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Form 3160 -3 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OMB No. 1004-0137 Expires October 31, 2014

If Indian. Allotee or Tribe Name

la. Type of work: DRILL REENT	TFR					
	a. Type of work: DRILL REENTER					
Ib. Type of Well: Oil Well Gas Well Other	V	Single Zone Multipl	e Zone	8. Lease Name and W FLAGLER 8 FED C		32215
2. Name of Operator DEVON ENERGY PRODUCTION CO	MPANY L	6137		9. API Well No. 30-025-	450	00,1
3a. Address 333 West Sheridan Avenue Oklahoma City O		No. (include area code) 2-6571	-	10. Field and Pool. or E WC-025 G-09 S253		9818 PPER WOLI
4. Location of Well (Report location clearly and in accordance with a	any State requi	irements.*)		11. Sec., T. R. M. or Bl	k and Surv	ey or Area
At surface SWSW / 180 FSL / 350 FWL / LAT 32.1383. At proposed prod. zone NWNW / 330 FNL / 980 FWL / LA			710	SEC 8 / T25S / R33	BE / NMP	
14. Distance in miles and direction from nearest town or post office*		0247 2010 -100.0000		12. County or Parish LEA	1.	3. State
15. Distance from proposed* location to nearest 180 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. o	of acres in lease	17. Spacin 160	g Unit dedicated to this w	vell	
18. Distance from proposed location* to nearest well, drilling, completed. 30 feet applied for, on this lease, fi.	Distance from proposed location* 19. Proposed Depth 20. BLM					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3467 feet	22 Appr 12/05/2	oximate date work will stan 2018		23. Estimated duration 45 days		
	24. At	ttachments				
The following, completed in accordance with the requirements of Onsh	hore Oil and C	ias Order No.1, must be att	ached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.		Item 20 above).	•	ns unless covered by an	existing bo	nd on file (see
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office).	m Lands, the	-		ormation and/or plans as	may be rec	quired by the
25. Signature (Electronic Submission)		Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429		9	Date 02/19/2	018
Title Regulatory Compliance Professional						
Approved by (Signature) (Electronic Submission)	l l	me <i>(Primed/Typed)</i> dy Layton / Ph: (575)2	34-5959		Date 07/13/2	018
Title Assistant Field Manager Lands & Minerals	CA	fice ARLSBAD				
Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or e	quitable title to those right	s in the sub	oject lease which would e	ntitle the ap	plicant to

(Continued on page 2) GCP Rec 07/19/18

pproval Date: 07/13/2018

*(Instructions on page 2)

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.

NOTICES

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.

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: 07/13/2018

Additional Operator Remarks

Location of Well

1. SHL: SWSW / 180 FSL / 350 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.1383519 / LONG: -103.6017077 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 330 FSL / 947 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.138252 / LONG: -103.599776 (TVD: 12409 feet, MD: 12600 feet)

BHL: NWNW / 330 FNL / 980 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.1514624 / LONG: -103.5996719 (TVD: 12450 feet, MD: 17143 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934 Email: pperez@blm.gov

(Form 3160-3, page 3)

Approval Date: 07/13/2018

Review and Appeal Rights

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.

(Form 3160-3, page 4)

Approval Date: 07/13/2018

1. Geologic Formations

TVD of target	12,450'	Pilot hole depth	N/A
MD at TD:	17,143'	Deepest expected fresh water:	1100'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
	HUM KD		· · · · · · · · · · · · · · · · · · ·
RUSTLER	1145		
TOP SALT	1508		
BASE OF SALT	5000		
BELL CANYON	5000		
CHERRY CANYON	6040		
BRUSHY CANYON	7690		
BONE SPRING	9110		
BONE SPRING 1ST	10016		
BONE SPRING 2ND	10610		
BONE SPRING 3RD	11773		
WOLFCAMP	12281		
		,	
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^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole	Hole Casing Interval Cs		Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbs)			Collapse	Bur	Tension
					·			st	
14.75"	0	1,150'	10.75"	40.5	J-55	STC	1.125	1.25	1.6
9.875"	0	10,036	7.625"	29.7	P110	BTC	1.125	1.25	1.6
8.75"	10,036'	12,439'	7.625"	29.7	P110	Flushmax III	1.125	1.25	1.6
6.75"	0	11,939	5.5"	20	P110	VamTop HT	1.125	1.25	1.6
6.75"	11,939'	17,143'	5.5"	20	P110	Vam SG	1.125	1.25	1.6

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

Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
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?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
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

3. Ce	3. Cementing Program						
Casing	# Sks	Wt. lb/ gal	H₂0 gai/sk	Yld ft3/ sack	Slurry Description		
10-3/4" Surface	715	14.8	6.34	1.34	Tail: Class C Cement + 1% Calcium Chloride		
	821	9	13.5	3.27	Lead: Tuned Light® Cement		
7-5/8" Int	163	13.2	5.31	1.6	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite		
	1048	14.8	6.32	1.33	Class C Cement + 0.125 lbs/sack Poly-E-Flake		
7-5/8"	417	9	13.5	3.27	Tuned Light® Cement		
Intermediate Squeeze	163	13.2	5.31	1.6	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite		
5-1/2" Producti on	387	14.8	6.32	1.33	Class H Cement + 0.125 lbs/sack Poly-E-Flake		

If a DV tool is used, 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
10-3/4" Surface	0'	50%
7-5/8" Intermediate	0'	30%
5-1/2" Production Casing	12,239'	25%

4. Pressure Control Equipment

N A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре			Tested to:
			An	nular	X	50% of rated working pressure
9-7/8" & 8-3/4"	13-5/8"	5M	Blin	d Ram	X	
9-1/8 & 8-3/4	13-3/6	3101	Pipe	e Ram	X	5 N A
			Doub	le Ram	X	5M
			Other*			
			Annu	lar (5M)	X	70% of rated working
	·					pressure
			Blin	d Ram	X	
6-3/4"	13-5/8"	10M	Pipe	e Ram	X	
			Doub	le Ram	X	10M
			Other *			
			An	nular		
			Blin	d Ram		
			Pipe Ram			
			Double Ram			
·			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.

Y Formation integrity test will be performed per Onshore Order #2.
On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

- A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
 - Y Are anchors required by manufacturer?
- Y A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 7-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

5. Mud Program

Depth		Туре	Weight (ppg)	Viscosity	Water Loss	
From	To				5	
0	1150'	FW Gel	8.6-8.8	28-34	N/C	
1150'	12,439'	OBM/Cut Brine	9-10	34-65	N/C - 6	
12,439'	17,143'	Oil Based Mud	10-11	45-65	N/C - 6	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.					
х	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated					
1	logs run will be in the Completion Report and submitted to the BLM.					
	No Logs are planned based on well control or offset log information.					
	Drill stem test? If yes, explain					
	Coring? If yes, explain					

Add	litional logs planned	Interval		
	Resistivity Int. shoe to KOP			
	Density	Int. shoe to KOP		
X	CBL	Production casing		
X	Mud log	Intermediate shoe to TD		
	PEX			

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7000 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? Yes

- 1. In the event the spudder rig is unable to drill the surface holes the drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2. The drilling rig will then batch drill the intermediate sections with either OBM or cut brine and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3. The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Yes

- 1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 14 ¾" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3. The wellhead will be installed and tested once the 10-3/4" surface casing is cut off and the WOC time has been reached.
- **4.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.

- **6.** The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Att	achments
<u>x</u> _	Directional Plan
	Other, describe



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



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: Rebecca Deal Signed on: 02/19/2018

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City State: OK Zip: 73102

Phone: (405)228-8429

Email address: Rebecca.Deal@dvn.com

Field Representative

Representative Name: Travis Phibbs

Street Address: 6488 Seven Rivers Hwy

City: Artesia State: NM Zip: 88210

Phone: (575)748-9929

Email address: travis.phibbs@dvn.com



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



APD ID: 10400025638 Submission Date: 02/19/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Well Type: OIL WELL

Well Work Type: Drill



Show Final Text

Section 1 - General

APD ID:

10400025638

Tie to previous NOS?

Submission Date: 02/19/2018

BLM Office: CARLSBAD

Federal/Indian APD: FED

User: Rebecca Deal

Title: Regulatory Compliance

Professional Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM097151

Lease Acres: 520

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Zip: 73102

Operator City: Oklahoma City

State: OK

Operator Phone: (405)552-6571

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Field Name: WC-025 G-09

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Pool Name: UPPER

S253309A

WOLFCAMP

Well Name: FLAGLER 8 FED COM Well Number: 2H

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

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1

Well Class: HORIZONTAL

FLAGLER 8

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 180 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

Flagler_8_Fed_Com_2H_C_102_Signed_20180613094532.pdf

Well work start Date: 12/05/2018

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	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
SHL Leg #1	180	FSL	350	FWL	25\$	33E	8	Aliquot SWS W	32.13835 19	- 103.6017 077	LEA	1	NEW MEXI CO	1	NMNM 097151	346 7	0	0
KOP Leg #1	60	FSL	947	FWL	258	33E	8	Aliquot SWS W	32.1375	- 103.6009 14	LEA	1	NEW MEXI CO	(NMNM 097151	- 841 0	119 16	118 77
PPP Leg #1	330	FSL	947	FWL	25S	33E	8	Aliquot SWS W	32.13825 2	- 103.5997 76	LEA		NEW MEXI CO	1	NMNM 097151	- 894 2	126 00	124 09

Well Name: FLAGLER 8 FED COM Well Number: 2H

	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	DVT
EXIT	330	FNL	980	FWL	25S	33E	8	Aliquot	32.15146	-	LEA	NEW	NEW	F	NMNM	-	171	124
Leg	ĺ							NWN	24	103.5996		MEXI	MEXI		097904	898	43	50
#1	1		1	}				w		719		co	co	Ì		3		
BHL	330	FNL	980	FWL	25S	33E	8	Aliquot	32.15146	-	LEA	NEW	NEW	F	NMNM	-	171	124
Leg			<u> </u>			<u> </u>		NWN	24	103.5996		MEXI	MEXI		097904	898	43	50
#1								w		719		co	co			3		

ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 1 (FLAGLER 8 FED COM 18H, 23H, 14H, 36H, 30H, 6H, 2H, 10H)

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
JANUARY 29, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SW/4 OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS \$15'59'15"W, A DISTANCE OF 656.56 FEET;

THENCE NOO'22'47"W A DISTANCE OF 625.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N44'37'31"E A DISTANCE OF 35.36 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'37'55"E A DISTANCE OF 310.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST OUARTER CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N21'17'25"W, A DISTANCE OF 1456.97 FEET;

SAID STRIP OF LAND BEING 970.36 FEET OR 58.81 RODS IN LENGTH, CONTAINING 0.668 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 970.36 L.F. 58.81 RODS 0.668 ACRES

SURVEYOR CERTIFICATE

SO SOUTH RESE

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797. HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD.

W MEXICOT THIS 227 DAY TOP JANUARY 2018

MACRON SURVEY

AND SOUTH CANA

CAR SPRO. NEW

CAR SPRO.

MADRON SURVEYNY, NO 301 SOUTH CANAL CARLSBAD, NEW VEXICO 58220 Phone (\$75) 234 3341

SURVEY NO. 5809A

CARLSBAD, NEW MEXICO



Well Type: OIL WELL

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



Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured	•		Producing
ID	Formation Name	Elevation	Depth: 3-	Depth	Lithologies	Mineral Resources	Formation
1		3467	0	0	OTHER : Surface	NONE	No
2	RUSTLER	2322	1145	1145	SANDSTONE	NONE	No
3	TOP SALT	1959	1508	1508	SALT	NONE	No
4	BELL CANYON	-1533	5000	5000	SANDSTONE	NATURAL GAS,OIL	No
5	BASE OF SALT	-1533	5000	5000	LIMESTONE	NONE	No
6	CHERRY CANYON	-2573	6040	6040	SANDSTONE	NATURAL GAS,OIL	No
7	BRUSHY CANYON	-4223	7690	7690	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING	-5643	9110	9110	SHALE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-6549	10016	10016	SANDSTONE	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-7143	10610	10610	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 3RD	-8306	11773	11773	SANDSTONE	NATURAL GAS,OIL	No
12	WOLFCAMP	-8814	12281	12281	SHALE	NATURAL GAS,OIL	Yes
13	STRAWN	-14218	17685	17685	LIMESTONE	NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Well Name: FLAGLER 8 FED COM Well Number: 2H

Pressure Rating (PSI): 10M

Rating Depth: 12450

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Flagler_8_Fed_Com_2H_10M_BOPE_CHK_20180613094634.pdf

BOP Diagram Attachment:

Flagler_8_Fed_Com_2H_10M_BOPE_CHK_20180613094644.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12400

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Flagler_8_Fed_Com_2H_5M_BOPE__CK_20180626085715.pdf

BOP Diagram Attachment:

Flagler 8 Fed Com 2H 5M BOPE CK 20180626085738.pdf

Weil Name: FLAGLER 8 FED COM Well Number: 2H

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	SURFACE	14.7 5	10.75	NEW	API	N	0	1150	0	1150			1150	J-55	40.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
1	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10039	0	10000			10039	P- 110	1	OTHER - BTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
_	INTERMED IATE	8.75	7.625	NEW	API	N	10039	12439	10000	12400				P- 110	ı	OTHER - FLUSHMAX		1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	17143	0	12450			17143	P- 110	-	h	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Flagler_8_Fed_Com_2H_Surf_Csg_Ass_20180219081737.pdf

Ca	sing Attachments
	Casing ID: 2 String Type:INTERMEDIATE
	Inspection Document:
	Spec Document:
	Tapered String Spec:
	Casing Design Assumptions and Worksheet(s):
	Flagler_8_Fed_Com_2H_Int_Csg_Ass_20180219081843.pdf
	Casing ID: 3 String Type: INTERMEDIATE
	Inspection Document:
	Spec Document:
	Tapered String Spec:
	Casing Design Assumptions and Worksheet(s):
	Flagler_8_Fed_Com_2H_Int_Csg_Ass_20180219081958.pdf
	Casing ID: 4 String Type:PRODUCTION
	Inspection Document:
	Spec Document:
	Tapered String Spec:
	Casing Design Assumptions and Worksheet(s):
	Flagler_8_Fed_Com_2H_Prod_Csg_Ass_20180219082054.pdf
	·

Well Number: 2H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED COM

Section 4 - Cement

Well Name: FLAGLER 8 FED COM Well Number: 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	SEE DRILLING PLAN & CONTINGENCY DOCUMENT	N/A

SURFACE	Lead	-	0	1100	715	1.34	14.8	960	50	CLASS C	1% Calcium Chloride
	<u>.</u> .										

INTERMEDIATE	Lead	0	1133 9	824	3.27	9	2695	30	TUNED	Tuned Light
INTERMEDIATE	Tail	1093 9	1243 9	163	1.6	13.2	261	30	CLASS H	Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
PRODUCTION	Lead	1223 9	1714 3	387	1.33	14.8	515	25	CLASS H	0.125 lbs/sack Poly-E- Flake

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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1150	SPUD MUD	8.33	9				2			·
1150	1243 9	WATER-BASED MUD	9	10				2			
1150	1243 9	WATER-BASED MUD	9	10				2			
1243 9	1714 3	OIL-BASED MUD	10	11				12			

Section 6 - Test, Logging, Coring

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

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

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

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7000

Anticipated Surface Pressure: 4261

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Flagler_8_Fed_Com_2H_H2S_Plan_20180216091824.pdf

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Flagler_8_Fed_Com_2H___DIR_PLAN_Plot_20180219083018.pdf

Flagler 8 Fed Com 2H DIRECTIONAL PLAN 20180219083019.pdf

Other proposed operations facets description:

MULTI-BOWL VERBIAGE
MULTI-BOWL WELLHEAD
CLOSED LOOP DESIGN PLAN
DRILLING PLAN
DRILLING CONTINGENCY
CO-FLEX HOSE
SPUDDER RIG REQUEST
3 SPEC SHEETS
10M ANNULAR VARIANCE DOC & SCHEMATIC
GCP FORM

Other proposed operations facets attachment:

Flagler_8_Fed_Com_2H_Clsd_Loop_20180219083341.pdf

Flagler_8_Fed_Com_2H_DRLG_CONT_20180219083341.pdf

Flagler_8_Fed_Com_2H_Spudder_Rig_Info_20180219083830.pdf

Flagler_8_Fed_Com_2H_5.5_x_20_P110_EC_VAMSG_20180613094830.pdf

Flagler_8_Fed_Com_2H_5.5_x_20_P110_EC_VAMTOP_HT_20180613094830.pdf

Flagler_8_Fed_Com_2H_7.625_29.70_P110_Flushmax_20180613094831.pdf

Flagler_8_Fed_Com_2H_Annular_Preventer_Summary_20180613094851.pdf

Flagler 8 Fed Com 2H GCP Form 20180613094851.pdf

Flagler 8 Fed Com_2H_MB_Verb_10M_20180613094852.pdf

Flagler_8_Fed_Com_2H_MB_Wellhd_10M_20180613094853.pdf

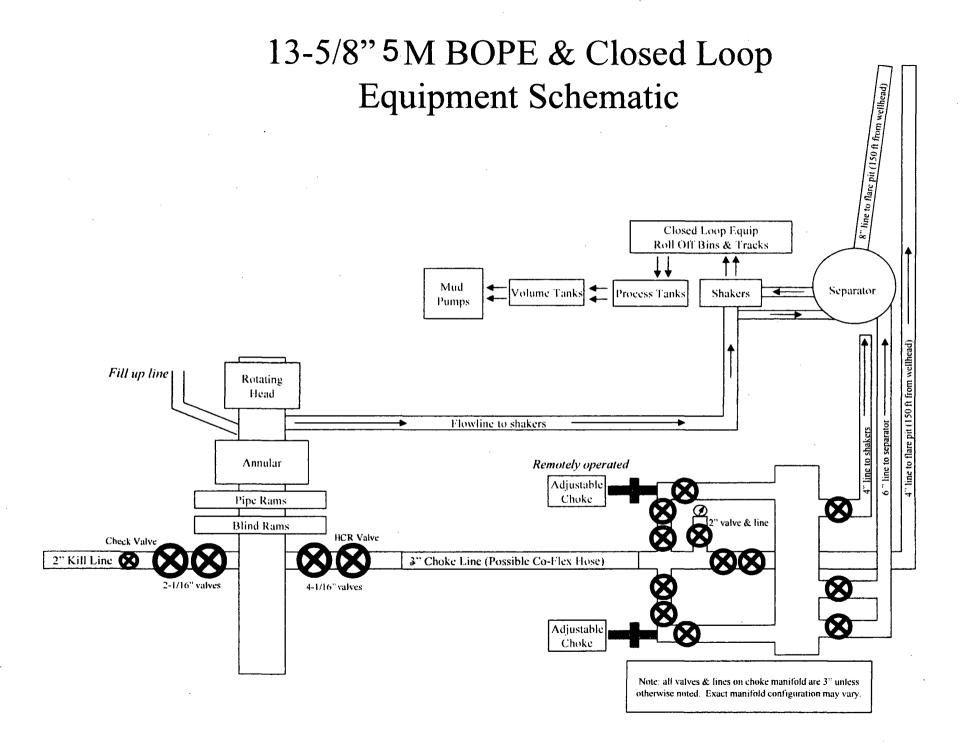
Flagler_8_Fed_Com_2H_10M_BOPE_Double_Ram_and_CLS_Exception_Schematic___For_Annular_Exception_20180613

094916.pdf

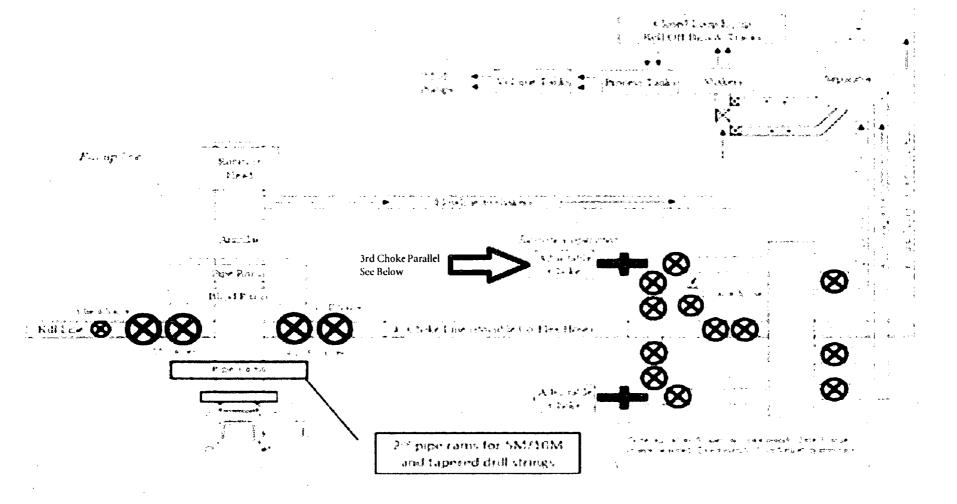
Flagler 8 Fed Com 2H Drilling Document 10M 20180626085516.pdf

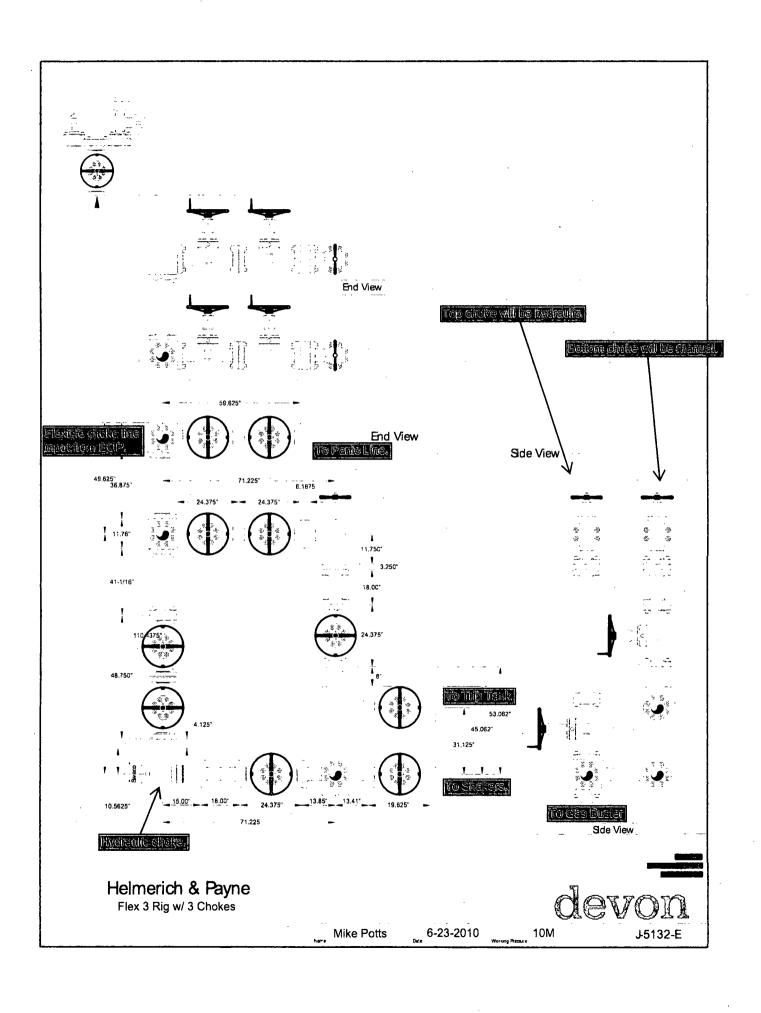
Other Variance attachment:

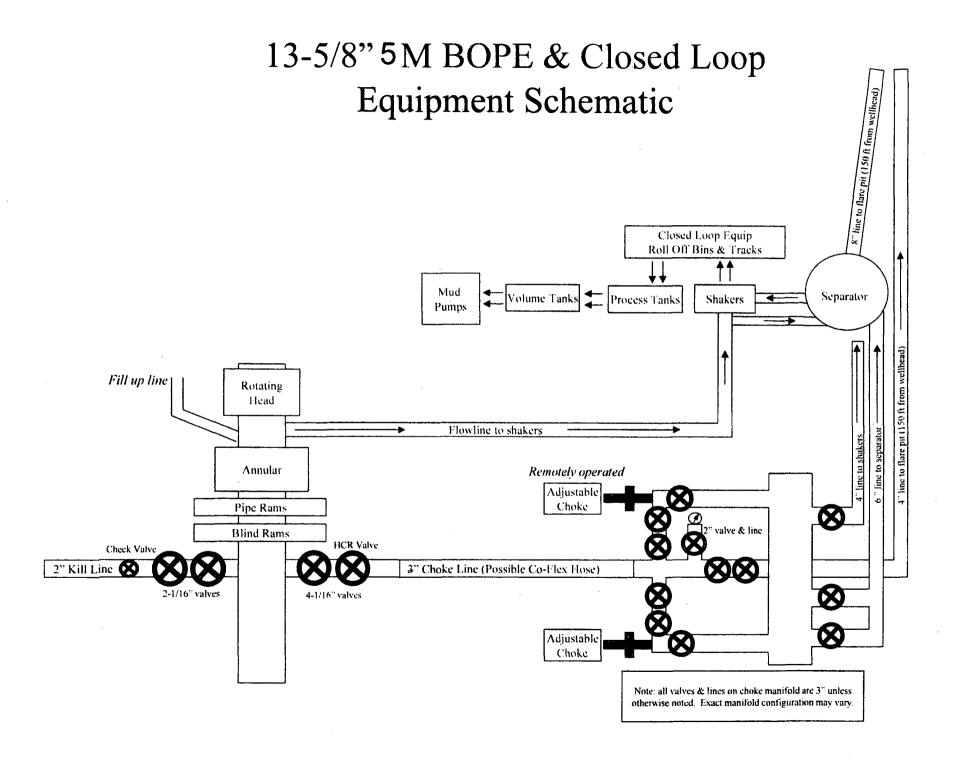
Flagler_8_Fed_Com_2H_Co_flex_20180219083135.pdf



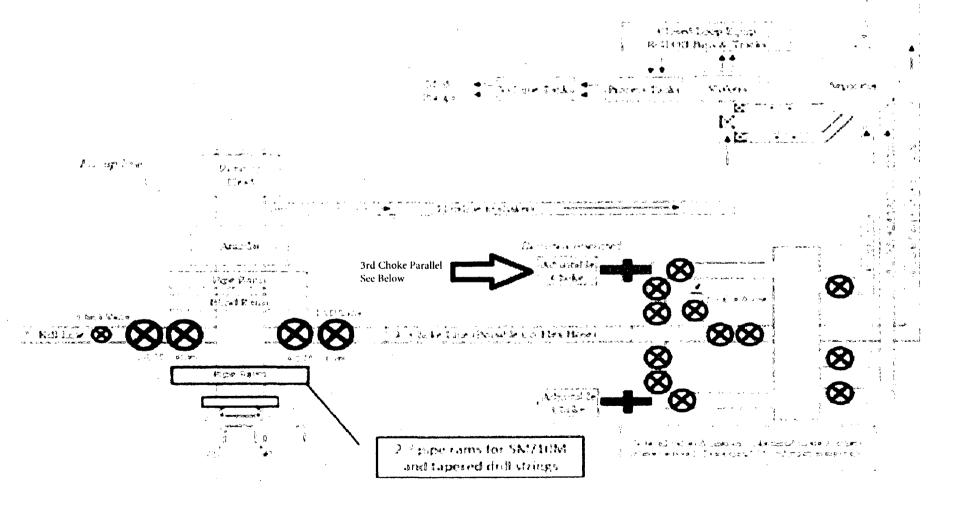
10M BOPE & Closed Loop Equipment Schematic

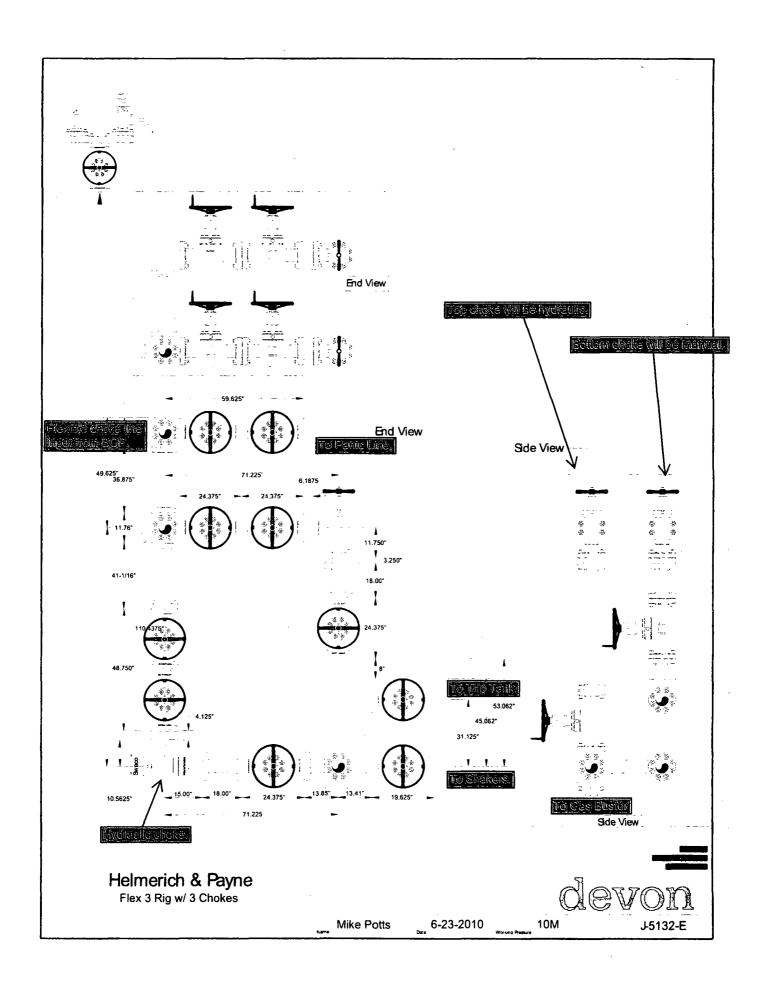






10M BOPE & Closed Loop Equipment Schematic





Surface Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

Surface Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surface Casing Tension Design	
Load Case Assumptions	
Overpull 100kips	
Runing in hole 3 ft/s	
Service Loads N/A	

Casing Assumptions and Load Cases

Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole	2 ft/s	
Service Loads	N/A	

Casing Assumptions and Load Cases

Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case External Pressure Internal Pressure		Internal Pressure
Full Evacuation	Water gradient in cement, mud abové TOC	None .
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design	
Load Case Assumptions	
Overpull 100kips	
Runing in hole 2 ft/s	
Service Loads N/A	

Production Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid

Production Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC.	None
Cementing	Wet cement weight	Water (8.33ppg)

Production Casing Tension Design	
Load Case Assumptions	
Overpull 100kips	
Runing in hole 2 ft/s	
Service Loads N/A	

A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

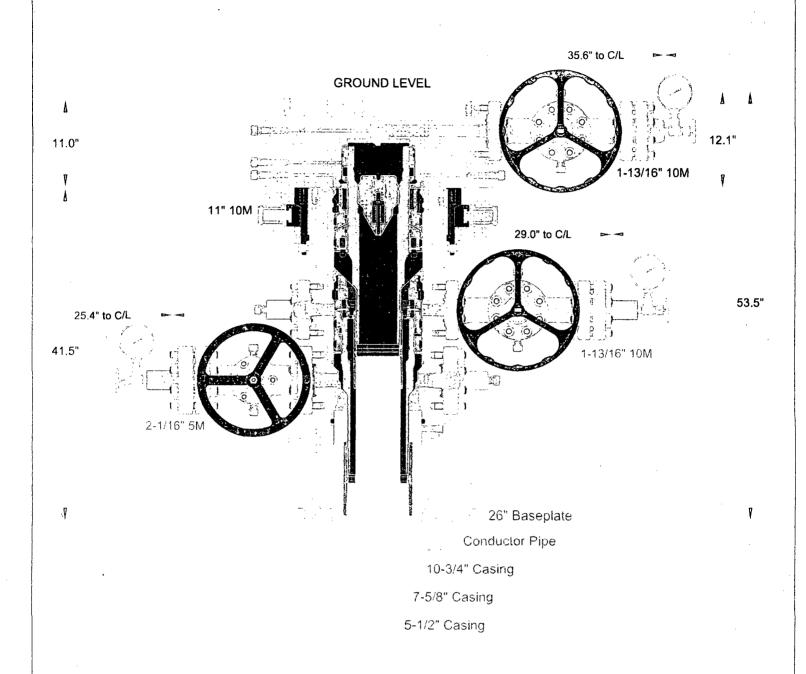
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 7-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 10,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.



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CACTUS WELLHEAD LLC

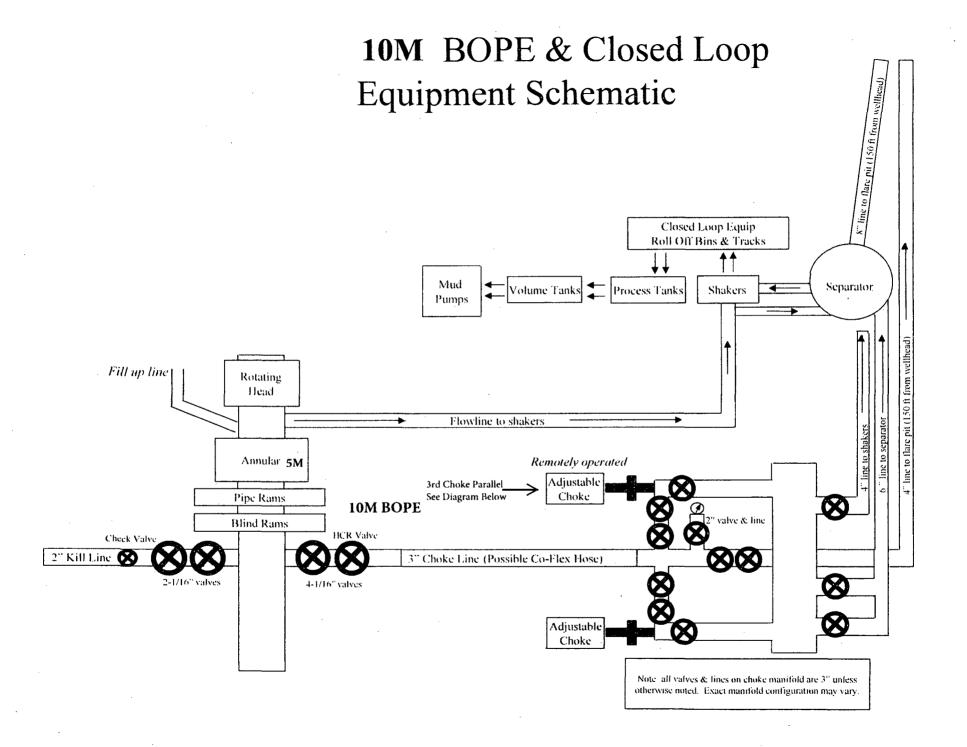
16" x 11-7/8" x 7-5/8" MBU-T Wellhead Assembly With 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers And 11" 10M MBU-T-HPS-F TA Cap

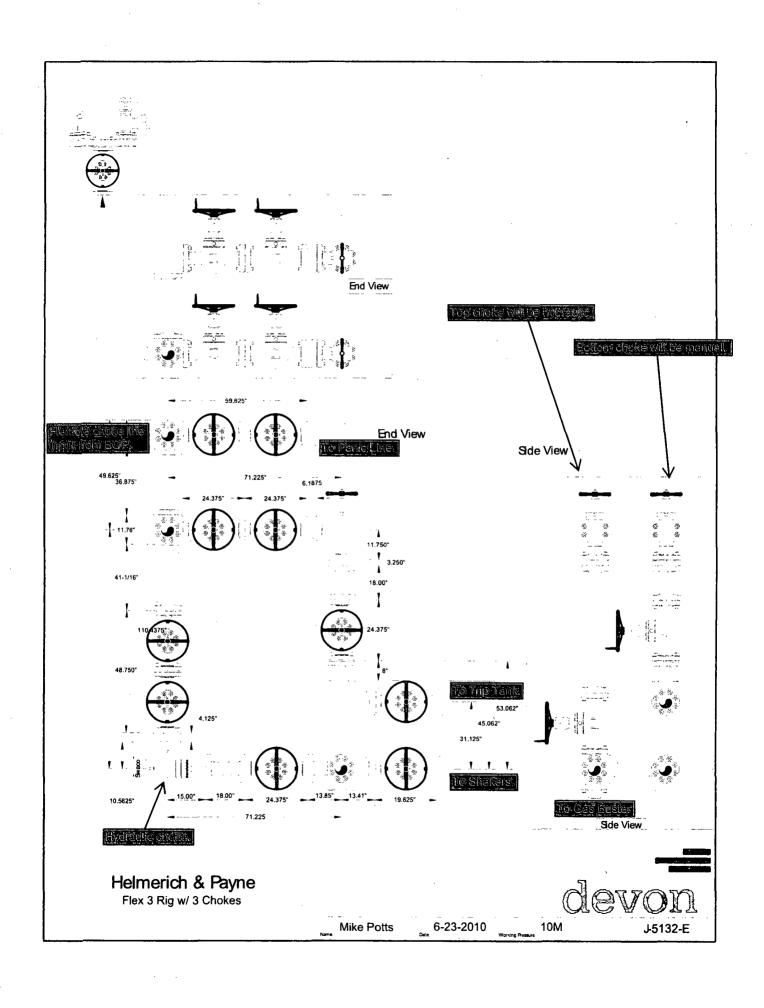
DEVON ENERGY CORPORATION

DRAWN DLE 29NOV17
APPRV

DRAWING NO.

OKE0001764







Fluid Technology

ContiTech Beattle Corp.
Website: www.contitechbeattle.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longavity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

Should you have any questions or require any additional information/darifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContTech Beattle Corp

Contifiech Beattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phoner +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contilechbeatle.com



R16 212



QUALITY DOCUMENT

PHOENIX RUBBER

728 Szeced, Budacest út 10, Namagy v H-8701 Szeced, P. O. Box 152 SALES & MARKETING: H-1082 Budacest Raday u, 42-44 Hungary v H-1440 Budacest, P. O. Box 26

•6728 Szeged, Budapesti úl 10. Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 556-737 • Fax: (3662) 556-738 SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44, Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 · Fax: (361) 217-2972, 456-4273 · www.taurusemerga.hu

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> VERIFIED TRUE CO. PHOENIX RUBBER C.C.

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



APD ID: 10400025638

Well Type: OIL WELL

Submission Date: 02/19/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED COM

Well Number: 2H

Well Work Type: Drill



Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Flagler 8_Fed_Com 2H Access_Rd_20180216093014.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

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:

Flagler_8_Fed_Com_2H_New_Access_Rd_20180219084210.pdf

New road type: LOCAL

Length: 970.4

Feet

Width (ft.): 30

Max slope (%): 6

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water Drainage Ditch

New road access plan or profile prepared? YES

New road access plan attachment:

Flagler_8_Fed_Com_2H_New_Access_Rd_20180219084226.pdf

Access road engineering design? YES

Well Name: FLAGLER 8 FED COM Well Number: 2H

Access road engineering design attachment:

Flagler_8_Fed_Com_2H_New_Access_Rd_20180219084235.pdf

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: See attached Interim reclamation diagram.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Water Drainage Ditch

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:

Flagler_8_Fed_Com_2H_One_Mile_Radius_Map_20180216093547.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: 14 ATTACHMENTS - FLAGLER WELLPAD 1 & CTB 1 - 3 BATT CONN PLATS, CTB PAD AND ELECTRIC PLAT, 4 LATERAL PLATS, WELLPAD PLAT, 2 WELLPAD CTB TO FLOWLINE PLATS, WELLPAD ELECTRIC PLAT AND MULTI USE EASEMENT PLAT.

Production Facilities map:

Flagler_8_Fed_Com_2H_BATCON_CRUDE_20180216094912.PDF

Flagler 8 Fed Com 2H BATCON_H2O 20180216094916.PDF

Flagler 8 Fed Com 2H BATCON GAS 20180216094913.PDF

Well Name: FLAGLER 8 FED COM Well Number: 2H

Flagler 8 Fed Com 2H CTB 1 ELE 20180216094917.PDF

Flagler_8_Fed_Com_2H_CTB_1_PAD_20180216094922.pdf

Flagler_8_Fed_Com_2H_LATERAL_ELE_20180216094925.PDF

Flagler_8_Fed_Com_2H_LATERAL_CRUDE_20180216094929.PDF

Flagler_8_Fed_Com_2H_LATERAL_20180216094928.PDF

Flagier_8_Fed_Com_2H_LATERAL_ELE_SNM_20180216094931.PDF

Flagler_8_Fed_Com_2H_WELLPAD_1_20180216094940.pdf

Flagler 8 Fed Com 2H WP 1 CTB 1 FL 20180216094943.PDF

Flagler_8_Fed_Com_2H_WP_1_ELE_20180216094945.PDF

Flagler_8_Fed_Com_2H_WP_2_TO_CTB_1_FL_20180216094947.PDF

Flagler_8_Fed_Com_2H_MULTI_USE_EASE_20180216095154.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 200000

Source volume (acre-feet): 25.77862

Source volume (gal): 8400000

Water source and transportation map:

Flagler_8_Fed_Com_2H_WP_1_WATER_MAP_20180216100302.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well Name: FLAGLER 8 FED COM Well Number: 2H

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. See attached map.

Construction Materials source location attachment:

Flagler_8_Fed_Com_2H_WP_1_Caliche_Map_20180216100550.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water Based and Oil Based Cuttings

Amount of waste: 1740 barrels

Waste disposal frequency : Daily Safe containment description: N/A

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: All cuttings will disposed of at R360, Sundance, or equivalent.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000

barrels

Waste disposal frequency: One Time Only

Safe containment description: N/A

Safe containment attachment:

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

FACILITY

Disposal type description:

Well Name: FLAGLER 8 FED COM Well Number: 2H

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: PRODUCED WATER

Waste content description: Produced formation water

Amount of waste: 2000

barrels

Waste disposal frequency: Daily Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: FLOWBACK

Waste content description: Produced formation water

Amount of waste: 3000

barrels

Waste disposal frequency: Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Reserve Pit

Reserve Pit being used? NO

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

Well Name: FLAGLER 8 FED COM Well Number: 2H

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (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:

Flagler_8_Fed_Com_2H_Well_Layout_20180216105500.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance M

Multiple Well Pad Name: FLAGLER 8

Multiple Well Pad Number: 1

Recontouring attachment:

Flagler_8_Fed_Com_2H_Interim_Recl_20180216105654.pdf

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable. **Drainage/Erosion control reclamation**: Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season.

Well Name: FLAGLER 8 FED COM Well Number: 2H

Well pad proposed disturbance

(acres): 8.265

Road proposed disturbance (acres):

0.668

Powerline proposed disturbance

(acres): 0.231

Pipeline proposed disturbance

(acres): 0.069

Other proposed disturbance (acres): 0

Total proposed disturbance: 9.233

3.712

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 3.712

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 4.553

Road long term disturbance (acres):

0.668

Powerline long term disturbance

(acres): 0.231

Pipeline long term disturbance

(acres): 0.069

Other long term disturbance (acres): 0

Total long term disturbance: 5.521

Disturbance Comments:

Reconstruction method: Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

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:

Well Name: FLAGLER 8 FED COM Well

Well Number: 2H

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 season:
Seed Summary	Total pounds/Acre:
Seed Type Pounds/Acre	9
Seed reclamation attachment: Operator Contact/Responsible Of	ficial Contact Info
First Name: Travis	Last Name: Phibbs
Phone: (575)748-9929	Email: travis.phibbs@dvn.com
Seedbed prep:	
Seed BMP:	
Seed method:	
Existing invasive species? NO	
Existing invasive species treatment description	:
Existing invasive species treatment attachment:	
Weed treatment plan description: Maintain weeds	s on an as need basis.
Weed treatment plan attachment:	
$\textbf{Monitoring plan description:} \ \ \textbf{Monitor as needed}.$	
Monitoring plan attachment:	

Success standards: N/A

Pit closure attachment:

Pit closure description: N/A

Well Name: FLAGLER 8 FED COM Well Number: 2H

Section 11 - Surface Ownership

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:
·
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:
Military Local Office:
Military Local Office: USFWS Local Office:

USFS Region:

USFS Ranger District:

Well Name: FLAGLER 8 FED COM	Well Number: 2H
USFS Forest/Grassland:	USFS Ranger District:
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: 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:

Well Name: FLAGLER 8 FED COM

Well Number: 2H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW - O&G Pipeline,289001 ROW- O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information: PERMITTING EIGHT WELLS ON PAD. PLEASE SEE C-102 FOR GRADING PLAN PLATS.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite 11/9/2017

Other SUPO Attachment



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 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?

Lined pit precipitated solids disposal schedule attachment:

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
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 attachn	nent:
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 u	ise?
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total D that of the existing water to be protected?	Dissolved Solids (TDS) concentration equal to or less than
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:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	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:	PWD disturbance (acres):
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:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	

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

Bond Info Data Report 07/16/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

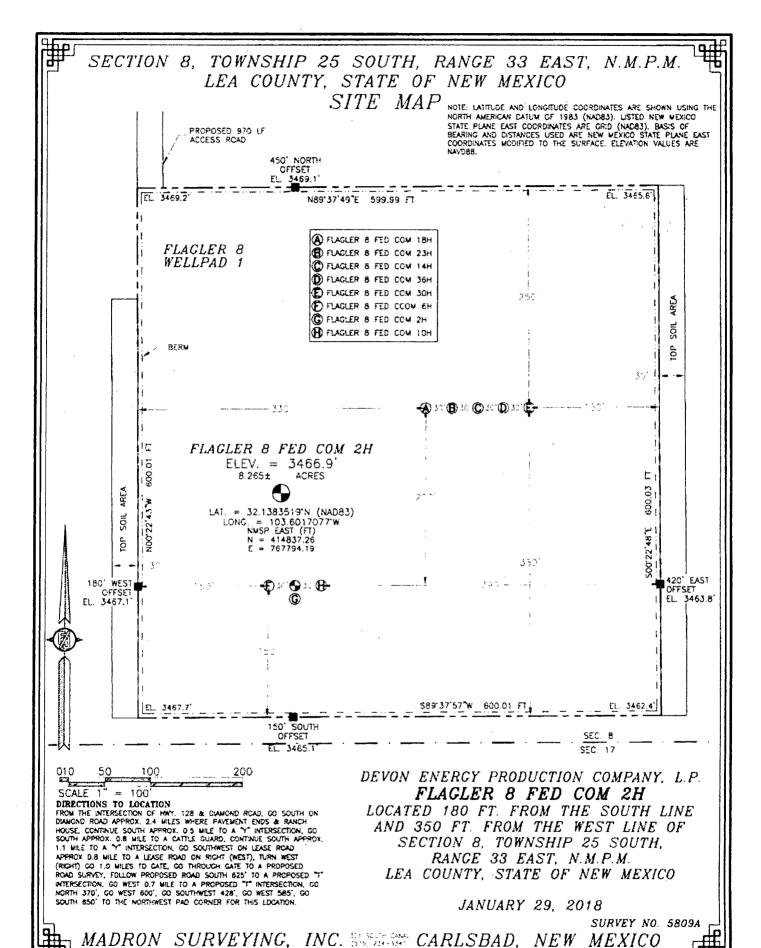
Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



MEXICO