21	6.50	MAS = 10.00 (m)	3690.00	3678.57					MinPt	
120.08	32.81	105.19	87.27	6.48	MAS = 10.00 (m)	3730.00	3718.20					MinPt	
126.11	32.81	108.78	93.30	6.34	MAS = 10.00 (m)	4380.00	4362.16					MinPt	
126.10	32.81	108.90	93.38	7.38	MAS = 10.00 (m)	4850.00	4827.79					MinPt	
126.23	32.81	108.83	93.42	7.32	MAS = 10.00 (m)	4880.00	4857.51					MinPt	
130.39	32.81	109.35	97.58	6.90	MAS = 10.00 (m)	5220.00	5194.35					MinPt	
149.32	34.23	125.67	115.09	6.94	OSF1.50	5790.00	5759.06					MinPt	
149.44	34.38	125.69	115.06	6.91	OSF1.50	5810.00	5778.87					MinPt	

Offset/Trajectory	Separation			Dev. (N)	Allow	Sep.	Fact.	Controlling	Rule	Reference Trajectory			Risk Level	Major	Alert	Status
	CR-CT (N)	MA5 (N)	EDU (N)							MD (N)	TYD (N)	Alert				

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
2197.45	32.81	2185.27	2184.85	228.70		MAS = 10.00 (m)	2180.00	2180.00				MinPts	
2197.49	32.81	2185.12	2184.88	222.52		MAS = 10.00 (m)	2200.00	2200.00				MINPT-O-EOU	
2198.59	32.81	2187.02	2186.76	218.21		MAS = 10.00 (m)	2300.00	2298.98				MinPt-O-SF	
2771.71	37.07	2748.17	2734.84	120.15		OSF1.50	8537.89	8500.00				MinPt-O-SF	
2781.00	44.72	2750.35	2738.28	98.72		OSF1.50	9190.00	9148.77				MinPt-CICI	
2781.03	44.83	2750.31	2738.20	98.48		OSF1.50	9210.00	9185.24				MINPT-O-EOU	
2781.07	44.89	2750.31	2738.15	98.32		OSF1.50	9220.00	9174.34				MinPt-O-AOP	
3030.58	62.18	2984.94	2978.58	91.43		OSF1.50	10370.00	9450.00				MinPt-O-SF	
3055.85	52.59	3019.75	3003.00	91.43		OSF1.50	10430.00	9450.00				MinPt-O-SF	
3128.43	133.51	3038.59	2994.82	35.79		OSF1.50	11500.00	9450.00				MinPt-CICI	
3133.18	153.42	3030.07	2979.77	31.12		OSF1.50	11980.00	9450.00				MINPT-O-EOU	
3142.37	183.29	3019.34	2959.08	26.05		OSF1.50	12510.00	9450.00				MinPt-CICI	
3143.76	204.92	3008.34	2938.87	23.28		OSF1.50	12940.00	9450.00				MinPt-CICI	
3143.12	223.82	2993.20	2919.50	21.31		OSF1.50	13310.00	9450.00				MinPt-CICI	
3142.15	288.93	2982.03	2873.22	17.88		OSF1.50	13739.81	9450.00				MinPts	

Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19 Proposal Geodetic



Report

(Def Plan)

Report Date:	May 09, 2019 - 02:50 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	359.591 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Triste Draw 25 Federal #14H / Cimarex Triste Draw 25 Federal #14H	TVD Reference Datum:	RKB
Well:	Cimarex Triste Draw 25 Federal #14H	TVD Reference Elevation:	3715.900 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3689.900 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.707 °
Survey Name:	Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19	Total Gravity Field Strength:	998.4365mgm (9.80665 Based)
Survey Date:	May 09, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	105.835 ° / 5045.553 ft / 5.889 / 0.534	Total Magnetic Field Strength:	47955.888 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.981 °
Location Lat / Long:	N 32° 16' 11.39438", W 103° 37' 44.22002"	Declination Date:	May 09, 2019
Location Grid N/E Y/X:	N 482612.330 RUS, E 759048.420 RUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.3761 °	North Reference:	Grid North
Grid Scale Factor:	0.99998338	Grid Convergence Used:	0.3761 °
