UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

OCD Artesla

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

Artesia 5. Lease Serial No. NMLC068282B

abandoned wel	II. Use form 3160-3 (APD) for si	ich proposals.	6. If Indian, Allottee or	Tribe Name
SUBMIT IN TRI	PLICATE - Other instructions of	n reverse side.	7. If Unit or CA/Agree	ment, Name and/or No.
Type of Well ☐ Gas Well ☐ Oth	ner		8. Well Name and No. GOLDEN SPUR 3	6 COM W1 2H
Name of Operator Contact: ASHLEY BERGEN CONOCOPHILLIPS COMPANY E-Mail: ashley.bergen@conocophillips.com			9. API Well No. 30-015-43375-0	0-X1
3a. Address 3b. Phone No. (include area code) Ph: 432-688-6938			10. Field and Pool, or I UNDESIGNATE	Exploratory
MIDLAND, TX 79710 1810		2-066-0936	UNDESIGNATE	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			11. County or Parish, a	and State
Sec 36 T26S R31E Lot 1 315F	FSL 570FEL		EDDY COUNTY	, NM
12. CHECK APPE	ROPRIATE BOX(ES) TO INDIC	ATE NATURE OF 1	NOTICE, REPORT, OR OTHER	R DATA
TYPE OF SUBMISSION		TYPE OI	F ACTION	
☑ Notice of Intent	☐ Acidize ☐) Deepen	☐ Production (Start/Resume)	■ Water Shut-Off
_ .	☐ Alter Casing ☐	Fracture Treat	☐ Reclamation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair ☐	New Construction	☐ Recomplete	Other
☐ Final Abandonment Notice		Plug and Abandon	□ Temporarily Abandon	Change to Original A PD
	Convert to Injection) Plug Back	☐ Water Disposal	
822 instead of Pinnergy #1 to above is planned to spud 10/2 - Spudder Rig and Skid Opera - BOP/BOPE and Choke Mani - Coflex Choke Line Test Certi	quests to amend the approved AF pre-set surface casing and the 1s 0/15. Please see the following att tions Description fold Schematic ificate	t intermediate string. achments:		
- Spudder Rig Specifications/	Layout	ARTESIA ⁷ DI	STRICT MONED TON	01/41
		OCT 19	្តិរូវភូវTIONS OF APPR	UVAL
Accepted for re	10/20/2015	, RECEI	VED .	
14. I hereby certify that the foregoing is Commit Name (Printed/Typed) ASHLEY I	Electronic Submission #319184 v For CONOCOPHILLIPS ited to AFMSS for processing by Cl	COMPANY, sent to the RISTOPHER WALLS	ne Carlsbad	
Signature (Electronic S		Date 10/08/2		
	THIS SPACE FOR FED	ERAL OR STATE	OFFICE USE	
Approved By		Title	OCT 1 5 2015	Date
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent to condu	itable title to those rights in the subject le		ISI Chris Walls BURFAU OF LAND MANAGEME	NT
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crime for statements or representations as to any ma		willfully to make to any department or	

Sundry Notice Request ConocoPhillips Company Red Hills West; Wolfcamp Golden Spur 36 COM W1 2H

Eddy County, New Mexico

ConocoPhillips Company respectfully requests to amend the approved permit to pre-set the surface and intermediate casings. The reasons would be to improve time and cost savings.

1. Spudder Rig and Skid Operations:

Precision Drilling #822 Rig will be used to drill the surface hole and intermediate hole (to set *the contingency 9-5/8" casing string option*). BLM will be contacted / notified 24 hours prior to commencing spudder rig operations and expected to take 10-12 days for a dual pad.

Surface casing and intermediate casing will be preset on all the wells on the same pad. Both hole sections will be drilled, cased and cemented according to casing program based on the approved permit. All casing strings will be tested in accordance to the rules and regulations per Onshore Order.

