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

June 19, 2014

TRIANA ENERGY, LLC
900 VIRGINIA STREET, EAST - SUITE 400
CHARLESTON, WV 25301

Re: Permit Modification Approval for API Number 9101285 , Well #: DUNHAM 2H
Change Lateral

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,

for G.S.

Gene Smith
Regulatory/Compliance Manager
Office of Oil and Gas

4709101285

Triana Energy

Twenty-First Century Explorers

June 13, 2014

Mr. James Martin
Chief
Office of Oil and Gas
West Virginia Department of Environmental Protection
601 57th Street, S. E.
Charleston, West Virginia 25304

Re: Triana Energy, LLC – Horizontal Well Work Permit Modification Request
API # 47-9101290 Dunham 1H,
API # 47-9101285 Dunham 2H,
API # 47-9101292 Dunham 5H,
Booth's Creek District, Taylor County, West Virginia

Dear Mr. Martin:

Triana Energy, LLC hereby requests to modify the Well Work Permit for the referenced wells located in Booth's District, Taylor County, West Virginia. During the drilling of the vertical section of the Dunham 1H, bore-hole conditions caused a natural deviation in the planned well bore path. Our evaluation of directional drilling survey data shows that it would be more economically beneficial to Triana and the mineral owners if the horizontal section of the original 2H well lateral path is drilled from the current 1H kick-off point. Conversely, the same is true for the drilling the original horizontal section of the 1H well lateral path from the current 2H kick-off point. The original well surface locations have not changed.

Therefore, Triana respectfully requests the Office of Oil and Gas to approve this request to modify the horizontal well lateral paths, effectively swapping the original Dunham 1H and 2H lateral sections with each other. Please find enclosed revised Forms WW-6B and WW-6A1 for the respective wells, as well as revised well plats reflecting the change.

900 Virginia Street, East, Suite 400, Charleston, West Virginia 25301
Telephone/Fax: (304) 205-8503 ~ www.TrianaEnergy.com

4709101285

Triana Energy

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Additionally, upon further evaluation of the Dunham 5H well bore path, Triana believes the vertical section travels through a portion of parcel 3-16-2 (West Virginia Department of Agriculture), which lease was not listed on the original Dunham 5H WW-6A1 in the well work application. Therefore, please also find enclosed a revised WW-6A1 that now includes the West Virginia Department of Agriculture as lessor.

Please feel free to contact me should you have any questions or need additional information. Thank you for your attention to this matter.

Sincerely,

Walter C. Showen, III
Manager, Permitting

Cc: Mr. Gene Smith
Mr. Chad Carmichael

900 Virginia Street, East, Suite 400, Charleston, West Virginia 25301
Telephone/Fax: (304) 205-8503 ~ www.TrianaEnergy.com

4709101285

WW-6B
(9/13)

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

1) Well Operator: Triana Energy, LLC

494486431	Taylor	Booth Creek Courthouse	Rosemont, Grafton
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Dunham 2H Well Pad Name: Dunham

3) Farm Name/Surface Owner: Carl Mitchell Dunham Public Road Access: CR10

4) Elevation, current ground: 1,420' Elevation, proposed post-construction: 1,420'

5) Well Type (a) Gas ■ Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow ■ Deep _____
Horizontal ■

6) Existing Pad: Yes or No Yes (under construction)

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus Shale, 7,500' TVD, Thickness = 110', Associated Pressure = 3,500#

8) Proposed Total Vertical Depth: 7,500

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 13,450'

11) Proposed Horizontal Leg Length: 5,100'

12) Approximate Fresh Water Strata Depths: 50, 350, 530, 790

13) Method to Determine Fresh Water Depths: Well records and USGS data

14) Approximate Saltwater Depths: None indicated

15) Approximate Coal Seam Depths: 400, 455, 530, 565

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☑

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(9/13)

18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New	LS	55#	80	80	Grout to surface
Fresh Water	13-3/8"	New	H-40	48#	995	936	C.T.S.
Coal	NA						
Intermediate	9-5/8"	New	J-55	40#	2,450	2,450	C.T.S
Production	5-1/2"	New	P-110	20#	13,450	13,450	Top @ 5,500'
Tubing	2-3/8"	New	N-80	4.7#		8,250	None
Liners	NA						

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.25	340	Class A	NA
Fresh Water	13-3/8"	17-1/2"	0.33	1,730	Class A w/additives	1.18 - 1.54
Coal	NA					
Intermediate	9-5/8"	12-3/8" - 12-1/4"	0.395	3,950	Class A w/additives	1.18 - 1.54
Production	5-1/2"	8-3/4" - 7-7/8"	0.361	12,360	Type 1 w/additives	1.37 - 1.65
Tubing	2-3/8"	NA	1.19	11,200	None	None
Liners						

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill vertical hole to kick-off point, set casing, drill deviated hole to TD and set casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Perforate the production casing and production zone with perforating guns at predetermined locations, isolate treatment zones in stages and perform high pressure slick-water fracture, introducing proppant to retain fractures.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.1

22) Area to be disturbed for well pad only, less access road (acres): Pad and AST Area = 11.8

23) Describe centralizer placement for each casing string:

Centralizers will be used as needed. The number and type is dependent on hole conditions. Rigid-style centralizers will be used in the lateral and curve sections of the well bore.

24) Describe all cement additives associated with each cement type:

Cement additives will be used as needed. The amount and type is dependent on hole conditions. Possible additives may include: Lost Circulation Material - granular, flake or fibrous, depending on the situation; Accelerant - $CaCl_2$ up to 2%.

25) Proposed borehole conditioning procedures:

Proposed bore hole conditioning procedures will depend on hole conditions. These may include, but are not limited to: weighted or high viscosity fluid sweeps, mud solvent fluid sweeps, surfacant sweeps, scouring sweeps, high-rate or extended circulation, pipe rotation and reciprocation, short trips and other appropriate methods.

*Note: Attach additional sheets as needed.

WW-6A1
(5/13)

Operator's Well No. Dunham 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Ronald Lee Carder and Jenny L. Carder	Triana Energy, LLC	=>12.5%	62/483
	Paul J. Tennant	Triana Energy, LLC	=>12.5%	63/341
	Ronald Lee Carder and Jenny L. Carder	Triana Energy, LLC	=>12.5%	Not Yet Recorded
	Mary Romino	Triana Energy, LLC	=>12.5%	Not Yet Recorded
	West Virginia Department of Agriculture	Triana Energy, LLC	=>12.5%	62/188

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

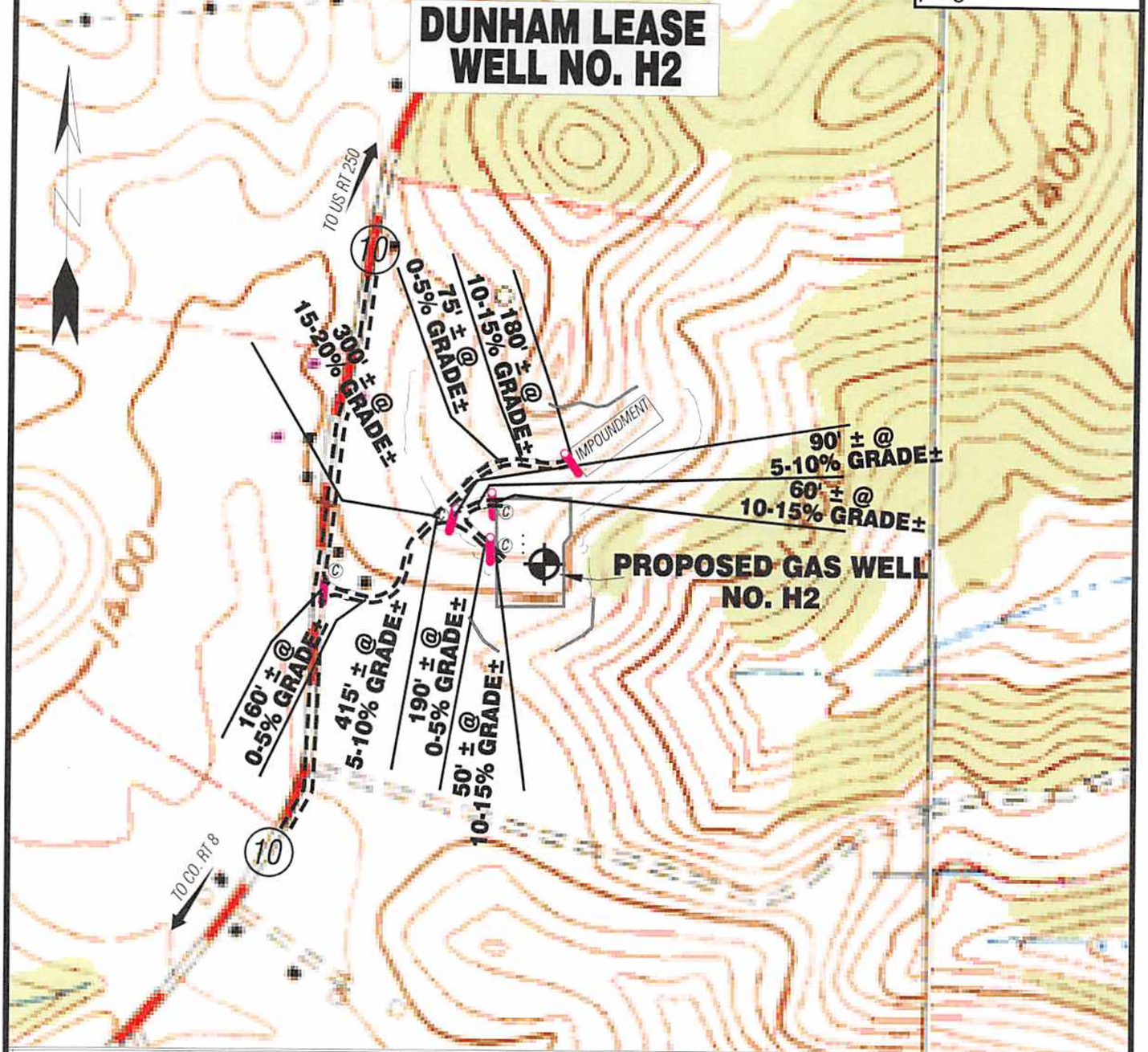
Well Operator: Triana Energy, LLC
By: Walter C. Showen, III
Its: Manager of Permitting

91-01285 mod 2

Form WW-9

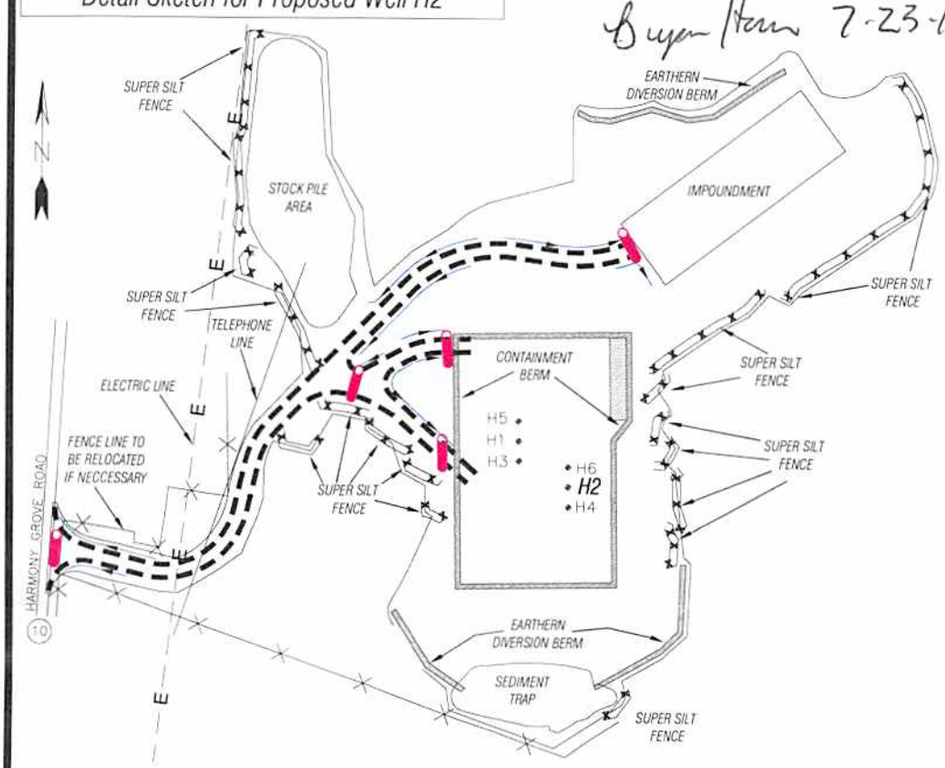
page of

DUNHAM LEASE
WELL NO. H2



Detail Sketch for Proposed Well H2

Buyer Item 7-23-13



SCALE: 1"=500'

0' 500' 1000'

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

(C) = PROPOSED CULVERT 15" MIN. UNLESS OTHERWISE NOTED

(X) = PROPOSED STREAM CROSSING

= APPROXIMATE LIMITS OF DISTURBANCE

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

Not To Scale

DRAWN BY	FILE NO.	DATE	CADD FILE:
M.J.H.	7754	07/12/13	7754RECH2R.dwg

TOPO SECTION OF ROSEMONT 7.5'
USGS TOPO QUADRANGLE

FORM WW-6

Mod 2

U	STEVE & MICHELLE PERSINGER	2.14 ACRES±	TM 12-71.13
V	SONYA M. HOLMES	1.75 ACRES±	TM 12-71.10
W	DALE & FLORENCE CLEAVENGER	1.25 ACRES±	TM 12-71.6
X	RONALD & JENNY CARDER	150.16 ACRES±	TM 12-P/O 70.1
Y	KENNETH & JEANNE OILER	88.52 ACRES±	TM 12-56.2
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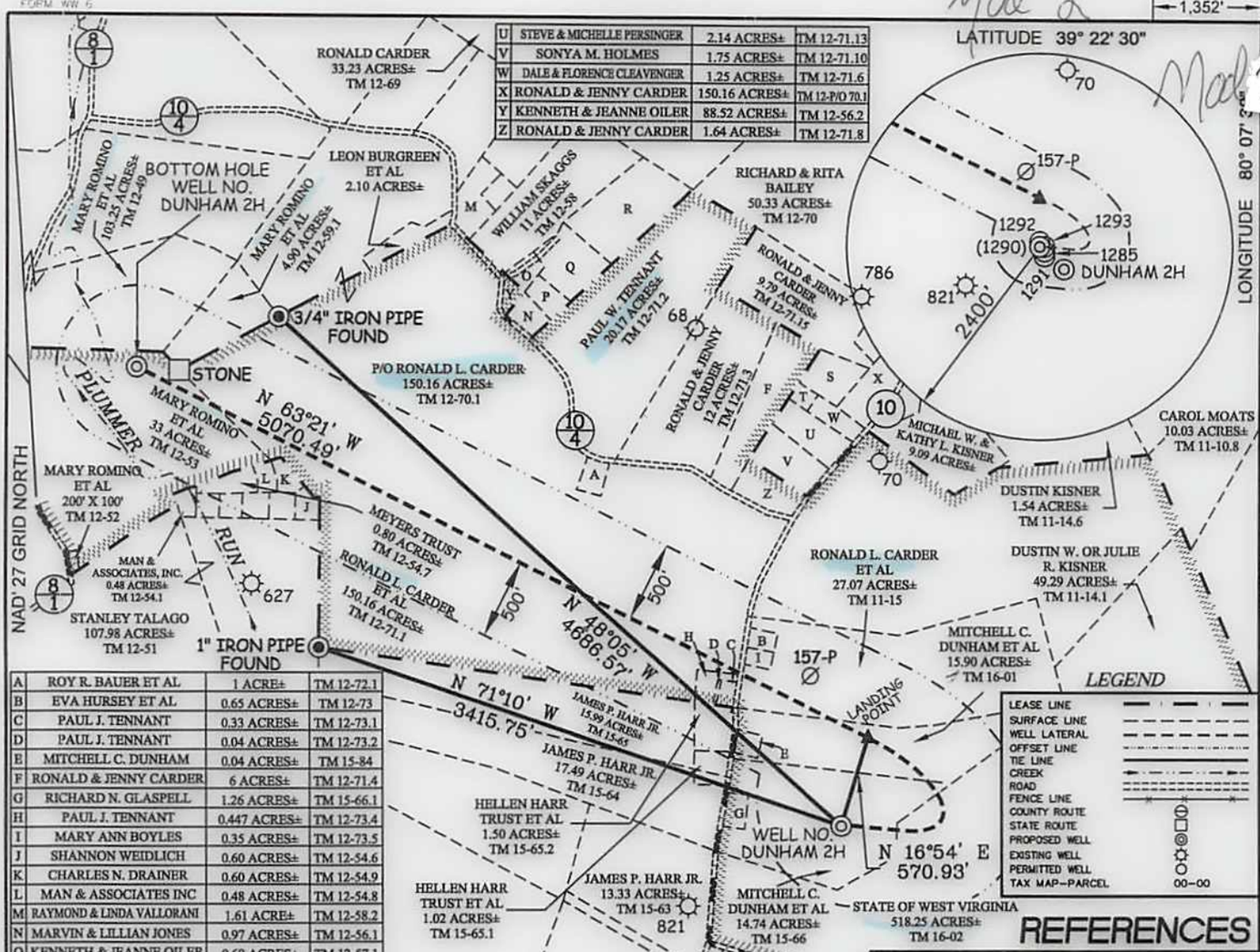

A	ROY R. BAUER ET AL	1 ACRE±	TM 12-72.1
B	EVA HURSEY ET AL	0.65 ACRES±	TM 12-73
C	PAUL J. TENNANT	0.33 ACRES±	TM 12-73.1
D	PAUL J. TENNANT	0.04 ACRES±	TM 12-73.2
E	MITCHELL C. DUNHAM	0.04 ACRES±	TM 15-84
F	RONALD & JENNY CARDER	6 ACRES±	TM 12-71.4
G	RICHARD N. GLASPELL	1.26 ACRES±	TM 15-66.1
H	PAUL J. TENNANT	0.447 ACRES±	TM 12-73.4
I	MARY ANN BOYLES	0.35 ACRES±	TM 12-73.5
J	SHANNON WEIDLICH	0.60 ACRES±	TM 12-54.6
K	CHARLES N. DRAINER	0.60 ACRES±	TM 12-54.9
L	MAN & ASSOCIATES INC	0.48 ACRES±	TM 12-54.8
M	RAYMOND & LINDA VALLORANI	1.61 ACRE±	TM 12-58.2
N	MARVIN & LILLIAN JONES	0.97 ACRES±	TM 12-56.1
O	KENNETH & JEANNE OILER	0.69 ACRES±	TM 12-57.1
P	MARVIN & LILLIAN JONES	0.87 ACRES±	TM 12-57.3
Q	A. D. & DOROTHY KISNER	2.85 ACRES±	TM 15-57.4
R	WILLIAM SKAGGS	6 ACRES±	TM 12-57.2
S	SHARON L. MATTHEWS	1.55 ACRES±	TM 15-71.14
T	LINDA MORRIS & SHIRLEY BOGGESS	0.66 ACRES±	TM 12-71.5

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.

DUNHAM LEASE
DUNHAM 2H

711.55 ACRES± LEASE
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 305,226	E. 1,821,868
NAD'27 GEO.	LAT-(N) 39.33631	LONG-(W) 80.12978
NAD'83 UTM (M)	N. 4,354,470	E. 575,013
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 305,773	E. 1,822,034
NAD'27 GEO.	LAT-(N) 39.33782	LONG-(W) 80.12921
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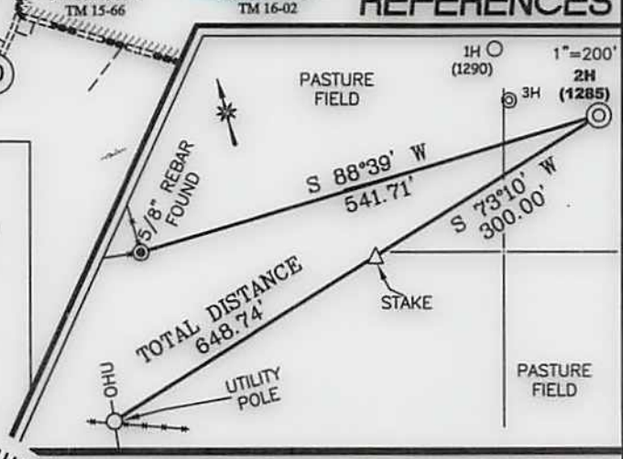
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 308,047	E. 1,817,502
NAD'27 GEO.	LAT-(N) 39.34397	LONG-(W) 80.14529
NAD'83 UTM (M)	N. 4,355,307	E. 573,669



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-6634 WWW.SLSSURVEYS.COM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 2266

THOMAS M. MEEKS LICENSED No. 2266 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE DECEMBER 17, 20 13
REVISED JUNE 13, 20 14
OPERATORS WELL NO. DUNHAM 2H
API WELL NO. 47 — 91 — 1285 HOA
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7754P2HR6
SCALE 1" = 1000'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

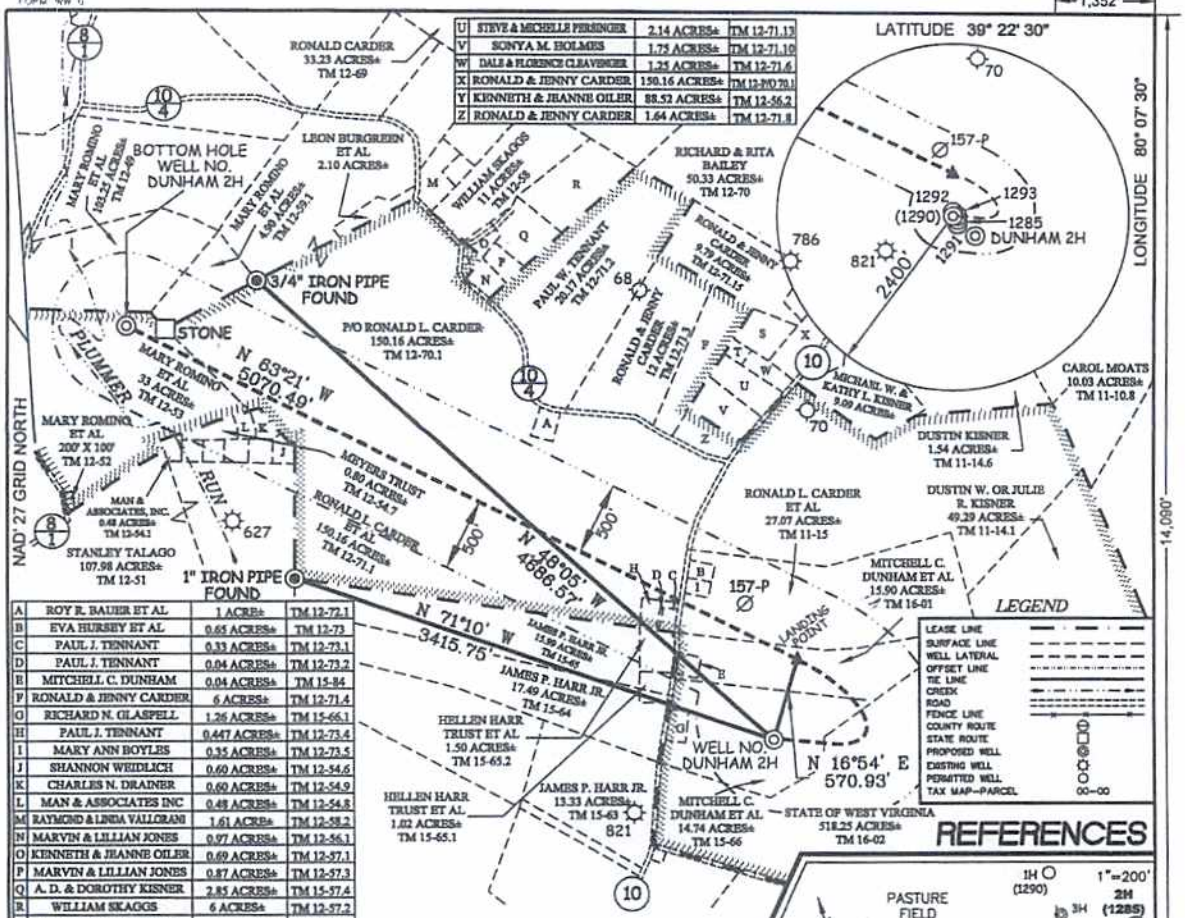
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION 1,420' WATERSHED TRIBUTARY OF LOST RUN
DISTRICT BOOTHS CREEK COUNTY TAYLOR QUADRANGLE ROSEMONT 7.5'
SURFACE OWNER MITCHELL DUNHAM ET AL ACREAGE 14.74±
ROYALTY OWNER SEE ATTACHED WW-6A1 ACREAGE 711.55±
PROPOSED WORK: LEASE NO. ___
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD 7,800' / TMD 13,251'

COUNTY NAME
PERMIT

WELL OPERATOR TRIANA ENERGY, L.L.C. DESIGNATED AGENT RACHELLE A. KING
ADDRESS 900 VIRGINIA STREET EAST, SUITE 400 ADDRESS 900 VIRGINIA STREET EAST, SUITE 400
CHARLESTON, WV 25301 CHARLESTON, WV 25301

4709101285



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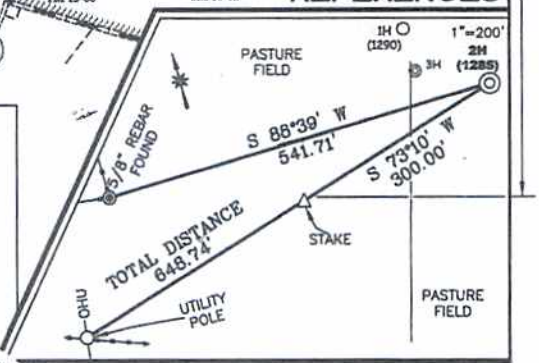
REFERENCES



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BOTTOM HOLE

NAD'27 S.P.C.(FT) N. 308,047 E. 1,817,502
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OPERATORS WELL NO. DUNHAM 2H
API WELL NO. 47 — 91 — 01285 (STATE — COUNTY — PERMIT)

H6A MOD 2

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7754P2HR6
SCALE 1" = 1000'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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PERMIT

WELL OPERATOR TRIANA ENERGY, L.L.C. DESIGNATED AGENT RACHELLE A. KING
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CHARLESTON, WV 25301 CHARLESTON, WV 25301