Version / Patch:	2.10.760.0	Total Corr Mag North->Grid North:	6.3310 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northings (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [50' FSL, 2450' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	100.00	0.00	269.42	100.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	200.00	0.00	269.42	200.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	300.00	0.00	269.42	300.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	400.00	0.00	269.42	400.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	500.00	0.00	269.42	500.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	600.00	0.00	269.42	600.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	700.00	0.00	269.42	700.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	800.00	0.00	269.42	800.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	900.00	0.00	269.42	900.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1000.00	0.00	269.42	1000.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1100.00	0.00	269.42	1100.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1200.00	0.00	269.42	1200.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
Rustler	1240.00	0.00	269.42	1240.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1300.00	0.00	269.42	1300.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1400.00	0.00	269.42	1400.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1500.00	0.00	269.42	1500.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1600.00	0.00	269.42	1600.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1700.00	0.00	269.42	1700.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
Top of Sall (Salado)	1730.00	0.00	269.42	1730.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1800.00	0.00	269.42	1800.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	1900.00	0.00	269.42	1900.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	2000.00	0.00	269.42	2000.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	2100.00	0.00	269.42	2100.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
Nudge 2"/100' DLS	2200.00	0.00	269.42	2200.00	0.00	0.00	0.00	0.00	482612.33	759048.42	N 32 16 11.39	W 103 37 44.22
	2300.00	2.00	269.42	2299.98	-0.01	-0.02	-1.75	2.00	482612.31	759048.88	N 32 16 11.39	W 103 37 44.24
	2400.00	4.00	269.42	2399.84	-0.02	-0.07	-6.98	2.00	482612.26	759041.44	N 32 16 11.39	W 103 37 44.30
	2500.00	6.00	269.42	2499.45	-0.05	-0.16	-15.69	2.00	482612.17	759032.73	N 32 16 11.39	W 103 37 44.40
Hold Nudge	2590.88	7.82	269.42	2589.87	-0.08	-0.27	-26.82	2.00	482612.06	759021.80	N 32 16 11.39	W 103 37 44.53
	2600.00	7.82	269.42	2598.70	-0.09	-0.28	-27.88	0.00	482612.05	759020.58	N 32 16 11.39	W 103 37 44.54
	2700.00	7.82	269.42	2697.77	-0.13	-0.42	-41.47	0.00	482611.91	759006.96	N 32 16 11.39	W 103 37 44.70
	2800.00	7.82	269.42	2796.84	-0.17	-0.58	-55.07	0.00	482611.77	758993.38	N 32 16 11.39	W 103 37 44.88
	2900.00	7.82	269.42	2895.92	-0.21	-0.70	-68.67	0.00	482611.63	758979.75	N 32 16 11.39	W 103 37 45.02
	3000.00	7.82	269.42	2994.99	-0.25	-0.84	-82.27	0.00	482611.49	758966.15	N 32 16 11.39	W 103 37 45.18
	3100.00	7.82	269.42	3094.06	-0.29	-0.98	-95.87	0.00	482611.35	758952.55	N 32 16 11.39	W 103 37 45.34
	3200.00	7.82	269.42	3193.13	-0.33	-1.12	-109.47	0.00	482611.21	758938.95	N 32 16 11.39	W 103 37 45.50
	3300.00	7.82	269.42	3292.20	-0.36	-1.25	-123.07	0.00	482611.08	758925.35	N 32 16 11.39	W 103 37 45.65
	3400.00	7.82	269.42	3391.27	-0.42	-1.39	-136.67	0.00	482610.94	758911.75	N 32 16 11.39	W 103 37 45.81
	3500.00	7.82	269.42	3490.34	-0.46	-1.53	-150.28	0.00	482610.80	758898.15	N 32 16 11.39	W 103 37 45.97
	3600.00	7.82	269.42	3589.41	-0.50	-1.67	-163.88	0.00	482610.66	758884.55	N 32 16 11.39	W 103 37 46.13
	3700.00	7.82	269.42	3688.48	-0.54	-1.81	-177.48	0.00	482610.52	758870.95	N 32 16 11.39	W 103 37 46.29
	3800.00	7.82	269.42	3787.55	-0.58	-1.95	-191.08	0.00	482610.38	758857.35	N 32 16 11.39	W 103 37 46.45