The wellhead will be nippled up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. Prior to drilling out the 13-3/8" surface casing, ConocoPhillips shall nipple up a 3M BOPE & choke arrangement with 5M components and test to the rated working pressure of a 3M BOPE system as it is subjected to the maximum anticipated surface pressure 1,500 psi (0.33 psi/ft pressure gradient assuming fully evacuated) per Onshore Order 2. The pressure test to MASP and 50% for annular shall be performed with a test plug after installing the 13-5/8" casing head and nippling up the 3M BOPE system prior to drilling out the 13-3/8" surface casing.

A blind flange cap of the same pressure rating as the wellhead will be secured to seal the wellbore on all casing strings. Pressure will be monitored via flanged port tied to a needle valve and pressure gauge to monitor pressures on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well.

The drilling operation will re-commence with a big Drilling Rig (H&P Flex 3 rig type) and a BOP stack based on the approved permit will be nippled up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between each well until each well's section has been drilled in this possible order:

- 1. Move-in PD822 to Golden Spur 36 COM W1 1H
- 2. Drill and pre-set Surface & Intermediate Casing
- 3. Skid to Golden Spur 36 COM W1 2H
- 4. Drill and pre-set Surface & Intermediate Casing
- 5. Move-in H&P Flex 3 rig to Golden Spur 36 COM W1 1H
- 6. Drill, Set & Cement Intermediate2 Casing
- 7, Skid to Golden Spur 36 COM W2 2H
- 8. Drill, Set & Cement Intermediate2 Casing
- 9. Drill, Set & Cement Production Casing
- 10. Skid to Golden Spur 36 COM W1 1H
- 11. Drill. Set & Cement Production Casing

Rig move in to drill will depend on rig availability and APD approval date. Once "Spudder Rigs" has performed pre-set surface and intermediate, the "Big Drilling Rig" shall return to each well to drill the remain sections per conditions of approval.

2. Pressure Control Equipment:

BOP installed and itested before drilling which hole?	Size?	Min: Required WP	Туре	4	Tested to:
			Annular	Х	50% of working pressure
			Blind Ram		
12-1/4"	13-5/8"	3M	Pipe Ram		(1.500 mg;
			Double Ram	X	± 1,500 psi
			Other*		

^{*}Specify if additional ram is utilized.

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

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

X	On Ex	tion integrity test will be performed per Onshore Order #2. ploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure ty test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas #2 III.B.1.i.
X		ance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for and hydrostatic test chart.
}	N	Are anchors required by manufacturer?
Х	surface	bibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test re is broken the system must be tested.
	•	Provide description here
	See att	ached schematic.

Attachments:

Attachment # 1 BOP/BOPE and Choke Manifold Schematic

4 Attachment # 2 Coflex Choke Line Test Certificate

4 Attachment # 3 Spudder Rig Specifications/Layout

Sundry request proposed 14 October 2015 by:

James Chen, P.E.

Drilling Engineer | ConocoPhillips Permian Shale

Office Phone: 281.206.5244 Cell Phone: 832.768.1647

Sundry of Change - ConocoPhillips Company: October 14, 2015

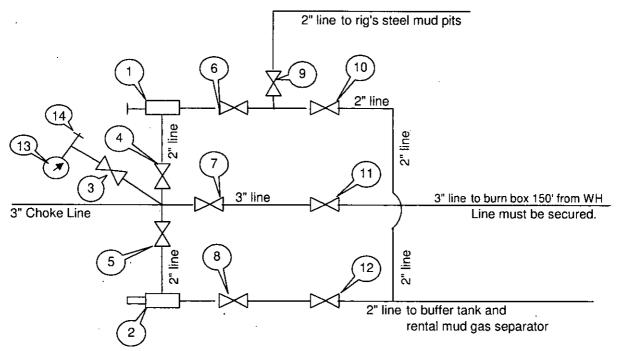
BLOWOUT PREVENTER ARRANGEMENT 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Rated Equipment Vent line to flare 2E Line in from Choke Manifold 1 2B 2C 3 12 2D 13 15

item	Description
1	Rotating Head, 13-5/8"
2A	Fill up Line and Valve
28	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (13-5/8", 5M)
4	Double Ram (13-5/8", 5M, equipped with Blind Rams and Pipe Rams)
. 5	Kill Line (2" flexible hose, 3000 psi WP)
6	Kill Line Valve, Inner (3-1/8", 3000 psi WP)
7	Kill Line Valve, Outer (3-1/8", 3000 psi WP)
8	Kill Line Check Valve (2-1/16", 3000 psi WP
9	Choke Line (5M Stainless Steel Coflex Line, 3-1/8" 3M API Type 6B, 3000 psi WP)
10	Choke Line Valve, Inner (3-1/8", 3000 psi WP)
11	Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP)
12	Spacer Spool (13-5/8", 5M)
13	Casing Head (13-5/8" 5M)
14	Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M
15	Surface Casing

James Chen, P.E.
Drilling Engineer | ConocoPhillips Permian Shale
Office Phone 281.206.5244
Cell Phone 832.768.1647

CHOKE MANIFOLD ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Equipment



All Tees must be targeted

Item	Description
1	Manual Adjustable Choke, 2-1/16", 3M
2	Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M
3	Gate Valve, 2-1/16" 5M
4	Gate Valve, 2-1/16" 5M
5	Gate Valve, 2-1/16" 5M
6 7	Gate Valve, 2-1/16" 5M
7	Gate Valve, 3-1/8" 3M
8	Gate Valve, 2-1/16" 5M
9	Gate Valve, 2-1/16" 5M
10	Gate Valve, 2-1/16" 5M
11	Gate Valve, 3-1/8" 3M
12	Gate Valve, 2-1/16" 5M
13	Pressure Gauge

We will test each valve to 3000 psi from the upstream side.

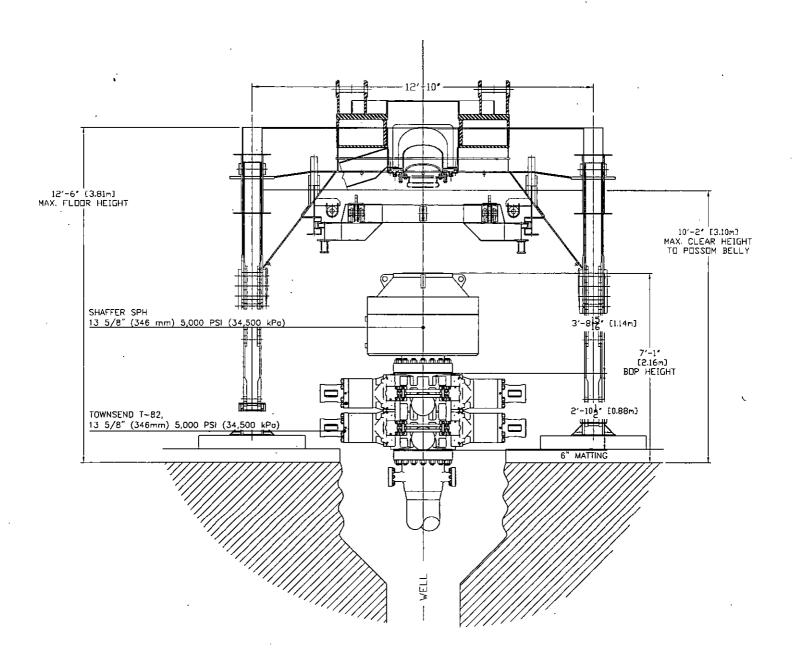
2" hammer union tie-in point for BOP Tester

Submitted by: James Chen

14

Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company

Date: 21-March-2013



NOTE: STACK SHOWN IN VERTICAL POSITION FOR CLARITY

STACK COMPONENTS REPRESENTED ARE SUBJECT TO AVAILABILITY, PLEASE CONFIRM WITH WELL CONTROL DEPARTMENT MANAGER.



EQUIPMENT REPRESENTATION ONLY NOT DRAWN TO SCALE

PRECISION DRILLING

DATE: 2015/10/05 DWG No.: BOP-822-006 DWG BY: CTJ



Rig Inventory and Layout

RIG 822SSE Active

Rig #	822	Rig Type	Super Single™ Electric
Superintendent	Johnny Ison	Operation Centre	Mid Continent
Category	Electric	Rig Type Code	SSE
Loads Winter (include boiler)	21	Class	Super Singles
Rated Vertical Depth (ft)	10000	Horse Power Range	1000 - 1200
Region	US Operations Group 1	Rig Locator Status	
Company	PDOS	Rig Phone Number	817-694-6797
		Plant Code	1505
Rated with Drill Pipe (in)	4 1/2		

DRAWWORKS

Mechanical/Electric	VFD	Auxiliary Brake	N/A
Drawworks	Alta-Rig ARS-1201-AC	Rated Power (hp)	1200
Drawworks Capacity (lbs)	320000	Number of lines	8
Drawworks Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MAST

Mast Type	Single	Manufacturer	
Static Hook Load (lbs)	299000	Mast Clear Height (ft)	75'
Drill Line Size (in)	1	Number of lines	8
Drill Line SF=2 (lbs)	348300	Drill Line SF=3 (lbs)	232200

SUBSTRUCTURE

Substructure Type	Trailer	Manufacturer	
Floor Height (ft)	10' 10" - 12' 6"	Kelly Bushing to Ground	
		(ft)	
Clear Height (ft)	8' 6" - 10' 2"		
Rotary Capacity (lbs)	299000	Setback Capacity (lbs)	No Limitation

This Rig Type is Equipped with a Pipe Arm

HOISTING AND ROTATING EQUIPMENT

Top Drive Model	Precision/Rostel PDCA50/70	Top Drive Capacity (tons)	150
Rotary Table Model	Slip Table	Rotary Table Capacity (lbs)	200000
		Rotary Table Clearance (in)	20-1/2
Power Wrench Model	W-N Apache 90-70	Maximum Diameter (in)	11-3/4

MUD PUMPS AND MUD SYSTEM

MUD PUMP 1

Manufacturer & Model	BPMMP - BSF-1000 (Triplex)	Rated Power (hp)	1000
Stroke (in)	10	-	
Mud Pump Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MUD PUMP 2

Manufacturer & Model	BPMMP - BSF-1000 (Triplex)	Rated Power (hp)	1000
Stroke (in) 🕠	10 ·		
Mud Pump Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MUD SYSTEM

Mud Tank Total Volume (ыы	360	# of Mud Tanks	1
/ Premix Tank Volume (ыы)		Pill Tank Volume (ыы)	9.4
Trip Tank Volume (ыы)	15.7	TripTank Surface Area	18.3
Centrifugal Pump Quantity:	2	Centrifugal Pump Size	5 x 6
Shale Shaker Quantity	1	Shale Shaker	Brandt King Cobra Linear Motion
Atmospheric Degasser	Single - 30 in OD 3 in Intet 8 in Vent Line		
Additional Information			

WELL CONTROL SYSTEM

Annular	Townsend Type-90	Pressure Rating (psi)	3000
		Size (in)	11
Rams			
Ram 1	Townsend T-82 - Single	Pressure Rating (psi)	3000
		Size (in)	11
Ram 2	Townsend T-82 - Single	Pressure Rating (psi)	3000
		Size (in)	11
Trim Type	Nace	BOP Additional Infomation	
Accumulator Manufacturer	E.C.S.	Remote Panel Type	Electric
Accumulator Volume (gal-US)	84	# of Stations:	5
Accumulator Pumps			
Choke Manifold Style (in)	2 x 3 x 2	Pressure Rating (psi)	3000

Well control equipment listed is rig's normal inventory. Well control equipment is subject to change, Operator should confirm current configuration and specific requirements with the Precision Drilling Contracts Representative.

RIG 822SSE

ELECTRICAL POWER

Power Distribution Type

3 Diesel Electric Generators, each with Ross Hill 1402 Generator Bays powering 4 ABB ASC800

Drive Bays & Allen Bradley MCC

POWER GENERATION

Power Gene	erators				
Quantity	2	Generator Drive	CAT C-32	Generator Rating (kW)	810
Quantity	1	Generator Drive	CAT C-18	Generator Rating (kW)	545

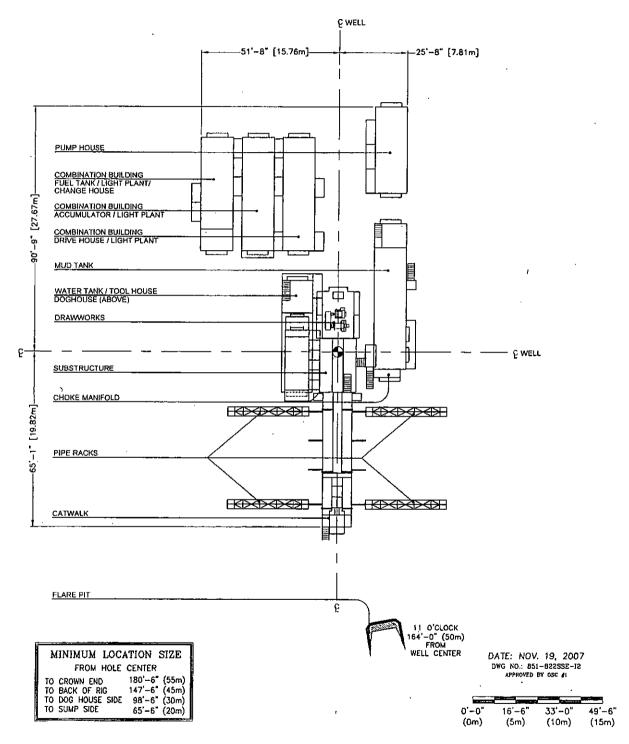
MISCELLANEOUS EQUIPMENT

Winterization	N/A	Boiler Rating (hp)	
Fuel Tank Qty	1	Total Fuel Tank Capacity (gal-US)	5200
Water Tank Qty	1	Total Water Tank Capacity (bbl)	375
Special Equipment	Hydraulic BOP Substructure Lev		c Catwalk, Hydraulic Pipe Arm, Power Tong,

NOTES

TUBULARS

As the selection of tubulars is dependant on the planned well program, specific requirements are to be discussed with the contracts representative of Precision Drilling. Exact quantities and descriptions of the selected tubulars are available upon request.





PRECISION DRILLING

BLOWOUT PREVENTER ARRANGEMENT 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Rated Equipment Vent line to flare 2E Line in from Choke Manifold 1 2B 2C 3 12 2D 13 15

Item	Description
1	Rotating Head, 13-5/8"
2A	Fill up Line and Valve
2B	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (13-5/8", 5M)
4	Double Ram (13-5/8", 5M, equipped with Blind Rams and Pipe Rams)
5	Kill Line (2" flexible hose, 3000 psi WP)
6	Kill Line Valve, Inner (3-1/8", 3000 psi WP)
7	Kill Line Valve, Outer (3-1/8", 3000 psi WP)
8	Kill Line Check Valve (2-1/16", 3000 psi WP
9	Choke Line (5M Stainless Steel Coflex Line, 3-1/8" 3M API Type 6B, 3000 psi WP)
10	Choke Line Valve, Inner (3-1/8", 3000 psi WP)
11	Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP)
12	Spacer Spool (13-5/8", 5M)
13	Casing Head (13-5/8" 5M)
14	Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M

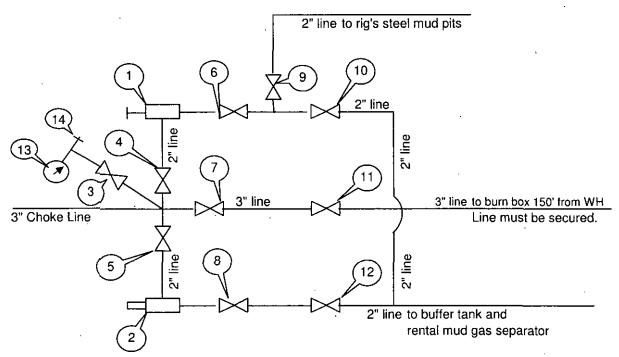
James Chen, P.E.
Drilling Engineer | ConocoPhillips Permian Shale
Office Phone 281.206.5244
Cell Phone 832.768.1647

Surface Casing

15

CHOKE MANIFOLD ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Equipment



All Tees must be targeted

- 1 Manual Adjustable Choke, 2-1/16", 3M
- 2 Remote Controlled Hydraulically Operated Adjustable Choke. 2-1/16", 3M
- 3 Gate Valve, 2-1/16" 5M
- 4 Gate Valve, 2-1/16" 5M
- 5 Gate Valve, 2-1/16" 5M
- 6 Gate Valve, 2-1/16" 5M
- 7 Gate Valve, 3-1/8" 3M
- 8 Gate Valve, 2-1/16" 5M
- 9 Gate Valve, 2-1/16" 5M
- 10 Gate Valve, 2-1/16" 5M
- 11 Gate Valve, 3-1/8" 3M
- 12 Gate Valve, 2-1/16" 5M
- 13 Pressure Gauge
- 14 2" hammer union tie-in point for BOP Tester

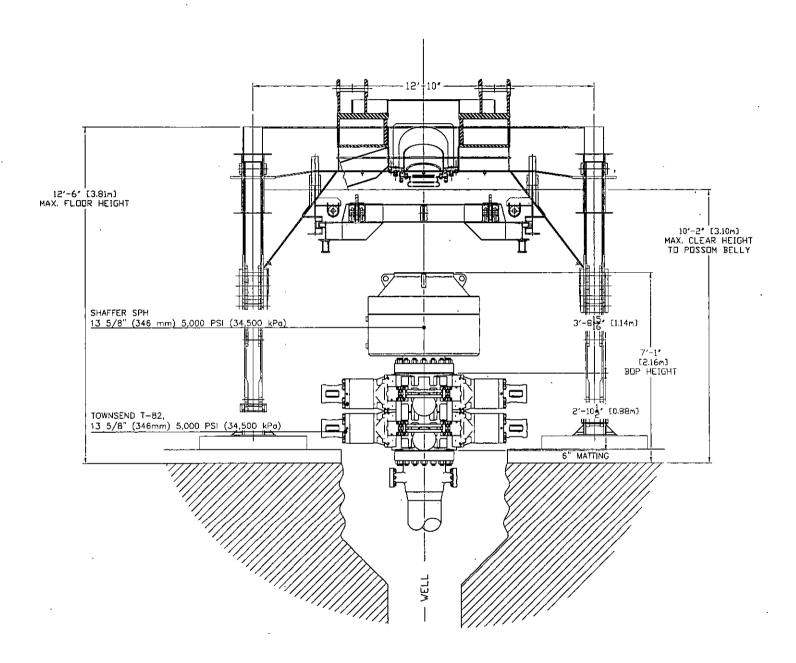
We will test each valve to 3000 psi from the upstream side.

Submitted by:

James Chen

Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company

Date: 21-March-2013



NOTE: STACK SHOWN IN VERTICAL POSITION FOR CLARITY

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EQUIPMENT REPRESENTATION ONLY

NOT DRAWN TO SCALE

PRECISION DRILLING

DATE: 2015/10/05 DWG No.: BOP-822-006 DWG BY: CTJ



Rig Inventory and Layout RIG 822SSE

ecision Active

Rig#	822	Rig Type	Super Single™ Electric
Superintendent	Johnny Ison	Operation Centre	Mid Continent
Category	Electric ·	Rig Type Code	SSE
Loads Winter (include boiler)	21	Class	Super Singles
Rated Vertical Depth (ft)	10000	Horse Power Range	1000 - 1200
Region	US Operations Group 1	Rig Locator Status	
Company	PDOS	Rig Phone Number	817-694-6797
· · · · · · · · · · · · · · · · · · ·		Plant Code	1505
Rated with Drill Pipe (in)	4 1/2		

DRAWWORKS

Mechanical/Electric	VFD	Auxiliary Brake	N/A
Drawworks	Alta-Rig ARS-1201-AC	Rated Power (hp)	1200
Drawworks Capacity (lbs)	320000	Number of lines	8
Drawworks Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MAST

Mast Type	Single	Manufacturer]
Static Hook Load (lbs)	299000	Mast Clear Height (ft)	75'
Drill Line Size (in)	1	Number of lines	8
Drill Line SF=2 (lbs)	348300	Drill Line SF=3 (lbs)	232200

SUBSTRUCTURE

Substructure Type	Trailer	Manufacturer	.]	
Floor Height (ft)	10' 10" - 12' 6"	Kelly Bushing to Ground (ft)		
Clear Height (ft)	8' 6" - 10' 2"			
Rotary Capacity (lbs)	299000	Setback Capacity (lbs)	No Limitation	

This Rig Type is Equipped with a Pipe Arm

HOISTING AND ROTATING EQUIPMENT

Top Drive Model	Precision/Rostel PDCA50/70	Top Drive Capacity (tons)	150
Rotary Table Model	Slip Table	Rotary Table Capacity (lbs)	200000
		Rotary Table Clearance (in)	20-1/2
Power Wrench Model	W-N Apache 90-70	Maximum Diameter (in)	11-3/4

MUD PUMPS AND MUD SYSTEM

MUD PUMP 1

Manufacturer & Model	BPMMP - BSF-1000 (Triplex)	Rated Power (hp)	1000
Stroke (in)	10		
Mud Pump Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MUD PUMP 2

Manufacturer & Model	BPMMP - BSF-1000 (Triplex)	Rated Power (hp)	1000
Stroke (in)	10		
Mud Pump Drive (Quantity)	Baylor CM628TUT (AC) (1)	Rating (hp) - Each Motor	1230

MUD SYSTEM

Mud Tank Total Volume (ыы	360	# of Mud Tanks	1	
7 Premix Tank Volume (ыы)		Pill Tank Volume (ыы)	9.4	
Trip Tank Volume (ыы)	15.7	TripTank Surface Area	18.3	
Centrifugal Pump Quantity:	2	Centrifugal Pump Size	5 x 6	
Shale Shaker Quantity	1	Shale Shaker .	Brandt King Cobra Linear Motion	
Atmospheric Degasser	Single - 30 in OD 3 in Inlet 8 in Vent Line			
Additional Information				

WELL CONTROL SYSTEM

Annular	Townsend Type-90	Pressure Rating (psi)	3000
		Size (in)	11
Rams		·	
Ram 1	Townsend T-82 - Single	Pressure Rating (psi)	3000
		Size (in)	11
Ram 2	Townsend T-82 - Single	Pressure Rating (psi)	3000
		Size (in)	11
Trim Type	Nace	BOP Additional Infomation	
Accumulator Manufacturer E.C.S.		Remote Panel Type	Electric
Accumulator Volume (gal-US)	84	# of Stations:	5
Accumulator Pumps		<u> </u>	
Choke Manifold Style (in)	2 x 3 x 2	Pressure Rating (psi)	3000

Well control equipment listed is rig's normal inventory. Well control equipment is subject to change; Operator should confirm current configuration and specific requirements with the Precision Drilling Contracts Representative.

ELECTRICAL POWER

Power Distribution Type

3 Diesel Electric Generators, each with Ross Hill 1402 Generator Bays powering 4 ABB ASC800

Drive Bays & Allen Bradley MCC

POWER GENERATION

Power Gen	erators				
Quantity	2	Generator Drive	CAT C-32	Generator Rating (kW)	810
Quantity	1	Generator Drive	CAT C-18	Generator Rating (kW)	545

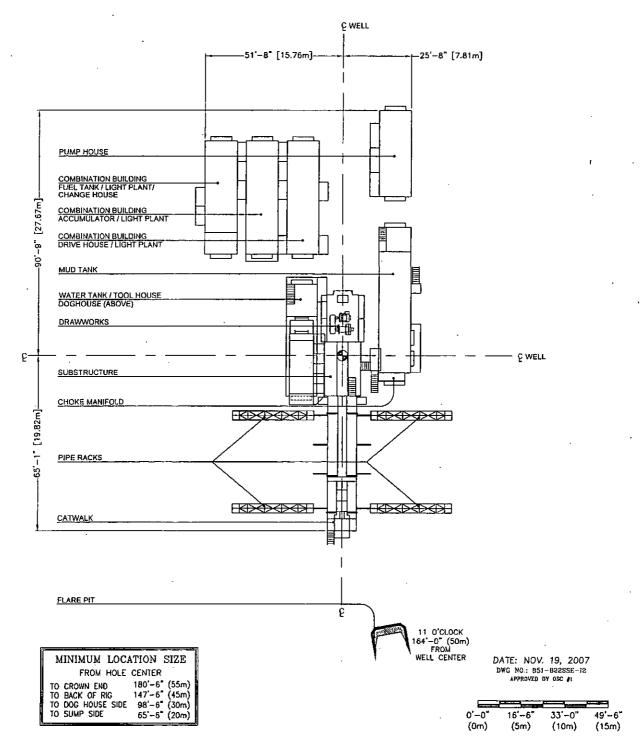
MISCELLANEOUS EQUIPMENT

Winterization	N/A	Boiler Rating (hp)	
Fuel Tank Qty	1	Total Fuel Tank Capacity (gal-US)	5200
Water Tank Qty	1	Total Water Tank Capacity (bbl)	375
Special Equipment	Hydraulic BOP Handler, Hydraulic Catheads, Hydraulic Catwalk, Hydraulic Pipe Arm, Power Tong, Substructure Leveling Jacks		

NOTES

TUBULARS

As the selection of tubulars is dependant on the planned well program, specific requirements are to be discussed with the contracts representative of Precision Drilling. Exact quantities and descriptions of the selected tubulars are available upon request.





PRECISION DRILLING

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | ConocoPhillips Co

LEASE NO.: LC068281B

WELL NAME & NO.: 2H-Golden Spur 36 Com W1

SURFACE HOLE FOOTAGE: 315'/N & 570'/E BOTTOM HOLE FOOTAGE 50'/N & 1040'/E

LOCATION: Section 36, T. 26 S., R. 31 E., NMPM

COUNTY: | Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS 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)

Lea County

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

- 1. 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.
- 2. Setting surface and 1st intermediate casing with Precision Rig
 - a. Notify the BLM when removing the Precision Rig.
 - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 90 days of notification that Precision Rig has left the location. Failure to notify or have rig on location within 90 days will result in an Incident of Non-Compliance.
 - c. Once the H&P Flex Rig is on location, it will drill the Golden Spur 36 Com W1 1H and W1 2H in conjunction using batch drilling.
 - d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the intermediate casing shall be performed and results recorded on subsequent sundry.

- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst.

Abnormal pressures may occur in the Wolfcamp. Possible water flows in the Salt and the Castile. Possible lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1040 feet (in a competent bed below the Magenta Dolomite, a Member of the Rustler) 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 is to include the lead cement slurry.
- 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8 inch casing is no longer a contingency casing it will be installed on this well.

- 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.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the 7-5/8 inch 2nd intermediate casing is:

Option #1: Single stage

□ Cement to surface. Operator shall provide method of verification.
 Additional cement will be required as the excess calculates to -35%.

Option #2: Multi-stage

Operator has proposed DV tool at depth of 4500°. Operator is to submit sundry if DV tool depth varies by more than 100° from approved depth.

` a. First stage to DV tool:

- □ Cement to circulate. If cement does not circulate, contact the appropriate
 □ BLM office before proceeding with second stage cement job. Operator should
 □ have plans as to how they will achieve approved top of cement on the next
 □ stage.
- b. Second stage above DV tool:

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

If cement does not circulate to surface on the the first two casings, the cement on the third casing must come to surface.

- 4. The minimum required fill of cement behind the 5 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Additional cement may be required as the excess calculates to 3%.
- 5. 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.

C. 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. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- 3. 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. BOP/BOPE shall be tested after nipple up according to Onshore Order #2.
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8" first intermediate casing shoe shall be 5000 (5M) psi. 5M 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. BOP/BOPE shall be tested after nipple up according to Onshore Order #2.
- 5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 inch shoe shall be 10,000 (10M) psi. 10M 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.
- 6. 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. The tests shall be done by an independent service company utilizing a test plug **not** a **cup or J-packer**.
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.

- 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 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.
- 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

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