west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

PERMIT MODIFICATION APPROVAL

September 19, 2014

YOST HERITAGE INC.
2656 DAYBROOK ROAD
FAIRVIEW , WV 26570

Re: Permit Modification Approval for API Number 6101667 , Well #: H1
DRILL HORIZONTAL PRODUCTION SECTION IN FIFTH SAND

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

6101667H mop

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: YOST HERITAGE, INC.

Operator ID	County	District	Quadrangle
988781704	MONONGALIA 61	CLAY 03	BLACKSVILLE 256

2) Operator's Well Number: H1 3) Elevation: 1.504'

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4) Well Type: (a) Oil X or Gas X

(b) If Gas: Production X / Underground Storage _____

Deep _____ / Shallow X

5) Proposed Target Formation(s): 5TH SAND Proposed Target Depth: 3514'
6) Proposed Total Depth: 5922.8 Feet Formation at Proposed Total Depth: 5TH SAND
7) Approximate fresh water strata depths: 300'
8) Approximate salt water depths: 2030'

9) Approximate coal seam depths: 1099'

10) Approximate void depths,(coal, Karst, other): 1.099' COAL MINE

11) Does land contain coal seams tributary to active mine? YES - FEDERAL #2 MINE

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
SEE MODIFIACTION REQUEST PAGE

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	16"	J-55	65#	50'	50'	CEMENT TO SURFACE
Fresh Water						
Coal	11 3/4"	J-55	42#	1206'	1206'	CEMENT TO SURFACE
Intermediate	8 5/8"	J-55	32#	2618'	2618'	CEMENT TO SURFACE
Production	4 1/2"	J-55	11.60#	5922.8'	5922.8'	CEMENT BACK TO 2700'
Tubing						OR SET PACKER OR PACKERS
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

6101667H MOD

Daybrook Development Co.
2656 Daybrook Road
Fairview, WV 26570
304-798-3136 Phone 304-798-3137 Fax

September 17, 2014

MODIFICATION REQUEST

Step #1

1. Cement Test Hole from 4,306' back to 2,700'

Step #2 Drill out Horizontal

1. Start kick-off point - 2797.8' Elv.
2. Start horizontal point - 3,514' Elv.
3. Total footage of horizontal length - 2,050'

Step #3

1. Run 4½" production string approximately 5,918' which is total depth.

Step #4 Three options projected

1. Set a packer or packers
2. Cement back to 2,700'

Step #5 Foam & Nitrogen FRAC

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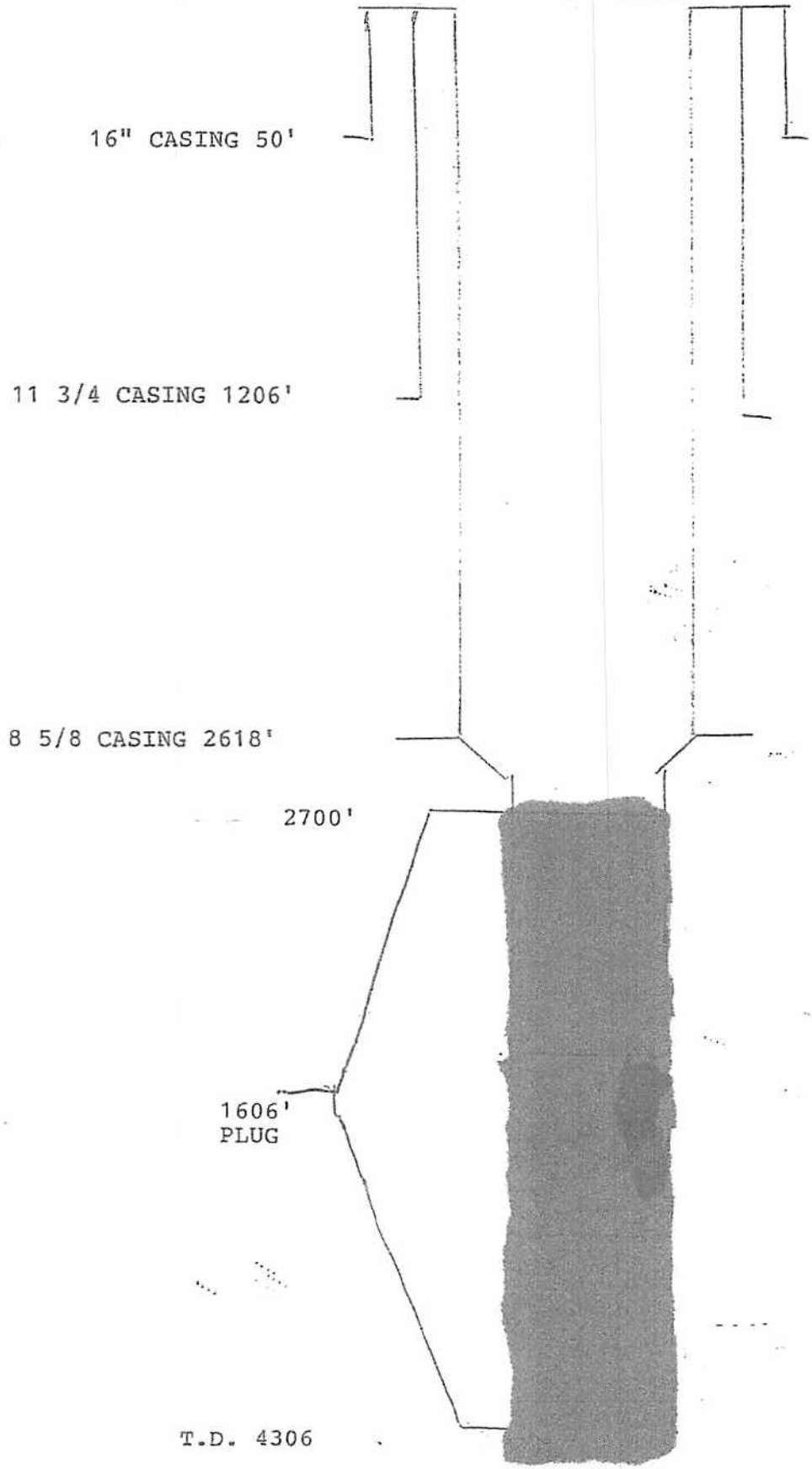
STEP #1 MODIFIACTION FOR YOST H-1 5TH SAND FORMATION
ALL CASING WAS CEMENTED BACK TO SURFACE



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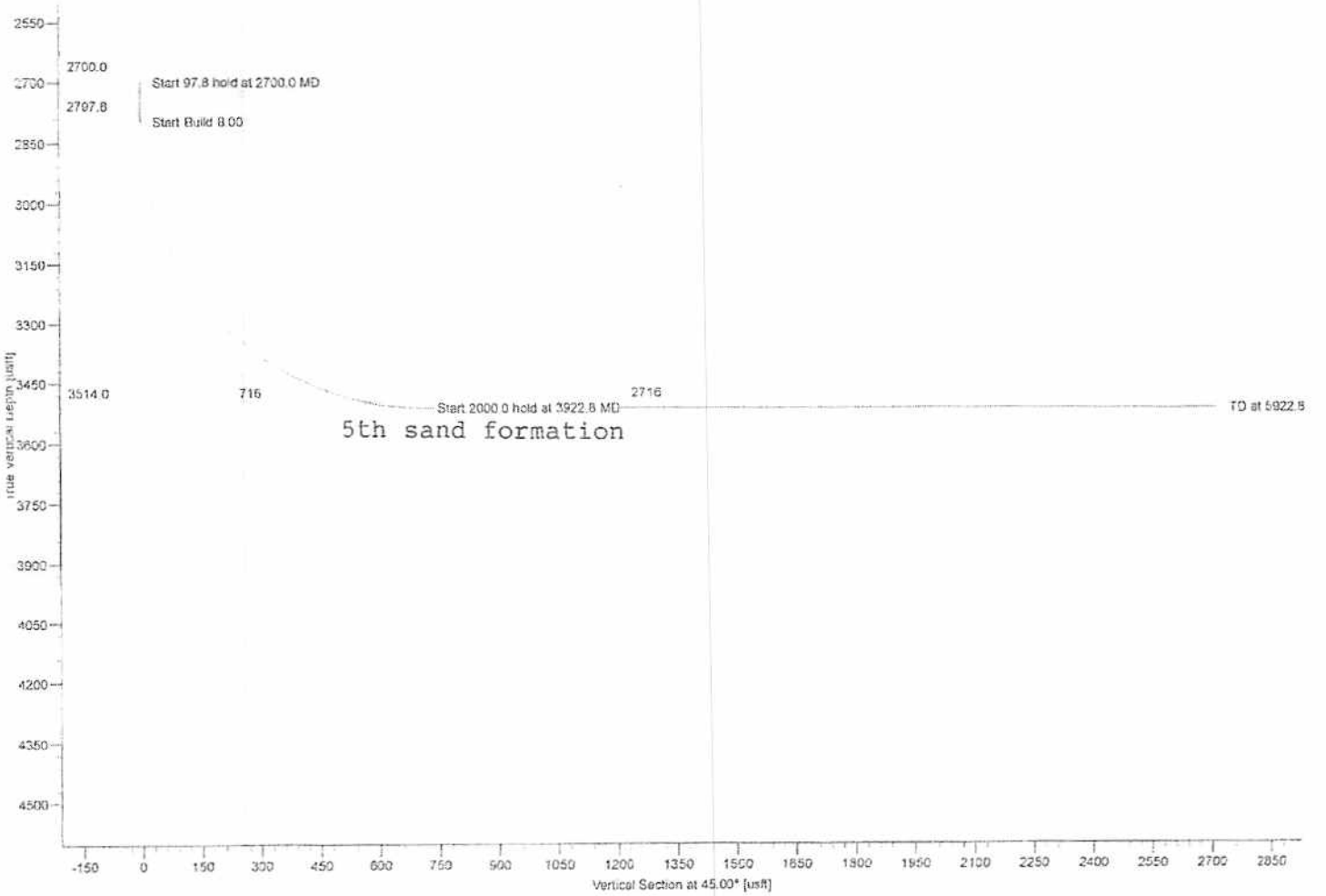
Plan: Design #1 (Well #1/Wellbore #1)



COMPASS 5000.1 Build 65

9/17/2014 2:13 PM

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