	3900.00	7.82	269.42	3886.62	-0.63	-2.09	-204.68	0.00	482610.24	758843.75	N 32 16 11.39	W 103 37 46.60
	4000.00	7.82	269.42	3985.69	-0.67	-2.22	-218.28	0.00	482610.11	758830.15	N 32 16 11.39	W 103 37 46.76
	4100.00	7.82	269.42	4084.76	-0.71	-2.36	-231.88	0.00	482609.97	758816.55	N 32 16 11.39	W 103 37 46.92
	4200.00	7.82	269.42	4183.83	-0.75	-2.50	-245.48	0.00	482609.83	758802.94	N 32 16 11.39	W 103 37 47.08
	4300.00	7.82	269.42	4282.90	-0.79	-2.64	-259.09	0.00	482609.69	758789.34	N 32 16 11.39	W 103 37 47.24
	4400.00	7.82	269.42	4381.97	-0.83	-2.78	-272.69	0.00	482609.55	758775.74	N 32 16 11.39	W 103 37 47.40
	4500.00	7.82	269.42	4481.05	-0.87	-2.92	-286.29	0.00	482609.41	758762.14	N 32 16 11.39	W 103 37 47.55
	4600.00	7.82	269.42	4580.12	-0.92	-3.06	-299.89	0.00	482609.27	758748.54	N 32 16 11.39	W 103 37 47.71
	4700.00	7.82	269.42	4679.19	-0.96	-3.20	-313.49	0.00	482609.13	758734.94	N 32 16 11.39	W 103 37 47.87
	4800.00	7.82	269.42	4778.26	-1.00	-3.33	-327.09	0.00	482609.00	758721.34	N 32 16 11.39	W 103 37 48.03
Base of Sall	4821.95	7.82	269.42	4800.00	-1.01	-3.36	-330.08	0.00	482608.87	758718.38	N 32 16 11.39	W 103 37 48.08
	4900.00	7.82	269.42	4877.33	-1.04	-3.47	-340.69	0.00	482608.86	758707.74	N 32 16 11.39	W 103 37 48.10
	5000.00	7.82	269.42	4976.40	-1.08	-3.61	-354.29	0.00	482608.72	758694.14	N 32 16 11.39	W 103 37 48.35
Delaware Sands	5054.10	7.82	269.42	5030.00	-1.10	-3.69	-361.65	0.00	482608.64	758680.78	N 32 16 11.39	W 103 37 48.43
	5100.00	7.82	269.42	5075.47	-1.12	-3.75	-367.90	0.00	482608.58	758667.54	N 32 16 11.39	W 103 37 48.50
	5200.00	7.82	269.42	5174.54	-1.17	-3.89	-381.50	0.00	482608.44	758654.34	N 32 16 11.39	W 103 37 48.62
	5300.00	7.82	269.42	5273.61	-1.21	-4.03	-395.10	0.00	482608.30	758641.14	N 32 16 11.39	W 103 37 48.74
	5400.00	7.82	269.42	5372.68	-1.25	-4.17	-408.70	0.00	482608.16	758627.94	N 32 16 11.39	W 103 37 48.86
	5500.00	7.82	269.42	5471.75	-1.29	-4.30	-422.30	0.00	482608.03	758614.74	N 32 16 11.39	W 103 37 48.98
	5600.00	7.82	269.42	5570.82	-1.33	-4.44	-435.90	0.00	482607.89	758601.54	N 32 16 11.39	W 103 37 49.10
	5700.00	7.82	269.42	5669.89	-1.37	-4.58	-449.50	0.00	482607.75	758588.34	N 32 16 11.39	W 103 37 49.22
	5800.00	7.82	269.42	5768.96	-1.41	-4.72	-463.11	0.00	482607.61	758575.14	N 32 16 11.39	W 103 37 49.34
	5900.00	7.82	269.42	5868.03	-1.46	-4.86	-476.71	0.00	482607.47	758561.94	N 32 16 11.39	W 103 37 49.46

Comments	MD (ft)	Incl (°)	Azimuth (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6000.00	7.82	289.42	5987.10	-1.50	-5.00	-490.31	0.00	482607.33	758558.13	N 32 16 11.38	W 103 37 49.93
	6100.00	7.82	289.42	6066.17	-1.54	-5.14	-503.91	0.00	482607.19	758544.53	N 32 16 11.38	W 103 37 50.09
	6200.00	7.82	289.42	6185.25	-1.56	-5.28	-517.51	0.00	482607.06	758530.93	N 32 16 11.38	W 103 37 50.25
	6300.00	7.82	289.42	6284.32	-1.62	-5.41	-531.11	0.00	482606.92	758517.33	N 32 16 11.38	W 103 37 50.41
	6400.00	7.82	289.42	6363.39	-1.66	-5.55	-544.71	0.00	482606.78	758503.73	N 32 16 11.37	W 103 37 50.56
	6500.00	7.82	289.42	6462.48	-1.71	-5.69	-558.31	0.00	482606.64	758490.13	N 32 16 11.37	W 103 37 50.72
Drop to Vertical 2"/100' DLS	6537.89	7.82	289.42	6500.00	-1.72	-5.74	-563.47	0.00	482606.59	758484.97	N 32 16 11.37	W 103 37 50.78
	6800.00	6.58	289.42	6581.81	-1.74	-5.82	-571.25	2.00	482606.51	758477.19	N 32 16 11.37	W 103 37 50.87
	6700.00	4.58	289.42	6681.14	-1.77	-5.92	-580.98	2.00	482606.41	758467.48	N 32 16 11.37	W 103 37 50.99
	6800.00	2.58	289.42	6780.94	-1.79	-5.99	-587.20	2.00	482606.34	758461.24	N 32 16 11.37	W 103 37 51.08
