					N	IN P
OCD Hotes Form 3160-3 (March 2012)				OMB N	APPROVED 0. 1004-0137	IN F INF F
UNITED STATES				Expires O 5. Lease Serial No. NMNM0381970	ctober 31, 2014	
APPLICATION FOR PERMIT TO DR		REENTER		6. If Indian. Allotee	or Tribe Name	//
la. Type of work:				7. If Unit or CA Agree (8. Lease Name and W	\sim	No.
Ib. Type of Well: Image: Oil Well Gas Well Other 2. Name of Operator APACHE CORPORATION (373)	🖌 Sin	gle Zone 🔲 Multip	le Zone	ONION-KNIGHT FE		
3a. Address 3b.	Phone No. -32)818-10	(include area code)		10. Field and Pool of E		
 Location of Well (Report location clearly and in accordance with any Sta At surface SWSW / 150 FSL / 1025 FWL / LAT 32.4138857 At proposed prod. zone NWNW / 280 FNL / 1025 FWL / LAT 3 	/LONG	103.4801698	00969	11. Sec. T. R. M. or BI SEC 4 / T22S / R34	k.and Survey or	
 Distance in miles and direction from nearest town or post office* 18.7 miles 	/			12. County or Parish LEA	13. St NM	ate
location to negrest 1EO foot	6. No. of ac 60	res in lease	17, Spacin 160.99	g Unit dedicated to this w	vell	
to nearest well, drilling, completed, 850 feet	9: Proposed 0490 feet	Depth /15172 feet		BIA Bond No. on file MB000736		
3609 feet 1	0/15/20/1	/ · · ·	1*	23. Estimated duration 28 days)	
// \`	24. Attác					
 The following, completed in accordance with the requirements of Onshore O Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lan SUPO must be filed with the appropriate Forest Service Office). 	č	 Bond to cover th Item 20 above). Operator certific 	ne operatio	is form: ns unless covered by an ormation and/or plans as	-	·
25. Signature (Electronic-Submission)		(Printed/Typed) a Flores / Ph: (432)	818-1167		Date 06/05/2017	
Title Supv of Drilling Services						
Approved by (Signature) (Electronic Submission)	Cody I	(Printed/Typed) _ayton / Ph: (575)2	34-5959		Date 04/18/2018	
Title Supervisor Multiple Resources		SBAD				
Application approval does not warrant or certify that the applicant holds le conduct operations thereon.) Conductor approval, if any, are attached.	egal or equit	able little to those righ	is in the sub	geet lease which would e	nutie the applicat	ni io

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.

NNITIONS Kæ 05/31/18 2018 Requires MGL (Continued on page 2) Rec GCP 05/23/18 Approval Date: 04/18/2018

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new-reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

NOTIČES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396, 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant-to-civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

• . •

(Form 3160-3, page 2)

Approval Date: 04/18/2018

Additional Operator Remarks

Location of Well

SHL: SWSW / 150 FSL / 1025 FWL / TWSP: 22S / RANGE: 34E / SECTION: 4 / LAT: 32.4138857 / LONG: -103.4801698 (TVD: 0ffeet, MD: 0ffeet)
 PPP: SWSW / 182 FSL / 1025 FWL / TWSP: 22S / RANGE: 34E / SECTION: 4 / LAT: 32.4139745 / LONG: -103.4801692((TVD: 10195 feet, MD: 10200 feet))
 BHL: NWNW / 280 FNL / 1025 FWL / TWSP: 22S / RANGE: 34E / SECTION: 4 / LAT: 32.4273199 / LONG: -103.4800969 (TVD: 10490 feet, MD: 15172 feet)

BLM Point of Contact

Name: Judith Yeager Title: Legal Instruments Examiner Phone: 5752345936 Email: jyeager@blm.gov

(Form 3160-3, page 3)

Review and Appeal Rights

100

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Approval Date: 04/18/2018

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

19/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Sorina Flores

Signed on: 06/01/2017

Zip: 79705

Title: Supv of Drilling Services

Street Address: 303 Veterans Airpark Ln #1000

State: TX

State:

City: Midland

Phone: (432)818-1167

Email address: sorina.flores@apachecorp.com

Field Representative

Representative Name: Street Address:

...

City:

Phone:

Email address:

Zip:

FMSS

Department of the Interior EAU OF LAND MANAGEMENT

Application Data Report

אר D ID : 10400014376	Submission Date: 06/05/2017	Highlighted data
Operator Name: APACHE CORPORATION		reflects the most recent changes
Well Name: ONION KNIGHT FEDERAL	Well Number: 201H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	

Section 1 - General			
APD ID: 10400014376	Tie to previous NOS?	10400010605	Submission Date: 06/05/2017
BLM Office: CARLSBAD	User: Sorina Flores	Tit	le: Supv of Drilling Services
Federal/Indian APD: FED	Is the first lease penet	rated for product	tion Federal or Indian? FED
Lease number: NMNM0381970	Lease Acres: 160		
Surface access agreement in place?	Allotted?	Reservation :	:
Agreement in place? NO	Federal or Indian agree	ement:	
Agreement number:		·	
Agreement name:			
Keep application confidential? YES			
Permitting Agent? NO	APD Operator: APACH	E CORPORATIO	N
Operator letter of designation:			

Operator Info

Operator Organization Name: APACHE CORPORATION Operator Address: 303 Veterans Airpark Lane #1000 Operator PO Box: Operator City: Midland State: TX Operator Phone: (432)818-1000 Operator Internet Address:

Zip: 79705

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan na	me:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: ONION KNIGHT FEDERAL	Well Number: 201H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: OJO CHISO	Pool Name: OJO CHISO; BONESPRING,S

Is the proposed well in an area containing other mineral resources? OIL

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Desc	ribe c	other	miner	als:														
Is the	e prop	posed	well	in a H	elium	prod	uctio	n area? N	V Use E	ixisting W	ell Pad	? NO	Ne	ew s	urface c	listurb	ance	?
Туре	of W	ell Pa	d: SIN	IGLE	WELL				Multij	ole Well Pa	ad Nan	ne:	Nu	ımb	er:			
Well	Class	: HOF	RIZON	ITAL					Numb	per of Leg	s: 1							
Well	Work	Туре	: Drill															
Well	Туре	: OIL \	WELL															
Desc	ribe \	Nell T	ype:															
Well	sub-1	Гуре:	OTHE	R														
Desc	ribe s	sub-ty	pe : D	EVEL	OPME	ENT												
Dista	nce t	o tow	n: 18.	7 Mile	s		Dis	tance to	nearest v	vell: 850 F	T.	Dist	ance t	o le:	ase line	: 150 F	т	
Rese	rvoir	well s	spacir	ng ass	signed	d acre	s Me	asureme	nt: 160.9	Acres								
Well	plat:	Or	nionKr	nightFo	ed201	H_RE	VPlat	_signed_	06-01-20	17.pdf			,					
Well	work	start	Date:	10/15	6/2017				Durat	ion: 28 DA	AYS						•	
									1									
	Sec	tion	3 - V	Vell	Loca	atior	n Tal	ble	ļ									
Surve	ey Ty	pe: Ri	ECTA	NGUL	AR													
Desc	ribe S	Survey	уТур	e:														
Datu	m: NA	D83							Vertic	al Datum:	NAVD	88						
Surve	ey nu	mber:	:															
[<u> </u>	1		1			5										
		ت ا		lo l				/Trac							nber			
	ot	dicat	oot	dicat		0	ç	ot/Lot	e	apri	- A		an	ype	Nun	tion		
	Foot	Indicator	Foot	Indicator	a	ge	tion	uot/Lot/Tract	ude	gitude	ntý	Đ	idian	e Type	se Number	ation		

	NS-F	NS In	EW-F	IL EV	Twsp	Rang	Section	Alique	Latitu	Longi	Coun	State	Merid	Lease	Lease	Eleva	QM	DVT
SHL Leg #1	150	FSL	102 5	FWL	22S	34E	4	Aliquot SWS W		- 103.4801 698	LEA	NEW MEXI CO		F	NMNM 038197 0	360 9	0	0
KOP Leg #1	330	FSL	102 5	FWL	22S	34E	4	Aliquot SWS W	32.41438 02	- 103.4801 686		MEXI		F	NMNM 038197 0	- 677 7	104 41	103 86
PPP Leg #1	182	FSL	102 5	FWL	22S	34E	4	Aliquot SWS W	32.41397 45	- 103.4801 692		MEXI		F	NMNM 038197 0	- 658 6	102 00	101 95

Name: ONION KNIGHT FEDERAL

Well Number: 201H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	280	FNL	102 5	FWL	22S	34E	4	Aliquot NWN W	32.42731 99	- 103.4800 969	LEA		NEW MEXI CO		NMNM 005867 8	- 688 1	151 72	104 90
BHL Leg #1	280	FNL	102 5	FWL	22S	34E	4	Aliquot NWN W	32.42731 99	- 103.4800 969		NEW MEXI CO	NEW MEXI CO	F	NMNM 005867 8	- 688 1	151 72	104 90

Page 3 of 3

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

Submission Date: 06/05/2017

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: APACHE CORPORATION Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Well Type: OIL WELL

APD ID: 10400014376

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3609	0	0		USEABLE WATER	No
2	RUSTLER	1864	1745	1745		POTASH	No
3	SALADO	1419	2190	2190	<u> </u>	POTASH	No
4	BASE OF SALT	-91	3700	3700		NATURAL GAS,OIL	No
5	CAPITAN REEF	-579	4188	4188		USEABLE WATER	No
6	DELAWARE	-1571	5180	5180		NATURAL GAS,OIL	No
7	BONE SPRING	-4901	8510	8510		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10948

Equipment: Rotating head, mud gas separator, blow down pit, flare line

Requesting Variance? YES

Variance request: Apache requesting variance for choke flex line

Testing Procedure: BOP/BOPE will be tested by independent service company to 250psi low & amp; amp; high pressure indicated above per Onshore Order 2 requirements. System may be upgraded to higher pressure but sill tested to WP listed . If system is upgraded, all components installed will be functional and tested. Pipe rams will be operationally checked each 24 hr period. Blind rams will be operationally checked on each TOOH. These checks will be noted on daily tour sheets. Other accessories to BOP equipment will include Kelly cock and floor safety valve (inside BOP), choke lines and choke manifold. (see attached schematic)

Choke Diagram Attachment:

OnionKnightFed_BOP_Manif_Schem_05-18-2017.pdf

BOP Diagram Attachment:

OnionKnightFed_BOP_Manif_Schem_05-18-2017.pdf

OnionKnightFed_Flexline_05-18-2017.pdf

/Name: APACHE CORPORATION

me: ONION KNIGHT FEDERAL

Well Number: 201H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	310	0	310	-6881	-7191	310	J-55	40	BUTT	15.5 2	1.96	BUOY	2.39	BUOY	2.09
2	SURFACE	17.5	13,375	NEW	API	N	0	1765	0	1765	-6881	-8646	1765	J-55	54.5	BUTT	2.08	1.82	BUOY	3.99	BUOY	3.74
	INTERMED IATE	12.2 5	9.625	NEW	API	N	310	5160	310	5160	-7191	- 12041	4850	J-55	40	LTC	1.73	2.02	BUOY	1.8	BUOY	2.16
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	10762	0	10490	-6881	- 17371	10762	P- 110	17	BUTT	1.47	1.28	BUOY	2.19	BUOY	2.1
5	PRODUCTI ON	8.5	5.5	NEW	API	Ν	10762	15172	10490		- 17371		4410	P- 110	17	BUTT	1.47	1.28	BUOY	2.19	BUOY	2.1

Casing Attachments

Casing ID: 1

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

OnionKnightFed201H_IntermCsgAssumpt_05-18-2017.pdf

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Casing Attachments

Casing ID: 2 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

OnionKnightFed201H_SurfCsgAssumpt_05-18-2017.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

OnionKnightFed201H_IntermCsgAssumpt_05-18-2017.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

OnionKnightFed201H_ProdCsgAssumpt_05-18-2017.pdf

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Casing Attachments

Casing ID: 5

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

.

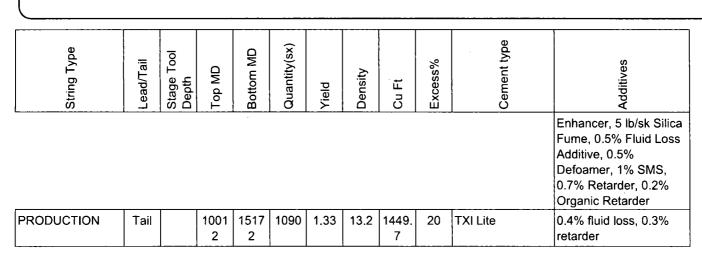
OnionKnightFed201H_ProdCsgAssumpt_05-31-2017.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1412	709	1.73	13.5	1226. 6	25	CIC	4% bentonite, 1% CaCl2
SURFACE	Tail		1412	1765	260	1.33	14.8	345.8	25	CIC	1% CaCl2
INTERMEDIATE	Lead		0	4160	825	1.93	12.6	1592. 25	25	CIC	5% NaCl, 4% bentonite, 0.2% retarder
INTERMEDIATE	Tail		4160	5160	300	1.33	14.8	399	25	CIC	0.2% retarder
INTERMEDIATE	Lead		0	4160	825	1.93	12.6	1592. 25	25	CIC	5% NaCl, 4% bentonite, 0.2% retarder
INTERMEDIATE	Tail		4160	5160	300	1.33	14.8	399	25	CIC	0.2% retarder
PRODUCTION	Lead		4660	1001 2	467	3.43	10.8	1601. 81	20	TXI Lite	10% Bentonite + 10 Ib/sk Compressive Strength Enhancer + 5 Ib/sk Silica Fume + 0.5% Fluid Loss Additive + 0.5% Defoamer + 1% SMS + 0.7% Retarder + 0.2% Organic Retarder
PRODUCTION	Tail		1001 2	1517 2	1090	1.33	13.2	1449. 7	20	TXI Lite	0.4% fluid loss + 0.3% retarder
PRODUCTION	Lead		4660	1001 2	467	3.43	10.8	1601. 81	20	TXI Lite	10% Bentonite, 10 lb/sk Compressive Strength

