

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OPERATION APPROVED
OMB NO. 1004-0137
Expires January 31, 2018
5. Lease Serial No. NMNM077090**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator CENTENNIAL RESOURCE PRODUCTION, INC. Contact: KANICIA SCHLICHTING Email: kanicia.schlichting@cdevinc.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 1001 17TH STREET SUITE 1800 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 720.499.1537	8. Well Name and No. JULIET FEDERAL COM 503H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T24S R34E NENW 400FNL 2130FWL 32.209187 N Lat, 103.459503 W Lon		9. API Well No. 30-025-45554-00-X1
		10. Field and Pool or Exploratory Area BONE SPRINGS
		11. County or Parish, State LEA COUNTY, NM

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 APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomple 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 recompletion 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.

Centennial Resource Production respectfully requests to change the surface hole location of this well as follows:

Current SHL: Unit C, Sec 22, T24S, R34E, 400' FNL & 2130' FWL, Lea County, NM.

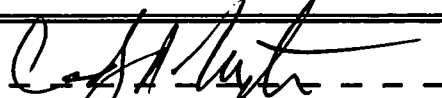
New SHL: Unit C, Sec 22, T24S, R34, 400' FNL & 1383' FWL, Lea County, NM.

Please see the attached new C-102, directional survey, multi-bowl procedure and updated casing/cement info.

Engineering Approved. JSP 12/15/2019. All Previous COAs still apply, except for the following. Please see Attached COA.
Surface good. MR. 12/12/2019. Same stipulations apply

14. I hereby certify that the foregoing is true and correct. Electronic Submission #495217 verified by the BLM Well Information System For CENTENNIAL RESOURCE PRODUCTION, sent to the Hobbs Committed to AFMSS for processing by JUANA MEDRANO on 12/11/2019 (20JNM0038SE)	
Name (Printed/Typed) KANICIA SCHLICHTING	Title SR REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/10/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title JFM-LFM	Date 12/16/2019
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 CPO

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 **

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-45554		2 Pool Code 96434		3 Pool Name Red Hills: Bone Spring, North	
4 Property Code 318012		5 Property Name JULIET FEDERAL COM		6 Well Number 503H	
7 OGRID No. 372165		8 Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC		9 Elevation 3531.2'	

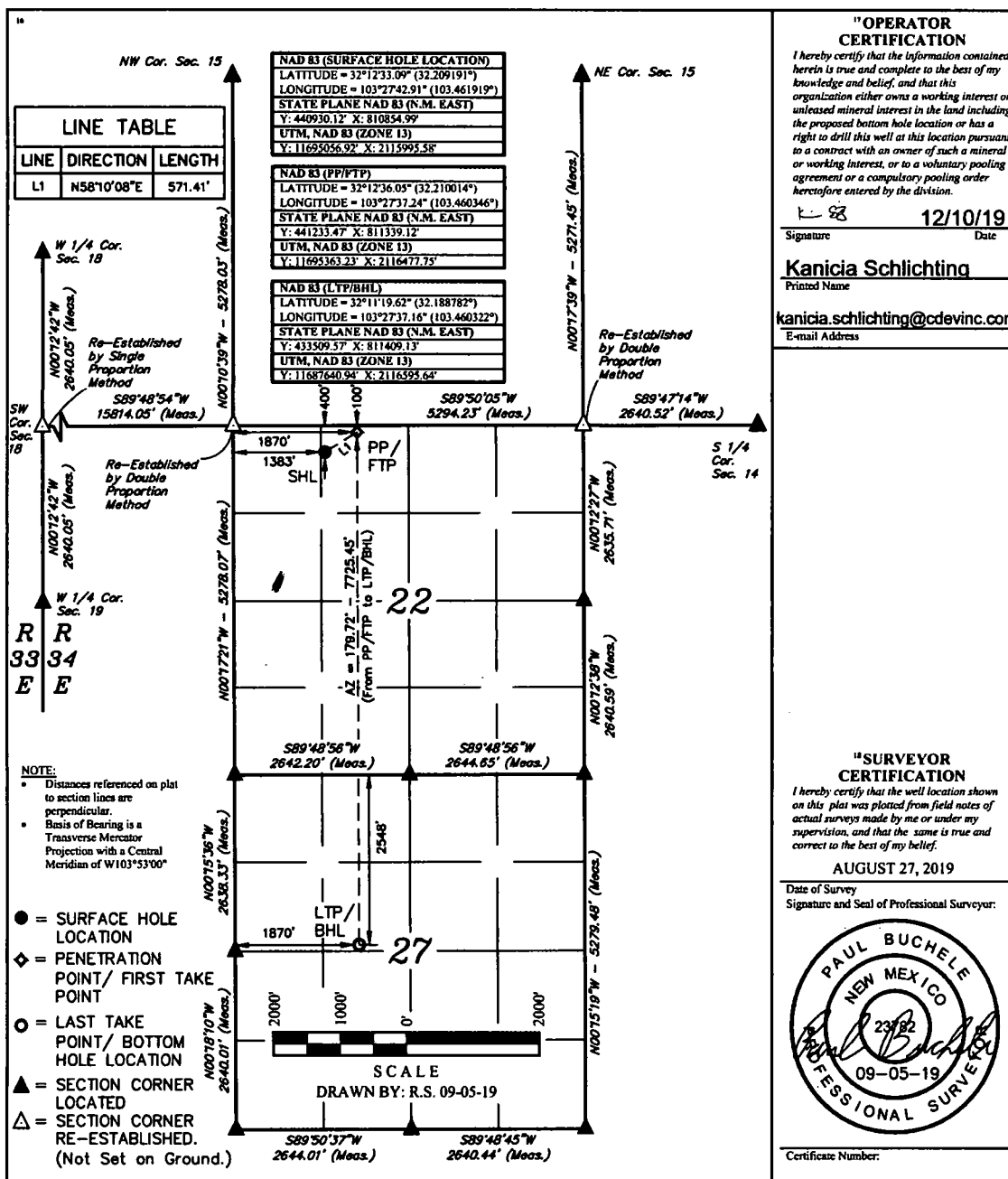
"Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	24S	34E		400	NORTH	1383	WEST	LEA

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	24S	34E		2548	NORTH	1870	WEST	LEA
12 Dedicated Acres 240	13 Lot or Infill	14 Consolidation Code	15 Order No.						

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



Juliet Federal Com 503H Updated casing and cement

Casing

Casing Id	String Type	Node Size	Casing Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joints SF Type	Joint SF	Body SF Type	Body SF
1 Conductor		26	20 New	API	N		0	120	0	3532	3412	120 H40	94 Weld								
2 surface		17.5	13.375 New	API	N		0	1350	0	3532	2189	1350 J55	54.5 BTC			1.70	23.29 Dry		11.59 Dry		11.59
3 Intermediate		12.25	9.625 New	API	N		0	5411	0	3532	-1858	5411 J55	40 LTC			1.30	8.42 Dry		2.41 Dry		2.92
4 Production		8.75	5.5 New	API	N		0	11601	0	3532	-7718	11601 P110 RY	20 TCBC-HT			1.90	12.93 Dry		2.85 Dry		2.85
5 Production		8.5	5.5 New	API	N		11601	18751	11250	-7718	-7718	7150 P 110 RY	20 TCBC-HT			1.90	12.93 Dry		2.85 Dry		2.85

Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity (cu)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Conductor	Lead		0	120	121	1.49	12.9	181		Grout	Bentonite 4% BWOC, Celophane #/sx, CaCl2 2% BWOC
Surface	Lead		0	850	679	1.74	13.5	1181		Class C Pre	Premium Gel Bentonite 4%, C-45 Econolite 0.25%, Phenoseal 0.25#/sk, CaCl 1%, Defoamer C-412 0.75%
Surface	Tail		850	1350	518	1.34	14.8	695		Class C Pre	C-45 Econolite 0.10%, CaCl 1.0%
Intermediate	Lead		0	4911	1166	3.44	10.7	4012		TXI Light w	Salt 1.77#/sk, C-45 Econolite 2.25%, STE 6.00%, Citric Acid 0.18%, C-19 0.10%, CSA-1000 0.20%, C-530P 0.30%, CTB-15 1.25#/sk, Gys Seal 8#/sk
Intermediate	Tail		4911	5411	141	1.33	14.8	188		Class C Pre	C-45 Econolite 0.10%, Citric acid 0.05%, C-503P 0.75%
Production	Lead		0	10702	1047	3.41	10.6	3571		TXI Light w	Salt 8.98#/sk, STE 6.00%, Citric acid 0.20%, CSA-1000 0.23%, C47B 0.10%, C-503P 0.30%
Production	Tail		10702	18751	1880	1.24	14.2	2331		50-25-25 C	Citric acid 0.03%, CSA-1000 0.05%, C47B 0.25%, C-503P 0.30%

Circulating Medium Table

	Top Depth	Bottom Depth	Mud Type	Min weight /	Max weight (lbs./gal.)
Surface	0	1350	FW	8.6	9.5
Intermediate	1350	5411	Brine	9	10
Production	5411	18751	Brine/OBM	8.8	10

Juliet Fed Com 503H

Centennial Drilling Plan for 3-Casing String Bone Springs Formation

13-3/8" x 9-5/8" x 5-1/2" Casing Design

1. Drill 17-1/2" surface hole to Total Depth with Spudder Rig and perform wellbore cleanup cycles.
2. Run and land 13-3/8" casing to Depth.
3. Cement 13-3/8" casing – cement to surface.
4. Cut / Dress Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor.
5. Test Weld to 70% of 13-3/8" casing collapse. Place nightcap with Pressure Gauge on wellhead and test seals to 70% of Casing Collapse.
6. Bleed Pressure if necessary and remove nightcap. Nipple up and test BOPE with test plug per Onshore Order 2.
7. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
8. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
9. Drill 12-1/4" Intermediate hole to 9-5/8" casing point. (Base Capitan Reef).
10. Remove wear bushing then run and land 9-5/8" Intermediate Casing with mandrel hanger in wellhead.
11. Cement 9-5/8 casing – cement to surface.
12. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
13. Install pack-off and test to 5000 psi for 15 minutes.
 - a. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
14. Install wear bushing then drill out 9-5/8" shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
15. Drill 8-3/4" Vertical hole to KOP – Trip out for Curve BHA.
16. Drill 8-3/4" Curve, landing in production interval – Trip for Lateral BHA.
17. Drill 8-1/2" Lateral to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" Production Casing.
18. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
19. Cement 5-1/2" Production string to surface.
20. Run in with wash tool and wash wellhead area – install pack-off and test to 5000psi for 15 minutes.
21. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
22. Test nightcap void to 5000psi for 30 minutes.

13-5/8" 10K

13-5/8" 5K

2-1/16" 5K

2" L.P

13-3/8" Casing

9-5/8" Casing

5-1/2" Casing


CENTENNIAL
RESOURCE DEVELOPMENT, INC

CAMERON CONFIDENTIAL INFORMATION

DO NOT SCALE

Drawn by: C.Moore

Date: 7/1/19

Checked by: V.Atwell

Date: 7/1/19

Drawing No: 1655807-A

 **CAMERON**
A Schlumberger Company

Surface
Systems

13-5/8" 10k MN-DS

Rev:

02

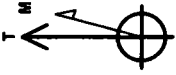


ROMEO_JULIET DEVELOPMENT
 Site: ROMEO_JULIET FEDERAL COM
 Wells: ROMEO 502H_JULIET FEDERAL COM 503H_504H
 Design: APD PLAN