	6900.00	0.58	289.42	6880.89	-1.80	-6.01	-589.95	2.00	482606.32	758458.50	N 32 16 11.37	W 103 37 51.09
Hold Vertical	6928.77	0.00	289.42	6889.67	-1.80	-6.01	-590.09	2.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7000.00	0.00	289.42	6980.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7100.00	0.00	289.42	7080.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7200.00	0.00	289.42	7180.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7300.00	0.00	289.42	7280.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
Brushy Canyon	7399.11	0.00	289.42	7380.00	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7400.00	0.00	289.42	7380.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7500.00	0.00	289.42	7480.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7600.00	0.00	289.42	7580.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7700.00	0.00	289.42	7680.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7800.00	0.00	289.42	7780.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	7900.00	0.00	289.42	7880.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8000.00	0.00	289.42	7980.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8100.00	0.00	289.42	8080.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8200.00	0.00	289.42	8180.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8300.00	0.00	289.42	8280.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8400.00	0.00	289.42	8380.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8500.00	0.00	289.42	8480.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8600.00	0.00	289.42	8580.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8700.00	0.00	289.42	8680.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8800.00	0.00	289.42	8780.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
Bone Spring	8889.11	0.00	289.42	8830.00	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	8900.00	0.00	289.42	8980.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	9000.00	0.00	289.42	9080.89	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
KOP - Build 12"/100' DLS	9011.84	0.00	289.42	8972.54	-1.80	-6.01	-590.09	0.00	482606.32	758458.35	N 32 16 11.37	W 103 37 51.09
	9100.00	10.80	359.59	9080.39	8.35	2.14	-590.15	12.00	482614.47	758458.29	N 32 16 11.45	W 103 37 51.09
	9200.00	22.80	359.59	9158.05	34.87	30.88	-590.35	12.00	482642.99	758458.09	N 32 16 11.74	W 103 37 51.09
	9300.00	34.80	359.59	9243.88	82.68	78.44	-590.69	12.00	482690.77	758457.75	N 32 16 12.21	W 103 37 51.09
	9400.00	46.80	359.59	9319.47	147.82	143.40	-591.18	12.00	482755.73	758457.28	N 32 16 12.85	W 103 37 51.09
Avalon Shale	9400.78	48.70	359.59	9320.00	148.19	143.97	-591.16	12.00	482756.29	758457.28	N 32 16 12.86	W 103 37 51.09
	9500.00	58.60	359.59	9380.09	226.92	222.70	-591.72	12.00	482835.02	758456.72	N 32 16 13.64	W 103 37 51.09
	9600.00	70.60	359.59	9422.80	317.09	312.87	-592.37	12.00	482925.19	758456.07	N 32 16 14.53	W 103 37 51.10
	9700.00	82.60	359.59	9446.03	414.19	409.97	-593.06	12.00	483022.28	758455.38	N 32 16 15.49	W 103 37 51.10
Avalon Target Landing Point	9761.84	90.00	359.59	9450.00	475.88	471.44	-593.50	12.00	483083.75	758454.94	N 32 16 16.10	W 103 37 51.10
	9800.00	90.00	359.59	9450.00	514.02	509.80	-593.77	0.00	483122.11	758454.87	N 32 16 16.48	W 103 37 51.10
	9900.00	90.00	359.59	9450.00	614.02	609.78	-594.49	0.00	483222.10	758453.96	N 32 16 17.47	W 103 37 51.10
	10000.00	90.00	359.59	9450.00	714.02	709.79	-595.20	0.00	483322.09	758453.24	N 32 16 18.46	W 103 37 51.10
	10100.00	90.00	359.59	9450.00	814.02	809.79	-595.92	0.00	483422.09	758452.53	N 32 16 19.45	W 103 37 51.10