Page 4 of 7

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H



Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: BOP, choke manifold, gas buster, blow down pit, flare line with igniter, pre-mix pit, rotating head

Describe the mud monitoring system utilized: PVT, Pason, Visual monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1765	SPUD MUD	8.3	9							
1765	5160	SALT SATURATED	9.8	10.5							
5160	1049 0	OTHER : Cut brine	8.6	9.5							

Page 5 of 7

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL from TD to surf (horizontal well - vertical portion of hole). Stated logs run will be in the completion report & submitted to BLM.

List of open and cased hole logs run in the well:

CBL,CNL/FDC,DS,GR,MWD,MUDLOG,TL

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4909

Anticipated Surface Pressure: 2601.19

Anticipated Bottom Hole Temperature(F): 150

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Capitan reef poses lost circ potential

Contingency Plans geoharzards description:

For capital reef, Apache will be switching over to a fresh water system if lost circ is encountered. A 2-stage cmt job will be proposed to get cmt to surface.

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

OnionKnightFed_H2SOpsContPlan_05-18-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

OnionKnightFed201H DirPlan 05-18-2017.pdf

OnionKnightFed201H_DirWallPlot_05-18-2017.pdf

Other proposed operations facets description:

If lost circ is encountered, Apache may 2-stage Interm csg. DVT may be used in 9-5/8" csg & ECP maybe placed below DVT. **See attachment.

**Cmt info is duplicated in Section 4. AFMSS requires equal segments in cmt and csg. Complete cmt plan attached.

**Apache request variance to use flexible hose between BOP and Choke Manifold. Flex hose may vary depending on rig availability. Certificate and test chart will be available for flex hose used.

*Anticipated Completion Date: 10/1/2018 *Anticipated First Production Date: 11/1/2018

Other proposed operations facets attachment:

OnionKnightFed201H_CmtPlanAndContingencyPlan_05-31-2017.pdf

Well Name: ONION KNIGHT FEDERAL

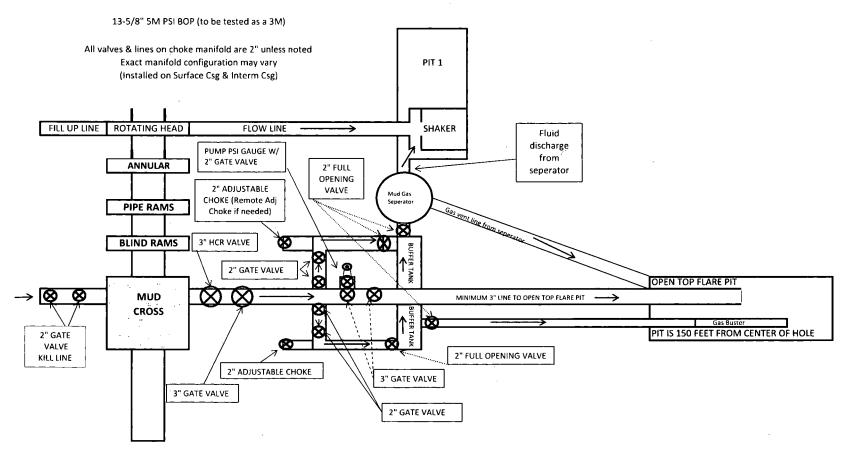
Well Number: 201H

OnionKnightFed201H_CsgPlan_05-31-2017.pdf OnionKnightFed_GasCapturePlan_07-19-2017.pdf

Other Variance attachment:

OnionKnightFed_Flexline_05-31-2017.pdf

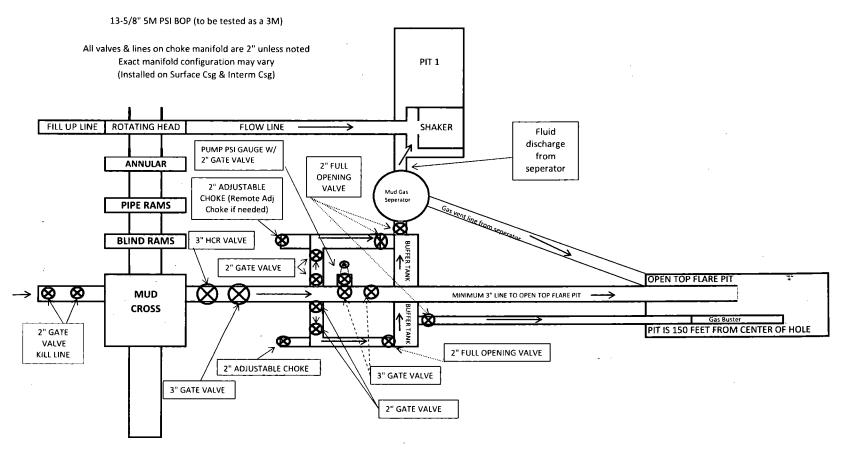
APACHE BOP AND CHOKE MANIFOLD SCHEMATIC



*** If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke ***

67

APACHE BOP AND CHOKE MANIFOLD SCHEMATIC



*** If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke ***



CONTITECH RUBBER	No:QC-DB- 157/ 2014
Industrial Kft.	Page: 17 / 131

ContiTech

QUA INSPECTION	LITY CON AND TES		ATE	CERT. I	1 °:	373	
PURCHASER:	ContiTech	Oil & Marine Co	orp.	P.O. N°:		45003983	55
CONTITECH RUBBER order N	•: 538079	HOSE TYPE:	3" ID	- 1	Choke and	d Kill Hose	
HOSE SERIAL Nº:	67090	NOMINAL / ACT	UAL LENGTH	 l:	10,67 m	n / 10,73 m	
W.P. 68,9 MPa 10)000 psi	T.P. 103,4	MPa 150	00 psi	Duration:	60	min.
ambient temperature		See attachme	nt. (1 pag	e)			
	·		nt. (i pag				
				•			
↑ 10 mm = 10 Min \rightarrow 10 mm = 25 MPa							
COUPLINGS Typ	e	Serial	N°	C	uality	Heat	N°
3" coupling with	1	1252	8901	AIS	61 4130	A0709N	A1126U
4 1/16" 10K API b.w. Fl	ange end			AIS	SI 4130	0352	285
NOT DESIGN	ED FOR W	ELL TESTING	G		А	PI Spec 1	6 C
					Temp	perature ra	ate:"B"
All metal parts are flawless WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE T					H THE TERMS	OF THE ORD	ER
STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced st	the above Purcl	haser Order and that	at these items/	equipment	were fabricated	d inspected and	d tested in
	(EU			
	Inspector		Quality Cont	rol			
Date: 05. March 2014.			tol .		Contifiacii i Industria Quality Contr	I Kft. /	

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mail: info@fluid.contilech.hu | Internet: www.contitech-rubber.hu; www.contitech.hu The Court of Csongrad County as Registry Court Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003 ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 371, 373, 374

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CONTITECH RUBBER	No:QC-DB- 157/ 2014			
Industrial Kft.	Page:	25 / 131		

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Hose Data Sheet

CRI Order No.	538079
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500398355
Item No.	1
Ноѕе Туре	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

Casing Design Assumptions and Load Cases

Surface

All casing design assumptions were ran in StressCheck to determine safety factors which meet or exceed both Apache Corp and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the casing.

Surface Casing Burst Design				
Load Case	External Pressure	Internal Pressure		
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid		
Fracture @ shoe w/ Gas Gradient Above	Mud and Cement Mix Water	Fracture psi at shoe and 0.7 gas gravity above shoe		
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job		
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic		

Surface Casing Collapse Design					
Load Case	External Pressure	Internal Pressure			
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with surface mud inside casing			
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at 3900' (Capitan Reef) with Brine			
Cementing	Wet cement weight	Water (8.33 ppg)			

Surface Casing Axial Design				
Load Case Assumptions				
Overpull	100 kips			
Running in hole	2 ft/s			
Green Cement Pressure Test	Max pressure when bumping plug			
Service Loads	N/A			

Casing Design Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in StressCheck to determine safety factors which meet or exceed both Apache Corp and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the casing.

Surface Casing Burst Design							
Load Case External Pressure Internal Pressure							
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid					
Gas Kick	Mud and Cement Mix Water	Pressure seen while circulating out a 30 bbl 0.5 ppg kick intensity influx from well TD to surface while using current mud weight.					
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job					
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic					

Surface Casing Collapse Design				
Load Case	External Pressure	Internal Pressure		
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with intermediate mud inside casing		
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at Brushy Canyon with Cut Brine (9.2 ppg)		
Cementing	Wet cement weight	Water (8.33 ppg)		

Surface Casing Axial Design			
Load Case Assumptions			
Overpull	100 kips		
Running in hole	2 ft/s		
Green Cement Pressure Test	Max pressure when bumping plug		
Service Loads	N/A		



CONTITECH RUBBER	No:QC-DB- 157/ 2014		
Industrial Kft.	Page: 17 / 131		

ContiTech

QUA INSPECTION	LITY CON		ATE		CERT. I	N º:	373	
PURCHASER:	ContiTech (Dil & Marine C	Corp.		P.O. N°:		45003983	55
CONTITECH RUBBER order I	Nº: 538079	HOSE TYPE:	3"	ID		Choke and	d Kill Hose	
HOSE SERIAL Nº:	67090	NOMINAL / AC		ENGTH:		10,67 m	n / 10,73 m	
W.P. 68,9 MPa 1	0000 psi	T.P. 103,4	MPa	1500	0 psi	Duration:	60	min.
	ξ	See attachm	ent. (1	l page)		·	
↑ 10 mm = 10 Min → 10 mm = 25 MF	2a							
COUPLINGS Ty 3" coupling with		Seria 1252	890	1		auality 	A0709N	A1126U
4 1/16" 10K API b.w. F		1252	090			SI 4130		285
		ELL TESTIN	IG			A	PI Spec 1	16 C
All metal parts are flawless						Temp	perature r	ate:"B"
WE CERTIFY THAT THE ABOV INSPECTED AND PRESSURE STATEMENT OF CONFORMIT conditions and specifications of accordance with the referenced	TESTED AS ABO Y: We hereby c f the above Purch standards, codes	VE WITH SATISFA ertify that the abo naser Order and t	ACTORY ve items/o hat these and meet	RESULT equipmer items/ec the relev	at supplied auipment ant accept	I by us are in were fabricated	conformity with	n the terms, nd tested in
Date: 05. March 2014.	Inspector		Qualit	y Contro	ورک	Czztifizen i Industria Quality Contr 11	I Kft.	fail

Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mail: info@fluid.contitlech.hu | Internet: www.contitlech-rubber.hu; www.contitlech The Court of Csongrad County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26630003

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Industrial Kft.	Page:	25 / 131

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Hose Data Sheet

CRI Order No.	538079
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500398355
Item No.	1
Ноѕе Туре	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

SUPO Data Report

04/19/2018

APD ID: 10400014376

Operator Name: APACHE CORPORATION

Well Name: ONION KNIGHT FEDERAL

Submission Date: 06/05/2017

Well Number: 201H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

OnionKnightFed201H_ExistRd_05-22-2017.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate drilling and completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

OnionKnightFed201H_NewAccessRd_05-22-2017.pdf

New road type: LOCAL, RESOURCE

Length: 829.96 Feet Width (ft.): 25

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Road will be crowned for water drainage and to control erosion.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Access surfacing type: OTHER Access topsoil source: OFFSITE Access surfacing type description: Caliche Access onsite topsoil source depth: Offsite topsoil source description: Caliche pit located off lease Onsite topsoil removal process: Access other construction information: Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Road will be crowned for water drainage

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

OnionKnightFed201H_1miRadius_06-05-2017.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Approx 829.89 feet of 4 inch 150 degree buried Thermoflex PL, rated 750psi operating, to transport production will be installed from proposed well to proposed offsite production facility. A 30 feet wide disturbance will be needed to install buried PL. In areas where blading is allowed, topsoil will be stockpiled and separated from excavated trench mineral material. Final reclamation procedures will match procedures in plans for surface reclamation. When excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over pipeline will be evident. The proposed pipeline does not cross lease boundaries, so a ROW will not need to be acquired from BLM. **Production Facilities map:**

OnionKnightFed201H_Flowline_05-23-2017.pdf

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Water Source Table	
Nater source use type: INTERMEDIATE/PRODUCTION CASING	Water source type: OTHER
Describe type: BRINE	
Source latitude: 32.48407	Source longitude: -103.15848
Source datum: NAD83	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: FEDERAL	· · · · · · · · · · · · · · · · · · ·
Water source transport method: TRUCKING	
Source transportation land ownership: FEDERAL	
Water source volume (barrels): 4000	Source volume (acre-feet): 0.51557237
Source volume (gal): 168000	
Water source use type: INTERMEDIATE/PRODUCTION CASING, SURFACE CASING Describe type:	Water source type: GW WELL
Source latitude: 32.48407	Source longitude: -103.15848
Source datum: NAD83	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: FEDERAL	
Water source transport method: TRUCKING	•
Source transportation land ownership: FEDERAL	
Water source volume (barrels): 3000	Source volume (acre-feet): 0.3866793
Source volume (gal): 126000	
Water source use type: STIMULATION	Water source type: GW WELL
Describe type:	
Source latitude: 32.423138	Source longitude: -103.54925
Source datum: NAD83	
Water source permit type: WATER WELL	
Source land ownership: STATE	
Water source transport method: PIPELINE	
Source transportation land ownership: STATE	
Water source volume (barrels): 25000	Source volume (acre-feet): 3.2223275
Source volume (gal): 1050000	

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Water source use type: STIMULATION

Describe type:

Source latitude: 32.423138

Source datum: NAD83

Water source permit type:

Source land ownership: STATE

Water source transport method: PIPELINE

Source transportation land ownership: STATE

Water source volume (barrels): 25000

Source volume (gal): 1050000

Water source type: GW WELL

Source longitude: -103.54925

Source volume (acre-feet): 3.2223275

Water source and transportation map:

OnionKnightFed201H_BrineWtr_05-23-2017.pdf OnionKnightFed201H_FW_05-23-2017.pdf OnionKnightFed201H_FW_Alt_05-31-2017.pdf

Water source comments: Listed is preferred water source but may change due to availability. Water volume may be adjusted depending on conditions. New water well? NO

New Water Well Ir	nfo	
Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness o	of aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside	e diameter (in.):
New water well casing?	Used casing sour	rce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth	(ft.):
Well Production type:	Completion Methe	od:
Water well additional information:		
State appropriation permit:		

Additional information attachment:

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flowback water during completion operations

Amount of waste: 5000 barrels

Waste disposal frequency : Weekly

Safe containment description: Frac tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY

Disposal type description:

Disposal location description: R360 or commercial SWD, pending type of water produced

Waste type: FLOWBACK

Waste content description: Flwoback water during flowback operations

Amount of waste: 5000 barrels

Waste disposal frequency : Daily

Safe containment description: Frac tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: Commercial SWDs in area

Waste type: DRILLING

Waste content description: Drilling fluids, produced oil and water while drilling and completion operations

Amount of waste: 2500 barrels

Waste disposal frequency : Weekly

Safe containment description: All drilling and completion waste will be stored in frac tanks and disposed of properly

Safe containmant attachment:

Waste disposal type: RECYCLE Disposal location ownership: OTHER

Disposal type description:

Well Name: ONION KNIGHT FEDERAL

Disposal location description: Next well or trucked to an approved disposal facility.

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 2000 gallons

Waste disposal frequency : Weekly

Safe containment description: Wast will be properly contained and disposed of:

Safe containmant attachment:

Waste disposal type: OTHER Disposal location ownership: STATE

Disposal type description: State

Disposal location description: Hobbs Municipal Wast Facility

Waste type: PRODUCED WATER

Waste content description: Produced water during production operations

Amount of waste: 5000 barrels

Waste disposal frequency : Daily

Safe containment description: Frac tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY

Disposal type description:

Disposal location description: Commercial SWDs in area

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 1500 pounds

Waste disposal frequency : Weekly

Safe containment description: Garbage and trash produced during drilling and completion ops will be collected in portable trash trailers and disposed of properly at a state approved disposal facility. **Safe containmant attachment:**

Waste disposal type: OTHER

Disposal location ownership: STATE

Disposal type description: Landfill

Disposal location description: Lea County Landfill

Reserve Pit

Reserve Pit being used? NO

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Cuttings will be stored in steel haul off bins and taken to an NMOCD approved disposal facility.

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO **Ancillary Facilities attachment:**

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

OnionKnightFed201H_WellsiteDiagram_05-23-2017.pdf Comments: V-door may change based on rig availability.

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: During construction, proper erosion control methods will be used to control erosion, runoff and siltation of surrounding area and will be maintained to control dust and minimize erosion to extent practical.

Drainage/Erosion control reclamation: Topsoil and subsoils shall be replaced to their original relative positions and contoured as to achieve erosion control, long-term stability and preservation of surface water flow patterns. Distrubed area shall be reseeded in the first favorable growing season. Please note: Reclamation can be delayed until such time as there are no pending permits or no activity is planned for 5 years. Interim reclamation may vary pending surface conditions at the time but amount of long term disturbance will be same as described on permit.

Wellpad long term disturbance (acres): 3.37	Wellpad short term disturbance (acres): 3.37
Access road long term disturbance (acres): 0.571	Access road short term disturbance (acres): 0.571
Pipeline long term disturbance (acres): 0	Pipeline short term disturbance (acres): 0.0003939394
Other long term disturbance (acres): 0	Other short term disturbance (acres): 5.449
Total long term disturbance: 3.941	Total short term disturbance: 9.390394

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with surrounding topography as much as possible. Where applicable, any fill material of well pad will be backfilled into the cut to bring area back to original contour. **Topsoil redistribution:** Topsoils shall be replaced to their original relative positions and contoured to achieve erosion control, long term stability and preservation of surface water flow pattern. Topsoil will be revegitated over entire disturbed area not needed for all weather operations.

Soil treatment: After all disturbed areas have been properly prepared, areas will need to be seeded with recommended seed mixture, free of noxious weeds. Final seedbed prep will consist of contour cultivating to a depth of 4-6 inches within 24 hrs prior to seeding, dozer tracking or other imprinting in order to break soil crust to create seed germination micro-sites. **Existing Vegetation at the well pad**:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Non native seed description:

/ Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management	
Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding seasor
Seed Summary	Total pounds/Acre:

Seed reclamation attachment:

Seed Type

Operator Contact/Responsible Official Contact Info		
First Name:	Last Name:	
Phone:	Email:	
Seedbed prep:		
Seed BMP:		
Seed method:		
Existing invasive species? NO		
Existing invasive species treatment de	scription:	
Existing invasive species treatment att	achment:	

Pounds/Acre

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Weed treatment plan description: Standard regular weed maintenance to maintain a clear location and road on as needed basis.

Weed treatment plan attachment:

Monitoring plan description: Identify area supporting weeds prior to construction, prevent introduction and spread of weeds from construction equipment during construction and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

Monitoring plan attachment:

Success standards: Maintain all disturbed areas as per Gold Book standards. Please note: Reclamation can be delayed until such time as there are no pending permits or no activity is planned for 5 years. Interim reclamation may vary pending surface conditions at the time but amount of long term disturbance will be same as described on permit. **Pit closure description:** N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: ONION KNIGHT FEDERAL

Well Number: 201H	l
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Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Page 11 of 13

Well Name: ONION KNIGHT FEDERAL

Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: Other Local Office: USFS Region:

USFS Forest/Grassland:

Disturbance type: OTHER Describe: ELECTRICAL LINE Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland: Well Number: 201H

USFS Ranger District:

.

USFS Ranger District:

Page 12 of 13

Operator Name: APACHE CORPORATION Well Name: ONION KNIGHT FEDERAL

Well Number: 201H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: Arch survey has been completed by Boone Arch Services. Operator Rep: Larry VanGilder, Drlg Supt, 432-818-1965 or 432-557-1097; Operator Production Rep: Heath Dean, 575-631-0125. Apache plans to insall an overhead electrical line for the proposed well. Total length of line will be 7912.61 feet with approx. 30 feet of disturbance. Elect line will be constructed to provide protection from raptor electrocution. Proposed line does not cross lease boundaries. ROW grant will not need to be acquired from BLM. **Use a previously conducted onsite?** YES

Previous Onsite information: Onsite completed by Jeffery Robertson on 1/31/17 for Onion Knight Federal 201H, 202H, 203H and 204H.

Other SUPO Attachment

OnionKnightFed201H_to_207H_ElectLine_05-23-2017.pdf OnionKnightFed201H_Flowline_05-23-2017.pdf OnionKnightFed201H_NewAccessRd_05-23-2017.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

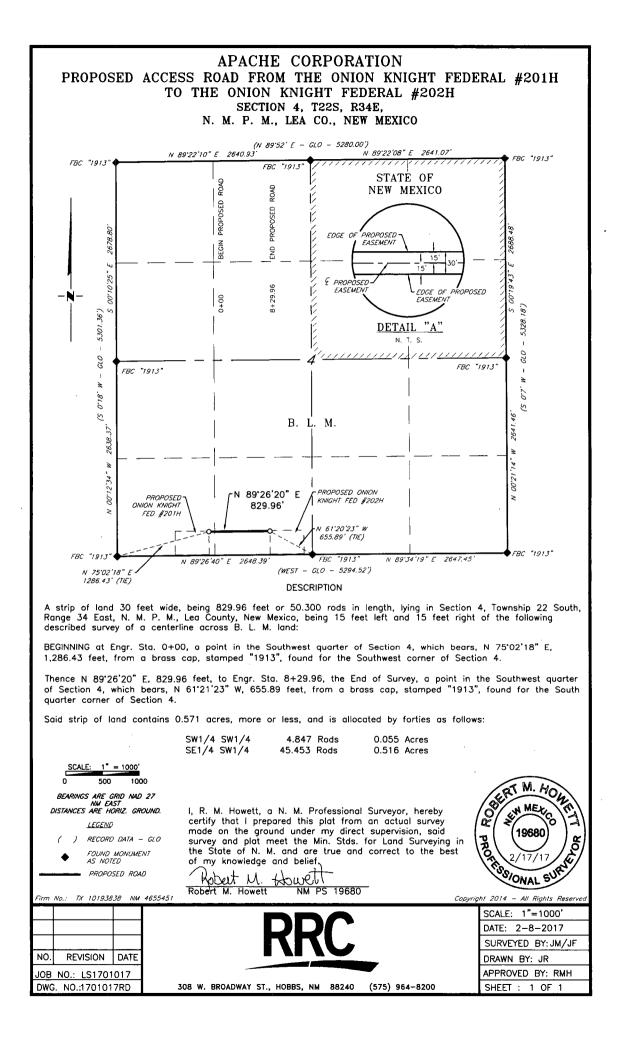
Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data Repo



Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000736

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Repor

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: