

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.***HOBBS OCD****SUBMIT IN TRIPLICATE - Other instructions on page 2****JUN 27 2018****RECEIVED**5. Lease Serial No.
NMLC069515

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Multiple--See Attached **30-02542560**9. API Well No.
Multiple--See Attached10. Field and Pool or Exploratory Area
Multiple--See Attached11. County or Parish, State
LEA COUNTY, NM**12. CHECK THE APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA****Carlsbad Field Office**
OCD Hobbs

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

- ☐
- Acidize
-
- ☐
- Alter Casing
-
- ☐
- Casing Repair
-
- ☐
- Change Plans
-
- ☐
- Convert to Injection

- ☐
- Deepen
-
- ☐
- Hydraulic Fracturing
-
- ☐
- New Construction
-
- ☐
- Plug and Abandon
-
- ☐
- Plug Back

- ☐
- Production (Start/Resume)
-
- ☐
- Reclamation
-
- ☐
- Recomplete
-
- ☐
- Temporarily Abandon
-
- ☐
- Water Disposal

- ☐
- Water Shut-Off
-
- ☐
- Well Integrity
-
- ☒
- Other
-
- Change to Original A
-
- 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 recompletable 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 recompletable 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.

ConocoPhillips request the following changes to our plans:

~~Zia Hills 25E Fed Com 402H API# 30-025-43364~~
Change in target depth
Change in cementing programs
For changes see attached one-page summary for this well

Zia Hills 25E Fed Com 402H API# 30-025-43364
Change in cementing programs
For changes see attached one-page summary for this well

Zia Hills 25E Fed Com 403H API# 30-025-43377

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Electronic Submission #422699 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/11/2018 (18PP1215SE)

Name (Printed/Typed) JEREMY LEE

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 06/05/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 06/19/2018

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 Hobbs

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 ****

Additional data for EC transaction #422699 that would not fit on the form

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMLC069515	NMLC069515	ZIA HILLS 25E FED COM 401H	30-025-42560-00-X1	Sec 25 T26S R32E NWNE 250FNL 2310FEL 32.011286 N Lat, 103.373820 W Lon
NMLC069515	NMLC069515	ZIA HILLS 25E FED COM 402H	30-025-43364-00-X1	Sec 25 T26S R32E NWNE 283FNL 2310FEL 32.011253 N Lat, 103.373820 W Lon
NMLC069515	NMLC069515	ZIA HILLS 25E FED COM 403H	30-025-43377-00-X1	Sec 25 T25S R32E NWNE 316FNL 2310FEL 32.011220 N Lat, 103.373820 W Lon
NMLC069515	NMLC069515	ZIA HILLS 25E FED COM 404H	30-025-43363-00-X1	Sec 25 T26S R32E NWNE 349FNL 2310FEL 32.011188 N Lat, 103.373820 W Lon

10. Field and Pool, continued

WILDCAT;WOLFCAMP

32. Additional remarks, continued

Change in cementing programs
For changes see attached one-page summary for this well

Zia Hills 25E Fed Com 404H API# 30-025-43363
Change in cementing programs
For changes see attached one-page summary for this well

Per our conversation with Z.Stevens set surface casing at least 25' into the Rustler

Thank you.



WELL PLAN SUMMARY

1280 Extended Reach Single Lateral

Date: Jun 05, 2018
Version: 1
Prepared by: M. Smith

WELL: **Zia Hills 25E Fed Com 401H**

COUNTY/STATE: Lea, Co, NM

API No.:

BLM Permit:

AFE: WAF OND.

Drilling Network No.:

Invoice Handler ID: VENNECP

COST ESTIMATE

DRILLING

COMPLETION

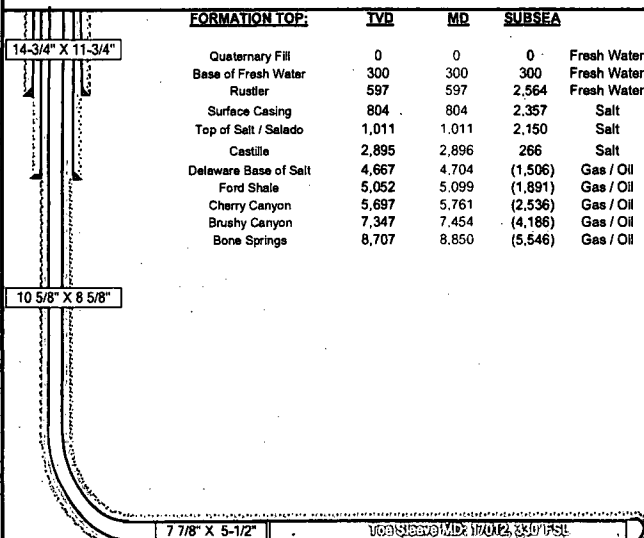
FACILITIES

TOTAL

SURFACE LOC: NWNE 25-T26S-R32E 250' FNL 2310' FEL
BH LOC: SENE 36-T26S-R32E 50' FSL 330' FEL

ELEVATIONS: GL 3,134.0'
KB +27.0'

WH Coord.: LAT 32° 1' 12.41" N
(NAD-27) LON 103° 37' 36.51" W



Notes

- 1) Ensure proper notifications are made to BLM
A) Spud Notice - 24 hours before spud
B) Running / Cementing all strings of casing - 4 hours
C) BOP Tests - 4 hours
- 2) BOP Tests to be completed according to Onshore Order 2.
A) 10 min high/low tests
3) H2S equipment will be rigged up and functional, 500' before Delaware formation. If H2S is encountered, Onshore Order 6 along with ConocoPhillips H2S plan will be followed.

CONTACTS

Drilling Engineer: Matt Smith

Geologist: Josh Day
Onsite Drilling Rep.: Greg Rivera
Dennis Hously
Drilling Supt.: Scott Nicholson

Office	Cell
281-206-5199	432-269-6432
281-206-5620	423-512-0347
432-234-9399	
432-688-9065	432-230-8010

Estimated BH Static Temperature (°F): 199
Max. Anticipated BH Pressure: 0.550 psi/ft 5,463 psi
Max Anticipated Surface Pressure: 3,278 psi

DRILLING FLUID:	Type	Interval (MD)	Density (ppg)	Via	PV (cP)	YP (#/100ft ²)	pH	FL (mL)	LGS (% by vol)	NaCl (ppb sol)	Remarks
Surface:	Fresh Water	Surface - 804'	8.6	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	10,000	Rig Tanks/Closed Loop
Intermediate:	Brine	804' - 4900'	10	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	180,000	Rig Tanks/Closed Loop
Production:	Cut Brine	4900' - 17292'	9.2	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	180,000	Rig Tanks/Closed Loop

Reference Drilling Fluids Program

CASING:	Hole	TOP (MD)	BTM (MD)	Length	Size	Wt	Grade	Connection	BOP:
Surface:	14 3/4"	27'	804'	777'	11 3/4"	47.00	J-55	BTC	Minimum - COP Class 3 Well Control Requirements Rig - 13-5/8"x10M psi Rams / 4-1/16"x10M psi Manifold.
Contingency									Stackup - Rotating Head, Annular Preventer, Pipe Ram, Blind Ram, Mud Cross (Choke & Kill Valves), Pipe Ram
Intermediate:	10 5/8"	27'	4,900'	4,873'	8 5/8"	32.00	P-110	BTC	
Production:	7 7/8"	27'	17,292'	17,265'	5 1/2"	23.00	P-110	TXP	
CENTRALIZATION: Surface Casing: 1 per joint on first 3 joints Shoe joint. 1 per joint where DLS > 0.6 "/100' Intermediate Casing: Rigid body, 1 every other joint from TD to estimated TOC, 1 every 4 joints above TOC Production Liner:									Mud Pit: Float Based Electronic PVT with Flow Sensor and Gravity Trip Tank, Alarms +/- 10 BBLS Wellhead: 13-5/8" x 10M psi (Casing Head - "A" Section)

CEMENT:	Hole	MD	TVD	Spacer	Lead	Tail	COMMENTS
Surface:	14-3/4"x11-3/4"	804'	804'	20 bbl FW	220 ex Class C + adds 12 ppg 2.414ft ³ /sk	420 ex Class C+ adds 14.8 ppg 1.33 ft ³ /sk	Cemented to surface w/ 200%XS Add FiberBlock
Intermediate:	10-5/8"x8-5/8"	4,900'	4,825'	40 bbl Spacer	310 ex TXI Lite Weight + adds 11.5 ppg 4.038 ft ³ /sk	340 ex Class C adds 14.8 ppg 1.328 ft ³ /sk	Cemented to surface w/ 70%L / 30%T XS calc'd on 10.625" hole Add FiberBlock
Production:	7-7/8"x5-1/2"	17,292'	9,933'	40 bbl spacer	237 sk TXI Lite Weight + adds 10.5 ppg 4.034ft ³ /sk	522.83454 ex Class C + adds 14.4 ppg 1.217ft ³ /sk	Cemented 500' above Int Casing Depth 10% XS calc'd on 7.875" hole

Reference Cementing Recommendation

DIRECTIONAL PLAN:	Comments	MD (ft)	INC (deg)	AZI (deg)	TVD (ft)	NS (ft)	EW (ft)	DLS (°/100')	VS (ft)	SEC-T-R	Section Line Distance
	Build @ 1.5"/100'	900'	0	0	900'	0	0	0	0	25-T26S-R32E	250' FNL 2310' FEL
	End Build @ 14"	1,861'	14	83	1,851'	15	119	1.5	-14	25-T26S-R32E	235' FNL 2191' FEL
	Intermediate Casing	4,900'	14	83	4,797'	106	870	0.0	-100	25-T26S-R32E	144' FNL 1440' FEL
	KOP, Build @ 8"/100'	9,435'	0	0	9,216'	219	1799	0	-206	25-T26S-R32E	31' FNL 511' FEL
	Landing Point	10,560'	90	180	9,933'	-485	1927	8	499	25-T26S-R32E	735' FNL 383' FEL
	Toe Sleeve 2	16,962'	90	180	9,933'	-6883	2030	0	6,897	36-T26S-R32E	380' FSL 330' FEL
	FTP / Toe Sleeve 1	17,012'	90	180	9,933'	-6933	2030	0	6,947	36-T26S-R32E	330' FSL 330' FEL
	PBHLTD	17,292'	90	180	9,933'	-7213	2030	0	7,227	36-T26S-R32E	50' FSL 330' FEL

Reference Directional Plan MWD Surveys will be taken at 90' interval below surface casing, 30' while building curve, and every 90' while drilling lateral.

FORMATION EVALUATION:

Mud Logging - One-Man: First surface hole to TD. First intermediate hole to TD
Mud Logging - Two-Man: All wells. Intermediate Casing Point to TD
Open Hole - PEX None
Cased Hole - GR/CBL/USIT None
MWD - GR Surface Casing Shoe to TD

OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY!



WELL PLAN SUMMARY

1280 Extended Reach Single Lateral

Date: Jun 05, 2018
Version: 1
Prepared by: M. Smith

WELL: Zia Hills 25E Fed Com 402H

COUNTY, STATE: Lea, Co, NM

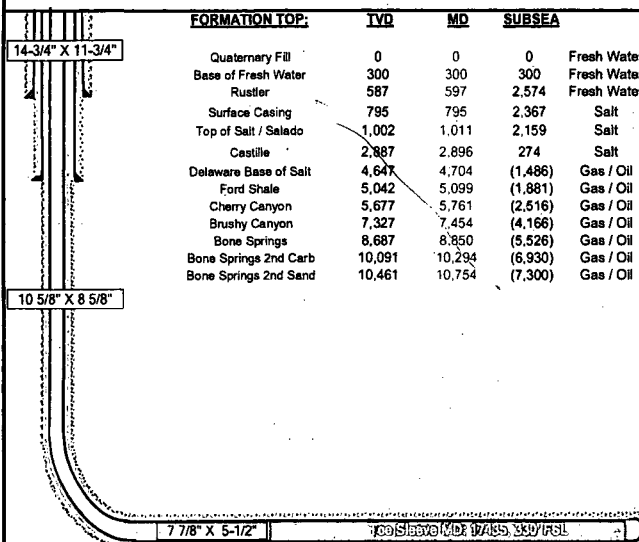
SURFACE LOC: NWNE 25-T26S-R32E 283' FNL 2310' FEL
BH LOC: SENE 36-T26S-R32E 50' FSL 1320' FEL

API No.:
BLM Permit:

AFE: WAF.OND.
Drilling Network No.:
Invoice Handler ID: VENNECP
COST ESTIMATE
DRILLING
COMPLETION
FACILITIES
TOTAL

ELEVATIONS: GL 3,134.0'
KB +27.0'

WH Coord.: LAT 32° 1' 12.08" N
(NAD-27) LON 103° 37' 36.51" W



- ### Notes
- 1) Ensure proper notifications are made to BLM
A) Spud Notice - 24 hours before spud
B) Running / Cementing all strings of casing - 4 hours
C) BOP Tests - 4 hours
 - 2) BOP Tests to be completed according to Onshore Order 2.
A) 10 min high/low tests
 - 3) H2S equipment will be rigged up and functional, 500' before Delaware formation. If H2S is encountered, Onshore Order 6 along with ConocoPhillips H2S plan will be followed.

CONTACTS

	Office	Cell
Drilling Engineer: Matt Smith	281-206-5199	432-269-6432
Geologist: Josh Day	281-206-5620	423-512-0347
Onsite Drilling Rep.: Greg Rivera	432-234-9399	
Dennis Hously		
Drilling Supt.: Scott Nicholson	432-688-9065	432-230-8010

8 5/8 in. shoe 4800' MD
4777' TVD

TARGET 10,530 11,000 (7,369) Gas / Oil
Formation Dip Rate: est > 90° dip
PBDT 10,530 11,000 (7,369) Gas / Oil

Estimated BH Static Temperature (°F): 199
Max. Anticipated BH Pressure: 0.550 psi/ft 5,792 psi
Max Anticipated Surface Pressure: 3,475 psi

DRILLING FLUID:	Type	Interval (MD)	Density ppg	Vis sec/qt	PV cP	YP #100R2	pH	FL mL	LGS % by vol	NaCl ppb sol	Remarks
Surface:	Fresh Water	Surface - 795'	8.6	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	10,000	Rig Tanks/Closed Loop
Intermediate:	Brine	795' - 4800'	10	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	180,000	Rig Tanks/Closed Loop
Production:	Cut Brine	4800' - 17715'	9.2	50-70	18-25	8-14	9.5-10	< 8	< 8.0	400 - 00	Rig Tanks/Closed Loop

Reference Drilling Fluids Program

CASING:	Hole	TOP (MD)	BTM (MD)	Length	Size	Wt	Grade	Connection	BOP:
Surface:	14 3/4"	27'	795'	768'	11 3/4"	47.00	J-55	BTC	Minimum - COP Class 3 Well Control Requirements Rig - 13-5/8"x10M psi Rams / 4-1/16"x10M psi Manifold
Intermediate:	10 5/8"	27'	4,800'	4,773'	8 5/8"	32.00	P-110	BTC	Stackup - Rotating Head, Annular Preventer, Pipe Ram, Blind Ram, Mud Cross (Choke & Kill Valves), Pipe Ram
Production:	7 7/8"	27'	17,715'	17,688'	5 1/2"	23.00	P-110	TXP	

CENTRALIZATION:

Surface Casing: 1 per joint on first 3 joints
Intermediate Casing: Shoe joint, 1 per joint where DLS > 0.6 °/100'
Production Liner: Rigid body, 1 every other joint from TD to estimated TOC, 1 every 4 joints above TOC

Mud Pit: Float Based Electronic PVT with Flow Sensor and Gravity Trip Tank, Alarms +/- 10 BBLs

Wellhead: 13-5/8" x 10M psi (Casing Head - "A" Section)

CEMENT:	Hole	MD	TVL	Spacer	Lead	Yield	COMMENTS
Surface:	14-3/4"x11-3/4"	795'	795'	20 bbl FW	220 ex Class C + adds 12 ppg 2.414ft3/sk	420 ex Class C + adds 14.8 ppg 1.33 ft3/sk	Cemented to surface w/ 200%XS Add FiberBlock
Intermediate:	10-5/8"x8-5/8"	4,800'	4,777'	40 bbl Spacer	300 ex TXI Lite Weight + adds 11.5 ppg 4.038 ft3/sk	340 ex Class C adds 14.8 ppg 1.328 ft3/sk	Cemented to surface w/ 70%L / 30%TXS calc'd on 10.625" hole Add FiberBlock
Production:	7-7/8"x5-1/2"	17,715'	10,530'	40 bbl spacer	242 ex TXI Lite Weight + adds 10.5 ppg 4.034ft3/sk	550.8456 ex Class C + adds 14.4 ppg 1.217ft3/sk	Cemented 500' above Int Casing Depth 10% XS calc'd on 7.875" hole

Reference Cementing Recommendation

DIRECTIONAL PLAN:

Comments	MD (ft)	INC (deg)	AZI (deg)	TVD (ft)	NS (ft)	EW (ft)	DLS (°/100')	VS (ft)	SEC-T-R	Section Line Distance
Build @ 1.5°/100'	900'	0	0	900'	0	0	0	0	25-T26S-R32E	283' FNL 2310' FEL
End Build @ 7°	1,375'	7	76	1,374'	7	29	1.5	-7	25-T26S-R32E	276' FNL 2281' FEL
Intermediate Casing	4,800'	7	76	4,777'	109	441	0.0	-106	25-T26S-R32E	174' FNL 1869' FEL
KOP, Build @ 8°/100'	9,875'	0	0	9,813'	243	988	0	-236	25-T26S-R32E	40' FNL 1322' FEL
Landing Point	11,000'	90	180	10,530'	-472	993	8	480	25-T26S-R32E	755' FNL 1317' FEL
Toe Sleeve 2	17,385'	90	180	10,572'	-6857	1040	0	6,864	36-T26S-R32E	380' FSL 1320' FEL
FTP / Toe Sleeve 1	17,435'	90	180	10,572'	-6907	1040	0	6,914	36-T26S-R32E	330' FSL 1320' FEL
PBHLTD	17,715'	90	180	10,572'	-7187	1040	0	7,194	36-T26S-R32E	50' FSL 1320' FEL

Reference Directional Plan

MWD Surveys will be taken at 50' interval below surface casing, 30' while building curve, and every 90° while drilling lateral.

FORMATION EVALUATION:

Mud Logging - One-Man: First surface hole to TD, First intermediate hole to TD
Mud Logging - Two-Man: Intermediate Casing Point to TD
Open Hole - PEX None
Cased Hole - GR/CBLUSIT None
MWD - GR Surface Casing Shoe to TD

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WELL PLAN SUMMARY

1280 Extended Reach Single Lateral

Date: Jun 05, 2018
Version: 1
Prepared by: M. Smith

WELL: Zia Hills 25E Fed Com 403H

COUNTY, STATE: Lea, Co, NM

SURFACE LOC: NWNE 25-T26S-R32E 316' FNL 2310' FEL
BH LOC: SENE 36-T26S-R32E 50' FSL 2310' FEL

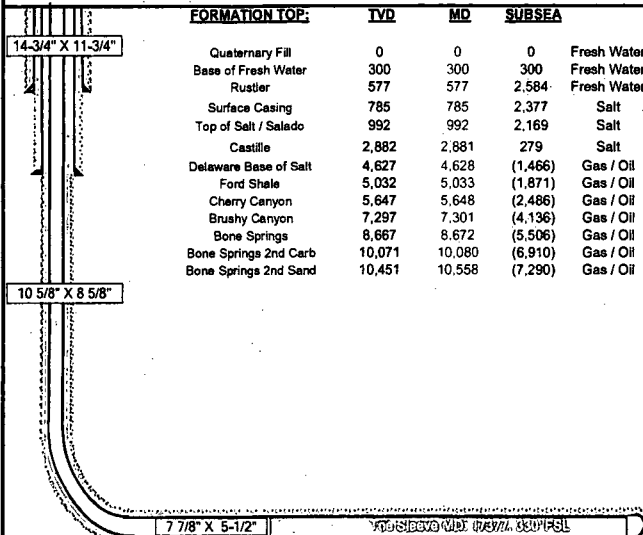
API No.:

BLM Permit:

AFE: WAF.OND.
Drilling Network No.:
Invoice Handler ID: VENNECP
COST ESTIMATE
DRILLING
COMPLETION
FACILITIES
TOTAL

ELEVATIONS: GL 3,134.0'
KB +27.0'

WH Coord.: LAT 32° 1' 11.75" N
(NAD-27) LON 103° 37' 36.51" W



Notes

- 1) Ensure proper notifications are made to BLM
A) Spud Notice - 24 hours before spud
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C) BOP Tests - 4 hours
- 2) BOP Tests to be completed according to Onshore Order 2.
A) 10 min high/low tests
- 3) H2S equipment will be rigged up and functional, 500' before Delaware formation. If H2S is encountered, Onshore Order 6 along with ConocoPhillips H2S plan will be followed.

CONTACTS

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Geologist: Josh Day	281-206-5620	423-512-0347
Onsite Drilling Rep.: Greg Rivera	432-234-9399	
Dennis Hously		
Drilling Supt.: Scott Nicholson	432-688-9065	432-230-8010

Estimated BH Static Temperature (°F): 199
Max. Anticipated BH Pressure: 0.550 psi/ft 5,792 psi
Max Anticipated Surface Pressure: 3,475 psi

DRILLING FLUID:	Type	Interval (MD)	Density (ppg)	Via (sec/ft)	PV (cP)	YP (#/100ft ²)	pH	FL (mL)	LGS (% by vol)	NaCl (ppb sol)	Remarks
Surface:	Fresh Water	Surface - 785'	8.6	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	10,000	Rig Tanks/Closed Loop
Intermediate:	Brine	785' - 4760'	10	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	180,000	Rig Tanks/Closed Loop
Production:	Cut Brine	4760' - 17657'	9.2	50-70	18-25	8-14	9.5-10	< 8	< 8.0	400 - 00	Rig Tanks/Closed Loop

Reference Drilling Fluids Program

CASING:	Hole	TOP (MD)	BTM (MD)	Length	Size	Wt	Grade	Connection	BOP:
Surface:	14 3/4"	27'	785'	758'	11 3/4"	47.00	J-55	BTC	Minimum - COP Class 3 Well Control Requirements Rig - 13-5/8"x10M psi Rams / 4-1/16"x10M psi Manifold Stackup - Rotating Head, Annular Preventer, Pipe Ram, Blind Ram, Mud Cross (Choke & Kill Valves), Pipe Ram
Intermediate:	10 5/8"	27'	4,760'	4,733'	8 5/8"	32.00	P-110	BTC	
Production:	7 7/8"	27'	17,657'	17,630'	5 1/2"	23.00	P-110	TXP	
CENTRALIZATION: Surface Casing: 1 per joint on first 3 joints Intermediate Casing: Shoe joint. 1 per joint where DLS > 0.6 "/100" Production Liner: Rigid body. 1 every other joint from TD to estimated TOC, 1 every 4 joints above TOC									Mud Pit: Float Based Electronic PVT with Flow Sensor and Gravity Trip Tank, Alarms +/- 10 BBLS Wellhead: 13-5/8" x 10M psi (Casing Head - "A" Section)

CEMENT:	Hole	MD	TVD	Spacer	Lead	Tail	COMMENTS
Surface:	14-3/4"x11-3/4"	785'	785'	20 bbl FW	210 ax Class C + adds 12 ppg 2.414ft ³ /sk	420 ax Class C+ adds 14.8 ppg 1.33 ft ³ /sk	Cemented to surface w/ 200%XS Add FiberBlock
Intermediate:	10-5/8"x8-5/8"	4,760'	4,757'	40 bbl Spacer	290 ax TXI Lite Weight + adds 11.5 ppg 4.038 ft ³ /sk	340 ax Class C adds 14.8 ppg 1.328 ft ³ /sk	Cemented to surface w/ 70%L / 30%T XS calc'd on 10.625" hole Add FiberBlock
Production:	7-7/8"x5-1/2"	17,657'	10,531'	40 bbl spacer	244 sk TXI Lite Weight + adds 10.5 ppg 4.034ft ³ /sk	547.00484 ax Class C + adds 14.4 ppg 1.217ft ³ /sk	Cemented 500' above Int Casing Depth 10% XS calc'd on 7.875" hole

Reference Cementing Recommendation

DIRECTIONAL PLAN:

Comments	MD (ft)	INC (deg)	AZI (deg)	TVD (ft)	NS (ft)	EW (ft)	DLS (°/100')	VS (ft)	SEC-T-R	Section Line Distance
Build @ 1.5"/100'	4,860'	0	0	4,860'	0	0	0	0	25-T26S-R32E	316' FNL 2310' FEL
End Build @ 3"	5,089'	3	360	5,089'	7	0	1.5	-7	25-T26S-R32E	309' FNL 2310' FEL
Intermediate Casing	4,760'	3	360	4,757'	118	-1	0.0	-119	25-T26S-R32E	198' FNL 2311' FEL
KOP, Build @ 8"/100'	9,822'	0	0	9,814'	266	-2	0	-266	25-T26S-R32E	50' FNL 2312' FEL
Landing Point	10,946'	90	180	10,531'	-450	3	8	450	25-T26S-R32E	766' FNL 2307' FEL
Toe Sleeve 2	17,327'	90	180	10,531'	-6830	50	0	6,831	36-T26S-R32E	380' FSL 2310' FEL
FTP / Toe Sleeve 1	17,377'	90	180	10,531'	-6880	50	0	6,881	36-T26S-R32E	330' FSL 2310' FEL
PBHL/TD	17,657'	90	180	10,531'	-7160	50	0	7,161	36-T26S-R32E	50' FSL 2310' FEL

Reference Directional Plan

MWD Surveys will be taken at 90' interval below surface casing, 30' while building curve, and every 90' while drilling lateral.

FORMATION EVALUATION:

Mud Logging - One-Man: First surface hole to TD. First intermediate hole to TD
Mud Logging - Two-Man: Intermediate Casing Point to TD
Open Hole - PEX None
Cased Hole - GR/CBL/USIT None
MWD - GR Surface Casing Shoe to TD

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WELL PLAN SUMMARY

1280 Extended Reach Single Lateral

Date: Jun 05, 2018
Version: 1
Prepared by: M. Smith

WELL: Zia Hills 25E Fed Com 404H

COUNTY, STATE: Lea, Co, NM

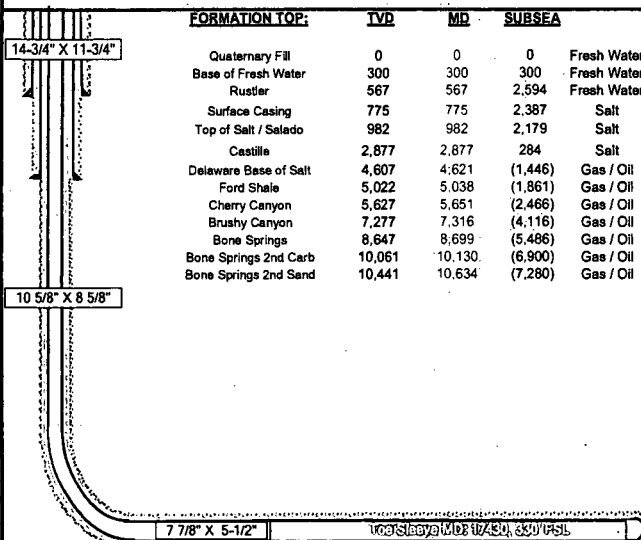
SURFACE LOC: NWNE 25-T26S-R32E 349' FNL 2310' FEL
BH LOC: SENW 36-T26S-R32E 50' FSL 3300' FEL

API No.:
BLM Permit:

AFE: WAF.OND.
Drilling Network No.:
Invoice Handler ID: VENNECP
COST ESTIMATE
DRILLING
COMPLETION
FACILITIES
TOTAL

ELEVATIONS: GL 3,134.0'
KB +27.0'

WH Coord.: LAT 32° 1' 11.43" N
(NAD-27) LON 103° 37' 36.51" W



Notes

- 1) Ensure proper notifications are made to BLM
A) Spud Notice - 24 hours before spud
B) Running / Cementing all strings of casing - 4 hours
C) BOP Tests - 4 hours
- 2) BOP Tests to be completed according to Onshore Order 2.
A) 10 min high/low tests
- 3) H2S equipment will be rigged up and functional, 500' before Delaware formation. If H2S is encountered, Onshore Order 6 along with ConocoPhillips H2S plan will be followed.

CONTACTS

	Office	Cell
Drilling Engineer: Matt Smith	281-206-5199	432-269-6432
Geologist: Josh Day	281-206-5620	423-512-0347
Onsite Drilling Rep.: Greg Rivera	432-234-9399	
Dennis Hously		
Drilling Supt.: Scott Nicholson	432-688-9065	432-230-8010

Estimated BH Static Temperature (°F): 199
Max. Anticipated BH Pressure: 0.550 psi/ft 5,792 psi
Max Anticipated Surface Pressure: 3,475 psi

DRILLING FLUID:	Type	Interval (MD)	Density (ppg)	Via (sec/qt)	PV (cP)	YP (#/100ft ²)	pH	FL (mL)	LGS (% by vol)	NaCl (ppb sol)	Remarks
Surface:	Fresh Water	Surface - 775'	8.6	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	10,000	Rig Tanks/Closed Loop
Intermediate:	Brine	775' - 4788'	10	28-50	1-5	2-6	7.5-8.5	NC	< 5.0	180,000	Rig Tanks/Closed Loop
Production:	Cut Brine	4788' - 17710'	9.2	50-70	18-25	8-14	9.5-10	< 8	< 8.0	400 - 00	Rig Tanks/Closed Loop

Reference Drilling Fluids Program

CASING:	Hole	TOP (MD)	BTM (MD)	Length	Size	Wt	Grade	Connection	BOP:
Surface:	14 3/4"	27'	775'	748'	11 3/4"	47.00	J-55	BTC	Minimum - COP Class 3 Well Control Requirements Rig - 13-5/8"x10M psi Rams / 4-1/16"x10M psi Manifold Stackup - Rotating Head, Annular Preventer, Pipe Ram, Blind Ram, Mud Cross (Choke & Kill Valves), Pipe Ram
Intermediate:	10 5/8"	27'	4,788'	4,761'	8 5/8"	32.00	P-110	BTC	
Production:	7 7/8"	27'	17,710'	17,683'	5 1/2"	23.00	P-110	TXP	
CENTRALIZATION:									Mud Pit: Float Based Electronic PVT with Flow Sensor and Gravity Trip Tank, Alarms +/- 10 BBLS
Surface Casing: 1 per joint on first 3 joints									Wellhead: 13-5/8" x 10M psi (Casing Head - "A" Section)
Shoe joint: 1 per joint where DLS > 0.6°/100'									
Intermediate Casing: Rigid body, 1 every other joint from TD to estimated TOC, 1 every 4 joints above TOC									
Production Liner:									

CEMENT:	Hole	MD	TVD	Spacer	Lead	Yell	COMMENTS
Surface:	14-3/4"x11-3/4"	775'	775'	20 bbl FW	210 ex Class C + adds 12 ppg 2.414ft ³ /sk	420 ex Class C+ adds 14.8 ppg 1.33 ft ³ /sk	Cemented to surface w/ 200%XS Add FiberBlock
Intermediate:	10-5/8"x8-5/8"	4,788'	4,737'	40 bbl Spacer	300 ex TXI Lite Weight + adds 11.5 ppg 4.038 ft ³ /sk	340 ex Class C adds 14.8 ppg 1.328 ft ³ /sk	Cemented to surface w/ 70%L / 30%T XS calc'd on 10.625" hole Add FiberBlock
Production:	7-7/8"x5-1/2"	17,710'	10,531'	40 bbl OBM spacer	242 ex TXI Lite Weight + adds 10.5 ppg 4.034ft ³ /sk	550.5145 ex Class C + adds 14.4 ppg 1.217ft ³ /sk	Cemented 500' above Int Casing Depth 10% XS calc'd on 7.875" hole

Reference Cementing Recommendation

DIRECTIONAL PLAN:	Comments	MD (ft)	INC (deg)	AZI (deg)	TVD (ft)	NS (ft)	EW (ft)	DLS (°/100')	VS (ft)	SEC-T-R	Section Line Distance
Build @ 1.5°/100'		1,000'	0	0	1,000'	0	0	0	0	25-T26S-R32E	349' FNL 2310' FEL
End Build @ 7°		1,489'	7	286	1,488'	9	-30	1.5	-9	25-T26S-R32E	340' FNL 2340' FEL
Intermediate Casing		4,788'	7	286	4,737'	126	-435	0.0	-130	25-T26S-R32E	223' FNL 2745' FEL
KOP, Build @ 8°/100'		9,879'	0	0	9,813'	288	-992	0	-296	25-T26S-R32E	61' FNL 3302' FEL
Landing Point		11,003'	90	180	10,531'	-427	-987	8	421	25-T26S-R32E	776' FNL 3297' FEL
Toe Sleeve 2		17,380'	90	180	10,531'	-6804	-940	0	6,798	36-T26S-R32E	380' FSL 3300' FEL
FTP / Toe Sleeve 1		17,430'	90	180	10,531'	-6854	-940	0	6,848	36-T26S-R32E	330' FSL 3300' FEL
PBHLTD		17,710'	90	180	10,531'	-7134	-940	0	7,128	36-T26S-R32E	50' FSL 3300' FEL

Reference Directional Plan

MWD Surveys will be taken at 90° interval below surface casing, 30° while building curve, and every 90° while drilling lateral.

FORMATION EVALUATION:

Mud Logging - One-Man:	First surface hole to TD, First intermediate hole to TD
Mud Logging - Two-Man:	Intermediate Casing Point to TD
Open Hole - PEX	None
Cased Hole - GR/CBL/USIT	None
MWD - GR	Surface Casing Shoe to TD

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
LEASE NO.:	NMLC069515
WELL NAME & NO.:	ZIA HILLS 25E FED COM 401H
SURFACE HOLE FOOTAGE:	250' FNL & 2310' FEL
BOTTOM HOLE FOOTAGE:	50' FSL & 330' FEL; Sec. 36
LOCATION:	Section 25, T. 26 S., R 32 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

All previous COA still apply expect the following:

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The 11 3/4 inch surface casing shall be set at approximately 795 feet (a minimum of 25 feet 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.
2. The minimum required fill of cement behind the 8 5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

CONTINGENCY PLAN

Operator has proposed DV tool at depth but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

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. **Additonal cement maybe required. Excess calculates to -27%.**

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi.**

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. 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.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- 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. 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.
- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 061918

11 3/4	surface csg in a	14 3/4	inch hole.	<u>Design Factors</u>			SURFACE		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	Weight	
"A"	47.00	J 55	BUTT	19.50	4.2	1.21	804	37,788	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does	circ to sfc.	Totals:	804	37,788
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
14 3/4	0.4336	640	1029	379	172	8.60	1467	2M	1.00

8 5/8	casing inside the	11 3/4	<u>Design Factors</u>					INTERMEDIATE	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	32.00	P 110	BTC	6.42	1.34	1.66	4,900	156,800	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	4,900	156,800	
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		804	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
10 5/8	0.2100	650	1705	1080	58	10.00	2562	3M	0.50

5 1/2 casing inside the 8 5/8			Design Factors			PRODUCTION			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	23.00	P 110	TXP	3.19	3.22	3.06	9,435	217,005	
"B"	23.00	P 110	TXP	9.69	2.76	3.06	7,857	180,711	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,076							Totals:	17,292	397,716
B would be:				63.65	3.06	if it were a vertical wellbore.			
No Pilot Hole Planned			MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity°	MEOC
			17292	9933	9933	9435	90	8	10560
The cement volume(s) are intended to achieve a top of					4700	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
7 7/8	0.1733	760	1593	2188	-27	9.20			0.84
Class 'H' tail cmt yld > 1.20									