	10200.00	90.00	359.59	9450.00	914.02	909.78	-596.63	0.00	483522.08	758451.81	N 32 16 20.44	W 103 37 51.10
	10300.00	90.00	359.59	9450.00	1014.02	1009.78	-597.34	0.00	483622.07	758451.10	N 32 16 21.42	W 103 37 51.10
	10400.00	90.00	359.59	9450.00	1114.02	1109.78	-598.06	0.00	483722.07	758450.39	N 32 16 22.41	W 103 37 51.10
	10500.00	90.00	359.59	9450.00	1214.02	1209.78	-598.77	0.00	483822.06	758449.67	N 32 16 23.40	W 103 37 51.10
	10600.00	90.00	359.59	9450.00	1314.02	1309.77	-599.48	0.00	483922.05	758448.96	N 32 16 24.39	W 103 37 51.10
	10700.00	90.00	359.59	9450.00	1414.02	1409.77	-600.20	0.00	484022.05	758448.25	N 32 16 25.38	W 103 37 51.10
	10800.00	90.00	359.59	9450.00	1514.02	1509.77	-600.91	0.00	484122.04	758447.53	N 32 16 26.37	W 103 37 51.10
	10900.00	90.00	359.59	9450.00	1614.02	1609.77	-601.63	0.00	484222.03	758446.82	N 32 16 27.36	W 103 37 51.10
	11000.00	90.00	359.59	9450.00	1714.02	1709.78	-602.34	0.00	484322.03	758446.10	N 32 16 28.35	W 103 37 51.10
	11100.00	90.00	359.59	9450.00	1814.02	1809.78	-603.05	0.00	484422.02	758445.39	N 32 16 29.34	W 103 37 51.11
	11200.00	90.00	359.59	9450.00	1914.02	1909.78	-603.77	0.00	484522.02	758444.68	N 32 16 30.33	W 103 37 51.11
	11300.00	90.00	359.59	9450.00	2014.02	2009.78	-604.48	0.00	484622.01	758443.96	N 32 16 31.32	W 103 37 51.11
	11400.00	90.00	359.59	9450.00	2114.02	2109.75	-605.19	0.00	484722.00	758443.25	N 32 16 32.31	W 103 37 51.11
	11500.00	90.00	359.59	9450.00	2214.02	2209.75	-605.91	0.00	484822.00	758442.54	N 32 16 33.30	W 103 37 51.11
	11600.00	90.00	359.59	9450.00	2314.02	2309.75	-606.62	0.00	484921.99	758441.82	N 32 16 34.29	W 103 37 51.11
	11700.00	90.00	359.59	9450.00	2414.02	2409.75	-607.34	0.00	485021.98	758441.11	N 32 16 35.28	W 103 37 51.11
	11800.00	90.00	359.59	9450.00	2514.02	2509.74	-608.05	0.00	485121.98	758440.39	N 32 16 36.27	W 103 37 51.11
	11900.00	90.00	359.59	9450.00	2614.02	2609.74	-608.76	0.00	485221.97	758439.68	N 32 16 37.26	W 103 37 51.11
	12000.00	90.00	359.59	9450.00	2714.02	2709.74	-609.48	0.00	485321.96	758438.97	N 32 16 38.25	W 103 37 51.11
	12100.00	90.00	359.59	9450.00	2814.02	2809.74	-610.19	0.00	485421.96	758438.25	N 32 16 39.24	W 103 37 51.11
	12200.00	90.00	359.59	9450.00	2914.02	2909.73	-610.90	0.00	485521.95	758437.54	N 32 16 40.23	W 103 37 51.11
	12300.00	90.00	359.59	9450.00	3014.02	3009.73	-611.62	0.00	485621.95	758436.83	N 32 16 41.21	W 103 37 51.11
	12400.00	90.00	359.59	9450.00	3114.02	3109.73	-612.33	0.00	485721.94	758436.11	N 32 16 42.20	W 103 37 51.11
	12500.00	90.00	359.59	9450.00	3214.02	3209.73	-613.05	0.00	485821.93	758435.40	N 32 16 43.19	W 103 37 51.11
	12600.00	90.00	359.59	9450.00	3314.02	3309.72	-613.76	0.00	485921.93	758434.68	N 32 16 44.18	W 103 37 51.12
	12700.00	90.00	359.59	9450.00	3414.02	3409.72	-614.47	0.00	486021.92	758433.97	N 32 16 45.17	W 103 37 51.12
	12800.00	90.00	359.59	9450.00	3514.02	3509.72	-615.19	0.00	486121.91	758433.26	N 32 16 46.16	W 103 37 51.12
	12900.00	90.00	359.59	9450.00	3614.02	3609.72	-615.90	0.0				

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 ° ' ")
Survey Error Model: Survey Program:	ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma											
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey			
	1	0.000	26.000	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS-Depth Only	Original Borehole / Cimarex Triste Draw 25 Federal #14H Rev1 RM 09May19			
	1	26.000	13739.607	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS	Original Borehole / Cimarex Triste Draw 25 Federal #14H Rev1 RM			

