Form 3160 -3

FORM APPROVED

OMB No. 1004-0137 Expires October 31, 2014 (March 2012) Lease Serial No. DEPARTMENT OF THE INTE NMNM097151 BUREAU OF LAND MANAGEMENT If Indian, Allotce or Tribe Name APPLICATION FOR PERMIT TO DRILL OR RED 7 If Unit or CA Agreement, Name and No DRILL la. Type of work: REENTER 8. Lease Name and Well No. Oil Well Gas Well Other ✓ Single Zone Multiple Zone FLAGLER 8 FED 5H lb. Type of Well: Name of Operator **DEVON ENERGY PRODUCTION COMPANY LP** 70-025-3a. Address 3b. Phone No. (include area code) 333 West Sheridan Avenue Oklahoma City Ok (405)552-6571 WC-025 G-09 S253309A / UP 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SESE / 180 FSL / 670 FEL / LAT 32.1378519 / LONG -103.5857514 SEC 8 / T25S / R33E / NMP At proposed prod. zone NENE / 330 FNL / 360 FEL / LAT 32.151463 / LONG -103.5868979 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office* NM LEA 17. Spacing Unit dedicated to this well Distance from proposed* 16. No. of acres in lease 15. location to nearest 180 feet 520 160 property or lease line, ft. (Also to nearest drig, unit line, if any) 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location* to nearest well, drilling, completed, 118 feet 12450 feet / 17117 feet FED: CO1104 applied for, on this lease, ft. 22. Approximate date work will start* 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 12/05/2018 3429 feet 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429 02/26/2018 (Electronic Submission) Title Regulatory Compliance Professional Name (Printed/Typed) Approved by (Signature) (Electronic Submission) Cody Layton / Ph: (575)234-5959 07/09/2018 Office Title CARLSBAD Supervisor Multiple Resources Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

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.

(Continued on page 2)

GCP Ren 07/19/18

(Instructions on page 2)

proval Date: 07/09/2018

Doble ged

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: 07/09/2018

Additional Operator Remarks

Location of Well

1. SHL: SESE / 180 FSL / 670 FEL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.1378519 / LONG: -103.5857514 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 360 FEL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.138754 / LONG: -103.587001 (TVD: 12401 feet, MD: 12550 feet)

BHL: NENE / 330 FNL / 360 FEL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.151463 / LONG: -103.5868979 (TVD: 12450 feet, MD: 17117 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: 07/09/2018

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)

Issued on: 31 Mar. 2014



Connection Data Sheet

 OD
 Weight
 Wall Th.
 Grade
 API Drift
 Connection

 5 1/2 in.
 20.00 lb/ft
 0.361 in.
 P110 EC
 4.653 in.
 VAM® TOP HT

PIPE PROPERTIES	
Nominal OD	5.500 in.
Nominal ID	4.778 in.
Nominal Cross Section Area	5.828 sqin.
Grade Type	High Yield
Min. Yield Strength	125 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	135 ksi

CONNECTION PR	OPERTIES
Connection Type	Premium T&C
Connection OD (nom)	6.071 in.
Connection ID (nom)	4.715 in.
Make-up Loss	4.382 in.
Coupling Length	10.748 in.
Critical Cross Section	5.828 sqin.
Tension Efficiency	100 % of pipe
Compression Efficiency	80 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

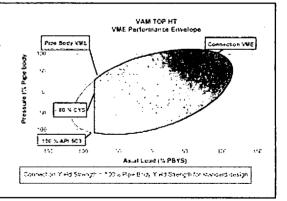
CONNECTION PERFORMANCES		
Tensile Yield Strength	729 klb	
Compression Resistance	583 klb	
Internal Yield Pressure	14360 psi	
External pressure resistance	12090 psi	
Max. bending with sealability	30 °/100 ft	
Max. Load on Coupling Face	388 klb	

TORQUE VALUES	
Min. Make-up torque	10850 ft.lb
Opti. Make-up torque	11950 ft.lb
Max. Make-up torque	13050 ft.lb
Field Liner Max	15900 ft.lb
Mill and Licensees Torque - Min	15900 ft.lb
Mill and Licensees Torque - Max	17500 ft.lb

VAM® TOP HT (High Torque) is a T&C connection based on the main features of the VAM® TOP connection.

This connection provides reinforced torque capability for liners and where High Torque is anticipated due to string rotation during running operations (torque rotating liner while running, rotating casing when cementing). It has been tested as per ISO13679 CAL IV requirements.

VAM® TOP HT is interchangeable with VAM® TOP product line with the exception of 4 1/2" size.



Do you need help on this product? - Remember no one knows VAM® like VAM

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubai@vamfieldservice.com nigerla@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big 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 BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

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	uning in hole 2 ft/s	
Service Loads N/A		

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

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		

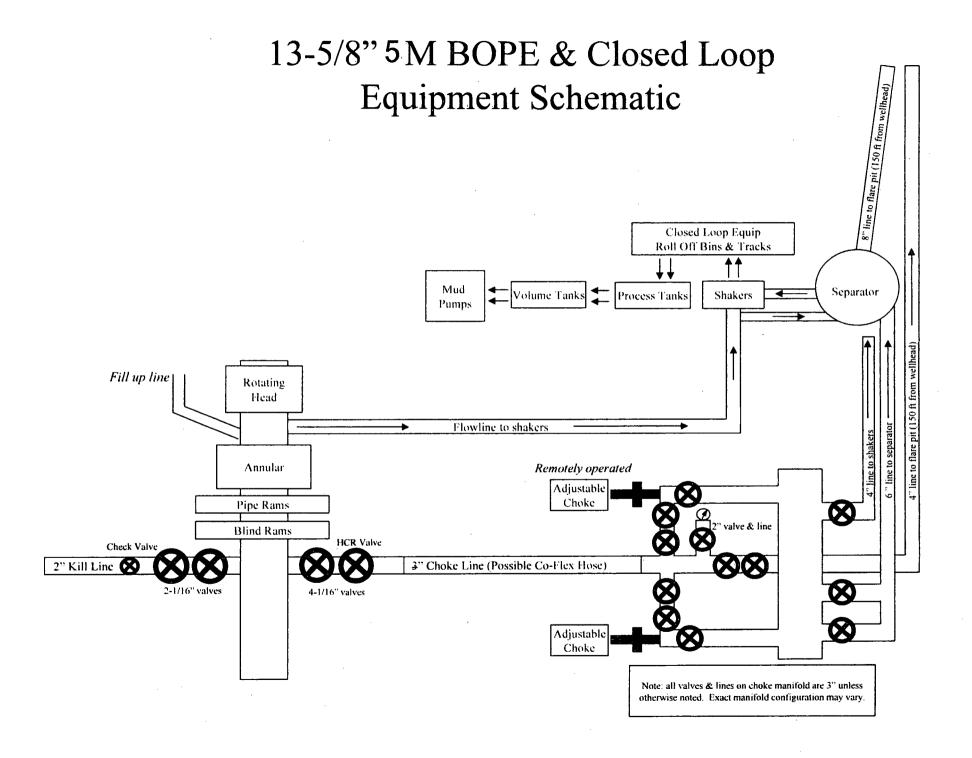
Intermediate

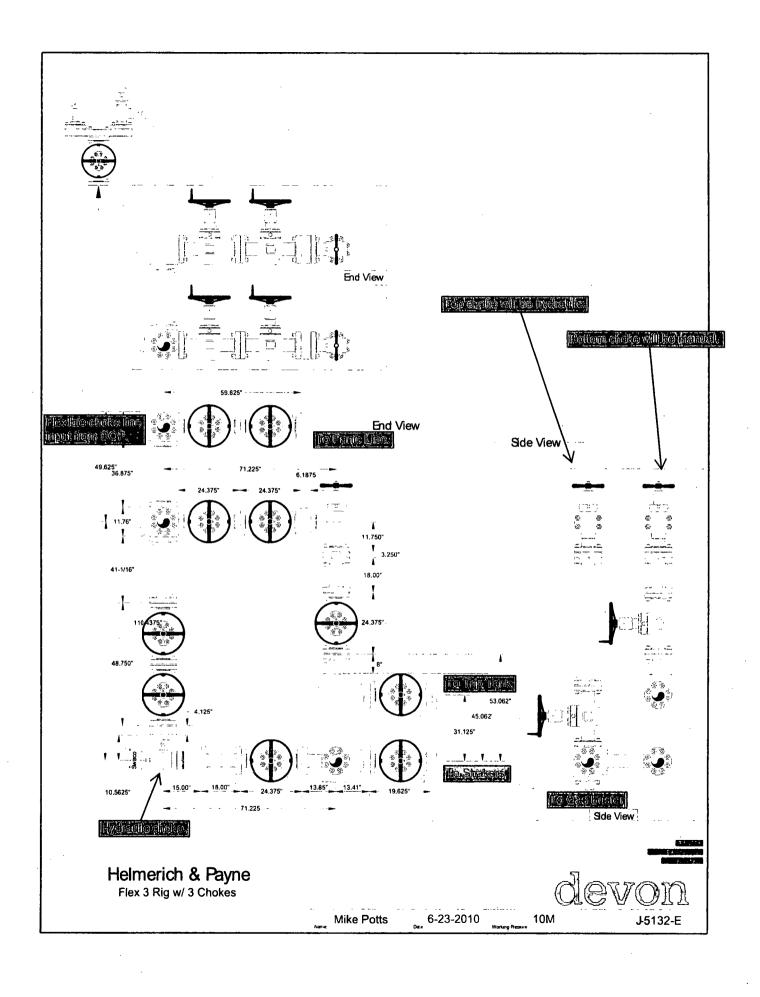
All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

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	

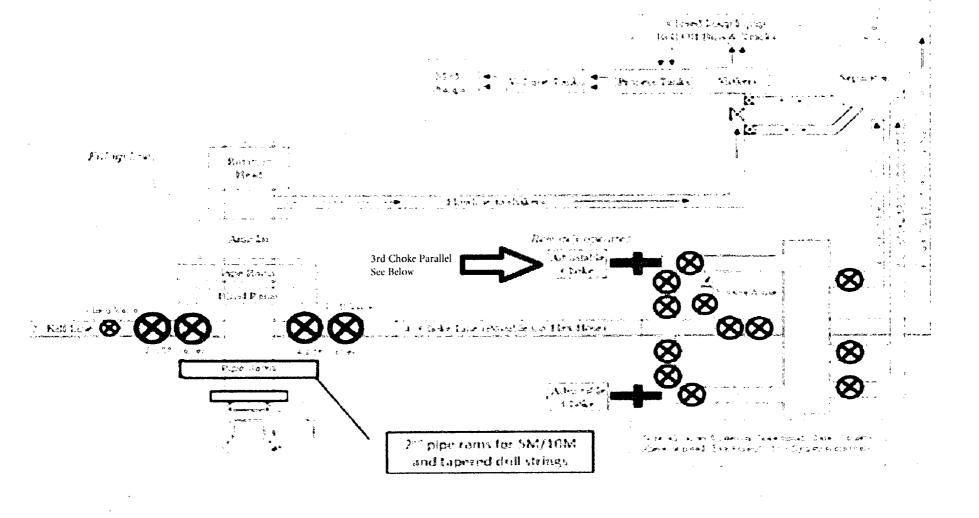
Intermediate Casing Collapse Design					
Load Case External Pressure Internal Pressure				Load Case	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None			
Cementing	Wet cement weight	Water (8.33ppg)			

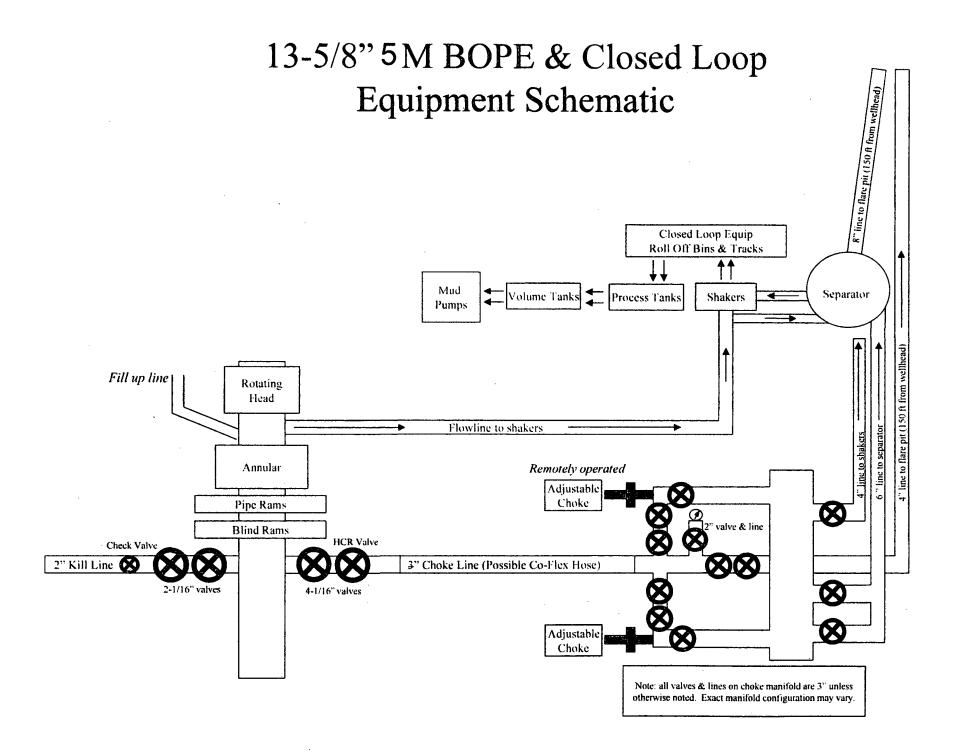
Intermediate Casing Tension Design							
Load Case	Assumptions						
Overpull	100kips						
Runing in hole	2 ft/s						
Service Loads	N/A						

