

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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 reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GOLDEN SPUR 36 COM W1 1H'
2. Name of Operator CONOCOPHILLIPS COMPANY Contact: ASHLEY BERGEN E-Mail: ashley.bergen@conocophillips.com		9. API Well No. 30-015-43374-00-X1
3a. Address MIDLAND, TX 79710 1810	3b. Phone No. (include area code) Ph: 432-688-6938	10. Field and Pool, or Exploratory UNDESIGNATED
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 36 T26S R31E Lot 1 282FSL 570FEL		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK 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	☐ Fracture Treat	☐ 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 recompleting 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 respectfully requests to use the approved three string casing design that was approved in original APD on 9/3/15. The 9 7/8" string will be set at 11,176' instead of the original 11,873'. The rig will move on 11/27/15. Please see attachment.

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 30 2015

RECEIVED

Accepted for record
NM OCD

WRD 12/1/15

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

Electronic Submission #324433 verified by the BLM Well Information System

For CONOCOPHILLIPS COMPANY, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 11/24/2015 (16CRW0022SE)

Name (Printed/Typed) ASHLEY BERGEN

Title STAFF REGULATORY TECH

Signature (Electronic Submission)

Date 11/23/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved By

Title

NOV 24 2015

Date

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

/s/ Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

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

Sundry Notice Request
ConocoPhillips Company
Red Hills West; Wolfcamp
Golden Spur 36 COM W1 1H

Eddy County, New Mexico

ConocoPhillips Company respectfully requests to approve the sundry for the following casing and cementing program with the option to not run the 9-5/8" casing and to set the 7-5/8" casing ~700' shallower (3rd Bone Spring Sand).

2. Casing Program – Option Not to Run 9-5/8"

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Dry Tension
	From	To							
17.50"	0	1,023	13.375"	54.5	J55	BTC	2.36	5.70	15.8
9.875"	0	11,176	7.625"	29.7	P110	BTC	**1.7 COP Collapse Design S.F.	1.46	2.72
6.75"	0	18,850 (11640 TVD)	5.0"	18	P110	Tblue/TXP	1.59	1.65	2.78
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

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

9-5/8" Contingency Option

ConocoPhillips Company respectfully requests the option to not run 9-5/8" 40# L-80 BTC Casing and spare it as a contingency if the next hole section failed to support the hydrostatic column of the previous mud weight. The intent for the casing and cementing program:

- Drill the 12-1/4" to the Base of the Salt and 9-7/8" hole from Base of Salt to 3rd Bone Springs Sand with the same density mud (OBM or Saturated Brine).
- Case and cement the well with 13-3/8" surface, 7-5/8" intermediate and 5" production casing (3-strings).
- Isolate the Salt & Delaware utilizing Annulus Casing Packer and Stage Tool if necessary.
- Bring cement from 7-5/8" casing shoe to surface.
- Provided that if the hole can no longer support the hydrostatic column of the previous mud weight, a contingency plan to run the 9-5/8" casing for cementing with severe losses if necessary.

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	4,165	9.625"	40.0	L80	BTC	2.53	1.36	5.50
8.75"	0	11,176	7.625"	29.7	P110	TenW523	**1.7 COP Collapse Design S.F.	1.46	2.72

Is casing new? If used, attach certification as required in Onshore Order #1	Y or N
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
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?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	300	13.7	1.63	8.50	7	Lead: Class C + 1.5% Bentonite + 1.0% CaCl ₂ + 0.2% Anti-Foam + 0.2% Dispersant.
	400	14.8	1.33	6.34	7	Tail: Class C + 0.2% Anti-Foam + 0.1% Dispersant.
Contingency Inter. 1	2000	11.5	2.74	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
	350	13.5	1.35	6.34	5	Tail: Class C + 0.2% Anti-Foam + 0.25% Retarder + 0.5% Extender.
DV/ECP Tool: NO						
9-5/8" Casing will be set aside as contingency string for cementing with severe losses if necessary.						
Inter. 2	900	11.5	2.57	14.21	7	Lead: Class C + 10.0 lb/sk Extender + 0.25% Anti-Foam + 0.5% Retarder + 0.3% Fluid Loss + 1% Dispersant + 5 lbs/sk LCM + 4% Expanding Agent.
	140	13.5	1.49	6.76	7	Tail: Class C + 0.9% Gas Control + 9.0% Extender + 0.4% Dispersant + 0.5% Retarder + 0.2% Anti-Foam + 0.25 lb/sk Lost Circ Control + 5 lbs/sk LCM + 3.0% Expanding Agent
DV/ECP Tool ~4,500' (OPTIONAL)						
	400	11.5	2.57	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
Prod.	900	16.4	1.10	4.28	5	Tail: Class H + 1.800 gal/sk Gas Control Agent + 0.025 gal/sk Dispersant + 0.080 gal/sk Retarder + 0.030 gal/sk Anti-Foam.
	DV/ECP Tool NO'					

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Contingency Intermediate 1	0'	100% - 130%
Intermediate 2	0'	50%
Production	10,576'	30% - 35%

Include Pilot Hole Cementing specs: NO PILOT HOLE.

Pilot hole depth N/A

KOP

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type

Attachments:

- ✚ Attachment # 1 Premium Connection Spec Sheet
- ✚ Attachment # 2 Wellbore Schematic

Sundry request proposed 23 November 2015 by:
James Chen, P.E.
Drilling Engineer | ConocoPhillips Permian Shale
Office Phone: 281.206.5244
Cell Phone: 832.768.1647

October 21 2014



Connection: Blue®
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

**PIPE BODY DATA**

GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi

BLUE® CONNECTION DATA

GEOMETRY			
Connection OD	5.630 in.	Coupling Length	10.551 in.
Critical Section Area	5.275 sq. in.	Make-Up Loss	4.579 in.
		Connection ID	4.264 in.
		Threads per in.	5.00
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Compression Efficiency	100 %	Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity	13940 psi
		Bending	101 °/100 ft

MAKE-UP TORQUES

Minimum	6400 ft-lbs	Target	7110 ft-lbs	Maximum	7820 ft-lbs
---------	-------------	--------	-------------	---------	-------------

OPERATIONAL LIMIT TORQUES

Operating Torque	ASK	Yield Torque	17600 ft-lbs
------------------	-----	--------------	--------------

SHOULDER TORQUES

Minimum	1070 ft-lbs	Maximum	6040 ft-lbs
---------	-------------	---------	-------------

BLANKING DIMENSIONSBlanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

December 18 2014



Connection: TenarisXP™ BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi
TENARISXP™ BTC CONNECTION DATA			
GEOMETRY			
Connection OD	5.720 in.	Coupling Length	9.325 in.
Critical Section Area	5.275 sq. in.	Threads per in.	5.00
		Connection ID	4.264 in.
		Make-Up Loss	4.141 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity ⁽¹⁾	13940 psi
		Structural Bending ⁽²⁾	101 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	N/A ft-lbs	Target	N/A ft-lbs
		Maximum	N/A ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	ASK	Yield Torque	N/A ft-lbs
BLANKING DIMENSIONS			

Blanking Dimensions

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

MD/TVD Formation Top
0 ft

875 ft Rustler
950 ft Surface Shoe
1,100 ft Anhydrite/Salts
4,000 ft Delaware
4,125 ft Ford Shale

8,000 ft Bone Spring Top
BS 1st Carb Top
8,250 ft Avalon A Top
8,500 ft Avalon B Top
8,800 ft Avalon C Top
9,000 ft 1st Bone Spring Sand
2nd BS Carbonate
2nd BS Sand
10,000 ft 3rd BS Carbonate
3rd BS Sand
11,170 ft Interm Shoe
WolfCamp Top
11,500 ft WolfCamp 1 Top

WolfCamp 1 Shale

- Surface Section (Preset by PD822):**
- Objective: Protect fresh water horizons.
 - Drill 17-1/2" hole to +/- 1000 ft. "Rustler"
 - Mud weight: 8.6 – 9.1 ppg FW-Native Mud
 - **Set 13-3/8" 54.5# J-55 BTC casing.**
 - Cement to surface.
- Intermediate Section:**
- Objective: Isolate depleted/weak formations above WC1.
 - Drill 9-7/8" hole to +/- 11,170 ft. Inside BS3S Top.
 - **Mud weight: 8.7 – 9.2 ppg OBM**
 - **Set 7-5/8" 29.7# P-110 BTC**
 - Cement to surface.
- Production Section:**
- Objective: Provide zonal isolation of production interval and provide medium for stimulation.
 - Drill 6-3/4" hole to +/-18,000ft – 20,000ft. "Production TD"
 - Mud Weight: 12.0 – 13.5 ppg OBM.
 - **Set 5" 18# P-110 TenBlue**
 - Cement lap 500 ft above previous shoe (near KOP).

18,900 ft TD
~6,700 ft Lateral

5" 18# P110 Long String @ 20,100' MD / 11,600' TVD