



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT**

DEP USE ONLY	
Auth No. 1290550	APS No.#
Site No.	PF No.
Client No.	SF No.

RECEIVED

APPLICATION FOR INACTIVE WELL STATUS

NOV 20 2019

Well Operator Chevron Appalachia, LLC		DEP Client ID No. 279986		Well Permit or Registration No. 37-051-24668	
Address 700 Cherrington Parkway			Well Farm Name Kovach B		Well No. M07H
					Serial No. MCLS 37-051-0045
City Coraopolis		State PA	Zip Code 15108		County Fayette
				Municipality German Twp.	
Telephone No. 412-865-3489	Fax No. 412-865-2403	Bond Instrument No. 019029612		Is this an application for annual extension of inactive status? ☐ Yes ☒ No	
				Check here if this application is being submitted for conditional inactive status in association with longwall mining: ☐	
Condition of the Well		Describe in detail how the condition of the well satisfies the criteria for approval of inactive status. See 25 Pa. Code §§ 78/78a.102(i), (2)(i) or (ii) and (3). Use additional sheets if necessary. If available, attach well records, driller's logs, and other information describing well casing, cement, equipment, and any other pertinent information. Note that if this application is being submitted in conformance with DEP Technical Guidance Document 800-0810-004 <i>Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells</i> , the Well Record/Completion Report may be referenced for all well construction information, and all tubing and annular pressures should be at 0 prior to adjacent longwall mining encroaching within 1,500 feet of the well location. Finally, all annuli should be open to the atmosphere and the inactivation procedure may be referenced under the section titled "Other information about the well's condition."			
Well Type: ☒ Gas ☐ Oil ☐ Combination Oil & Gas ☐ Injection ☐ Storage ☐ Disposal					
Casing Diameters: 30"		Casing Lengths: 64'		Type and amount of cement (sacks) used for surface casing: 1047 sacks of Class A	
20"		628'		Tubing or Production Casing Pressure (current): N/A	
13-3/8"		739'		If an oil well, state the depth to fluid in the surface casing: N/A	
9-5/8"		2597'		Annulus Pressure (current - between tubing or production casing and surface casing): N/A	
Tubing or production casing diameter: n/a		Tubing or production casing length: n/a		Are all annuli open to atmosphere? ☐ Yes ☒ No	
Other information about the well's condition: Well was drilled to a depth of 6,000'. No tubing or production casing present.					
Future Use of the Well		Describe a viable plan in accordance with 25 Pa. Code §78/78a.102(4) explaining the intended use of the well within a reasonable time. Provide the information requested below and any other information necessary for DEP to make a determination on inactive status for this well. Note that if this application is being submitted in conformance with DEP Technical Guidance Document 800-0810-004 <i>Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells</i> , the following text may be entered under the section regarding the future plan for the well: "Return well to production subsequent to final panel extraction when mining is at least 1,500 feet beyond well in chain pillar, as per re-entry procedure and TGD."			
Provide certification that one of the following applies (check one): ☒ Significant reserves remain in place and I plan to return the well to production.					
Provide estimate of reserves: MMcf: Bbls:					
The well will be used for: ☐ Disposal ☐ Storage ☐ Observation ☐ Injection – Recovery ☐ Other (describe)					
This well will be returned to use in: Month: 10 Year: 2024					

State your plan for future use of the well.

Drilling activities are planned to return to this well in October 2024. Completions activities will follow shortly after allowing for production of the well later in the year.

Conditional Inactive Status Checklist

For unconventional wells drilled in anticipated chain pillar locations that are being temporarily inactivated to accommodate planned, adjacent longwall mining, please provide the items included in the checklist below in addition to this application. More specific information about these items is detailed in DEP Technical Guidance Document 800-0810-004 *Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells*.

Please include the following items with the inactive status application:

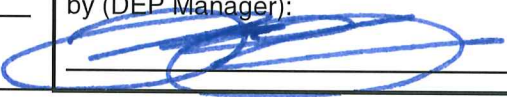
- ☐ Temporary Well Inactivation Procedure
 ☐ Temporary Inactivation Well Schematic
 ☐ General Specifications for Cements/Gels
☐ Current Well Record and Completion Report
 ☐ Well Location Plat
 ☐ Electrical/Mechanical Well Logs
☐ Graphical Production History Summary
 ☐ Well Re-entry Procedure
 ☐ Post-mining Well Long-term Monitoring Procedure

Provide additional details, if necessary.

Signature of Applicant (Well Operator)

Signature  Date 11/7/2019
 Print or type signer's name and title:
Branden Weimer / Senior Permitting Advisor

DEP USE

☐ Approved ☒ Denied Date 12/31/19
 by (DEP Manager): 

Form



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

Well Record
(Unconventional Operators Only)

DEP USE ONLY	
Site ID	Client Id
Primary Facility Id	Sub Facility Id

WELL INFORMATION

Well Operator Chevron Appalachia, LLC	DEP ID# 279986	US Well No. (API No.) 37-051-24668-00-00	Farm Name Kovach B	Well # M07H
Address 700 Cherrington Parkway		Latitude (DD) 39. 919161	NAD 83	Project Number Serial # MCLS 37-051-0045
City Coraopolis	State PA	Zip 15108	Municipality German Twp	County Fayette
Phone 412-865-3489	Email balambie@chevron.com	Borrow Pit	USGS 7.5 min. quadrangle map New Salem	Section 4

Check the appropriate Submission: ☒ Original Well Record ☐ Amended Well Record

Well Type ☒ Gas	Wellbore Conditioning: SEE ATTACHED
Well Orientation ☐ Vertical ☒ Deviated from Vertical (Top & Side views & Deviation Survey must be attached)	
Drill Method(s) ☒ Rotary – Air 7657' ☐ Rotary – Mud ' ☐ Cable Tool ' ☐ Other ' ,	
Drilling Started 10/30/2018	Surface Elev. 1278 ft. GW Depth 628 ft.
Drilling Complete	True Vertical Depth 7029 ft. Depth of DFGW 724 ft.
Date Well Completed	Total Measured Depth 7057 ft. DFGW decided by: 5

CEMENT

Cement returned on surface casing? ☒ Yes ☐ No	If No, provide depth to top of cement and method used to determine:						
Cement returned on coal protective casing? ☒ Yes ☐ No	If No, provide depth to top of cement and method used to determine: ☐ NA						
Cement returned on intermediate casing? ☒ Yes ☐ No	If No, provide depth to top of cement and method used to determine: ☐ NA						
Casing String	Type/Class of Cement (Lead/Tail)	Slurry Temp F°	Amount of Cement (sks) (Lead/Tail/Total)	WOC hrs	WT PPG	Yld #/3 /sk	Gas Migration Controls Used
Conductor	Bulk / Cement	60 °	/ /	8			What controls were used if any (additives/ hardware. Specify type and depth applicable). Fluid Loss Additives
Surface	/ Class A	60 °	/ 1047 / 1047	8	15.6	1.20	
Coal Protective	/ Class A	60 °	/ 187 / 187	8	15.6	1.20	
Grout Job #1	/ Class A	60 °	/ 446 / 446	8	15.6	1.20	
Grout Job #2	/ Class A	60 °	/ 131 / 131	8	15.6	1.20	
Intermediate	/ Class A	60 °	/ 965 / 965	8	15.6	1.19	
If additional strings attach form(s)			Total 2776				

CASING AND TUBING

Hole Size	Pipe Size	Wt. #/ft.	Grade Casing / Tubing Type	Thread / Weld – New/ Used	Amount in Well (ft.)	CO	R	Hardware - Baskets / Packer / Centralizers (Total/String)	Date Run
								Type Size Depth	
36	30	218.82	X-52	T - N	64	US	Y	SEE ATTACHED CASING SUMMARY	10/30/2018
26	20	94	J-55	T - N	628	IT	Y	SEE ATTACHED CASING SUMMARY	12/17/2018
17-1/2	13-3/8	54.50	J-55	T - N	739	US	Y	SEE ATTACHED CASING SUMMARY	12/19/2018
12-1/4	9-5/8	40	L-80	T - N	2597	US	Y	SEE ATTACHED CASING SUMMARY	3/19/2019
				T - N		US	Y	SEE ATTACHED CASING SUMMARY	

If any casing is welded, provide the name(s) of the welder(s):

PLUG-BACK/WELLBORE ALTERATION

Fill Material & Plugs	Depth		Date	Casing & Tubing		
	From	To		Size	Pulled	Left

LOG OF FORMATIONSUS Well No. (API No.): **37-051-24668-00-00**

(If you will need more space than this page, please photocopy the blank form before filling it in.)

Formation Name or Lithology	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Waynesburg Coal	315	319				Geology
Pittsburgh Coal	664	678			F 628	Geology
Salt Sand	1590	1788			F 724	Geology
Mauch Chunk	1788	1947				Geology
Big Lime	1947	2032				Geology
Loyalhanna	2032	2082				Geology
Burgoon	2082	2231				Geology
Shenango	2231	2306				Geology
Squaw	2306	2539				Geology
Murrysville	2539	2638			B 2625	Geology
Gantz	2638	3233				Geology
Upper Bayard	3233	3291				Geology
Chadokoin	3291	4516				Geology
Bradford Base	4516	5617				Geology
5 th Elk	4617					

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

Casing Source	Cementing Company	Hardware Supplier	Logging Company
Name Tenaris Global Services U.S.A. Corp.	Name BJ Services	Name Summit Energy Services, Inc.	Name Stratagraph NE Inc
Address 3 Penn Center Boulevard, #124	Address 3415 Millennium Boulevard SE	Address PO Box 34210	Address 116 Ellsworth Avenue
City - State - Zip Pittsburgh, PA 15276	City - State - Zip Massillon, OH 44646	City - State - Zip Fort Worth, TX 76172	City - State - Zip Marietta, OH 45750
Phone 412-620-6388	Phone 330-830-2978	Phone 817-645-5000	Phone 740-373-3091

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78a and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78a.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Driller		Well Operator's Signature	DEP USE ONLY	
Name SEE ATTACHED	Rig		Reviewed by:	
Address		 Printed Name / Title: Bernard A. Lambie / Regulatory Compliance Team Lead	Comments:	
City - State- Zip				
Phone				
		Date: 11/18/2019		

Well Operator	DEP ID#	Well API #	Well Farm Name	Well #
Chevron Appalachia, LLC	279986	37-051-24668-00-00	Kovach B	M07H
Wellbore Conditioning: Surface: pump 25 bbl of 8.6 ppg gel spacer, pump 10 bbl of 8.33 ppg freshwater Surface/Coal Protective: pump 25 bbl of 8.6 ppg gel spacer, pump 5 bbl of 8.33 ppg freshwater Grout Job #1: no conditioning Grout Job #2: no conditioning Intermediate: pump 25 bbl of 8.6 ppg gel spacer, pump 10 bbl of 8.33 ppg freshwater Production:				

Well Operator Chevron Appalachia, LLC	DEP ID# 279986	Well API # 37-051-24668-00-00	Well Farm Name Kovach B	Well # M07H
--	-------------------	----------------------------------	----------------------------	----------------

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)
--

Driller		Driller		Driller	
Name Rocky Mountain Drilling	Rig	Name Highlands Drilling LLC	Rig 14	Name Precision Drilling Holdings Company	Rig
Address 185 North Vernal Ave, Suite 2		Address 900 Virginia Street East		Address 10350 Richmond Avenue, Suite 700	
City - State - Zip Vernal, UT 84078		City - State - Zip Charleston, WV 25301		City - State - Zip Houston, TX 77042	
Phone 435-789-3320		Phone 304-380-0114		Phone 713-435-6100	
Portion Drilled 0'- 61'		Portion Drilled 61'- 7057'		Portion Drilled '	

Cementing Company	Cementing Company	Cementing Company
Name	Name	Name
Address	Address	Address
City - State - Zip	City - State - Zip	City - State - Zip
Phone	Phone	Phone

Casing Source	Casing Source	Casing Source
Name	Name	Name
Address	Address	Address
City - State - Zip	City - State - Zip	City - State - Zip
Phone	Phone	Phone



Well Name Kovach B M07H	Lease	Field Name Shamrock	Business Unit Appalachian Mountain	
Ground Elevation (ft) 1,278.00	Original RKB Elevation (ft) 1,302.00	Current RKB Elevation 1,302.00, 12/15/2018	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 24.00	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

Logs

Type	Logging Company	Date	Planned?	Cased?
Wellbore	Job	Depth Top (MD) (ftKB)	Bottom Depth (ftKB)	

Comment

Wellbores

Wellbore Name Original Hole	Parent Wellbore Original Hole	Directional Type Horizontal	Start Depth (MD) (ftKB) 0
Alt. Wellbore Identifier	TAML Classification N/A	TAML Functionality	Casing Configuration Class 3
Bottom Hole Legal Location	Wellbore UWI 370512466800	Wellbore ChevNo PP8716-00	Vertical Section Direction (°)

Wellbore Sections

Hole Size (in)	Start Date	End Date	Act Top (ftKB)	Act Btm (ftKB)	Prop Top (ftKB)	Prop Btm (ftKB)
12 1/4					778.0	2,625.0
8 3/4					2,625.0	7,000.0
8 1/2					7,000.0	13,988.0
36	10/30/2018 17:00	10/31/2018 00:00	24.0	61.0	64.0	292.0
26	12/15/2018 00:00	12/18/2018 12:00	61.0	643.0	40.0	648.0
17 1/2	12/18/2018 12:00	12/19/2018 16:00	643.0	777.0	648.0	778.0
12 1/4	3/16/2019 19:30	3/18/2019 23:30	777.0	2,625.0	778.0	2,625.0
8 3/4	3/20/2019 17:30	3/23/2019 16:45	2,625.0	7,057.0	2,625.0	7,000.0

Kick Offs & Key Depths

Date	Type Kick Off	Point or Interval Point	Top Depth (ftKB)	Depth Top (TVD) (ftKB)	Method
Date	Type Toe	Point or Interval Point	Top Depth (ftKB)	Depth Top (TVD) (ftKB)	Method
Date	Type Heel	Point or Interval Point	Top Depth (ftKB)	Depth Top (TVD) (ftKB)	Method

Last 5 PBTD's

Type	Date	PBTD (RKB)	Depth (TVD) (RKB)	Method	Com

Geologic Horizons

Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top (TVD) (ftKB)	Prog Btm (TVD SS) Override (ft(elv))	Prog Btm (TVD) (ftKB)	Drill Top MD (ftKB)	Drill Btm MD (ftKB)

Directional Surveys

Description	Date	Definitive?	Planned?	Job	
Azimuth Tie In (')	MD Tie In (ftKB)	Inclination Tie In (')	NSTie In (ft)	EWtie In (ft)	TVDtie In (ftKB)

Comment

Survey Data

[illegible]

Zones

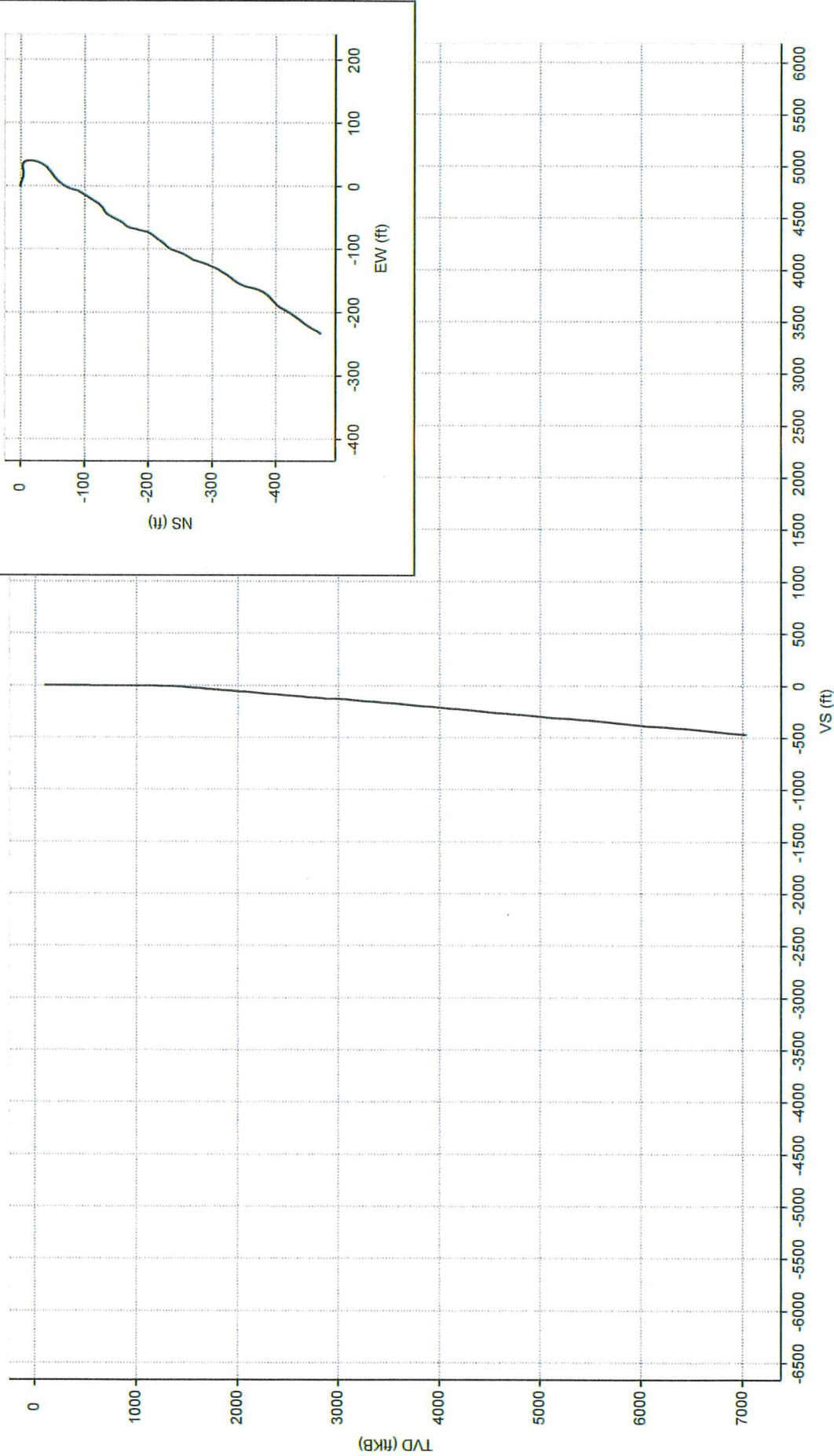
Zone Name	Top (ftKB)	Blm (ftKB)	Zone Comp Method	Completion ChevNo	Completion UWI	Completion License No.



Directional Plot

Well Name Kovach B M07H	Lease	Field Name Shamrock	Business Unit Appalachian Mountain	Surface UWI 3705124668	Surface ChevNo PP8716
Wellbore Name Original Hole	Directional Type Horizontal	Top Depth (ftKB)	Total Depth of Wellbore (ftKB) 7,057.00	Wellbore UWI 370512466800	Wellbore ChevNo PP8716-00

Vertical Section



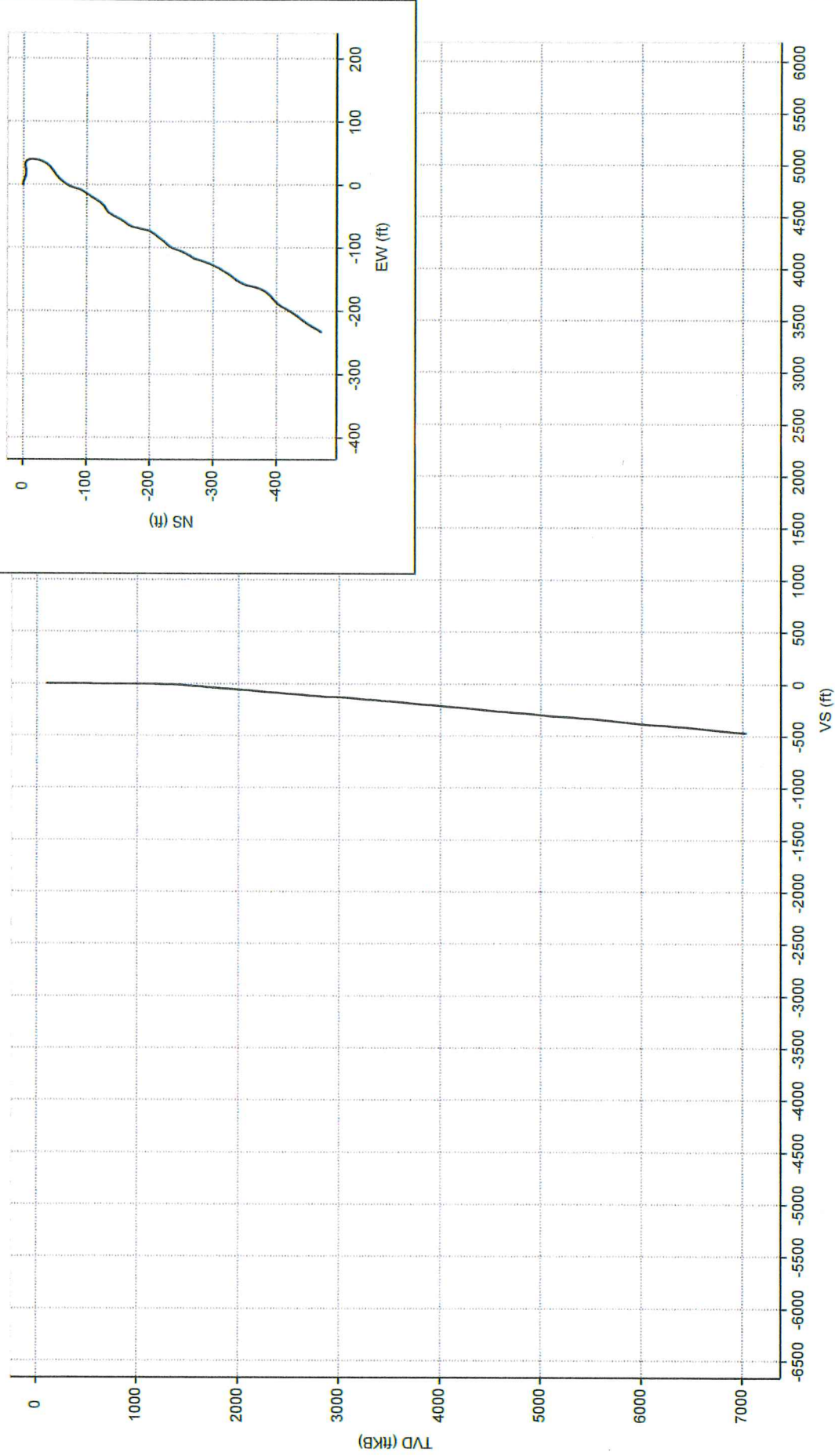
— VS vs TVD - Kovach B M07H - Original Hole



Directional Plot

Well Name Kovach B M07H	Lease	Field Name Shamrock	Business Unit Appalachian Mountain	Surface UWI 3705124668	Surface ChevNo PP8716
Wellbore Name Original Hole	Directional Type Horizontal	Top Depth (ftKB)	Total Depth of Wellbore (ftKB) 7,057.00	Wellbore UWI 370512466800	Wellbore ChevNo PP8716-00

Vertical Section



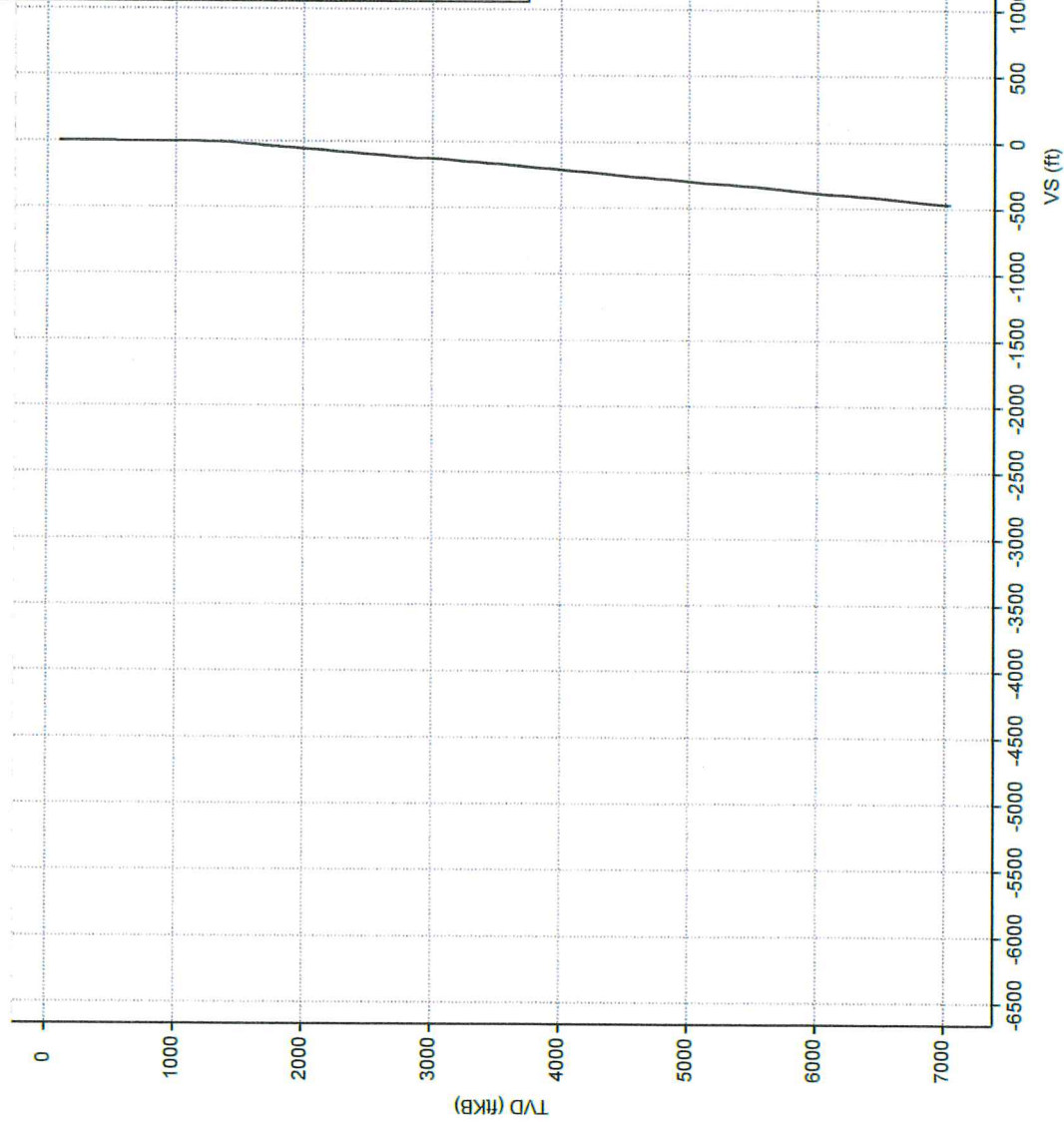
— VS vs TVD - Kovach B M07H - Original Hole



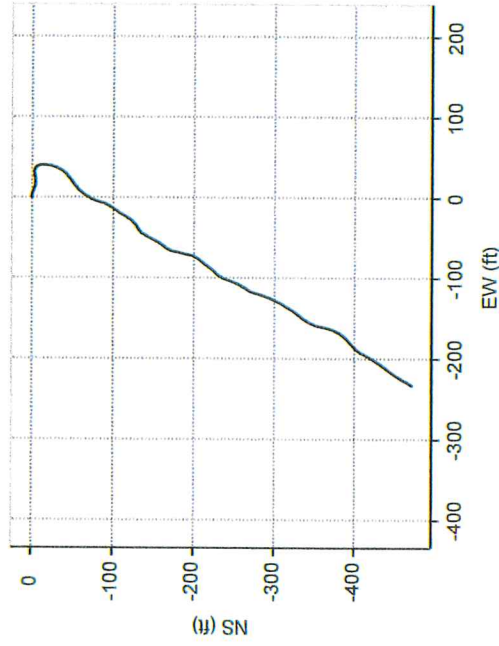
Directional Plot

Well Name Kovach B M07H	Lease	Field Name Shamrock	Business Unit Appalachian Mountain	Surface UWI 3705124668	Surface ChevNo PP8716
Wellbore Name Original Hole	Directional Type Horizontal	Top Depth (ftKB)	Total Depth of Wellbore (ftKB) 7,057.00	Wellbore UWI 370512466800	Wellbore ChevNo PP8716-00

Vertical Section



Plan



— VS vs TVD - Kovach B M07H - Original Hole



Casing Summary

Well Name Kovach B M07H		Lease	Field Name Shamrock	Business Unit Appalachian Mountain	
Ground Elevation (ft) 1,278.00	Original RKB (ft) 1,302.00	Current RKB Elevation 1,302.00, 12/15/2018		Mud Line Elevation (ft)	Water Depth (ft)

Production Casing, Planned?-Y, <depth>ftKB

Set Depth (MD) (ftKB)		Set Tension (kips)		String Nominal OD (in)		String Min Drift (in)		Centralizers		Scratchers		
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread		Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)

Conductor, Planned?-N, 64ftKB

Set Depth (MD) (ftKB) 64		Set Tension (kips)			String Nominal OD (in) 30		String Min Drift (in)		Centralizers			Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread		Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)	
1	Casing Joint	30	29.250	218.82	X-52			24	64	40.00	1,969.0		

Surface, Planned?-N, 628ftKB

Set Depth (MD) (ftKB) 628		Set Tension (kips)		String Nominal OD (in) 20		String Min Drift (in) 18.937		Centralizers 7		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Hanger	20	19.125	94.00	J-55	BTC	32	33	1.00	2,110.0	520.0
1	Hanger Pup	20	19.125	94.00	J-55	BTC	33	37.2	4.20	2,110.0	520.0
1	Casing Pup Joint	20	19.125	94.00	J-55	BTC	37.2	56.9	19.65	2,110.0	520.0
12	Casing Joint	20	19.125	94.00	J-55	BTC	56.9	544.9	487.98	2,110.0	520.0
1	Float Collar	20	19.125	94.00	J-55	BTC	544.9	588	43.09	2,110.0	520.0
1	Float Shoe	20	19.125	94.00	J-55	BTC	588	628	40.05	2,110.0	520.0

Intermediate Casing 1, Planned?-N, 739.9ftKB

Set Depth (MD) (ftKB) 739.9		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in)		Centralizers 8		Scratchers		
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread		Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Hanger	13 3/8	12.625	54.50	J-55			30.8	32.8	2.00		
1	Hanger Pup	13 3/8	12.625	54.50	J-55	BTC		32.8	37.2	4.43		
1	Casing Pup Joint	13 3/8	12.625	54.50	J-55	BTC		37.2	60.8	23.57		
15	Casing Joint	13 3/8	12.625	54.50	J-55	BTC		60.8	655.3	594.48		
1	Float Collar	13 3/8	12.625	54.50	J-55	BTC		655.3	697.1	41.78		
1	Float Shoe	13 3/8	12.625	54.50	J-55	BTC		697.1	739.9	42.85		

Intermediate Casing 2, Planned?-N, 2597.9ftKB

Set Depth (MD) (ftKB) 2597.9		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in)		Centralizers 20		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Hanger	9 5/8	8.844	40.00	J-55	Buttress Thread	29	31	2.00		
1	Casing Pup Joint	9 5/8	8.844	40.00	L-80	Buttress Thread	31	35.7	4.68		
61	Casing Joint	9 5/8	8.844	40.00	L-80	Buttress Thread	35.7	2515.4	2,479.71		
1	Float Collar	9 5/8	8.844	40.00	L-80	Buttress Thread	2515.4	2557.5	42.12		
1	Shoe Joint	9 5/8	8.835	40.00	L-80	Buttress Thread	2557.5	2597.9	40.40		