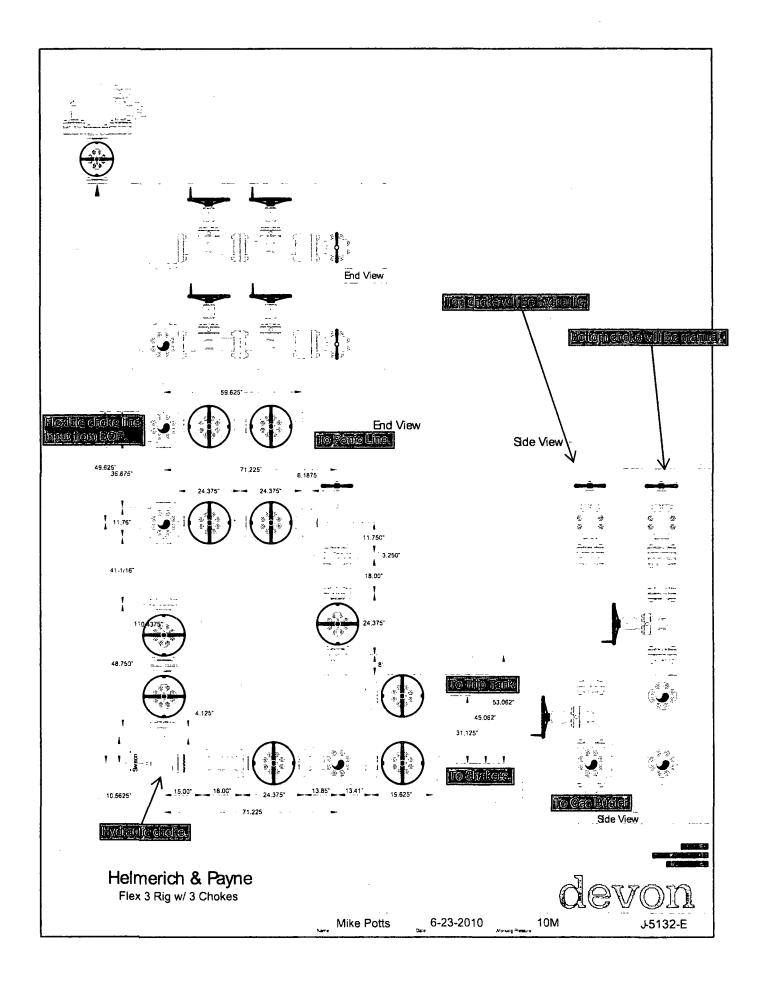




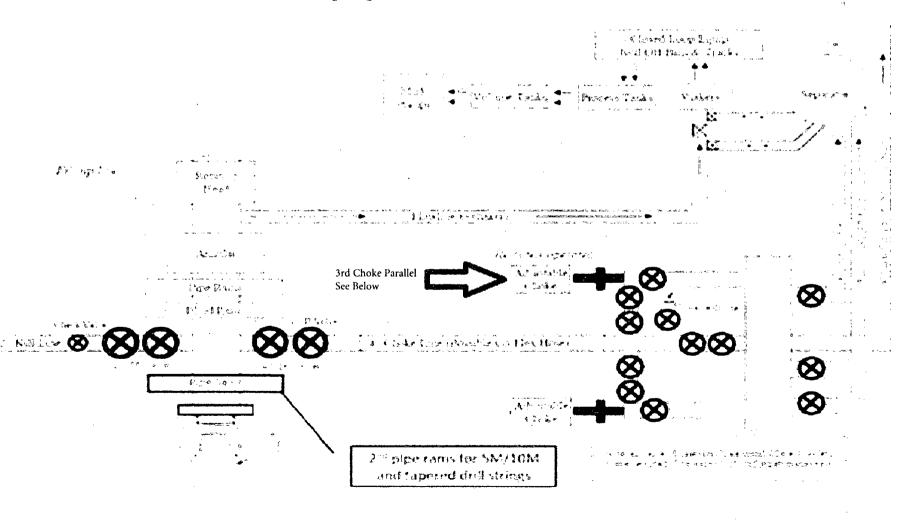
10M BOPE & Closed Loop Equipment Schematic







10M BOPE & Closed Loop Equipment Schematic



Well Name: FLAGLER 8 FED Well Number: 5H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Flagler_8_Fed_5H_Dir_Plan___AC_20180226100438.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
GCP FORM

Other proposed operations facets attachment:

Flagler 8 Fed 5H Clsd Loop 20180226100543.pdf

Flagler_8_Fed_5H_Drlg_Cont_20180226100545.pdf

Flagler_8_Fed_5H_Spudder_Rig_Info_20180226100626.pdf

Flagler_8_Fed_5H_5.5_x_20_P110_EC_VAMSG_20180613151647.pdf

Flagler 8 Fed 5H 5.5 x 20 P110 EC VAMTOP HT 20180613151647.pdf

Flagler_8_Fed_5H_7.625_29.70_P110_Flushmax_20180613151648.pdf

Flagler_8_Fed_5H_Annular_Preventer_Summary_20180613151651.pdf

Flagler_8_Fed_5H_GCP_Form_20180613151652.pdf

Flagler 8 Fed 5H MB Wellhd 10M 20180613151653.pdf

Flagler 8 Fed 5H MB Verb 10M 20180613151652.pdf

Flagler_8_Fed_5H_10M_BOPE_Double_Ram_and_CLS_Exception_Schematic___For_Annular_Exception_20180613151707.pdf

Flagler_8_Fed_5H_Drilling_Document_10M_20180626143120.pdf

Flagler 8 Fed 5H MB Verb 5M 20180626143123.pdf

Flagler_8_Fed_5H_MB_Wellhd_5M_20180626143243.pdf

Other Variance attachment:

Flagler_8_Fed_5H_Co_flex_20180226100618.pdf

Well Name: FLAGLER 8 FED Well Number: 5H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1150	SPUD MUD	8.33	9				2	. = 1		
1150	1241 0	WATER-BASED MUD	9	10				2			
1150	1241 0	WATER-BASED MUD	9	10				2			
1240 2	1711 7	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: 7121

Anticipated Surface Pressure: 4382

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_Federal_5H_H2S_Plan_20180226100421.pdf

Well Name: FLAGLER 8 FED Well Number: 5H

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		SEE DRLG PLAN & CONTINGENCY PLAN	N/A

SURFACE	Lead	0	1150	715	1.34	14.8	960	50	CLASS C	1% Calcium Chloride

INTERMEDIATE	Lead	0	1041 0	824	3.27	9	2695	30	TUNED	Tuned Light
INTERMEDIATE	Tail	1041	1241 0	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	1221 0	1711 7	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

Casing Attachments		
Casing ID: 2	String Type:INTERMEDIATE	
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	ions and Worksheet(s):	
Flagler_8_Fed_5H_	Int_Csg_Ass_20180226095428.pdf	
Casing ID: 3	String Type:INTERMEDIATE	
Inspection Document:	•	
Spec Document:		
Tapered String Spec:		
Casing Design Assump	ions and Worksheet(s):	
Flagler_8_Fed_5H_	Int_Csg_Ass_20180226095504.pdf	
Casing ID: 4	String Type:PRODUCTION	
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumpt	ions and Worksheet(s):	
Flagler_8_Fed_5H_	Prod_Csg_Ass_20180226095527.pdf	

Well Number: 5H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Section 4 - Cement

Well Name: FLAGLER 8 FED Well Number: 5H

Section 3 - Casing

Casing ID	String Type	Hote 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 tength 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	o	1150	0	1150			1150	J-55	40.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
}	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10010	0	10000			10010	P- 110	ı	OTHER - BTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
l.	INTERMED IATE	8.75	7.625	NEW	API	N	10010	12410	10000	12400				P- 110		OTHER - FLUSHMAX	l .	1.25	BUOY	1.6	BUOY	1.6
l.	PRODUCTI ON	6.75	5.5	NEW	API	N	0	17117	0	12450			17117	P- 110		OTHER - VAM SG	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

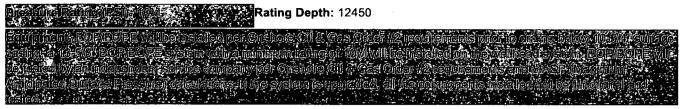
Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Flagler_8_Fed_5H_Surf_Csg_Ass_20180226095357.pdf$

Well Name: FLAGLER 8 FED Well Number: 5H



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_5H_10M_BOPE_CHK_20180613151451.pdf

BOP Diagram Attachment:

Flagler_8_Fed_5H_10M_BOPE_CHK_20180613151459.pdf



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_5H_5M_BOPE__CK_20180626143025.pdf

BOP Diagram Attachment:

Flagler 8 Fed 5H 5M BOPE CK 20180626143001.pdf



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

Drilling Plan Data Report

07/10/2018

APD ID: 10400027709

Well Type: OIL WELL

Submission Date: 02/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Number: 5H

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical		Lithologies	Mineral Resources	Producing
1		3429	Depth 0	Depth 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

ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 5 (FLAGLER 8 FEDERAL 34H, 41H, 35H, 17H, 28H, 22H, 9H, 5H, & 13H WELLS)

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 27, 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 SE/4 SE/4 OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS \$22'29'18"E, A DISTANCE OF 663.84 FEET;

THENCE N89'37'14"E A DISTANCE OF 124.98 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N44"37"40"E A DISTANCE OF 35,38 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE NOO'21'55"W A DISTANCE OF 639.97 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS NO3'50'21"E, A DISTANCE OF 1363.91 FEET;

SAID STRIP OF LAND BEING 800.33 FEET OR 48.51 RODS IN LENGTH, CONTAINING 0.551 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 800.33 L.F. 48.51 RODS 0.551 ACRES

SURVEYOR CERTIFICATE

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, FILIMON 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.

WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD.

ÁMORON SURVEYNO, NO 30" SOUTH CANAL CARTERAS, NEW VENCO E8220

From (575) 234-1341

SURVEY NO. 5812A

NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 5
(FLAGLER 8 FEDERAL 34H, 41H, 35H, 17H, 28H, 22H, 9H, 5H, & 13H WELLS)

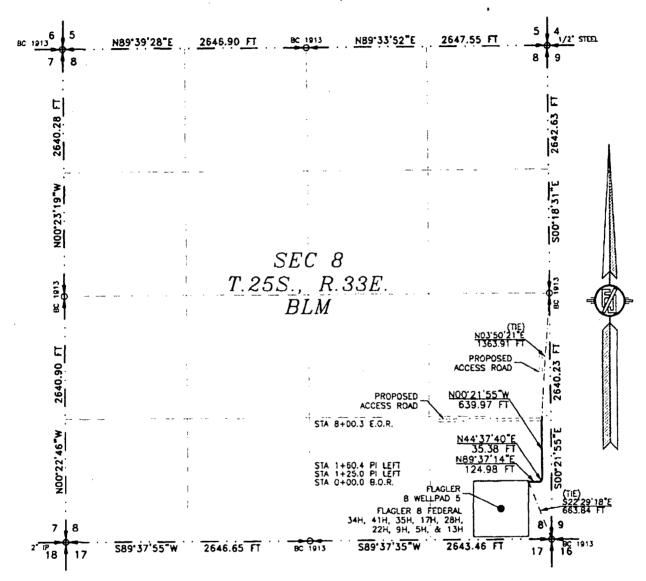
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING

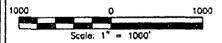
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

JANUARY 27, 2018



SEE NEXT SHEET (2-2) FOR DESCRIPTION



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: 1-2

MADRON SURVEYING,

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

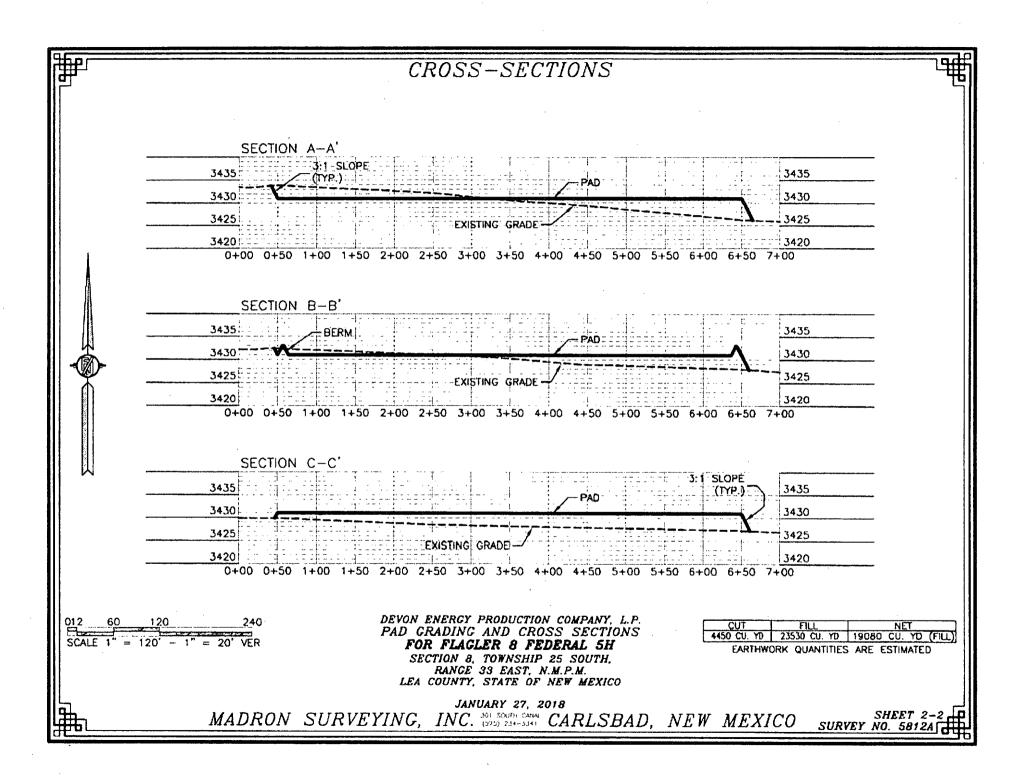
NEW MEXICO, THIS DAY OF DATOAN 2018

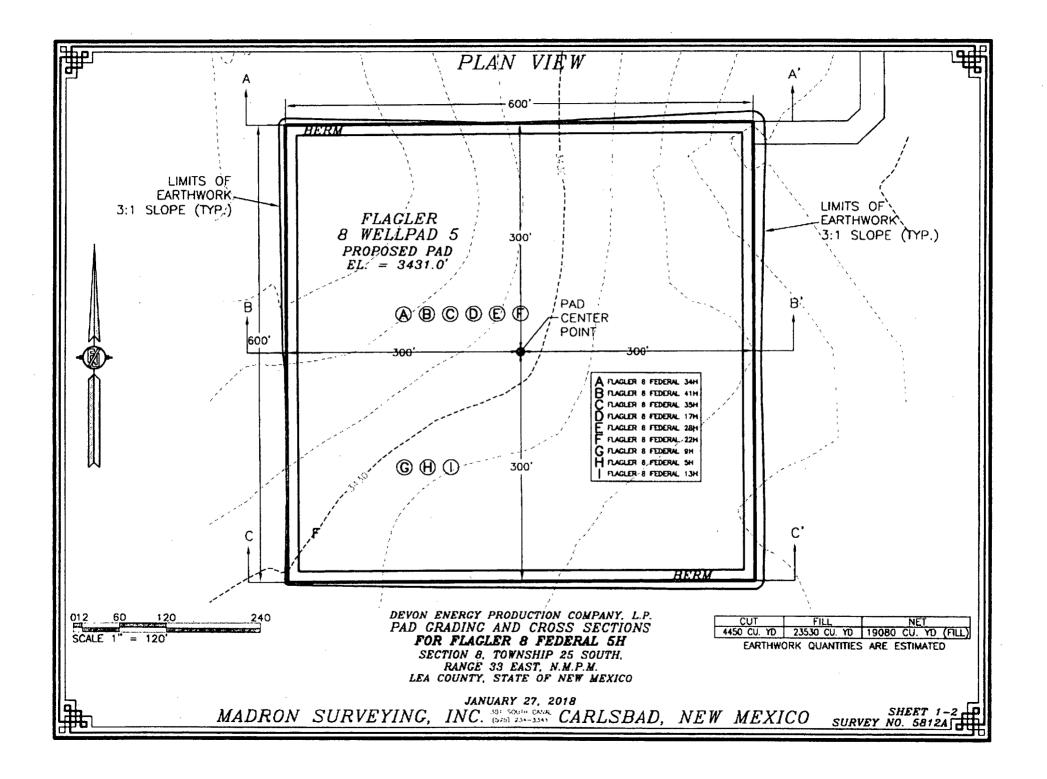
MADRON, SURVEY NG., INC 301 SOUTH CANAL CARLSBAD, NEW YEN CO 88220 Prione (\$751 234 3334)

SURVEY NO. 5812A

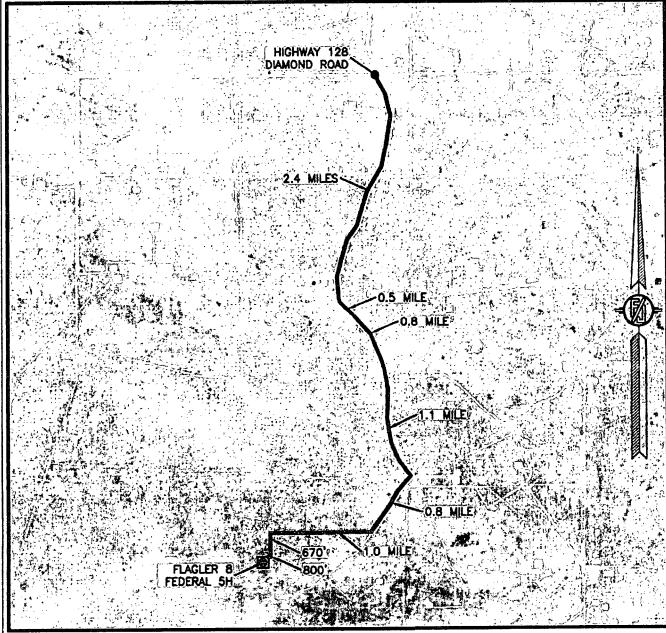
ARAMITTO ELSMETT CARLSBAD.

NEW MEXICO





SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. FLAGLER 8 FEDERAL 5H

LOCATED 180 FT. FROM THE SOUTH LINE AND 670 FT. FROM THE EAST LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JANUARY 27, 2018

MADRON SURVEYING, INC. See CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. FLAGLER 8 FEDERAL 5H

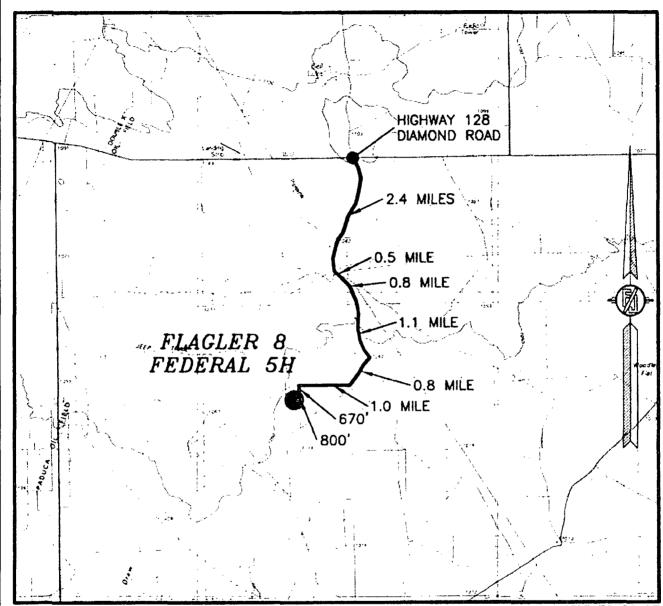
LOCATED 180 FT. FROM THE SOUTH LINE AND 670 FT. FROM THE EAST LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JANUARY 27, 2018

SURVEY NO. 5812A

MADRON SURVEYING, INC. (6) CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION FROM THE INTERSECTION OF HWY. 128 & DIAMOND ROAD, GO SOUTH ON DIAMOND ROAD APPROX. 2.4 WILES WHERE PAYEMENT ENDS & RANCH HOUSE, CONTINUE SOUTH APPROX. 0.5 MILE TO A "Y" INTERSECTION, GO SOUTH APPROX. 0.8 MILE TO A CATTLE GUARD, CONTINUE SOUTH APPROX. 1.1 MALE TO A "Y" INTERSECTION, CO SOUTHWEST ON LEASE ROAD APPROX 0.8 MILE TO A LEASE ROAD ON RIGHT (WEST), TURN WEST (RIGHT) CO 1.0 MILE TO GATE, GO THROUGH GATE, TURN SOUTH ON TRAIL ROAD CO SOUTH 670' TO A PROPOSED "T" INTERSECTION, CONTINUE SOUTH AND WEST 800' TO THE NORTHEAST PAD CORNER FOR THIS LCCATION.

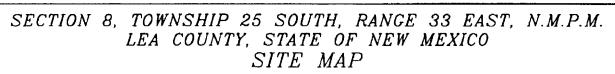
DEVON ENERGY PRODUCTION COMPANY, L.P. FLAGLER 8 FEDERAL 5H

LOCATED 180 FT. FROM THE SOUTH LINE AND 670 FT. FROM THE EAST LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

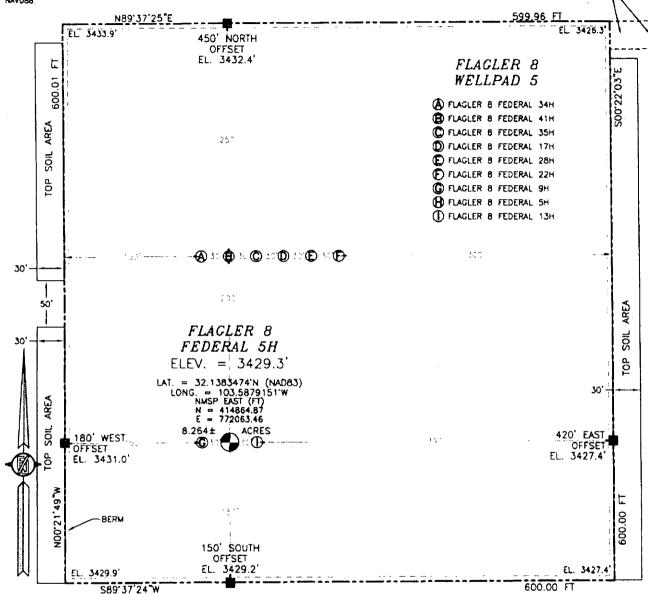
JANUARY 27, 2018

SURVEY NO. 5812A

MADRON SURVEYING, INC. MARIE CARLSBAD, NEW MEXICO



NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). USTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE



010 50 100 200 SCALE 1" = 100"

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF HWY. 128 & DIAMOND ROAD, GO SOUTH
ON DAMOND ROAD APPROX. 2.4 MILES WHERE PAVEMENT ENDS &
RANCH HOUSE, CONTINUE SOUTH APPROX. 0.5 MILE TO A "
INTERSECTION, GO SOUTH APPROX. 0.8 MILE TO A CATTLE GUARD,
CONTINUE SOUTH APPROX. 1.1 MILE TO A "V" INTERSECTION, GO
SOUTHWEST ON LEASE ROAD APPROX 0.8 MILE TO A LEASE ROAD ON
RIGHT (WEST), TURN WEST (RIGHT) GO 1.0 MILE TO GATE, GO
THROUGH GATE, TURN SOUTH ON TRAIL ROAD GO SOUTH 670' TO A
PROPOSED "T" INTERSECTION, CONTINUE SOUTH AND WEST 800' TO
THE NORTHEAST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P. FLAGLER 8 FEDERAL 5H