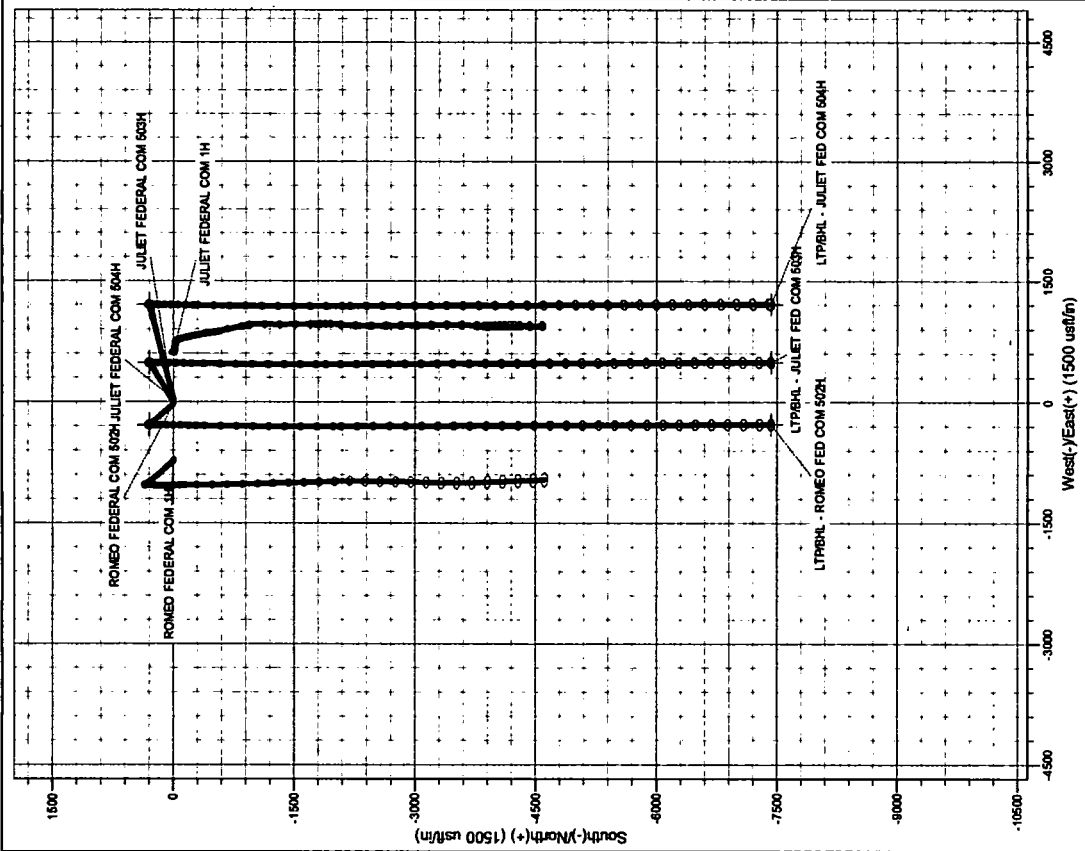
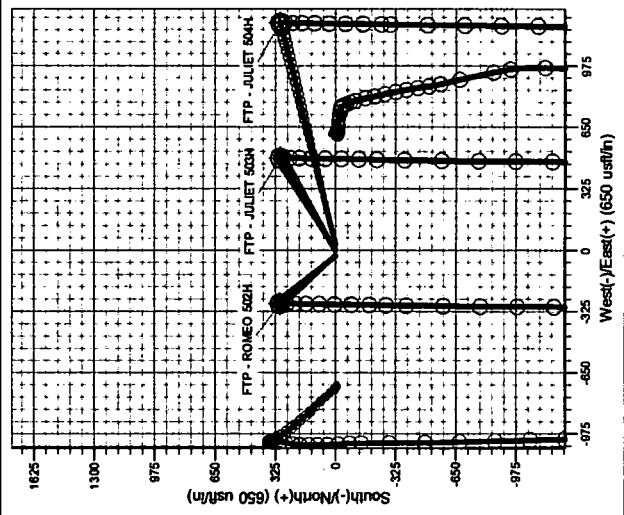
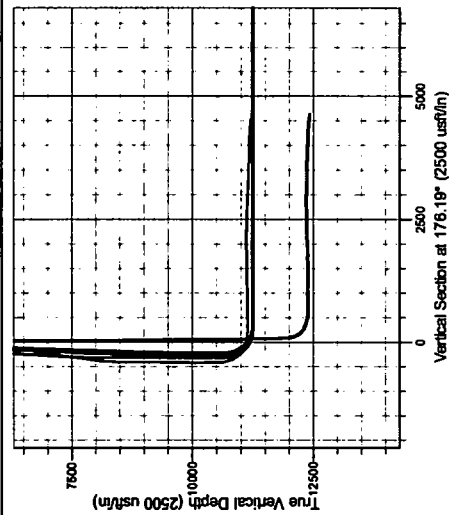
PROJECT DETAILS: LEA COUNTY

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Zone 13N (108 W to 102 W)

System Datum: Mean Sea Level



Azimuths to True North
 Magnetic North: 7.70°
 Magnetic Field
 Strength: 48795.3nT
 Dip Angle: 60.25°
 Date: 11/6/2018
 Model: IGRF2005.10



Centennial Resource Dev
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site		JULIET FEDERAL COM			
Site Position:		Northing:	0.00 usft	Latitude:	0° 0' 0.000 N
From:	Map	Easting:	0.00 usft	Longitude:	109° 29' 19.478 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	JULIET FEDERAL COM 503H					
Well Position	+N/-S	0.0 usft	Northing:	11,695,056.92 usft	Latitude:	32° 12' 33.086 N
	+E/-W	0.0 usft	Easting:	2,115,995.58 usft	Longitude:	103° 27' 42.908 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,531.2 usft

Wellbore	JULIET FEDERAL COM 503H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	12/31/2009	7.70	60.25	48,795.28488198

Design	PWP0				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	176.19	

Survey Tool Program	Date	11/8/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	18,750.6	PWP0 (JULIET FEDERAL COM 503H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map		
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting	Latitude	Longitude
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
2,500.0	5.00	58.50	2,499.4	11.4	18.6	11,695,068.58	2,116,014.00	32° 12' 33.199 N	103° 27' 42.692 W
8,550.0	5.00	58.50	8,526.3	286.9	468.2	11,695,350.49	2,116,459.60	32° 12' 35.925 N	103° 27' 37.458 W
9,050.0	0.00	0.00	9,025.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,701.5	0.00	0.00	10,677.2	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
11,601.2	90.00	180.97	11,250.0	-274.4	477.1	11,694,789.36	2,116,476.53	32° 12' 30.370 N	103° 27' 37.355 W
13,218.8	90.00	179.72	11,250.0	-1,891.9	467.3	11,693,171.88	2,116,489.88	32° 12' 14.362 N	103° 27' 37.469 W
18,750.8	90.00	179.72	11,250.0	-7,423.8	493.9	11,687,640.94	2,116,595.64	32° 11' 19.616 N	103° 27' 37.160 W

Centennial Resource Dev
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site		JULIET FEDERAL COM			
Site Position:		Northing:	0.00 usft	Latitude:	0° 0' 0.000 N
From:	Map	Easting:	0.00 usft	Longitude:	109° 29' 19.478 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	JULIET FEDERAL COM 503H					
Well Position	+N/-S	0.0 usft	Northing:	11,695,056.92 usft	Latitude:	32° 12' 33.086 N
	+E/-W	0.0 usft	Easting:	2,115,995.58 usft	Longitude:	103° 27' 42.908 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,531.2 usft

Wellbore	JULIET FEDERAL COM 503H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.70	60.25	48,795.28488198

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	176.19

Survey Tool Program		Date	11/8/2019	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,750.6	PWP0 (JULIET FEDERAL COM 503H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
100.0	0.00	0.00	100.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
200.0	0.00	0.00	200.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
300.0	0.00	0.00	300.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
400.0	0.00	0.00	400.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
500.0	0.00	0.00	500.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
600.0	0.00	0.00	600.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
700.0	0.00	0.00	700.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
800.0	0.00	0.00	800.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
900.0	0.00	0.00	900.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,695,056.92	2,115,995.58	32° 12' 33.086 N	103° 27' 42.908 W
2,100.0	1.00	58.50	2,100.0	0.5	0.7	11,695,057.39	2,115,996.31	32° 12' 33.090 N	103° 27' 42.899 W
2,200.0	2.00	58.50	2,200.0	1.8	3.0	11,695,058.79	2,115,998.53	32° 12' 33.104 N	103° 27' 42.873 W
2,300.0	3.00	58.50	2,299.9	4.1	6.7	11,695,061.12	2,116,002.21	32° 12' 33.127 N	103° 27' 42.830 W
2,400.0	4.00	58.50	2,399.7	7.3	11.9	11,695,064.38	2,116,007.37	32° 12' 33.158 N	103° 27' 42.769 W
2,500.0	5.00	58.50	2,499.4	11.4	18.6	11,695,068.58	2,116,014.00	32° 12' 33.199 N	103° 27' 42.692 W
2,600.0	5.00	58.50	2,599.0	15.9	26.0	11,695,073.24	2,116,021.37	32° 12' 33.244 N	103° 27' 42.605 W
2,700.0	5.00	58.50	2,698.6	20.5	33.5	11,695,077.90	2,116,028.73	32° 12' 33.289 N	103° 27' 42.519 W
2,800.0	5.00	58.50	2,798.2	25.1	40.9	11,695,082.56	2,116,036.10	32° 12' 33.334 N	103° 27' 42.432 W
2,900.0	5.00	58.50	2,897.8	29.6	48.3	11,695,087.22	2,116,043.46	32° 12' 33.379 N	103° 27' 42.346 W
3,000.0	5.00	58.50	2,997.5	34.2	55.7	11,695,091.88	2,116,050.83	32° 12' 33.424 N	103° 27' 42.259 W
3,100.0	5.00	58.50	3,097.1	38.7	63.2	11,695,096.54	2,116,058.19	32° 12' 33.469 N	103° 27' 42.173 W
3,200.0	5.00	58.50	3,196.7	43.3	70.6	11,695,101.20	2,116,065.56	32° 12' 33.514 N	103° 27' 42.086 W
3,300.0	5.00	58.50	3,296.3	47.8	78.0	11,695,105.86	2,116,072.92	32° 12' 33.559 N	103° 27' 42.000 W
3,400.0	5.00	58.50	3,395.9	52.4	85.5	11,695,110.52	2,116,080.29	32° 12' 33.604 N	103° 27' 41.913 W
3,500.0	5.00	58.50	3,495.6	56.9	92.9	11,695,115.18	2,116,087.66	32° 12' 33.649 N	103° 27' 41.827 W
3,600.0	5.00	58.50	3,595.2	61.5	100.3	11,695,119.84	2,116,095.02	32° 12' 33.694 N	103° 27' 41.740 W
3,700.0	5.00	58.50	3,694.8	66.0	107.8	11,695,124.50	2,116,102.39	32° 12' 33.740 N	103° 27' 41.654 W
3,800.0	5.00	58.50	3,794.4	70.6	115.2	11,695,129.16	2,116,109.75	32° 12' 33.785 N	103° 27' 41.567 W
3,900.0	5.00	58.50	3,894.0	75.1	122.6	11,695,133.81	2,116,117.12	32° 12' 33.830 N	103° 27' 41.480 W
4,000.0	5.00	58.50	3,993.7	79.7	130.1	11,695,138.47	2,116,124.48	32° 12' 33.875 N	103° 27' 41.394 W
4,100.0	5.00	58.50	4,093.3	84.3	137.5	11,695,143.13	2,116,131.85	32° 12' 33.920 N	103° 27' 41.307 W
4,200.0	5.00	58.50	4,192.9	88.8	144.9	11,695,147.79	2,116,139.21	32° 12' 33.965 N	103° 27' 41.221 W
4,300.0	5.00	58.50	4,292.5	93.4	152.4	11,695,152.45	2,116,146.58	32° 12' 34.010 N	103° 27' 41.134 W
4,400.0	5.00	58.50	4,392.1	97.9	159.8	11,695,157.11	2,116,153.94	32° 12' 34.055 N	103° 27' 41.048 W
4,500.0	5.00	58.50	4,491.8	102.5	167.2	11,695,161.77	2,116,161.31	32° 12' 34.100 N	103° 27' 40.961 W
4,600.0	5.00	58.50	4,591.4	107.0	174.6	11,695,166.43	2,116,168.67	32° 12' 34.145 N	103° 27' 40.875 W
4,700.0	5.00	58.50	4,691.0	111.6	182.1	11,695,171.09	2,116,176.04	32° 12' 34.190 N	103° 27' 40.788 W
4,800.0	5.00	58.50	4,790.6	116.1	189.5	11,695,175.75	2,116,183.40	32° 12' 34.235 N	103° 27' 40.702 W
4,900.0	5.00	58.50	4,890.2	120.7	196.9	11,695,180.41	2,116,190.77	32° 12' 34.280 N	103° 27' 40.615 W
5,000.0	5.00	58.50	4,989.9	125.2	204.4	11,695,185.07	2,116,198.14	32° 12' 34.325 N	103° 27' 40.529 W
5,100.0	5.00	58.50	5,089.5	129.8	211.8	11,695,189.73	2,116,205.50	32° 12' 34.370 N	103° 27' 40.442 W
5,200.0	5.00	58.50	5,189.1	134.3	219.2	11,695,194.39	2,116,212.87	32° 12' 34.416 N	103° 27' 40.356 W
5,300.0	5.00	58.50	5,288.7	138.9	226.7	11,695,199.05	2,116,220.23	32° 12' 34.461 N	103° 27' 40.269 W
5,400.0	5.00	58.50	5,388.3	143.5	234.1	11,695,203.71	2,116,227.60	32° 12' 34.506 N	103° 27' 40.183 W
5,500.0	5.00	58.50	5,487.9	148.0	241.5	11,695,208.37	2,116,234.96	32° 12' 34.551 N	103° 27' 40.096 W
5,600.0	5.00	58.50	5,587.6	152.6	249.0	11,695,213.03	2,116,242.33	32° 12' 34.596 N	103° 27' 40.010 W
5,700.0	5.00	58.50	5,687.2	157.1	256.4	11,695,217.69	2,116,249.69	32° 12' 34.641 N	103° 27' 39.923 W
5,800.0	5.00	58.50	5,786.8	161.7	263.8	11,695,222.35	2,116,257.06	32° 12' 34.686 N	103° 27' 39.837 W
5,900.0	5.00	58.50	5,886.4	166.2	271.3	11,695,227.01	2,116,264.42	32° 12' 34.731 N	103° 27' 39.750 W
6,000.0	5.00	58.50	5,986.0	170.8	278.7	11,695,231.67	2,116,271.79	32° 12' 34.776 N	103° 27' 39.664 W
6,100.0	5.00	58.50	6,085.7	175.3	286.1	11,695,236.33	2,116,279.15	32° 12' 34.821 N	103° 27' 39.577 W
6,200.0	5.00	58.50	6,185.3	179.9	293.5	11,695,240.99	2,116,286.52	32° 12' 34.866 N	103° 27' 39.491 W
6,300.0	5.00	58.50	6,284.9	184.4	301.0	11,695,245.65	2,116,293.88	32° 12' 34.911 N	103° 27' 39.404 W
6,400.0	5.00	58.50	6,384.5	189.0	308.4	11,695,250.31	2,116,301.25	32° 12' 34.958 N	103° 27' 39.318 W
6,500.0	5.00	58.50	6,484.1	193.5	315.8	11,695,254.97	2,116,308.61	32° 12' 35.001 N	103° 27' 39.231 W
6,600.0	5.00	58.50	6,583.8	198.1	323.3	11,695,259.63	2,116,315.98	32° 12' 35.046 N	103° 27' 39.145 W

Centennial Resource Dev
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	5.00	58.50	6,683.4	202.7	330.7	11,695,264.29	2,116,323.35	32° 12' 35.092 N	103° 27' 39.058 W
6,800.0	5.00	58.50	6,783.0	207.2	338.1	11,695,268.95	2,116,330.71	32° 12' 35.137 N	103° 27' 38.972 W
6,900.0	5.00	58.50	6,882.6	211.8	345.6	11,695,273.61	2,116,338.08	32° 12' 35.182 N	103° 27' 38.885 W
7,000.0	5.00	58.50	6,982.2	216.3	353.0	11,695,278.27	2,116,345.44	32° 12' 35.227 N	103° 27' 38.799 W
7,100.0	5.00	58.50	7,081.9	220.9	360.4	11,695,282.93	2,116,352.81	32° 12' 35.272 N	103° 27' 38.712 W
7,200.0	5.00	58.50	7,181.5	225.4	367.9	11,695,287.59	2,116,360.17	32° 12' 35.317 N	103° 27' 38.626 W
7,300.0	5.00	58.50	7,281.1	230.0	375.3	11,695,292.25	2,116,367.54	32° 12' 35.362 N	103° 27' 38.539 W
7,400.0	5.00	58.50	7,380.7	234.5	382.7	11,695,296.91	2,116,374.90	32° 12' 35.407 N	103° 27' 38.453 W
7,500.0	5.00	58.50	7,480.3	239.1	390.2	11,695,301.57	2,116,382.27	32° 12' 35.452 N	103° 27' 38.366 W
7,600.0	5.00	58.50	7,580.0	243.6	397.6	11,695,306.23	2,116,389.63	32° 12' 35.497 N	103° 27' 38.280 W
7,700.0	5.00	58.50	7,679.6	248.2	405.0	11,695,310.89	2,116,397.00	32° 12' 35.542 N	103° 27' 38.193 W
7,800.0	5.00	58.50	7,779.2	252.7	412.4	11,695,315.55	2,116,404.36	32° 12' 35.587 N	103° 27' 38.107 W
7,900.0	5.00	58.50	7,878.8	257.3	419.9	11,695,320.21	2,116,411.73	32° 12' 35.632 N	103° 27' 38.020 W
8,000.0	5.00	58.50	7,978.4	261.9	427.3	11,695,324.87	2,116,419.09	32° 12' 35.677 N	103° 27' 37.934 W
8,100.0	5.00	58.50	8,078.1	266.4	434.7	11,695,329.52	2,116,426.46	32° 12' 35.722 N	103° 27' 37.847 W
8,200.0	5.00	58.50	8,177.7	271.0	442.2	11,695,334.18	2,116,433.83	32° 12' 35.768 N	103° 27' 37.761 W
8,300.0	5.00	58.50	8,277.3	275.5	449.6	11,695,338.84	2,116,441.19	32° 12' 35.813 N	103° 27' 37.674 W
8,400.0	5.00	58.50	8,376.9	280.1	457.0	11,695,343.50	2,116,448.56	32° 12' 35.858 N	103° 27' 37.588 W
8,500.0	5.00	58.50	8,476.5	284.6	464.5	11,695,348.16	2,116,455.92	32° 12' 35.903 N	103° 27' 37.501 W
8,550.0	5.00	58.50	8,526.3	286.9	468.2	11,695,350.49	2,116,459.60	32° 12' 35.925 N	103° 27' 37.458 W
8,600.0	4.50	58.50	8,576.2	289.1	471.7	11,695,352.71	2,116,463.10	32° 12' 35.947 N	103° 27' 37.417 W
8,700.0	3.50	58.50	8,675.9	292.7	477.7	11,695,356.44	2,116,469.00	32° 12' 35.983 N	103° 27' 37.348 W
8,800.0	2.50	58.50	8,775.8	295.4	482.1	11,695,359.24	2,116,473.42	32° 12' 36.010 N	103° 27' 37.296 W
8,900.0	1.50	58.50	8,875.7	297.3	485.1	11,695,361.10	2,116,476.37	32° 12' 36.028 N	103° 27' 37.261 W
9,000.0	0.50	58.50	8,975.7	298.2	486.6	11,695,362.03	2,116,477.84	32° 12' 36.037 N	103° 27' 37.244 W
9,050.0	0.00	0.00	9,025.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,100.0	0.00	0.00	9,075.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,200.0	0.00	0.00	9,175.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,300.0	0.00	0.00	9,275.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,400.0	0.00	0.00	9,375.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,500.0	0.00	0.00	9,475.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,600.0	0.00	0.00	9,575.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,700.0	0.00	0.00	9,675.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,800.0	0.00	0.00	9,775.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
9,900.0	0.00	0.00	9,875.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,000.0	0.00	0.00	9,975.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,100.0	0.00	0.00	10,075.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,200.0	0.00	0.00	10,175.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,300.0	0.00	0.00	10,275.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,400.0	0.00	0.00	10,375.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,500.0	0.00	0.00	10,475.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,600.0	0.00	0.00	10,575.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,700.0	0.00	0.00	10,675.7	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,701.5	0.00	0.00	10,677.2	298.3	486.8	11,695,362.15	2,116,478.03	32° 12' 36.038 N	103° 27' 37.242 W
10,800.0	9.85	180.97	10,775.2	289.8	486.6	11,695,353.70	2,116,478.01	32° 12' 35.954 N	103° 27' 37.243 W
10,900.0	19.86	180.97	10,871.8	264.2	486.2	11,695,328.10	2,116,477.94	32° 12' 35.701 N	103° 27' 37.248 W
11,000.0	29.86	180.97	10,962.4	222.3	485.5	11,695,286.12	2,116,477.83	32° 12' 35.286 N	103° 27' 37.257 W
11,100.0	39.86	180.97	11,044.3	165.2	484.5	11,695,229.03	2,116,477.68	32° 12' 34.721 N	103° 27' 37.268 W
11,200.0	49.86	180.97	11,115.1	94.8	483.3	11,695,158.58	2,116,477.50	32° 12' 34.024 N	103° 27' 37.282 W
11,300.0	59.87	180.97	11,172.6	13.1	481.9	11,695,076.90	2,116,477.28	32° 12' 33.215 N	103° 27' 37.298 W
11,400.0	69.87	180.97	11,215.0	-77.3	480.4	11,694,986.48	2,116,477.05	32° 12' 32.321 N	103° 27' 37.316 W
11,500.0	79.87	180.97	11,241.1	-173.7	478.8	11,694,890.07	2,116,476.79	32° 12' 31.367 N	103° 27' 37.335 W
11,600.0	89.88	180.97	11,250.0	-273.2	477.1	11,694,790.60	2,116,476.53	32° 12' 30.382 N	103° 27' 37.354 W
11,601.2	90.00	180.97	11,250.0	-274.4	477.1	11,694,789.36	2,116,476.53	32° 12' 30.370 N	103° 27' 37.355 W
11,700.0	90.00	180.89	11,250.0	-373.2	475.5	11,694,690.60	2,116,476.34	32° 12' 29.393 N	103° 27' 37.373 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,800.0	90.00	180.82	11,250.0	-473.2	474.0	11,694,590.60	2,116,476.27	32° 12' 28.403 N	103° 27' 37.391 W
11,900.0	90.00	180.74	11,250.0	-573.1	472.6	11,694,490.60	2,116,476.35	32° 12' 27.414 N	103° 27' 37.407 W
12,000.0	90.00	180.66	11,250.0	-673.1	471.4	11,694,390.60	2,116,476.55	32° 12' 26.424 N	103° 27' 37.421 W
12,100.0	90.00	180.59	11,250.0	-773.1	470.3	11,694,290.60	2,116,476.90	32° 12' 25.435 N	103° 27' 37.434 W
12,200.0	90.00	180.51	11,250.0	-873.1	469.3	11,694,190.60	2,116,477.37	32° 12' 24.445 N	103° 27' 37.445 W
12,300.0	90.00	180.43	11,250.0	-973.1	468.5	11,694,090.60	2,116,477.98	32° 12' 23.455 N	103° 27' 37.454 W
12,400.0	90.00	180.35	11,250.0	-1,073.1	467.8	11,693,990.61	2,116,478.73	32° 12' 22.466 N	103° 27' 37.462 W
12,500.0	90.00	180.28	11,250.0	-1,173.1	467.3	11,693,890.61	2,116,479.60	32° 12' 21.476 N	103° 27' 37.469 W
12,600.0	90.00	180.20	11,250.0	-1,273.1	466.9	11,693,790.62	2,116,480.62	32° 12' 20.486 N	103° 27' 37.474 W
12,700.0	90.00	180.12	11,250.0	-1,373.1	466.6	11,693,690.62	2,116,481.77	32° 12' 19.497 N	103° 27' 37.477 W
12,800.0	90.00	180.05	11,250.0	-1,473.1	466.4	11,693,590.63	2,116,483.05	32° 12' 18.507 N	103° 27' 37.479 W
12,900.0	90.00	179.97	11,250.0	-1,573.1	466.4	11,693,490.64	2,116,484.46	32° 12' 17.517 N	103° 27' 37.479 W
13,000.0	90.00	179.89	11,250.0	-1,673.1	466.5	11,693,390.65	2,116,486.01	32° 12' 16.528 N	103° 27' 37.477 W
13,100.0	90.00	179.82	11,250.0	-1,773.1	466.8	11,693,290.67	2,116,487.70	32° 12' 15.538 N	103° 27' 37.475 W
13,200.0	90.00	179.74	11,250.0	-1,873.1	467.2	11,693,190.68	2,116,489.52	32° 12' 14.548 N	103° 27' 37.470 W
13,218.8	90.00	179.72	11,250.0	-1,891.9	467.3	11,693,171.88	2,116,489.88	32° 12' 14.362 N	103° 27' 37.469 W
13,300.0	90.00	179.72	11,250.0	-1,973.1	467.7	11,693,090.70	2,116,491.43	32° 12' 13.559 N	103° 27' 37.464 W
13,400.0	90.00	179.72	11,250.0	-2,073.1	468.1	11,692,990.72	2,116,493.34	32° 12' 12.569 N	103° 27' 37.459 W
13,500.0	90.00	179.72	11,250.0	-2,173.1	468.6	11,692,890.74	2,116,495.25	32° 12' 11.580 N	103° 27' 37.453 W
13,600.0	90.00	179.72	11,250.0	-2,273.1	469.1	11,692,790.76	2,116,497.16	32° 12' 10.590 N	103° 27' 37.448 W
13,700.0	90.00	179.72	11,250.0	-2,373.1	469.6	11,692,690.77	2,116,499.08	32° 12' 9.600 N	103° 27' 37.442 W
13,800.0	90.00	179.72	11,250.0	-2,473.1	470.1	11,692,590.79	2,116,500.99	32° 12' 8.611 N	103° 27' 37.437 W
13,900.0	90.00	179.72	11,250.0	-2,573.1	470.5	11,692,490.81	2,116,502.90	32° 12' 7.621 N	103° 27' 37.431 W
14,000.0	90.00	179.72	11,250.0	-2,673.1	471.0	11,692,390.83	2,116,504.81	32° 12' 6.631 N	103° 27' 37.425 W
14,100.0	90.00	179.72	11,250.0	-2,773.1	471.5	11,692,290.85	2,116,506.72	32° 12' 5.642 N	103° 27' 37.420 W
14,200.0	90.00	179.72	11,250.0	-2,873.1	472.0	11,692,190.87	2,116,508.63	32° 12' 4.652 N	103° 27' 37.414 W
14,300.0	90.00	179.72	11,250.0	-2,973.1	472.5	11,692,090.88	2,116,510.55	32° 12' 3.662 N	103° 27' 37.409 W
14,400.0	90.00	179.72	11,250.0	-3,073.1	472.9	11,691,990.90	2,116,512.46	32° 12' 2.673 N	103° 27' 37.403 W
14,500.0	90.00	179.72	11,250.0	-3,173.1	473.4	11,691,890.92	2,116,514.37	32° 12' 1.683 N	103° 27' 37.397 W
14,600.0	90.00	179.72	11,250.0	-3,273.1	473.9	11,691,790.94	2,116,516.28	32° 12' 0.693 N	103° 27' 37.392 W
14,700.0	90.00	179.72	11,250.0	-3,373.1	474.4	11,691,690.96	2,116,518.19	32° 11' 59.704 N	103° 27' 37.386 W
14,800.0	90.00	179.72	11,250.0	-3,473.1	474.9	11,691,590.98	2,116,520.11	32° 11' 58.714 N	103° 27' 37.381 W
14,900.0	90.00	179.72	11,250.0	-3,573.1	475.4	11,691,490.99	2,116,522.02	32° 11' 57.724 N	103° 27' 37.375 W
15,000.0	90.00	179.72	11,250.0	-3,673.1	475.8	11,691,391.01	2,116,523.93	32° 11' 56.735 N	103° 27' 37.370 W
15,100.0	90.00	179.72	11,250.0	-3,773.1	476.3	11,691,291.03	2,116,525.84	32° 11' 55.745 N	103° 27' 37.364 W
15,200.0	90.00	179.72	11,250.0	-3,873.1	476.8	11,691,191.05	2,116,527.75	32° 11' 54.756 N	103° 27' 37.358 W
15,300.0	90.00	179.72	11,250.0	-3,973.1	477.3	11,691,091.07	2,116,529.66	32° 11' 53.766 N	103° 27' 37.353 W
15,400.0	90.00	179.72	11,250.0	-4,073.1	477.8	11,690,991.08	2,116,531.58	32° 11' 52.776 N	103° 27' 37.347 W
15,500.0	90.00	179.72	11,250.0	-4,173.1	478.2	11,690,891.10	2,116,533.49	32° 11' 51.787 N	103° 27' 37.342 W
15,600.0	90.00	179.72	11,250.0	-4,273.1	478.7	11,690,791.12	2,116,535.40	32° 11' 50.797 N	103° 27' 37.336 W
15,700.0	90.00	179.72	11,250.0	-4,373.1	479.2	11,690,691.14	2,116,537.31	32° 11' 49.807 N	103° 27' 37.330 W
15,800.0	90.00	179.72	11,250.0	-4,473.1	479.7	11,690,591.16	2,116,539.22	32° 11' 48.818 N	103° 27' 37.325 W
15,900.0	90.00	179.72	11,250.0	-4,573.1	480.2	11,690,491.18	2,116,541.14	32° 11' 47.828 N	103° 27' 37.319 W
16,000.0	90.00	179.72	11,250.0	-4,673.1	480.6	11,690,391.19	2,116,543.05	32° 11' 46.838 N	103° 27' 37.314 W
16,100.0	90.00	179.72	11,250.0	-4,773.1	481.1	11,690,291.21	2,116,544.96	32° 11' 45.849 N	103° 27' 37.308 W
16,200.0	90.00	179.72	11,250.0	-4,873.1	481.6	11,690,191.23	2,116,546.87	32° 11' 44.859 N	103° 27' 37.302 W
16,300.0	90.00	179.72	11,250.0	-4,973.1	482.1	11,690,091.25	2,116,548.78	32° 11' 43.869 N	103° 27' 37.297 W
16,400.0	90.00	179.72	11,250.0	-5,073.1	482.6	11,689,991.27	2,116,550.69	32° 11' 42.880 N	103° 27' 37.291 W
16,500.0	90.00	179.72	11,250.0	-5,173.1	483.0	11,689,891.29	2,116,552.61	32° 11' 41.890 N	103° 27' 37.286 W
16,600.0	90.00	179.72	11,250.0	-5,273.1	483.5	11,689,791.30	2,116,554.52	32° 11' 40.900 N	103° 27' 37.280 W
16,700.0	90.00	179.72	11,250.0	-5,373.1	484.0	11,689,691.32	2,116,556.43	32° 11' 39.911 N	103° 27' 37.275 W
16,800.0	90.00	179.72	11,250.0	-5,473.1	484.5	11,689,591.34	2,116,558.34	32° 11' 38.921 N	103° 27' 37.269 W
16,900.0	90.00	179.72	11,250.0	-5,573.1	485.0	11,689,491.36	2,116,560.25	32° 11' 37.932 N	103° 27' 37.263 W
17,000.0	90.00	179.72	11,250.0	-5,673.1	485.4	11,689,391.38	2,116,562.17	32° 11' 36.942 N	103° 27' 37.258 W
17,100.0	90.00	179.72	11,250.0	-5,773.1	485.9	11,689,291.40	2,116,564.08	32° 11' 35.952 N	103° 27' 37.252 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JULIET FEDERAL COM 503H
Project:	LEA	TVD Reference:	RKB=3531.2+25 @ 3556.2usft
Site:	JULIET FEDERAL COM	MD Reference:	RKB=3531.2+25 @ 3556.2usft
Well:	JULIET FEDERAL COM 503H	North Reference:	True
Wellbore:	JULIET FEDERAL COM 503H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,200.0	90.00	179.72	11,250.0	-5,873.1	486.4	11,689,191.41	2,116,565.99	32° 11' 34.963 N	103° 27' 37.247 W
17,300.0	90.00	179.72	11,250.0	-5,973.1	486.9	11,689,091.43	2,116,567.90	32° 11' 33.973 N	103° 27' 37.241 W
17,400.0	90.00	179.72	11,250.0	-6,073.1	487.4	11,688,991.45	2,116,569.81	32° 11' 32.983 N	103° 27' 37.235 W
17,500.0	90.00	179.72	11,250.0	-6,173.1	487.9	11,688,891.47	2,116,571.72	32° 11' 31.994 N	103° 27' 37.230 W
17,600.0	90.00	179.72	11,250.0	-6,273.1	488.3	11,688,791.49	2,116,573.64	32° 11' 31.004 N	103° 27' 37.224 W
17,700.0	90.00	179.72	11,250.0	-6,373.1	488.8	11,688,691.51	2,116,575.55	32° 11' 30.014 N	103° 27' 37.219 W
17,800.0	90.00	179.72	11,250.0	-6,473.1	489.3	11,688,591.52	2,116,577.46	32° 11' 29.025 N	103° 27' 37.213 W
17,900.0	90.00	179.72	11,250.0	-6,573.1	489.8	11,688,491.54	2,116,579.37	32° 11' 28.035 N	103° 27' 37.208 W
18,000.0	90.00	179.72	11,250.0	-6,673.1	490.3	11,688,391.56	2,116,581.28	32° 11' 27.045 N	103° 27' 37.202 W
18,100.0	90.00	179.72	11,250.0	-6,773.1	490.7	11,688,291.58	2,116,583.20	32° 11' 26.056 N	103° 27' 37.196 W
18,200.0	90.00	179.72	11,250.0	-6,873.1	491.2	11,688,191.60	2,116,585.11	32° 11' 25.066 N	103° 27' 37.191 W
18,300.0	90.00	179.72	11,250.0	-6,973.1	491.7	11,688,091.61	2,116,587.02	32° 11' 24.076 N	103° 27' 37.185 W
18,400.0	90.00	179.72	11,250.0	-7,073.1	492.2	11,687,991.63	2,116,588.93	32° 11' 23.087 N	103° 27' 37.180 W
18,500.0	90.00	179.72	11,250.0	-7,173.1	492.7	11,687,891.65	2,116,590.84	32° 11' 22.097 N	103° 27' 37.174 W
18,600.0	90.00	179.72	11,250.0	-7,273.1	493.1	11,687,791.67	2,116,592.76	32° 11' 21.107 N	103° 27' 37.168 W
18,700.0	90.00	179.72	11,250.0	-7,373.1	493.6	11,687,691.69	2,116,594.67	32° 11' 20.118 N	103° 27' 37.163 W
18,750.8	90.00	179.72	11,250.0	-7,423.8	493.9	11,687,640.94	2,116,595.64	32° 11' 19.616 N	103° 27' 37.160 W

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP/BHL - JULIET FED	0.00	0.00	11,250.0	-7,423.8	493.9	11,687,640.94	2,116,595.64	32° 11' 19.616 N	103° 27' 37.160 W
- plan hits target center									
- Point									
FTP - JULIET FED COM	0.00	0.00	11,250.0	299.4	486.5	11,695,363.23	2,116,477.75	32° 12' 36.049 N	103° 27' 37.245 W
- plan misses target center by 238.0usft at 11151.2usft MD (11082.1 TVD, 130.7 N, 483.9 E)									
- Circle (radius 50.0)									

Checked By: _____ Approved By: _____ Date: _____

NEW MEXICO

LEA

JULIET FEDERAL COM

JULIET FEDERAL COM 503H

JULIET FEDERAL COM 503H

PWP0

Anticollision Summary Report

11 November, 2019

Size	5.5
Grade	P110 RY
Weight	20

TCBC-HT

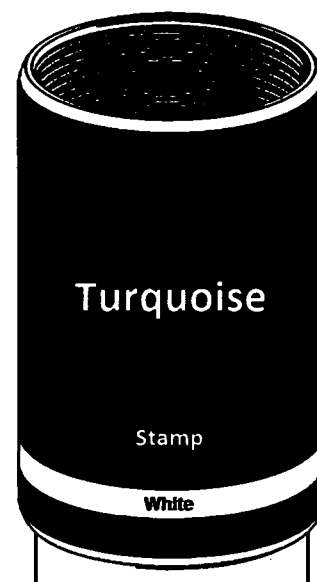
SeAH Steel

Coupling and Pipe Dimensions (in)						
	Outer Diameter	Inner Diameter	Coupling Length	Make-up Loss	Wall Thickness	Drift Diameter
Coupling	6.300	5.383				
Pipe		4.778	8.250	4.125	0.361	4.653
Pin		4.778				

Torque Values (ft-lbs)				
Field End Make-Up			Max. Working Torque ¹	Yield Torque
Minimum	Optimum ²	Maximum		
10,000	13,500	18,500	22,250	25,200

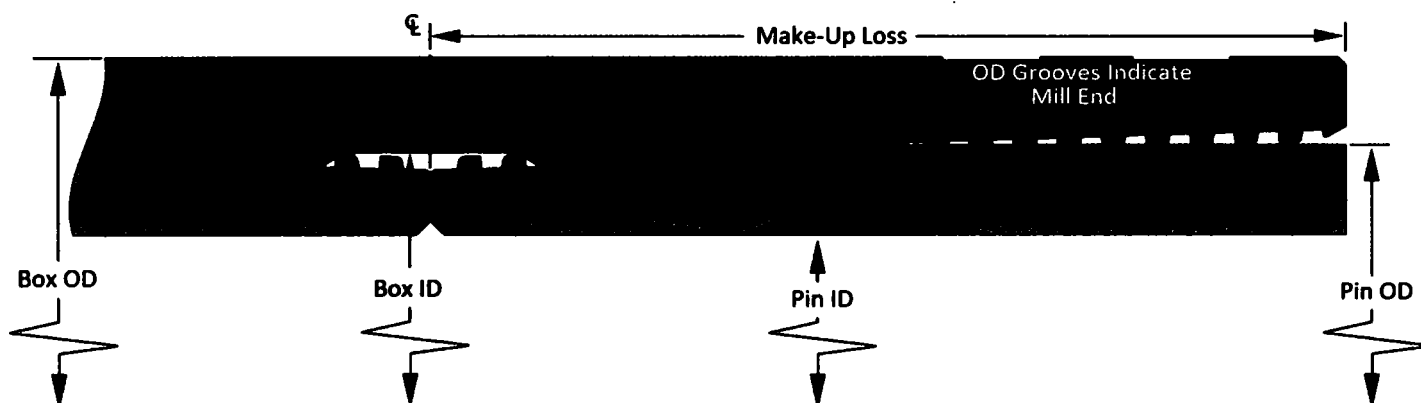
Yield Stress (x1000 lbs.)	
Tensile	Compressive
100%	100%

Maximum Pressure (psi)	
Internal	External
100%	100%



¹ Max. Working Torque value is not to be exceeded during operation.

² If Optimum Torque does not meet the Base of Triangle Stamp, M/U to the Base of Triangle.



*Data are for information purposes only. Though HIS has made efforts to ensure accuracy, HIS makes no warranty for loss or damage due to its use.

Rev 0

19996 Hickory Twig Way Spring, TX 77388
Phone: (281) 602-7550
Fax: (281) 602-7557

SeAH

5.5" 20# .361" P-110 Restricted Yield (RY)

Dimensions (Nominal)

Outside Diameter	5.500	in.
Wall	0.361	in.
Inside Diameter	4.778	in.
Drift	4.653	in.
Weight, T&C	20.000	lbs/ft
Weight, PE	19.830	lbs/ft

Performance Properties (Minimum)

Minimum Yield Strength	110000	psi
Maximum Yield Strength	125000	psi
Collapse, PE	11100	psi
Internal Yield Pressure		
PE	12630	psi
LTC	12360	psi
BTC	12360	psi
Yield Strength, Pipe Body	641	1000 lbs
Joint Strength		
LTC	548	1000 lbs
BTC	667	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CENTENNIAL RESOURCE PRODUCTION
LEASE NO.:	NMNM077090
WELL NAME & NO.:	JULIET FEDERAL COM 503H
SURFACE HOLE FOOTAGE:	400'/N & 1383'/W
BOTTOM HOLE FOOTAGE:	2548'/N & 1870'/W
LOCATION:	Section 22, T.24 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

All previous COAs still apply, except for the following:

A. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 1,350 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that

string.

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

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string.
Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.