LOCATED 180 FT. FROM THE SOUTH LINE AND 670 FT. FROM THE EAST LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JANUARY 27, 2018

SURVEY NO. 5812A

PROPOSED 800 L.F. ACCESS RDAD

MADRON SURVEYING, INC. SIGNATOR CARLSBAD, NEW MEXICO

1. Geologic Formations

TVD of target	12,450'	Pilot hole depth	N/A
MD at TD:	17,117'	Deepest expected fresh water:	1145'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
	HUUH KD		
RUSTLER	1145		<u> </u>
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		
			·

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole	Casin	g Interval	Interval Csg. Weight Grade Conn.		SF	SF	SF			
Size	From	То	Size	(lbs)			Collapse	Bur st	Tension	
14.75"	0	1,150'	10.75"	40.5	J-55	STC	1.125	1.25	1.6	
9.875"	0	10,010'	7.625"	29.7	P110	BTC	1.125	1.25	1.6	
8.75"	10,010'	12,410'	7.625"	29.7	P110	Flushmax III	1.125	1.25	1.6	
6.75"	0	11,910'	5.5"	20	P110	VamTop HT	1.125	1.25	1.6	
6.75"	11,910'	17,117'	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 su	rface?	·	

Casing	# Sks Wt. H₂0		Yld	Slurry Description	
		lb/ gal	gal/sk	ft3/ sack	
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"					Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%
Int	163	13.2	5.31	1.6	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					Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%
Squeeze	163	13.2	5.31	1.6	bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC
					HR-601 + 2% bwoc Bentonite
5-1/2"					
Producti	387	14.8	6.32	1.33	Class H Cement + 0.125 lbs/sack Poly-E-Flake
on			1		

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	12,210′	25%

4. Pressure Control Equipment

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		1	Tested to:
			Anı	nular	X	50% of rated working pressure
0.7/02.0.0.7/42	12.5/0,,	C 1 4	Bline	d Ram	X	
9-7/8" & 8-3/4"	13-5/8"	5M	Pipe	Ram	X	5) 4
			Doub	le Ram	X	5M
			Other*			
			Annul	ar (5M)	X	70% of rated working pressure
			Bline	d Ram	X	
6-3/4"	13-5/8"	10M	Pipe Ram		X	
			Double Ram		X	10M
·			Other *			
			An	nular		
			Bline	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.
Y	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 scal 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				
0	1150'	FW Gel	8.6-8.8	28-34	N/C
1150'	12,410'	OBM/Cut Brine	9-10	34-65	N/C - 6
12,410'	17,117'	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

Log	Logging, Coring and Testing.				
Х	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated				
l	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				

Ado	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

Devon Energy, Flagler 8 Fed 5H

Condition	Specify what type and where?
BH Pressure at deepest TVD	7121 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.
- 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.

Devon Energy, Flagler 8 Fed 5H

- 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

Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

Open-hole

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component OD **Preventer RWP** Drillpipe 4.5" Fixed lower 4.5" 10M Upper 4.5-7" VBR **HWDP** 4.5" Fixed lower 4.5" 10M Upper 4.5-7" VBR Drill collars and MWD tools 4.75" Upper 4.5-7" VBR 10M Mud Motor 4.75" Upper 4.5-7" VBR 10M 5.5" Upper 4.5-7" VBR Production casing 10M ALL 0-13-5/8" Annular 5M

6-3/4" Production hole section, 10M requirement

VBR = Variable Bore Ram. Compatible range listed in chart.

Blind Rams

10M

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first, HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

letal O	ne Cor	p.	FLUSHMAX		Page	44-C	
		••	1 200111112	K-111	Date	25-Jan	-17
<i>N</i>	1etal C) ne	Connection Dat	a Sheet	Rev.	N - 1	
				I IVEV.	10		
			Geometry	<u>al</u>	<u>S.I.</u>		
			Pipe Body	D440	<u> </u>	D110	,
			Grade	7 5/8	1 1	P110 193.68	.: '-:-
EI	USHM	A V 111	Pipe OD (D) Weight	29.70	in ∃lb/ft	44.20	mm ka/m
FL	OSHIVI	AX-III	Weight : ::: ::: ::: ::: ::: ::: ::: ::: :::	29.70.:	: ib/it'	43.21	
			Wall Thickness (t)	0.375	 	9.53	kg/m
			Pipe ID (d)	6.875	in	174.63	mm.
					in		mm
			Pipe body cross section	8.537	in ²	5,508	mm ²
			Drift Dia.	6.750	in	171.45	mm
			Connection	7.005	1	400.00	المستحير الم
			Box OD (W.)	7.625	z in `il	193.68	
Ť		1	PIN ID	6.875	in	174.63	mm
1	[\foralle{5}		Make up Loss	3.040	in :	77.22	mm
	15	\	Box Critical Area	4.424	in ²	2854	mm ²
	13	Вох	Joint load efficiency	. 60	%	60	%
	1 5	critical	Thread Taper			/4" per ft)	ar i
-	1.5	area	Number of Threads		5	₹PI・	in the
Make up loss	33333333	Pin critical area	Performance Properties M.I.Y.P. Note S.M.Y.S.= Specific M.I.Y.P. = Minim	9,470 9,470 fied Minimum YI num Internal Yiel	psi psi LD Stre d Pressu		MPa MPa ody
	124	[Performance Properties			**************************************	~ · · · · · · · · · · · · · · · · · · ·
_₩	Щ.	1	Min. Compression Yield			of S.M.Y.S.	J. i
		1	Inferrigi Preserve	563 kips		OF MARKET	
	-	L	External Pressure			of Collapse S	
		D	Max, DLB (dcg, //Q0ti)		10070	or Collapse o	Ju engur
	1		IMONE ESTES (LACES E LOGINA, " 1"		1		
			Recommended Torque				
			A STATE OF THE STA	W 15.500 M	ft-lb.	21,000	
			Opti.	17,200	ft-lb	23,300	N-m
			Wax a			25,600	
			Opti. Operational Max.				

Legal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Note: Operational Max. torque can be applied for high torque application

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/ images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

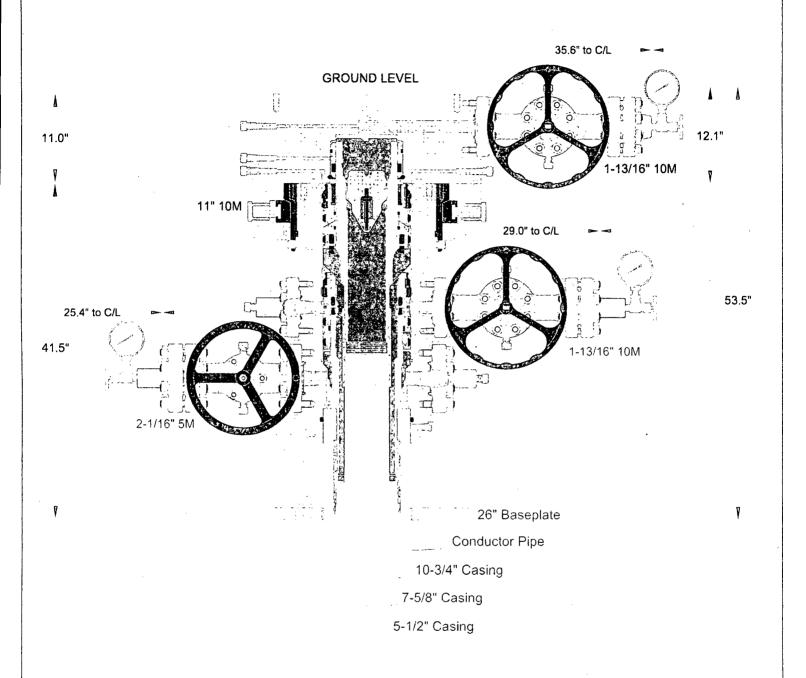
General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD ILLC. REPRODUCTION DISCLOSURE OR USE THEREOF IS FERMISSISLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD ILLC.

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

DRAWING NO.

OKE0001764

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. 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.

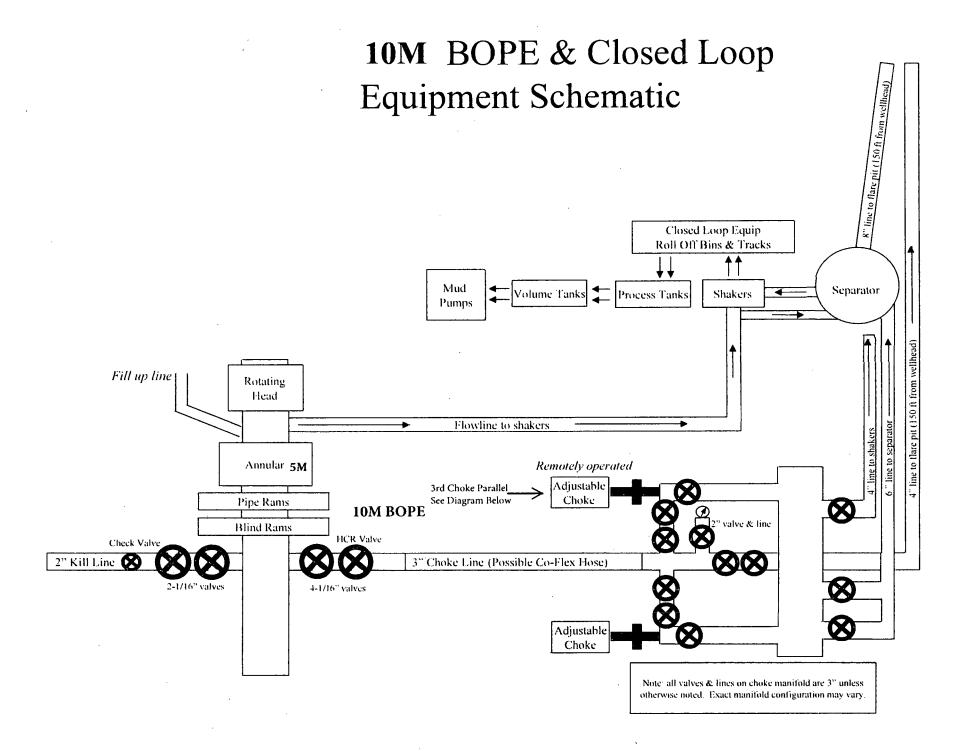
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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.

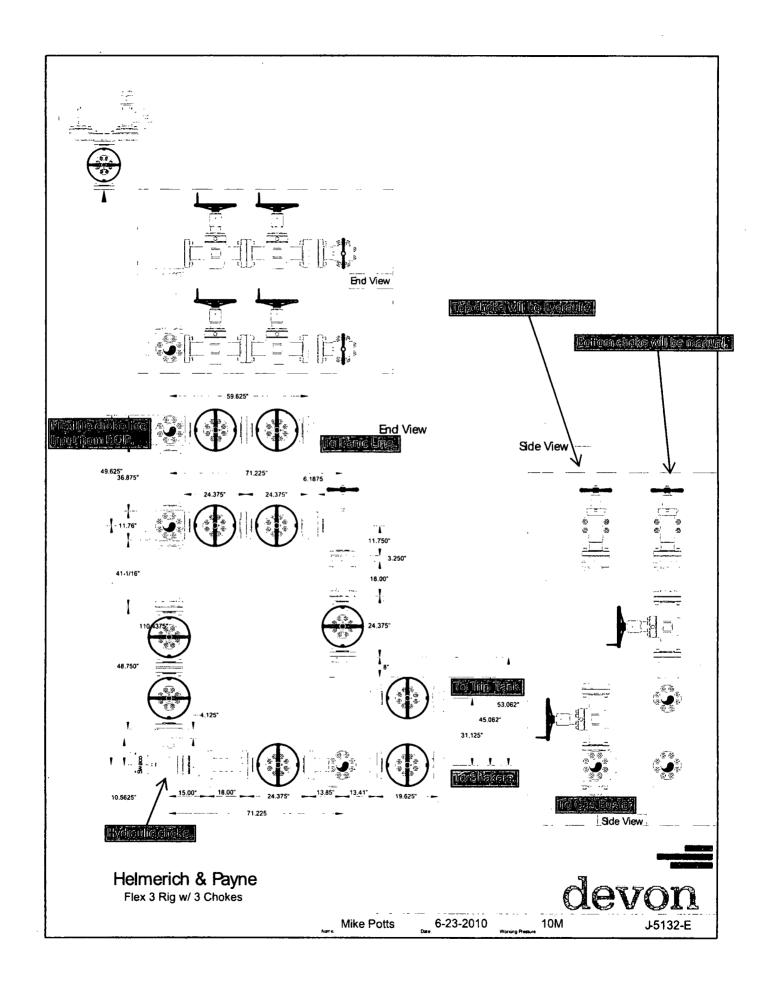
After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum 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.





Well Name: FLAGLER 8 FED Well Number: 5H

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: 5

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: 118 FT

Distance to lease line: 180 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Flagler_8_Fed_5H_C_102_SIGNED_20180613122334.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	670	FEL	258	33E	8	Aliquot SESE	32.13785 19	- 103.5857 514	LEA	NEW MEXI CO	NEW MEXI CO	F		342 9	0	0
KOP Leg #1	50	FSL	360	FEL	258	33E	8	Aliquot SESE	32.13793	- 103.5870 08	LEA	NEW MEXI CO	' ' - ' '	ı	NMNM 097151	- 844 8	118 87	118 77
PPP Leg #1	330	FSL	360	FEL	258	33E	8	Aliquot SESE	32.13875 4	- 103.5870 01	LEA	MEXI	NEW MEXI CO	F	NMNM 097151	- 897 2	125 50	124 01



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



APD ID: 10400027709 Submission Date: 02/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Type: OIL WELL

Well Number: 5H

Well Work Type: Drill



Show Final Text

Section 1 - General

APD ID:

10400027709

Tie to previous NOS?

Submission Date: 02/26/2018

BLM Office: CARLSBAD

User: Rebecca Deal

Title: Regulatory Compliance

Federal/Indian APD: FED

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:

Well Name: FLAGLER 8 FED

Well Number: 5H

S253309A

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09

Pool Name: UPPER WOLFCAMP

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.

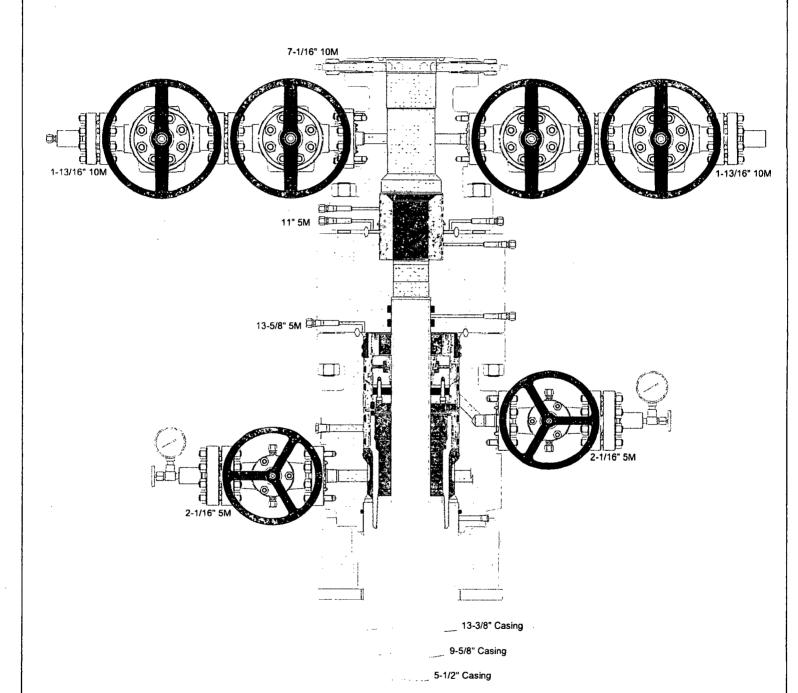
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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 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 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 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already 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 5,000 psi WP.

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





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 longevity 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 ContiTech Beattle Corp

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



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PHOENIX

PHOENIX RUBBER

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6	> 6728 Szeged, Burlapesti út 10. Hungary - H-6701 Szeged, P. O. Box 152 nona: (3662) 556-737 - Fax: (3662) 568-738	SALES & MARKETING: H-1092 Budspest, Ráday u. 42-44. Hungary • H-1440 Budspest, P. O. Box 2 Phone: (361) 456-4200 · Fax: (361) 217-2972, 456-4273 · www.taurusemerga.h

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> VERIFIED TRUE CG. PHOENIX RUBBER Q.C.



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



APD ID: 10400027709 **Submission Date**: 02/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Number: 5H

Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Well Type: OIL WELL

Flagler 8 Fed 5H Access Rd 20180226101136.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_5H_New_Access_Rd_20180226101230.pdf

New road type: LOCAL

Length: 800.3

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_5H_New_Access_Rd_20180226102146.pdf

Access road engineering design? YES

Well Name: FLAGLER 8 FED Well Number: 5H

Access road engineering design attachment:

Flagler_8_Fed_5H_New_Access_Rd_20180226102154.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_5H_One_Mile_Map_20180226142046.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: 15 ATTACHMENTS - FLAGLER WELLPAD 4 & CTB 3 - 3 BATT CONN PLATS, CTB PAD PLAT, WELLPAD PLAT, 4 LATERAL PLATS, 3 WELLPAD CTB TO FLOWLINE PLATS, 2 WELLPAD ELECTRIC PLAT AND MULTI USE EASEMENT PLAT Production Facilities map:

Flagler_8_Fed_5H_CTB_3_BATCON_CRUDE_20180226104125.PDF Flagler_8_Fed_5H_CTB_3_BATCON_Water_20180226104126.PDF Flagler_8_Fed_5H_CTB_3_BATCON_GAS_20180226104127.PDF

Well Name: FLAGLER 8 FED Well Number: 5H

Flagler 8 Fed 5H CTB 3 ELE 20180226104128.PDF

Flagler_8_Fed_5H_CTB_3_PAD_20180226104132.pdf

Flagler_8_Fed_5H_LAT_CRUDE_20180226104133.PDF

Flagler_8_Fed_5H_LAT_ELE_LINE_20180226104135.PDF

Flagler 8 Fed 5H LAT 20180226104138.PDF

Flagler_8_Fed_5H_LAT_ELE_LINE_SNM_20180226104135.PDF

Flagler_8_Fed_5H_WP_3_CTB_3_FL_20180226104151.PDF

Flagler_8_Fed_5H_WP_4_TO_CTB_3_FL_20180226104152.PDF

Flagler_8_Fed_5H_WP_5_ELE_20180226104153.PDF

Flagler_8_Fed_5H_WP_5_PLAT_20180226104157.pdf

Flagler_8_Fed_5H_WP_5_TO_CTB_3_FL_20180226104158.PDF

Flagler_8_Fed_5H_MULTI_USE_EASE_20180226104219.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

Water source volume (barrels): 200000

Source transportation land ownership: FEDERAL

·

Source volume (acre-feet): 25.77862

Source volume (gal): 8400000

Water source and transportation map:

Flagler 8 Fed 5H Water Map 20180226104242.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 Name: FLAGLER 8 FED Well Number: 5H

Well depth (ft): Well casing type:

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 5H Caliche Map 20180226110450.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 containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

FACILITY

Well Name: FLAGLER 8 FED Well Number: 5H

Disposal type description:

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 containmant 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

Well Name: FLAGLER 8 FED Well Number: 5H

Cuttings Area being used? NO

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_5H_Well_Layout_20180226110602.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: FLAGLER 8

Multiple Well Pad Number: 5

Recontouring attachment:

Flagler_8_Fed_5H_Interim_Recl_20180226110613.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 Well Number: 5H

Well pad proposed disturbance

(acres): 8.264

Road proposed disturbance (acres):

0.551

Powerline proposed disturbance

(acres): 0.138

Pipeline proposed disturbance

(acres): 0.603

Other proposed disturbance (acres): 0

Total proposed disturbance: 9.556

Well pad interim reclamation (acres):

4.025

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 4.025

Well pad long term disturbance

(acres): 4.241

Road long term disturbance (acres):

0.551

Powerline long term disturbance

(acres): 0.138

Pipeline long term disturbance

(acres): 0.603

Other long term disturbance (acres): 0

Total long term disturbance: 5.533

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: FLAGLER 8 FED Weil Number: 5H **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: Total pounds/Acre: Seed Summary **Seed Type** Pounds/Acre Seed reclamation attachment: **Operator Contact/Responsible Official 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 on an as need basis. Weed treatment plan attachment: Monitoring plan description: Monitor as needed. Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A
Pit closure attachment:

Page 8 of 12

Well Name: FLAGLER 8 FED Well Number: 5H

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:
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT
Describe:
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description:
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office:
Describe: Surface Owner; BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office:
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office:
Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office:
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:

Other Local Office:

USFS Region:

USFS Ranger District:

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:	

Well Number: 5H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

NPS Local Office:
State Local Office:

Military Local Office:

Well Name: FLAGLER 8 FED

Well Number: 5H

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,288101 ROW - O&G Facility Sites,289001 ROW-O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information: See Section 4 for Facility & Infrastructure Plats. PERMITTING 9 WELLS ON PAD. Grading

Plan attached or see C-102

Use a previously conducted onsite? YES

Previous Onsite information: ONSITE 11/9/2017

Other SUPO Attachment

Flagler 8 Fed 5H Grading Plan 20180226110716.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):

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 attachment	t:
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 Dissemble that of the existing water to be protected?	olved 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	
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 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?	
Other regulatory requirements attachment:	

Well Number: 5H Well Name: FLAGLER 8 FED

	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	330	FNL	360	FEL	258	33E	8	Aliquot NENE	32.15146 3	- 103.5868 98	LEA	NEW MEXI CO	112	F	NMNM 097151	- 902 1	171 17	124 50
BHL Leg #1	330	FNL	360	FEL	25S	33E	8	Aliquot NENE	32.15146 3	- 103.5868 979	LEA	NEW MEXI CO	14-11	F	NMNM 097151	- 902 1	171 17	124 50



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

Bond Info Data Report 07/10/2018

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: