API Well Number: 43007503810000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Peters Point 1-27D-12-16

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐

3. FIELD OR WILDCAT
UNDESIGNATED

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
ENERVEST OPERATING, LLC

7. OPERATOR PHONE
713 659-3500

8. ADDRESS OF OPERATOR
1001 Fannin Street, Suite 800, Houston, TX, 77002

9. OPERATOR E-MAIL
bwall@evervest.net

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU-88627

11. MINERAL OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ☐ (Submit Commingling Application) NO ■

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1264 FNL 1768 FEL	NWNE	27	12.0 S	16.0 E	S
Top of Uppermost Producing Zone	529 FNL 645 FEL	NENE	27	12.0 S	16.0 E	S
At Total Depth	529 FNL 645 FEL	NENE	27	12.0 S	16.0 E	S

21. COUNTY
CARBON

22. DISTANCE TO NEAREST LEASE LINE (Feet)
1264

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
8

26. PROPOSED DEPTH
MD: 7561 TVD: 7323

27. ELEVATION - GROUND LEVEL
6772

28. BOND NUMBER
BOO8557

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
90-4

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	24	14	0 - 40	65.0	Unknown	8.6	Unknown	0	0.0	0.0
Surf	12.25	9.625	0 - 1100	36.0	J-55 ST&C	8.9	Varocem	240	1.7	12.0
							Halliburton Light , Type Unknown	200	1.15	15.8
Prod	7.875	4.5	0 - 7561	13.5	P-110 Other	9.5	Halliburton Premium , Type Unknown	560	2.08	12.5
							Halliburton Premium , Type Unknown	795	1.46	13.4

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ✔ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ✔ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ✔ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ✔ TOPOGRAPHICAL MAP

NAME Don Hamilton **TITLE** Permitting Agent **PHONE** 435 650-3866

SIGNATURE **DATE** 08/25/2014 **EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43007503810000

APPROVAL
Permit Manager

CONFIDENTIAL

RECEIVED: September 04, 2014

EnerVest Operating, LLC
Drilling Program
Peter's Point Federal 1-27D-12-16
Carbon County, Utah

DRILLING PROGRAM

ENERVEST OPERATING, LLC

Peter's Point Federal 1-27D-12-16

NWNE, 1264' FNL, 1768' FEL, Sec. 27, T12S-R16E (surface hole)
NENE, 529' FNL, 645' FEL, Sec. 27, T12S-R16E (bottom hole)
Carbon County, Utah

---

1 – 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

Formation	Depth – MD	Depth – TVD
Green River	Surface	Surface
Wasatch	2984'*	2866'*
North Horn	5110'*	4871'*
Dark Canyon	6695'*	6456'*
Price River	6912'*	6673'*
TD	7561'	7323'

PROSPECTIVE PAY: *Wasatch, North Horn, Dark Canyon, and Price River are the primary objectives. All potentially productive hydrocarbon zones will be isolated with cement in the production casing annulus.

CONFIDENTIAL

3. BOP, Wellhead, and Pressure Containment Data

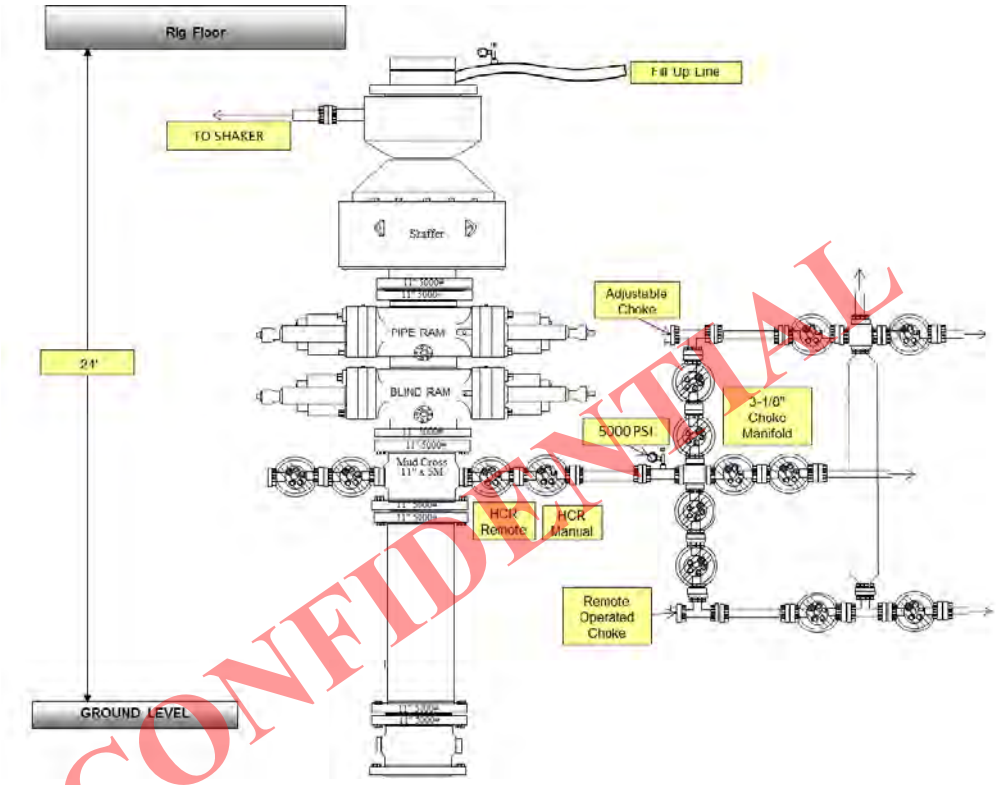
Depth Intervals	BOP Equipment
0 – 1100'	Diverter
1100' – TD	BOP Stack & Pressure Control • 11" 5000# Ram Type BOP • 11" 5000# Annular BOP • 3-1/8" Choke Manifold Accumulator • Vetco Gray, MA060-11SB3 • Main Reservoir Fluid Tank Size: 315 • 2 Tri Plex Pumps • 2 backup Nitrogen Bottles • 9 Bottles @ 10 gal/bottle = 90 gal capacity Usable Fluid Volume = 44 gal • Precharge = 1000 psi, Minimum = 1200 psi, System = 2950 psi • Considering a Closing Volume Annular = 18.67 gal, Closing Volume Ram #1 = 2.8 gal, Closing Volume Ram #2 = 2.8 gal, Closing Volume HCR's = 1 gal, and Safety Factor = 1.5: Usable Fluid Required = 37.905 gal, Total Volume Required = 77 gal, Number of Bottles Required = 8 bottles
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	

RECEIVED: August 25, 2014

EnerVest Operating, LLC
Drilling Program
Peter's Point Federal 1-27D-12-16
Carbon County, Utah

- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.

Wellhead Information



CONFIDENTIAL

4. Casing Program

Hole Size	Setting Depth From	Setting Depth To	Casing Size	Casing Weight	Casing Grade	Thread	Condition	Burst psi	Collapse psi	Tension lbs
24"	Surface	40'	14"	65#						
12 ¼"	Surface	1100'	9 5/8"	36#	J or K 55	ST&C	New	3,520	2,020	394,000*
7 7/8"	Surface	TD'	4 ½"	13.5#	P-110	Patriot TC	New	12,410**	10,670**	422,000**
Centralizer Program: Surface – centralizer every 3rd joint. Production – every 2nd joint in the curves and tangent, every 3rd joint in the vertical sections										

* STC Tension rating (394,000 lbs) is lower than pipe body rating (564,000 lbs) and is used in design factor calculation

** Patriot TC is a 100% rated connection in Burst, Collapse, and Tension (pipe body rating = connection rating)

Casing Size	API Burst DF	API Collapse DF	API Tension DF	Load DF, Burst	Load DF, Collapse	Load DF, Tension
9 5/8"	1.2	1.1	1.6	6.5	3.7	9.9
4 ½"	1.2	1.1	1.6	1.4	2.9	2.9

RECEIVED: August 25, 2014

EnerVest Operating, LLC
Drilling Program
Peter's Point Federal 1-27D-12-16
Carbon County, Utah

Load Cases

9-5/8" Burst: 9.5 ppg inside, vacuum outside
9-5/8" Collapse: Vacuum inside, 9.5 ppg outside
9-5/8" Tension: Hanging weight, no buoyancy

4-1/2" Burst: 8.33 ppg frac fluid + frac pressure at screenout, 8.33 ppg outside
4-1/2" Collapse: Vacuum inside, 9.5 ppg outside
4-1/2" Tension: Frac pressure at screenout, no buoyancy

Casing Testing Procedure

Surface casing will be tested to 1500 psi for 30 minutes with BOP testers. Casing will be tested subsequent to performing BOP, choke, and surface valve tests.

Production casing will be tested to .22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

CONFIDENTIAL

5. Cementing Program

14" Conductor Casing	Grout cement
9 5/8" Surface Casing	*Lead* with approximately 240 sx Varicem cement, 14.24 gal/sk Fresh Water, 2% BWOC Cal-Seal 60, 0.35%BWOC Versaset (PB), 0.3%BWOC D-Air 5000, 6% BWOW NaCl, 2.5% BWOC Econolite (Powder-PB),mixed at 12.0 ppg (yield = 1.70 ft^3/sx). Calculated TOC = 0' (800' Fill), 100% Excess *Tail* with approximately and 200 sx Halcem cement, 5.02 gal/sk Fresh Water, 1% BWOW NaCl, mixed at 15.8 ppg (yield = 1.15 ft^3/sx). Calculated TOC = 800' (300' Fill), 100% Excess
4 ½" Production Casing	*Lead* with approximately 560 sx Econocem, 10.31 gal/sk Fresh Water, 0.7% BWOC HR-5 (PB), 0.125 lb/sk Pol-E-Flake, mixed at 12.5 ppg (yield = 2.08 ft^3/sk). Calculated TOC = 800' (3390' Fill), 10% Excess *Tail* with approximately 795 sx Expandacem, 6.93 gal/sk Fresh Water, 0.125 lb/sk Pol-E-Flake, 1 lb/sk Granulite TR ¼, 0.1% BWOC HR-5 (PB), mixed at 13.4 ppg (yield = 1.46 ft^3/sk). Calculated TOC = 4190' (3371' Fill), 10% Excess

6. Mud Program

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	Remarks
0 – 40'	8.3 – 8.6	27 – 40	--	Native Spud Mud
40' – 1100'	--	--	--	Air Drilling
1100' – TD	8.6 – 9.5	38 – 46	15 cc or less	LSND

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. EV may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag in the production hole only.

Surface casing will be drilled with air. If water is encountered, EV will mud up conventionally with fresh water mud. Diesel will only be used in the production hole, particularly if there are high angle

RECEIVED: August 25, 2014

tangents or sloughing shale (maximum diesel of 3-5%). However, Gilsonite mud additives are the preferred method of controlling sloughing shale and diesel additions will be avoided if possible.

7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	Run every 1000' and on trips, slope only;
Logging	ACRT-GR-SP, FDC-CNL-GR-CAL-Pe-Microlog, Sonic-GR, all TD to surface.

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Loss circulation is a concern while drilling to surface casing point, but air drilling should help mitigate the issue. The second zone of loss concern is the Wasatch, to which an LCM program of Cotton Seed Hulls and Cedar Fiber sweeps will be applied if losses are encountered.

Maximum anticipated bottom hole pressure equals approximately 3618 psi* and maximum anticipated surface pressure equals approximately 2007 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TVD = A (bottom hole pressure)
**Maximum surface pressure = A – (0.22 x TVD)

CONFIDENTIAL

9. Auxiliary Equipment

a) Upper kelly cock; lower Kelly cock will be installed while drilling
b) Inside BOP or stab-in valve (available on rig floor)
c) Safety valve(s) and subs to fit all string connections in use
d) Mud monitoring will be visually observed

10. Drilling Schedule

Location Construction:	Not Constructed
Spud:	9/8/2014
Duration:	8 days drilling time
	15 days completion time

RECEIVED: August 25, 2014

Other -Onshore Variances Requested

Use of EFM and Flow Conditioner (Onshore Order No. 5)
Use of an electronic flow meter (EFM) for gas measurement purposes is requested with this application.

Use of a flow conditioner is also being requested (versus straightening vanes). Flow conditioners have been proven to be as or more effective than straightening vanes in conditioning gas for measurement. In addition to their superior conditioning properties, they take up less space (shorter meter runs/smaller footprint), and are less prone to corrosion and dislodging (greater reliability). In the past EV has experienced straightening vanes becoming dislodged in normal service and compromising their conditioning effectiveness.

Make/Model: CPA 50E
Dimensions: 2" or 3" Flanged conditioners - 16" minimum up to 3 1/2' long x 2" (ID 2.067) OR 24" minimum up to 3 1/2' long x 3" (ID 3.068)

Air Drilling (Onshore Order No. 2)
Air drilling operations will be conducted with the purpose of drilling and setting surface casing with the drilling rig for all Federal wells located at this pad. Surface casing is approximately 1100'. EV will comply with the following surface air drilling operation requirements:

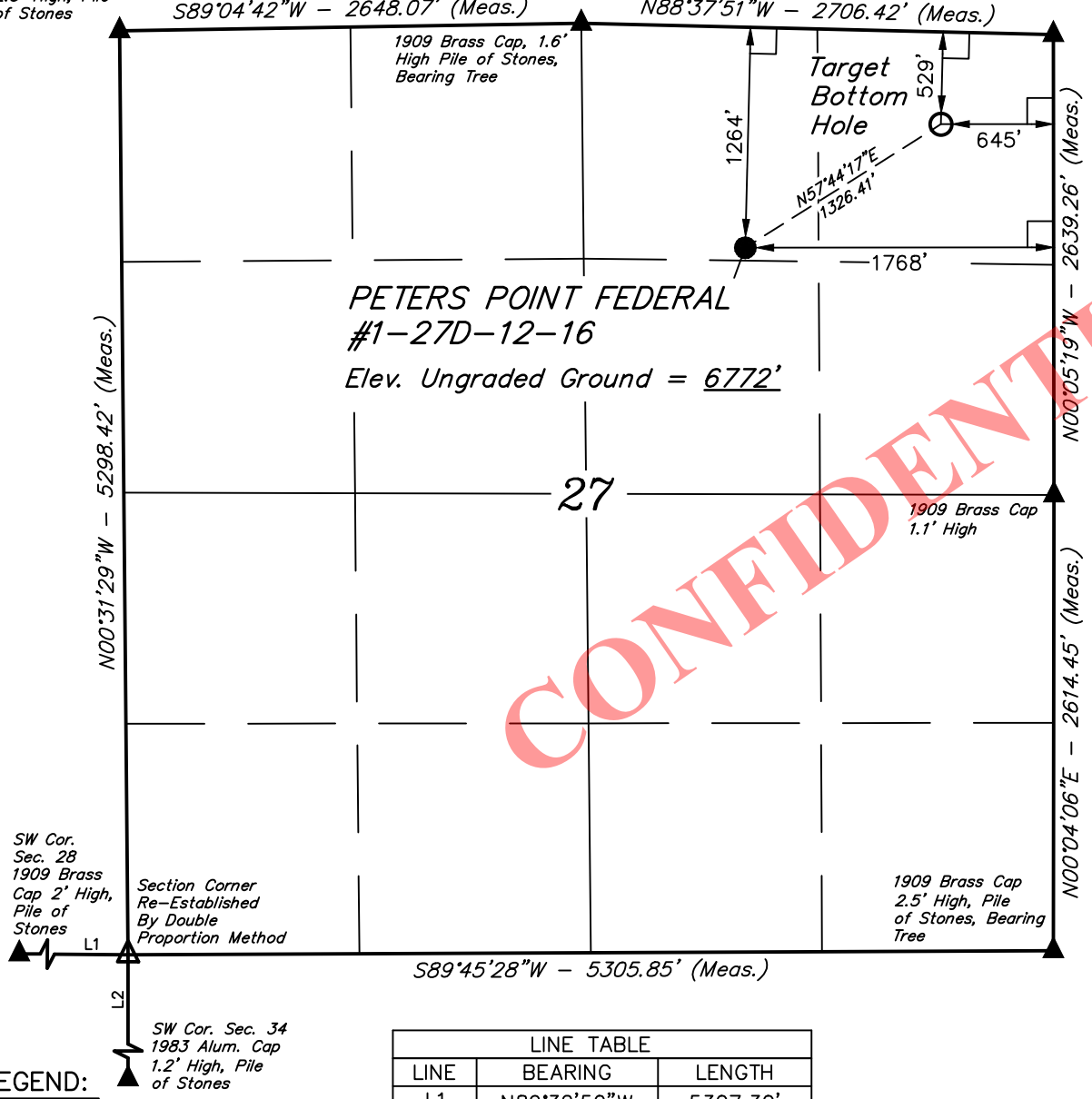
1. Properly lubricated and maintained diverter system in place of a rotating head. The diverter system forces air and cutting returns to the cuttings pit and is used solely to drill the surface hole. In addition, EV will use a properly lubricated and maintained rotating head in compliance with OOG No. 2.
2. The Blooie line will discharge at least 100 feet from the wellbore and will be securely anchored.
3. An automatic igniter or continuous pilot light will be installed at the end of the blooie line.
4. Compressors that supply energy to drill the air filled surface hole will be located 100' away from the wellbore and on the opposite side of the blooie line. The compressors will be equipped with 1) emergency kill switch, 2) pressure relief valves 3) spark arresters on the motors.

CONFIDENTIAL

RECEIVED: August 25, 2014

API Well Number: 43007503810000

T12S, R16E, S.L.B.&M.



CONFIDENTIAL

ENERVEST OPERATING, LLC

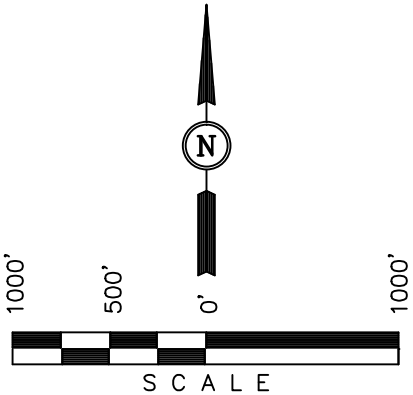
Well location, PETERS POINT FEDERAL #1-27D-12-16, located as shown in the NW 1/4 NE 1/4 of Section 27, T12S, R16E, S.L.B.&M., Carbon County, Utah.

BASIS OF ELEVATION

COTTON TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 31, T12S, R16E, S.L.B.&M. TAKEN FROM THE TWIN HOLLOW QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7386 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION NO. 179869 STATE OF UTAH HAROLD NELSON MARSHALL

REGISTERED LAND SURVEYOR
REGISTRATION NO. 179869
STATE OF UTAH

07-28-14

REV: 07-25-14 J.J.
REV: 07-02-14 J.J.

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

LINE TABLE		
LINE	BEARING	LENGTH
L1	N89°32'50"W	5307.30'
L2	N00°02'13"W	5298.20'

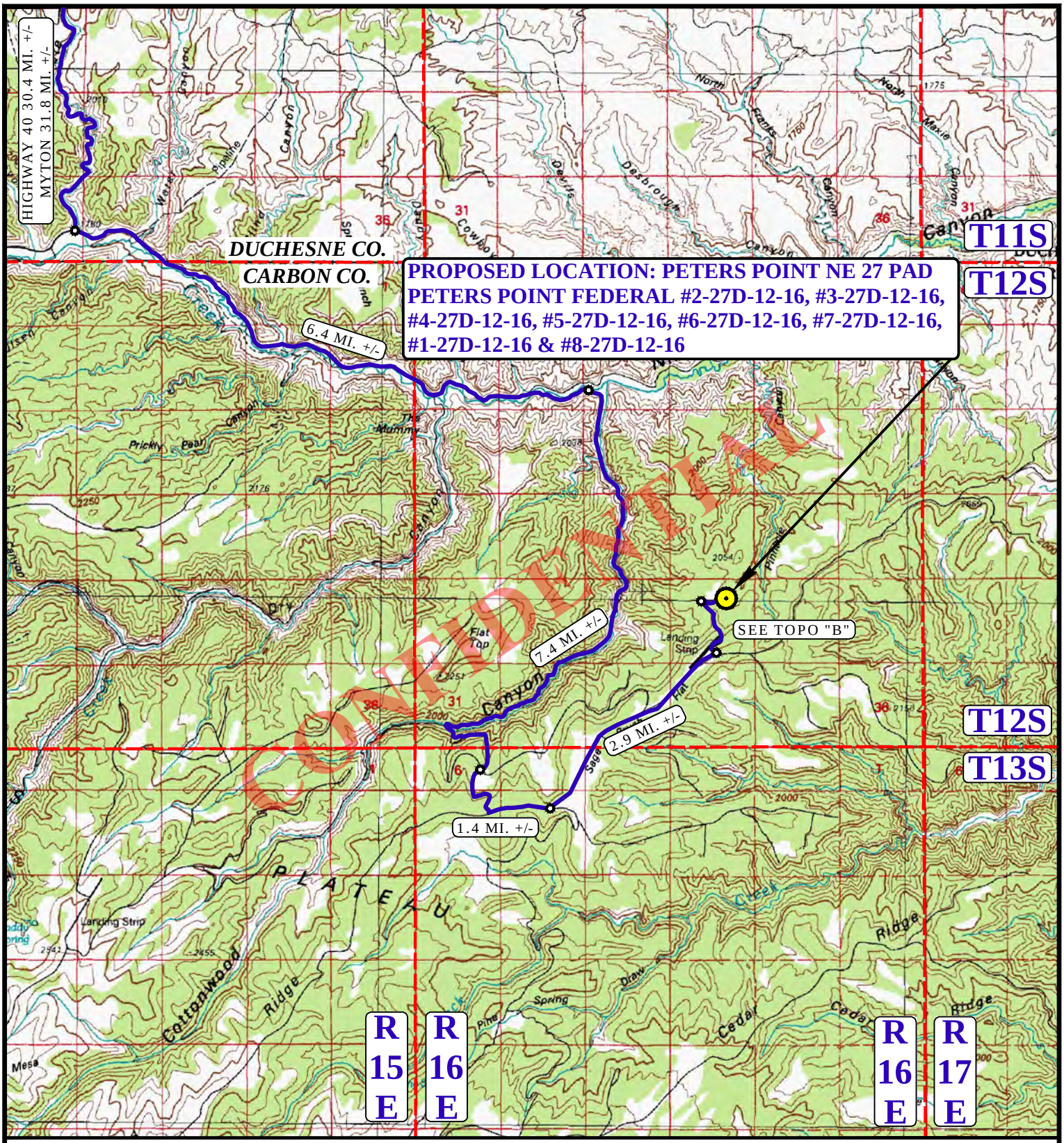
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°45'02.49" (39.750692)	LATITUDE = 39°44'55.50" (39.748750)
LONGITUDE = 110°06'11.71" (110.103253)	LONGITUDE = 110°06'26.07" (110.107242)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 39°45'02.62" (39.750728)	LATITUDE = 39°44'55.63" (39.748786)
LONGITUDE = 110°06'09.16" (110.102544)	LONGITUDE = 110°06'23.52" (110.106533)
STATE PLANE NAD 27	**STATE PLANE NAD 27**
N: 519320.44 E: 2392890.22	N: 518596.14 E: 2391779.72

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-10-10	DATE DRAWN: 05-29-14
PARTY T.A. C.A. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ENERVEST OPERATING, LLC	

RECEIVED: August 25, 2014

API Well Number: 43007503810000



LEGEND:

PROPOSED LOCATION

ENERVEST OPERATING, LLC

PETERS POINT NE 27 PAD
PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

N

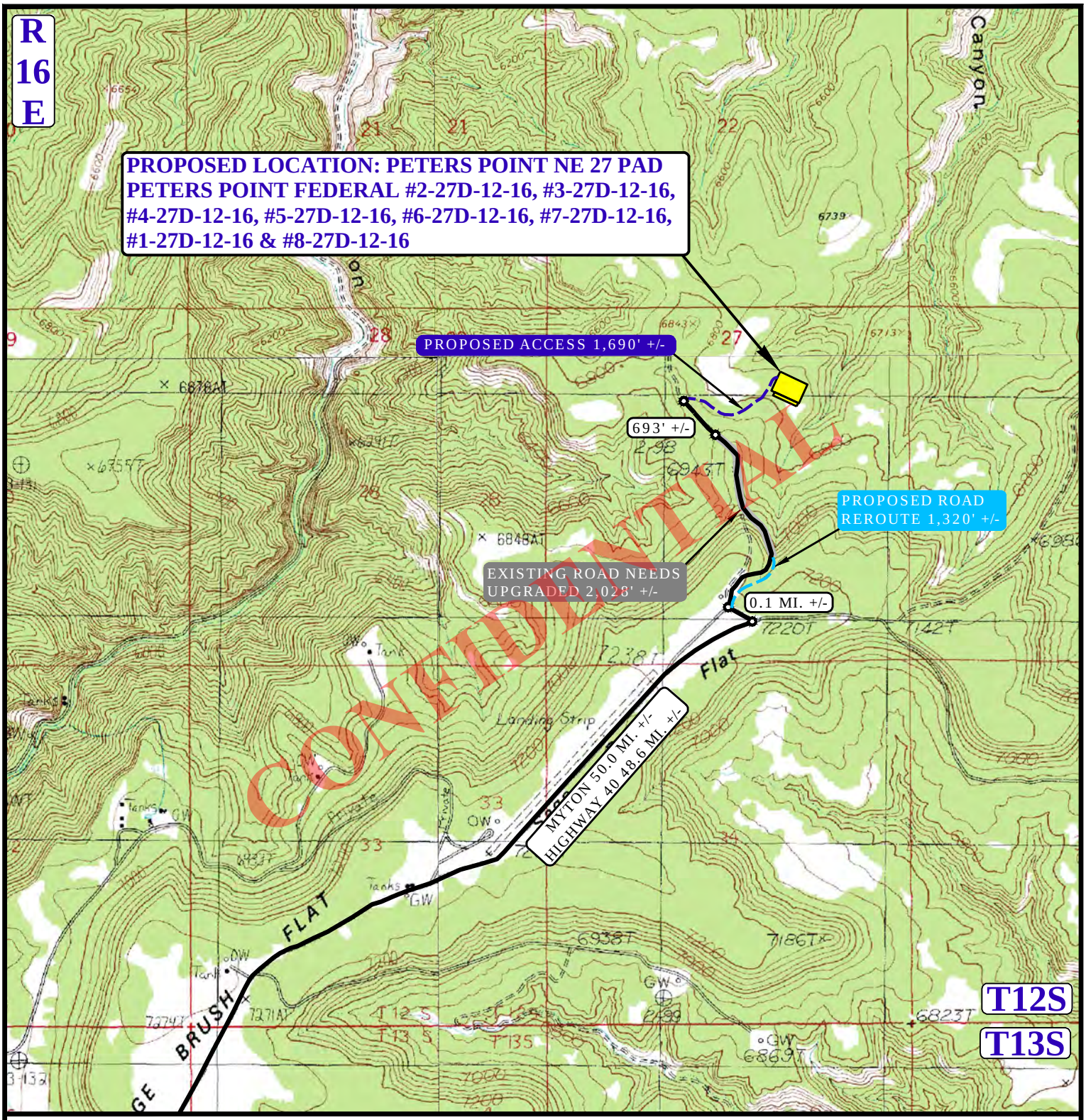
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J	DATE DRAWN: 09-21-10
SCALE: 1:100,000	REVISED: 07-10-14 L.S.
ACCESS ROAD MAP	**TOPO A**

RECEIVED: August 25, 2014

API Well Number: 43007503810000



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED ROAD RE-ROUTE
- EXISTING ROAD TO BE UPGRADED

ENERVEST OPERATING, LLC

PETERS POINT NE 27 PAD
PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

N

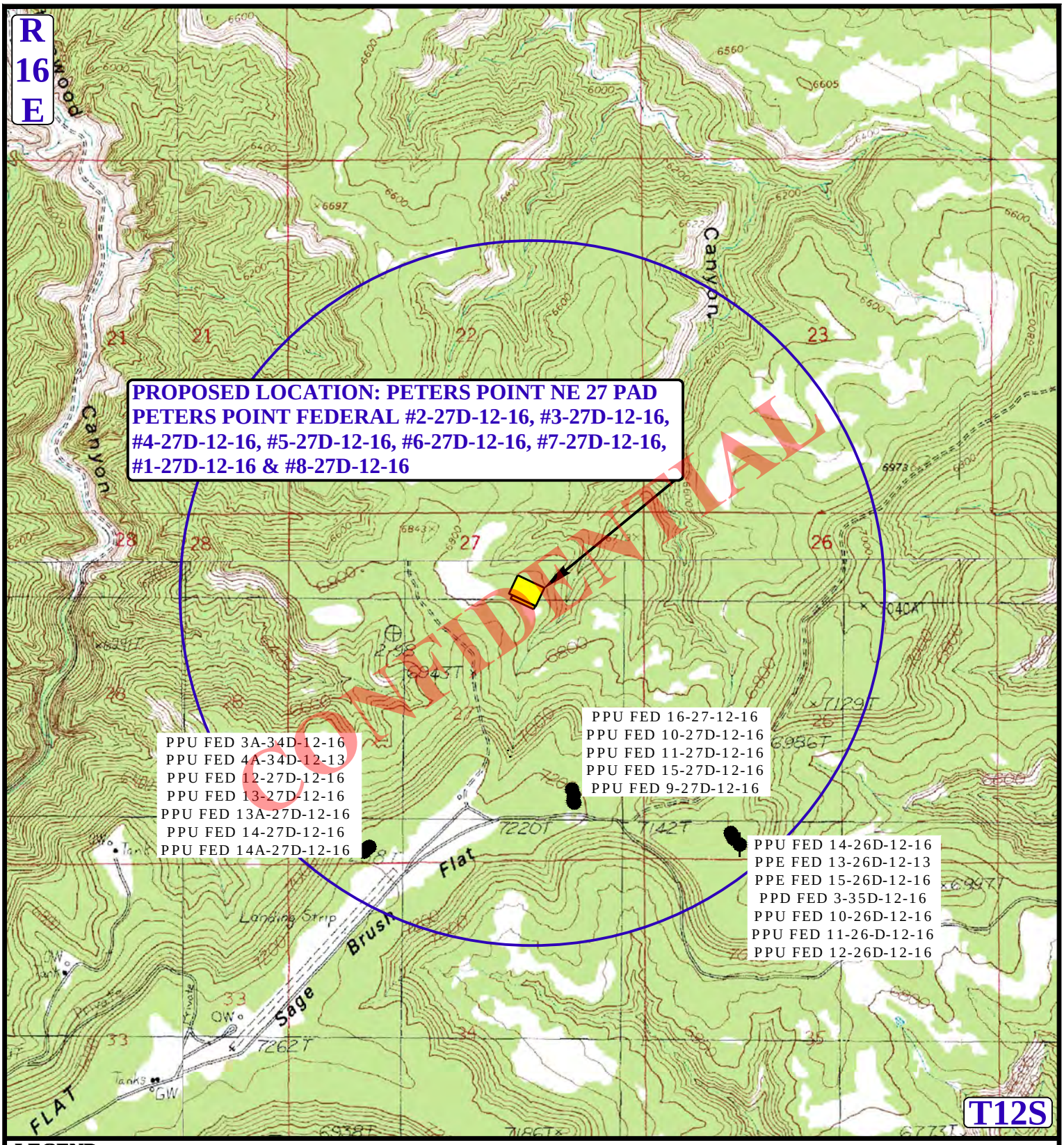
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J	DATE DRAWN: 09-21-10
SCALE: 1" = 2000'	REVISED: 07-10-14 L.S.
ACCESS ROAD MAP	**TOPO B**

RECEIVED: August 25, 2014

API Well Number: 43007503810000



LEGEND:

- DISPOSAL WELLS
- WATER WELLS
- PRODUCING WELLS
- ABANDONED WELLS
- SHUT IN WELLS
- TEMPORARILY ABANDONED

N

ENERVEST OPERATING, LLC

PETERS POINT NE 27 PAD
PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

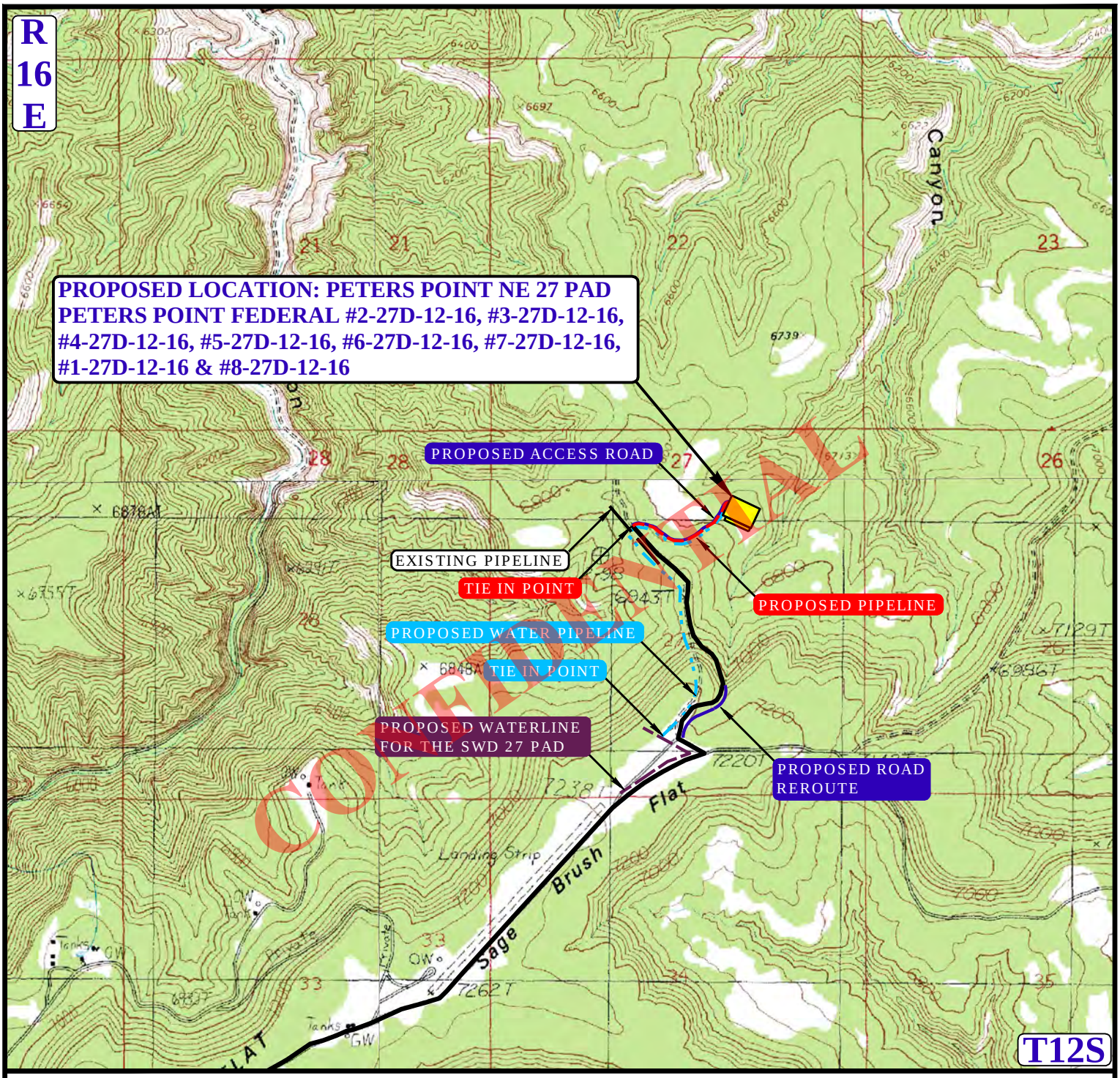
UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J	DATE DRAWN: 09-21-10
SCALE: 1" = 2000'	REVISED: 07-10-14 L.S.
WELL PROXIMITY MAP	**TOPO C**

RECEIVED: August 25, 2014

API Well Number: 43007503810000



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,674' +/-

APPROXIMATE TOTAL WATER PIPELINE DISTANCE = 5,185' +/-

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- PROPOSED ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)
- PROPOSED WATER LINE

ENERVEST OPERATING, LLC

PETERS POINT NE 27 PAD
PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

N

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J	DATE DRAWN: 09-21-10
SCALE: 1" = 2000'	REVISED: 07-10-14 L.S.
PIPELINE MAP	**TOPO D**

RECEIVED: August 25, 2014

API Well Number: 4300750381 0000

Scientific Drilling

Company: EnerVest Operating LLC
Project: Carbon County, UT NAD27
Site: Peters Point NE 27 Pad
Well: Peters Point UF 1-27D-12-16

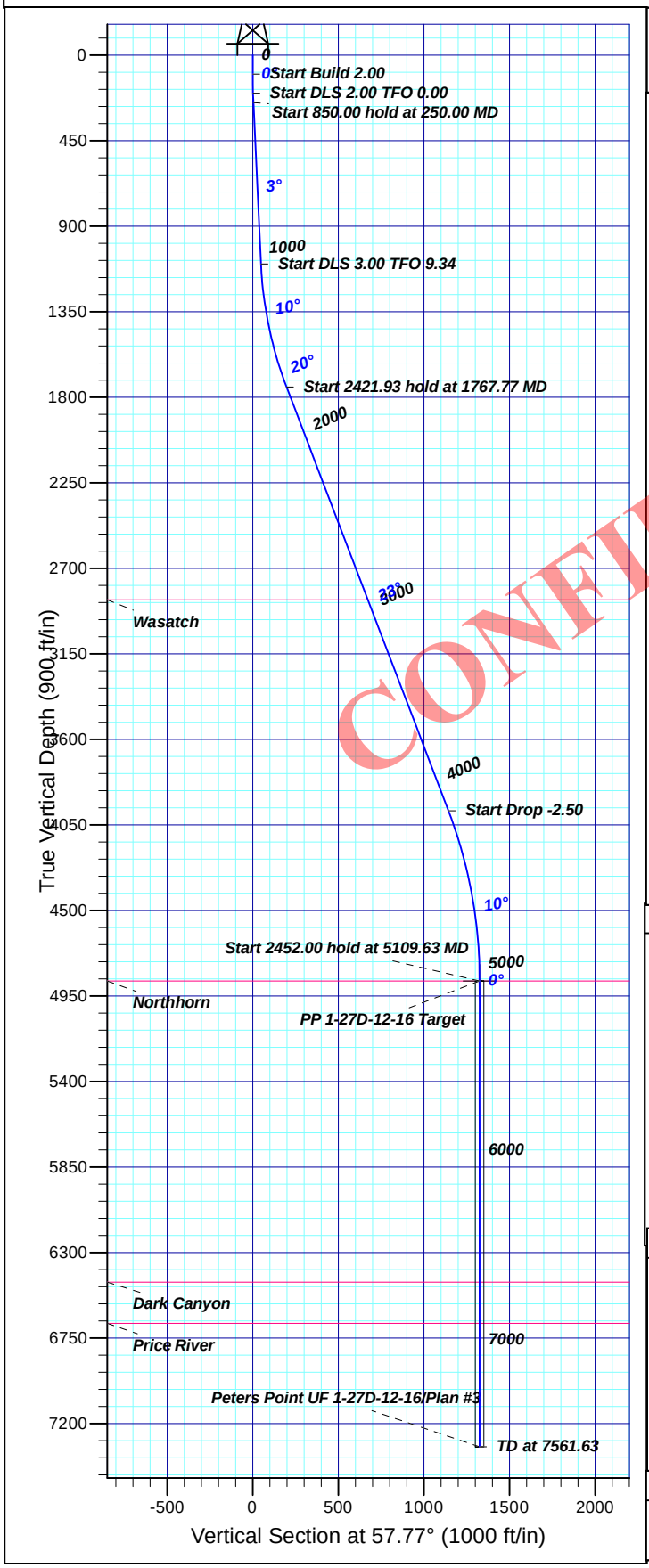
Well Details: Peters Point UF 1-27D-12-16

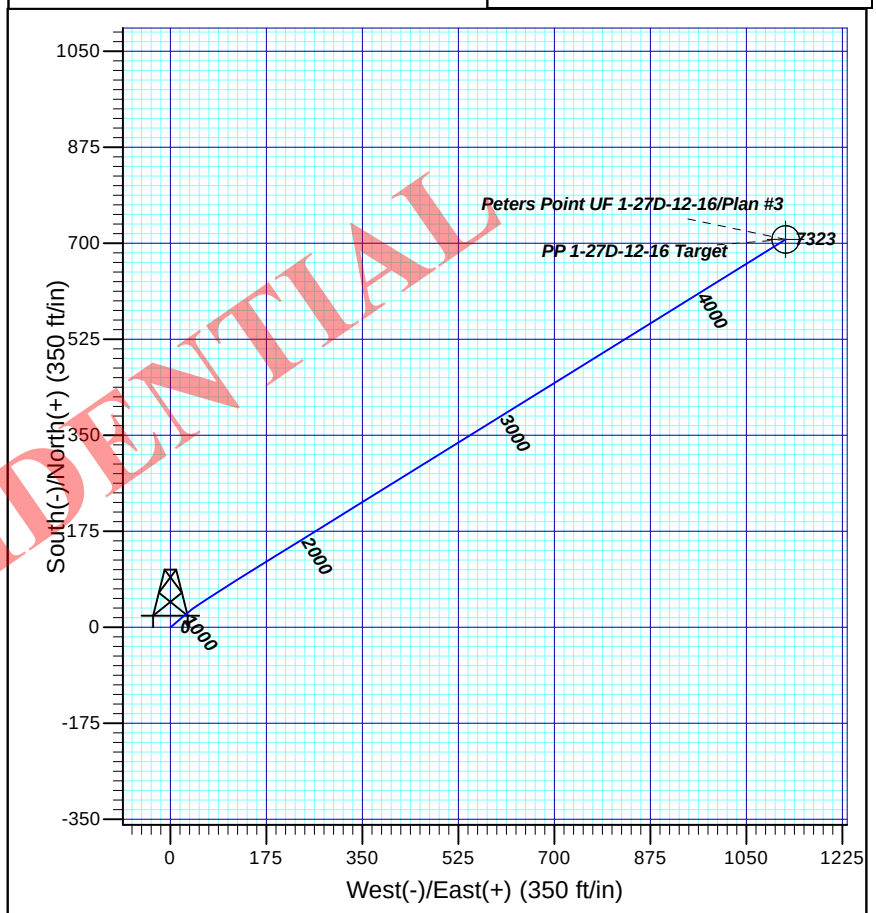
GL 6772' & KB 24' @ 6796.00ft (H&P 276)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	518596.14	2391779.95	39° 44' 55.629 N	110° 6' 23.519 W	B

T M Azimuths to True North
Magnetic North: 11.02°

Magnetic Field
Strength: 51696.1snT
Dip Angle: 65.47°
Date: 5/27/2014
Model: BGGM2014





CONFIDENTIAL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2866.00	2984.32	Wasatch
4871.00	5109.63	Northhorn
6456.00	6694.63	Dark Canyon
6673.00	6911.63	Price River

Plan: Plan #3

12:10, August 20 2014
Created By: Janie Collins

PROJECT DETAILS: Carbon County, UT NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302

System Datum: Mean Sea Level

CASING DETAILS

No casing data is available

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
3	200.00	2.00	50.00	199.98	1.12	1.34	2.00	50.00	1.73	
4	250.00	3.00	50.00	249.93	2.52	3.01	2.00	0.00	3.89	
5	1100.00	3.00	50.00	1098.77	31.12	37.09	0.00	0.00	47.97	
6	1767.77	23.00	58.18	1746.15	111.96	162.60	3.00	9.34	197.25	
7	4189.70	23.00	58.18	3975.57	610.87	966.64	0.00	0.00	1143.48	
8	5109.63	0.00	0.00	4871.00	706.92	1121.42	2.50	180.00	1325.64	PP 1-27D-12-16 Target
9	7561.63	0.00	0.00	7323.00	706.92	1121.42	0.00	0.00	1325.64	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PP 1-27D-12-16 Target - plan hits target center	4871.00	706.92	1121.42	519320.44	2392890.22	39° 45' 2.616 N	110° 6' 9.160 W	Circle (Radius: 25.00)

EnerVest Operating LLC

Carbon County, UT NAD27
Peters Point NE 27 Pad
Peters Point UF 1-27D-12-16 - Slot B

OH

Plan: Plan #3

CONFIDENTIAL

Standard Planning Report

20 August, 2014

Scientific Drilling

www.scientificdrilling.com

RECEIVED: August 25, 2014

Planning Report

Scientific Drilling

Database:	Grand Junction District	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Company:	EnerVest Operating LLC	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Project:	Carbon County, UT NAD27	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**North Reference:**	True
Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Project Carbon County, UT NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Peters Point NE 27 Pad

Site Position:		**Northing:**	518,596.16 usft	**Latitude:**	39° 44' 55.630 N
From:	Lat/Long	**Easting:**	2,391,779.95 usft	**Longitude:**	110° 6' 23.519 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.89 °

Well Peters Point UF 1-27D-12-16 - Slot B

Well Position	**+N/-S**	-0.03 ft	**Northing:**	518,596.14 usft	**Latitude:**	39° 44' 55.629 N
	+E/-W	0.00 ft	**Easting:**	2,391,779.95 usft	**Longitude:**	110° 6' 23.519 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	6,772.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/27/2014	11.02	65.47	51,696

Design Plan #3

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	57.77

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	2.00	50.00	199.98	1.12	1.34	2.00	2.00	0.00	50.00	
250.00	3.00	50.00	249.93	2.52	3.01	2.00	2.00	0.00	0.00	
1,100.00	3.00	50.00	1,098.77	31.12	37.09	0.00	0.00	0.00	0.00	
1,767.77	23.00	58.18	1,746.15	111.96	162.60	3.00	2.99	1.22	9.34	
4,189.70	23.00	58.18	3,975.57	610.87	966.64	0.00	0.00	0.00	0.00	
5,109.63	0.00	0.00	4,871.00	706.92	1,121.42	2.50	-2.50	0.00	180.00	PP 1-27D-12-16 Targ
7,561.63	0.00	0.00	7,323.00	706.92	1,121.42	0.00	0.00	0.00	0.00	

CONFIDENTIAL

RECEIVED: August 25, 2014

Planning Report

Scientific Drilling

Database:	Grand Junction District	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Company:	EnerVest Operating LLC	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Project:	Carbon County, UT NAD27	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**North Reference:**	True
Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
200.00	2.00	50.00	199.98	1.12	1.34	1.73	2.00	2.00	0.00
Start DLS 2.00 TFO 0.00									
250.00	3.00	50.00	249.93	2.52	3.01	3.89	2.00	2.00	0.00
Start 850.00 hold at 250.00 MD									
300.00	3.00	50.00	299.86	4.21	5.01	6.48	0.00	0.00	0.00
400.00	3.00	50.00	399.73	7.57	9.02	11.67	0.00	0.00	0.00
500.00	3.00	50.00	499.59	10.93	13.03	16.85	0.00	0.00	0.00
600.00	3.00	50.00	599.45	14.30	17.04	22.04	0.00	0.00	0.00
700.00	3.00	50.00	699.31	17.66	21.05	27.22	0.00	0.00	0.00
800.00	3.00	50.00	799.18	21.03	25.06	32.41	0.00	0.00	0.00
900.00	3.00	50.00	899.04	24.39	29.07	37.60	0.00	0.00	0.00
1,000.00	3.00	50.00	998.90	27.75	33.08	42.78	0.00	0.00	0.00
1,100.00	3.00	50.00	1,098.77	31.12	37.09	47.97	0.00	0.00	0.00
Start DLS 3.00 TFO 9.34									
1,200.00	5.98	54.68	1,198.45	35.81	43.34	55.76	3.00	2.98	4.68
1,300.00	8.97	56.24	1,297.59	43.16	54.08	68.76	3.00	2.99	1.57
1,400.00	11.97	57.03	1,395.91	53.14	69.27	86.93	3.00	3.00	0.79
1,500.00	14.97	57.51	1,493.15	65.72	88.86	110.22	3.00	3.00	0.48
1,600.00	17.97	57.83	1,589.04	80.88	112.81	138.56	3.00	3.00	0.32
1,700.00	20.97	58.06	1,683.31	98.56	141.06	171.89	3.00	3.00	0.23
1,767.77	23.00	58.18	1,746.15	111.96	162.60	197.25	3.00	3.00	0.18
Start 2421.93 hold at 1767.77 MD									
1,800.00	23.00	58.18	1,775.82	118.60	173.30	209.84	0.00	0.00	0.00
1,900.00	23.00	58.18	1,867.87	139.20	206.50	248.91	0.00	0.00	0.00
2,000.00	23.00	58.18	1,959.92	159.80	239.69	287.98	0.00	0.00	0.00
2,100.00	23.00	58.18	2,051.97	180.40	272.89	327.05	0.00	0.00	0.00
2,200.00	23.00	58.18	2,144.02	201.00	306.09	366.12	0.00	0.00	0.00
2,300.00	23.00	58.18	2,236.08	221.60	339.29	405.19	0.00	0.00	0.00
2,400.00	23.00	58.18	2,328.13	242.20	372.49	444.26	0.00	0.00	0.00
2,500.00	23.00	58.18	2,420.18	262.80	405.69	483.33	0.00	0.00	0.00
2,600.00	23.00	58.18	2,512.23	283.40	438.88	522.40	0.00	0.00	0.00
2,700.00	23.00	58.18	2,604.28	304.00	472.08	561.47	0.00	0.00	0.00
2,800.00	23.00	58.18	2,696.33	324.60	505.28	600.54	0.00	0.00	0.00
2,900.00	23.00	58.18	2,788.39	345.20	538.48	639.61	0.00	0.00	0.00
2,984.32	23.00	58.18	2,866.00	362.57	566.47	672.55	0.00	0.00	0.00
Wasatch									
3,000.00	23.00	58.18	2,880.44	365.80	571.68	678.68	0.00	0.00	0.00
3,100.00	23.00	58.18	2,972.49	386.40	604.88	717.74	0.00	0.00	0.00
3,200.00	23.00	58.18	3,064.54	407.00	638.07	756.81	0.00	0.00	0.00
3,300.00	23.00	58.18	3,156.59	427.60	671.27	795.88	0.00	0.00	0.00
3,400.00	23.00	58.18	3,248.64	448.20	704.47	834.95	0.00	0.00	0.00
3,500.00	23.00	58.18	3,340.70	468.80	737.67	874.02	0.00	0.00	0.00
3,600.00	23.00	58.18	3,432.75	489.40	770.87	913.09	0.00	0.00	0.00
3,700.00	23.00	58.18	3,524.80	510.00	804.07	952.16	0.00	0.00	0.00
3,800.00	23.00	58.18	3,616.85	530.60	837.26	991.23	0.00	0.00	0.00
3,900.00	23.00	58.18	3,708.90	551.20	870.46	1,030.30	0.00	0.00	0.00
4,000.00	23.00	58.18	3,800.95	571.80	903.66	1,069.37	0.00	0.00	0.00
4,100.00	23.00	58.18	3,893.01	592.40	936.86	1,108.44	0.00	0.00	0.00
4,189.70	23.00	58.18	3,975.57	610.87	966.64	1,143.48	0.00	0.00	0.00
Start Drop -2.50									

CONFIDENTIAL

RECEIVED: August 25, 2014

Planning Report

Scientific Drilling

Database:	Grand Junction District	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Company:	EnerVest Operating LLC	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Project:	Carbon County, UT NAD27	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**North Reference:**	True
Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	22.74	58.18	3,985.07	612.99	970.04	1,147.49	2.50	-2.50	0.00
4,300.00	20.24	58.18	4,078.11	632.30	1,001.17	1,184.12	2.50	-2.50	0.00
4,400.00	17.74	58.18	4,172.66	649.46	1,028.81	1,216.66	2.50	-2.50	0.00
4,500.00	15.24	58.18	4,268.54	664.42	1,052.93	1,245.04	2.50	-2.50	0.00
4,600.00	12.74	58.18	4,365.56	677.17	1,073.47	1,269.21	2.50	-2.50	0.00
4,700.00	10.24	58.18	4,463.55	687.67	1,090.40	1,289.13	2.50	-2.50	0.00
4,800.00	7.74	58.18	4,562.31	695.91	1,103.68	1,304.76	2.50	-2.50	0.00
4,900.00	5.24	58.18	4,661.66	701.87	1,113.28	1,316.06	2.50	-2.50	0.00
5,000.00	2.74	58.18	4,761.41	705.54	1,119.19	1,323.02	2.50	-2.50	0.00
5,100.00	0.24	58.18	4,861.37	706.91	1,121.40	1,325.62	2.50	-2.50	0.00
5,109.63	0.00	0.00	4,871.00	706.92	1,121.42	1,325.64	2.50	-2.50	0.00
Start 2452.00 hold at 5109.63 MD - Northhorn - PP 1-27D-12-16 Target									
5,200.00	0.00	0.00	4,961.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,300.00	0.00	0.00	5,061.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,400.00	0.00	0.00	5,161.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,500.00	0.00	0.00	5,261.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,600.00	0.00	0.00	5,361.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,700.00	0.00	0.00	5,461.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,800.00	0.00	0.00	5,561.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
5,900.00	0.00	0.00	5,661.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,000.00	0.00	0.00	5,761.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,100.00	0.00	0.00	5,861.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,200.00	0.00	0.00	5,961.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,300.00	0.00	0.00	6,061.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,400.00	0.00	0.00	6,161.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,500.00	0.00	0.00	6,261.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,600.00	0.00	0.00	6,361.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,694.63	0.00	0.00	6,456.00	706.92	1,121.42	1,325.64	0.00	0.00	0.00
Dark Canyon									
6,700.00	0.00	0.00	6,461.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,800.00	0.00	0.00	6,561.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,900.00	0.00	0.00	6,661.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
6,911.63	0.00	0.00	6,673.00	706.92	1,121.42	1,325.64	0.00	0.00	0.00
Price River									
7,000.00	0.00	0.00	6,761.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,100.00	0.00	0.00	6,861.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,200.00	0.00	0.00	6,961.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,300.00	0.00	0.00	7,061.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,400.00	0.00	0.00	7,161.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,500.00	0.00	0.00	7,261.37	706.92	1,121.42	1,325.64	0.00	0.00	0.00
7,561.63	0.00	0.00	7,323.00	706.92	1,121.42	1,325.64	0.00	0.00	0.00
TD at 7561.63									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP 1-27D-12-16 Target - plan hits target center - Circle (radius 25.00)	0.00	0.00	4,871.00	706.92	1,121.42	519,320.44	2,392,890.22	39° 45' 2.616 N	110° 6' 9.160 W

CONFIDENTIAL

RECEIVED: August 25, 2014

Planning Report

Scientific Drilling

Database:	Grand Junction District	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Company:	EnerVest Operating LLC	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Project:	Carbon County, UT NAD27	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**North Reference:**	True
Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,984.32	2,866.00	Wasatch		0.00	
5,109.63	4,871.00	Northhorn		0.00	
6,694.63	6,456.00	Dark Canyon		0.00	
6,911.63	6,673.00	Price River		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
100.00	100.00	0.00	0.00	Start Build 2.00
200.00	199.98	1.12	1.34	Start DLS 2.00 TFO 0.00
250.00	249.93	2.52	3.01	Start 850.00 hold at 250.00 MD
1,100.00	1,098.77	31.12	37.09	Start DLS 3.00 TFO 9.34
1,767.77	1,746.15	111.96	162.60	Start 2421.93 hold at 1767.77 MD
4,189.70	3,975.57	610.87	966.64	Start Drop -2.50
5,109.63	4,871.00	706.92	1,121.42	Start 2452.00 hold at 5109.63 MD
7,561.63	7,323.00	706.92	1,121.42	TD at 7561.63

CONFIDENTIAL

RECEIVED: August 25, 2014

API Well Number: 43007503810000

EnerVest Operating LLC

Carbon County, UT NAD27
Peters Point NE 27 Pad
Peters Point UF 1-27D-12-16

OH
Plan #3

CONFIDENTIAL

Anticollision Report

20 August, 2014

Scientific Drilling

www.scientificdrilling.com

RECEIVED: August 25, 2014

API Well Number: 43007503810000

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Reference Plan #3

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00ft	**Error Model:**	Systematic Ellipse
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2,210.21 ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/20/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	7,561.63	Plan #3 (OH)	MWD SDI	MWD - Standard ver 1.0.1

CONFIDENTIAL

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Peters Point NE 27 Pad						
Peters Point UF 2-27D-12-16 - OH - Plan #3	100.00	100.00	16.59	16.42	97.097	CC, ES
Peters Point UF 2-27D-12-16 - OH - Plan #3	600.00	597.63	38.93	36.43	15.541	SF
Peters Point UF 3-27D-12-16 - OH - Plan #3	100.00	100.00	48.37	48.20	283.173	CC, ES
Peters Point UF 3-27D-12-16 - OH - Plan #3	1,100.00	1,095.17	115.02	110.23	24.002	SF
Peters Point UF 4-27D-12-16 - OH - Plan #3	100.00	100.00	40.62	40.45	237.772	CC, ES
Peters Point UF 4-27D-12-16 - OH - Plan #3	1,100.00	1,076.14	206.21	201.42	43.058	SF
Peters Point UF 5-27D-12-16 - OH - Plan #2	100.00	100.00	31.79	31.62	186.101	CC, ES
Peters Point UF 5-27D-12-16 - OH - Plan #2	1,100.00	1,089.40	147.06	142.36	31.334	SF
Peters Point UF 6-27D-12-16 - OH - Plan #2	100.00	100.00	24.19	24.02	141.585	CC, ES
Peters Point UF 6-27D-12-16 - OH - Plan #2	1,100.00	1,094.80	105.71	101.04	22.641	SF
Peters Point UF 7-27D-12-16 - OH - Plan #2	100.00	100.00	7.61	7.44	44.546	CC, ES
Peters Point UF 7-27D-12-16 - OH - Plan #2	200.00	199.85	9.24	8.64	15.343	SF
Peters Point UF 8-27D-12-16 - OH - Plan #2	100.00	100.00	7.61	7.44	44.546	CC, ES
Peters Point UF 8-27D-12-16 - OH - Plan #2	300.00	299.30	13.62	12.56	12.939	SF

Offset Design Peters Point NE 27 Pad - Peters Point UF 2-27D-12-16 - OH - Plan #3

Survey Program: 0-MWD SDI

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-63.95	7.28	-14.90	16.59				
100.00	100.00	100.00	100.00	0.09	0.09	-63.95	7.28	-14.90	16.59	16.42	0.17	97.097	CC, ES
200.00	199.98	199.68	199.66	0.31	0.31	-114.25	9.01	-15.05	18.19	17.57	0.62	29.419	
300.00	299.86	299.41	299.27	0.54	0.54	-114.86	13.77	-15.47	22.61	21.53	1.08	20.925	
400.00	399.73	399.29	399.02	0.78	0.78	-115.32	18.98	-15.92	27.44	25.89	1.55	17.693	
500.00	499.59	499.17	498.76	1.02	1.02	-115.64	24.19	-16.38	32.27	30.24	2.02	15.941	
600.00	599.45	597.63	596.91	1.26	1.27	-113.27	31.64	-17.72	38.93	36.43	2.51	15.541	SF
700.00	699.31	695.22	693.70	1.50	1.56	-107.80	43.68	-20.84	49.63	46.63	3.00	16.530	
800.00	799.18	793.36	790.48	1.75	1.89	-102.33	59.35	-25.35	63.92	60.41	3.51	18.213	
900.00	899.04	892.15	887.85	1.99	2.24	-98.76	75.36	-29.98	78.80	74.79	4.01	19.631	
1,000.00	998.90	990.94	985.23	2.23	2.59	-96.33	91.37	-34.61	93.89	89.37	4.52	20.783	
1,100.00	1,098.77	1,089.73	1,082.60	2.47	2.96	-94.57	107.38	-39.24	109.10	104.08	5.02	21.730	
1,200.00	1,198.45	1,188.45	1,179.91	2.73	3.32	-98.62	123.38	-43.87	124.97	119.42	5.54	22.542	
1,300.00	1,297.59	1,286.86	1,276.90	3.03	3.69	-101.64	139.32	-48.48	142.10	135.98	6.12	23.211	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 2-27D-12-16 - OH - Plan #3

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,400.00	1,395.91	1,384.68	1,373.32	3.38	4.05	-105.22	155.17	-53.07	160.89	154.13	6.76	23.799	
1,500.00	1,493.15	1,481.64	1,468.90	3.79	4.42	-109.27	170.89	-57.61	181.94	174.48	7.46	24.397	
1,600.00	1,589.04	1,577.49	1,563.37	4.27	4.78	-113.53	186.42	-62.11	205.90	197.69	8.21	25.093	
1,700.00	1,683.31	1,671.95	1,656.48	4.83	5.13	-117.77	201.72	-66.53	233.36	224.37	8.99	25.958	
1,800.00	1,775.82	1,764.87	1,748.06	5.48	5.48	-121.98	216.78	-70.89	264.65	254.83	9.81	26.974	
1,900.00	1,867.87	1,857.39	1,839.25	6.18	5.83	-125.86	231.77	-75.23	297.92	287.26	10.66	27.947	
2,000.00	1,959.92	1,949.90	1,930.44	6.89	6.18	-128.98	246.76	-79.56	332.20	320.70	11.50	28.895	
2,100.00	2,051.97	2,042.41	2,021.63	7.62	6.53	-131.52	261.76	-83.90	367.20	354.88	12.32	29.799	
2,200.00	2,144.02	2,134.93	2,112.82	8.36	6.88	-133.62	276.75	-88.23	402.75	389.61	13.14	30.650	
2,300.00	2,236.08	2,227.44	2,204.01	9.11	7.23	-135.39	291.74	-92.57	438.69	424.74	13.95	31.444	
2,400.00	2,328.13	2,319.96	2,295.20	9.87	7.59	-136.89	306.73	-96.91	474.95	460.19	14.76	32.183	
2,500.00	2,420.18	2,412.47	2,386.39	10.62	7.94	-138.18	321.72	-101.24	511.46	495.90	15.56	32.870	
2,600.00	2,512.23	2,504.99	2,477.57	11.39	8.29	-139.30	336.71	-105.58	548.16	531.80	16.36	33.507	
2,700.00	2,604.28	2,597.50	2,568.76	12.15	8.64	-140.28	351.70	-109.92	585.03	567.87	17.16	34.098	
2,800.00	2,696.33	2,690.02	2,659.95	12.92	8.99	-141.15	366.70	-114.25	622.03	604.07	17.95	34.648	
2,900.00	2,788.39	2,782.53	2,751.14	13.69	9.34	-141.92	381.69	-118.59	659.13	640.39	18.75	35.160	
3,000.00	2,880.44	2,875.05	2,842.33	14.47	9.70	-142.60	396.68	-122.93	696.33	676.79	19.54	35.637	
3,100.00	2,972.49	2,967.56	2,933.52	15.24	10.05	-143.22	411.67	-127.26	733.61	713.28	20.33	36.082	
3,200.00	3,064.54	3,060.07	3,024.71	16.02	10.40	-143.78	426.66	-131.60	770.95	749.83	21.12	36.498	
3,300.00	3,156.59	3,152.59	3,115.90	16.79	10.75	-144.29	441.65	-135.94	808.35	786.44	21.91	36.888	
3,400.00	3,248.64	3,245.10	3,207.08	17.57	11.10	-144.75	456.64	-140.27	845.81	823.10	22.70	37.253	
3,500.00	3,340.70	3,337.62	3,298.27	18.35	11.46	-145.17	471.64	-144.61	883.30	859.81	23.49	37.597	
3,600.00	3,432.75	3,430.13	3,389.46	19.13	11.81	-145.56	486.63	-148.94	920.83	896.55	24.28	37.920	
3,700.00	3,524.80	3,522.65	3,480.65	19.91	12.16	-145.92	501.62	-153.28	958.40	933.33	25.07	38.224	
3,800.00	3,616.85	3,615.16	3,571.84	20.69	12.51	-146.25	516.61	-157.62	996.00	970.13	25.86	38.511	
3,900.00	3,708.90	3,707.68	3,663.03	21.47	12.87	-146.56	531.60	-161.95	1,033.62	1,006.97	26.65	38.783	
4,000.00	3,800.95	3,800.19	3,754.22	22.25	13.22	-146.85	546.59	-166.29	1,071.27	1,043.83	27.44	39.039	
4,100.00	3,893.01	3,892.71	3,845.41	23.03	13.57	-147.11	561.58	-170.63	1,108.94	1,080.71	28.23	39.283	
4,200.00	3,985.07	3,985.23	3,936.60	23.81	13.92	-147.42	576.58	-174.96	1,146.61	1,117.58	29.03	39.503	
4,300.00	4,078.11	4,078.61	4,028.64	24.40	14.28	-148.09	591.71	-179.34	1,182.24	1,152.40	29.84	39.622	
4,400.00	4,172.66	4,173.28	4,121.96	24.93	14.64	-148.57	607.05	-183.78	1,214.39	1,183.76	30.63	39.647	
4,500.00	4,268.54	4,269.08	4,216.39	25.41	15.01	-148.88	622.57	-188.27	1,243.00	1,211.60	31.40	39.591	
4,600.00	4,365.56	4,365.82	4,311.74	25.82	15.38	-149.04	638.25	-192.80	1,268.02	1,235.89	32.13	39.465	
4,700.00	4,463.55	4,463.31	4,407.84	26.17	15.75	-149.04	654.05	-197.37	1,289.41	1,256.58	32.83	39.276	
4,800.00	4,562.31	4,565.49	4,508.58	26.46	16.12	-148.90	670.45	-202.12	1,307.15	1,273.65	33.49	39.026	
4,900.00	4,661.66	4,682.08	4,624.14	26.69	16.44	-148.72	685.19	-206.38	1,320.30	1,286.26	34.05	38.781	
5,000.00	4,761.41	4,799.96	4,741.63	26.86	16.68	-148.61	694.34	-209.03	1,328.42	1,293.97	34.44	38.567	
5,100.00	4,861.37	4,918.54	4,860.13	26.97	16.86	-148.58	697.68	-209.99	1,331.43	1,296.74	34.69	38.378	
5,200.00	4,961.37	5,019.78	4,961.37	27.05	16.99	-90.40	697.69	-210.00	1,331.45	1,296.52	34.93	38.117	
5,300.00	5,061.37	5,119.78	5,061.37	27.13	17.12	-90.40	697.69	-210.00	1,331.45	1,296.26	35.19	37.836	
5,400.00	5,161.37	5,219.78	5,161.37	27.22	17.27	-90.40	697.69	-210.00	1,331.45	1,296.00	35.45	37.556	
5,500.00	5,261.37	5,319.78	5,261.37	27.31	17.41	-90.40	697.69	-210.00	1,331.45	1,295.73	35.72	37.276	
5,600.00	5,361.37	5,419.78	5,361.37	27.40	17.55	-90.40	697.69	-210.00	1,331.45	1,295.46	35.99	36.996	
5,700.00	5,461.37	5,519.78	5,461.37	27.49	17.70	-90.40	697.69	-210.00	1,331.45	1,295.19	36.26	36.717	
5,800.00	5,561.37	5,619.78	5,561.37	27.58	17.84	-90.40	697.69	-210.00	1,331.45	1,294.91	36.54	36.439	
5,900.00	5,661.37	5,719.78	5,661.37	27.68	17.99	-90.40	697.69	-210.00	1,331.45	1,294.63	36.82	36.161	
6,000.00	5,761.37	5,819.78	5,761.37	27.78	18.14	-90.40	697.69	-210.00	1,331.45	1,294.35	37.10	35.885	
6,100.00	5,861.37	5,919.78	5,861.37	27.87	18.30	-90.40	697.69	-210.00	1,331.45	1,294.06	37.39	35.609	
6,200.00	5,961.37	6,019.78	5,961.37	27.97	18.45	-90.40	697.69	-210.00	1,331.45	1,293.77	37.68	35.335	
6,300.00	6,061.37	6,119.78	6,061.37	28.07	18.61	-90.40	697.69	-210.00	1,331.45	1,293.48	37.97	35.062	
6,400.00	6,161.37	6,219.78	6,161.37	28.18	18.76	-90.40	697.69	-210.00	1,331.45	1,293.18	38.27	34.791	
6,500.00	6,261.37	6,319.78	6,261.37	28.28	18.92	-90.40	697.69	-210.00	1,331.45	1,292.88	38.57	34.521	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 2-27D-12-16 - OH - Plan #3

Survey Program: 0-MWD SDI

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,600.00	6,361.37	6,419.78	6,361.37	28.38	19.08	-90.40	697.69	-210.00	1,331.45	1,292.58	38.87	34.253	
6,700.00	6,461.37	6,519.78	6,461.37	28.49	19.24	-90.40	697.69	-210.00	1,331.45	1,292.27	39.18	33.986	
6,800.00	6,561.37	6,619.78	6,561.37	28.60	19.40	-90.40	697.69	-210.00	1,331.45	1,291.97	39.48	33.722	
6,900.00	6,661.37	6,719.78	6,661.37	28.71	19.56	-90.40	697.69	-210.00	1,331.45	1,291.66	39.79	33.459	
7,000.00	6,761.37	6,819.78	6,761.37	28.82	19.73	-90.40	697.69	-210.00	1,331.45	1,291.34	40.11	33.198	
7,100.00	6,861.37	6,919.78	6,861.37	28.93	19.89	-90.40	697.69	-210.00	1,331.45	1,291.03	40.42	32.939	
7,200.00	6,961.37	7,019.78	6,961.37	29.04	20.06	-90.40	697.69	-210.00	1,331.45	1,290.71	40.74	32.682	
7,300.00	7,061.37	7,119.78	7,061.37	29.16	20.23	-90.40	697.69	-210.00	1,331.45	1,290.39	41.06	32.427	
7,400.00	7,161.37	7,219.78	7,161.37	29.27	20.40	-90.40	697.69	-210.00	1,331.45	1,290.07	41.38	32.174	
7,500.00	7,261.37	7,319.78	7,261.37	29.39	20.57	-90.40	697.69	-210.00	1,331.45	1,289.74	41.71	31.923	
7,561.63	7,323.00	7,381.40	7,323.00	29.46	20.67	-90.40	697.69	-210.00	1,331.45	1,289.54	41.91	31.769	

CONFIDENTIAL

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 3-27D-12-16 - OH - Plan #3

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-65.06	20.40	-43.86	48.37				
100.00	100.00	100.00	100.00	0.09	0.09	-65.06	20.40	-43.86	48.37	48.20	0.17	283.173	CC, ES
200.00	199.98	198.43	198.42	0.31	0.31	-115.97	21.69	-44.95	50.67	50.06	0.61	82.531	
300.00	299.86	297.36	297.23	0.54	0.54	-118.14	25.30	-47.98	57.10	56.03	1.07	53.360	
400.00	399.73	397.09	396.82	0.78	0.78	-120.05	29.30	-51.33	64.21	62.68	1.53	41.946	
500.00	499.59	496.82	496.41	1.02	1.02	-121.57	33.30	-54.69	71.39	69.39	1.99	35.789	
600.00	599.45	596.54	596.00	1.26	1.26	-122.82	37.30	-58.04	78.60	76.14	2.46	31.954	
700.00	699.31	696.27	695.59	1.50	1.50	-123.86	41.30	-61.40	85.85	82.92	2.93	29.343	
800.00	799.18	795.99	795.18	1.75	1.74	-124.74	45.29	-64.75	93.12	89.73	3.39	27.452	
900.00	899.04	895.72	894.77	1.99	1.99	-125.49	49.29	-68.11	100.41	96.55	3.86	26.021	
1,000.00	998.90	995.45	994.36	2.23	2.23	-126.13	53.29	-71.46	107.71	103.38	4.33	24.902	
1,100.00	1,098.77	1,095.17	1,093.95	2.47	2.47	-126.70	57.29	-74.82	115.02	110.23	4.79	24.002	SF
1,200.00	1,198.45	1,188.91	1,187.43	2.73	2.71	-132.24	61.77	-79.91	126.43	121.18	5.25	24.091	
1,300.00	1,297.59	1,280.33	1,278.19	3.03	2.97	-135.32	67.68	-89.00	146.45	140.73	5.72	25.623	
1,400.00	1,395.91	1,368.68	1,365.33	3.38	3.26	-137.74	74.83	-101.64	174.97	168.77	6.19	28.247	
1,500.00	1,493.15	1,453.09	1,447.89	3.79	3.58	-139.62	82.96	-117.24	211.72	205.03	6.68	31.676	
1,600.00	1,589.04	1,532.87	1,525.13	4.27	3.92	-140.99	91.80	-135.12	256.27	249.08	7.19	35.664	
1,700.00	1,683.31	1,607.49	1,596.56	4.83	4.28	-141.87	101.06	-154.56	308.09	300.39	7.70	40.000	
1,800.00	1,775.82	1,676.73	1,662.05	5.48	4.67	-142.68	110.52	-174.94	366.44	358.17	8.26	44.344	
1,900.00	1,867.87	1,742.21	1,723.20	6.18	5.08	-143.76	120.21	-196.25	428.36	419.47	8.89	48.199	
2,000.00	1,959.92	1,800.00	1,776.48	6.89	5.46	-144.41	129.35	-216.68	492.80	483.30	9.51	51.827	
2,100.00	2,051.97	1,863.86	1,834.53	7.62	5.94	-144.88	140.09	-241.01	559.47	549.30	10.17	55.017	
2,200.00	2,144.02	1,920.23	1,885.02	8.36	6.40	-145.14	150.11	-264.00	628.23	617.41	10.82	58.055	
2,300.00	2,236.08	1,973.80	1,932.29	9.11	6.86	-145.27	160.10	-287.13	698.90	687.42	11.48	60.879	
2,400.00	2,328.13	2,024.68	1,976.52	9.87	7.33	-145.33	170.00	-310.25	771.34	759.20	12.14	63.530	
2,500.00	2,420.18	2,084.44	2,027.80	10.62	7.91	-145.33	182.02	-338.48	845.14	832.30	12.84	65.806	
2,600.00	2,512.23	2,151.77	2,085.52	11.39	8.59	-145.32	195.59	-370.38	919.08	905.50	13.58	67.690	
2,700.00	2,604.28	2,219.10	2,143.23	12.15	9.27	-145.32	209.16	-402.29	993.02	978.70	14.32	69.358	
2,800.00	2,696.33	2,286.43	2,200.94	12.92	9.97	-145.32	222.73	-434.19	1,066.96	1,051.89	15.06	70.826	
2,900.00	2,788.39	2,353.75	2,258.66	13.69	10.67	-145.31	236.31	-466.10	1,140.90	1,125.08	15.82	72.127	
3,000.00	2,880.44	2,421.08	2,316.37	14.47	11.37	-145.31	249.88	-498.00	1,214.83	1,198.26	16.58	73.292	
3,100.00	2,972.49	2,488.41	2,374.09	15.24	12.08	-145.31	263.45	-529.91	1,288.77	1,271.43	17.34	74.334	
3,200.00	3,064.54	2,555.74	2,431.80	16.02	12.80	-145.31	277.03	-561.81	1,362.71	1,344.61	18.10	75.270	
3,300.00	3,156.59	2,623.07	2,489.52	16.79	13.52	-145.31	290.60	-593.72	1,436.65	1,417.77	18.87	76.119	
3,400.00	3,248.64	2,690.40	2,547.23	17.57	14.24	-145.30	304.17	-625.62	1,510.59	1,490.94	19.65	76.889	
3,500.00	3,340.70	2,757.73	2,604.95	18.35	14.96	-145.30	317.74	-657.53	1,584.52	1,564.10	20.42	77.589	
3,600.00	3,432.75	2,825.06	2,662.66	19.13	15.68	-145.30	331.32	-689.43	1,658.46	1,637.26	21.20	78.229	
3,700.00	3,524.80	2,892.38	2,720.38	19.91	16.41	-145.30	344.89	-721.34	1,732.40	1,710.42	21.98	78.817	
3,800.00	3,616.85	2,959.71	2,778.09	20.69	17.14	-145.30	358.46	-753.24	1,806.34	1,783.58	22.76	79.355	
3,900.00	3,708.90	3,027.04	2,835.81	21.47	17.86	-145.30	372.04	-785.15	1,880.28	1,856.73	23.55	79.853	
4,000.00	3,800.95	3,094.37	2,893.52	22.25	18.59	-145.30	385.61	-817.05	1,954.21	1,929.88	24.33	80.314	
4,100.00	3,893.01	3,161.70	2,951.24	23.03	19.33	-145.30	399.18	-848.96	2,028.15	2,003.03	25.12	80.739	
4,200.00	3,985.07	3,229.04	3,008.97	23.81	20.06	-145.46	412.76	-880.87	2,102.08	2,076.15	25.93	81.075	
4,300.00	4,078.11	3,297.94	3,068.03	24.40	20.81	-146.86	426.65	-913.52	2,174.53	2,147.66	26.87	80.925	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 4-27D-12-16 - OH - Plan #3

Survey Program: 0-MWD SDI

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-65.07	17.12	-36.83	40.62				
100.00	100.00	100.00	100.00	0.09	0.09	-65.07	17.12	-36.83	40.62	40.45	0.17	237.772	CC, ES
200.00	199.98	197.93	197.89	0.31	0.30	-118.43	17.12	-39.34	43.76	43.15	0.61	71.913	
300.00	299.86	294.90	294.56	0.54	0.54	-125.72	17.12	-46.77	53.63	52.57	1.06	50.463	
400.00	399.73	390.44	389.32	0.78	0.84	-131.61	17.12	-58.87	69.35	67.83	1.52	45.537	
500.00	499.59	488.10	485.78	1.02	1.18	-135.57	17.12	-74.13	88.46	86.48	1.99	44.538	
600.00	599.45	586.11	582.58	1.26	1.53	-138.13	17.12	-89.46	107.86	105.42	2.45	44.050	
700.00	699.31	684.11	679.38	1.50	1.89	-139.90	17.12	-104.79	127.41	124.50	2.91	43.724	
800.00	799.18	782.12	776.18	1.75	2.25	-141.21	17.12	-120.12	147.04	143.66	3.38	43.494	
900.00	899.04	880.13	872.98	1.99	2.61	-142.20	17.12	-135.45	166.73	162.88	3.85	43.316	
1,000.00	998.90	978.13	969.78	2.23	2.97	-142.99	17.12	-150.79	186.46	182.14	4.32	43.174	
1,100.00	1,098.77	1,076.14	1,066.58	2.47	3.34	-143.62	17.12	-166.12	206.21	201.42	4.79	43.058	SF
1,200.00	1,198.45	1,165.11	1,154.25	2.73	3.69	-148.59	17.49	-181.26	229.64	224.41	5.23	43.931	
1,300.00	1,297.59	1,248.07	1,235.20	3.03	4.07	-150.29	19.03	-199.32	262.08	256.42	5.66	46.316	
1,400.00	1,395.91	1,326.63	1,310.93	3.38	4.49	-151.04	21.59	-220.02	303.15	297.07	6.09	49.806	
1,500.00	1,493.15	1,400.00	1,380.69	3.79	4.92	-151.28	24.94	-242.47	352.27	345.76	6.51	54.122	
1,600.00	1,589.04	1,468.05	1,444.44	4.27	5.39	-151.19	28.87	-265.95	408.75	401.81	6.93	58.954	
1,700.00	1,683.31	1,530.18	1,501.74	4.83	5.85	-150.82	33.14	-289.58	471.90	464.54	7.36	64.100	
1,800.00	1,775.82	1,586.56	1,552.92	5.48	6.30	-150.58	37.59	-312.80	540.87	533.04	7.83	69.051	
1,900.00	1,867.87	1,639.16	1,599.90	6.18	6.77	-150.96	42.21	-335.97	612.77	604.39	8.38	73.139	
2,000.00	1,959.92	1,700.00	1,653.28	6.89	7.33	-151.21	48.12	-364.56	686.74	677.79	8.96	76.649	
2,100.00	2,051.97	1,735.43	1,683.86	7.62	7.70	-151.28	51.85	-382.07	762.24	752.75	9.49	80.304	
2,200.00	2,144.02	1,779.46	1,721.30	8.36	8.16	-151.31	56.75	-404.70	839.48	829.42	10.06	83.479	
2,300.00	2,236.08	1,820.97	1,756.03	9.11	8.62	-151.28	61.66	-426.91	918.20	907.57	10.62	86.426	
2,400.00	2,328.13	1,860.13	1,788.24	9.87	9.08	-151.23	66.54	-448.62	998.27	987.08	11.19	89.175	
2,500.00	2,420.18	1,900.00	1,820.49	10.62	9.54	-151.13	71.76	-471.48	1,079.60	1,067.83	11.77	91.705	
2,600.00	2,512.23	1,931.97	1,845.93	11.39	9.96	-151.04	76.12	-490.34	1,162.05	1,149.72	12.34	94.196	
2,700.00	2,604.28	1,964.94	1,871.78	12.15	10.38	-150.93	80.77	-510.28	1,245.57	1,232.66	12.91	96.497	
2,800.00	2,696.33	2,000.00	1,898.79	12.92	10.84	-150.80	85.90	-532.03	1,330.06	1,316.57	13.49	98.600	
2,900.00	2,788.39	2,025.65	1,918.25	13.69	11.20	-150.69	89.77	-548.28	1,415.42	1,401.37	14.05	100.754	
3,000.00	2,880.44	2,053.61	1,939.16	14.47	11.60	-150.57	94.10	-566.32	1,501.62	1,487.00	14.62	102.727	
3,100.00	2,972.49	2,100.00	1,973.16	15.24	12.26	-150.34	101.54	-597.00	1,588.81	1,573.56	15.25	104.174	
3,200.00	3,064.54	2,100.00	1,973.16	16.02	12.26	-150.34	101.54	-597.00	1,676.26	1,660.53	15.73	106.551	
3,300.00	3,156.59	2,129.16	1,994.06	16.79	12.71	-150.20	106.37	-616.75	1,764.56	1,748.24	16.32	108.143	
3,400.00	3,248.64	2,151.87	2,010.09	17.57	13.07	-150.08	110.21	-632.38	1,853.48	1,836.60	16.88	109.795	
3,500.00	3,340.70	2,173.48	2,025.13	18.35	13.40	-149.97	113.93	-647.43	1,942.97	1,925.53	17.44	111.386	
3,600.00	3,432.75	2,200.00	2,043.31	19.13	13.81	-149.82	118.59	-666.17	2,033.00	2,014.98	18.03	112.787	
3,700.00	3,524.80	2,200.00	2,043.31	19.91	13.81	-149.82	118.59	-666.17	2,123.58	2,105.07	18.51	114.703	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 5-27D-12-16 - OH - Plan #2

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-65.64	13.11	-28.96	31.79				
100.00	100.00	100.00	100.00	0.09	0.09	-65.64	13.11	-28.96	31.79	31.62	0.17	186.101	CC, ES
200.00	199.98	198.84	198.80	0.31	0.30	-121.69	11.83	-31.17	34.25	33.65	0.61	56.509	
300.00	299.86	297.13	296.79	0.54	0.54	-134.74	8.01	-37.81	43.10	42.03	1.07	40.379	
400.00	399.73	396.17	395.44	0.78	0.81	-143.91	3.69	-45.28	54.61	53.09	1.52	35.859	
500.00	499.59	495.20	494.10	1.02	1.08	-149.81	-0.63	-52.76	67.02	65.04	1.98	33.923	
600.00	599.45	594.24	592.76	1.26	1.36	-153.84	-4.94	-60.23	79.91	77.48	2.43	32.916	
700.00	699.31	693.27	691.41	1.50	1.64	-156.74	-9.26	-67.71	93.08	90.20	2.88	32.321	
800.00	799.18	792.30	790.07	1.75	1.91	-158.92	-13.57	-75.18	106.43	103.10	3.33	31.937	
900.00	899.04	891.34	888.73	1.99	2.19	-160.62	-17.89	-82.65	119.90	116.11	3.79	31.671	
1,000.00	998.90	990.37	987.38	2.23	2.47	-161.97	-22.20	-90.13	133.45	129.21	4.24	31.479	
1,100.00	1,098.77	1,089.40	1,086.04	2.47	2.75	-163.07	-26.52	-97.60	147.06	142.36	4.69	31.334	SF
1,200.00	1,198.45	1,180.09	1,176.19	2.73	3.02	-168.49	-30.95	-106.34	165.40	160.28	5.12	32.335	
1,300.00	1,297.59	1,266.58	1,261.54	3.03	3.34	-170.49	-36.28	-119.14	193.95	188.42	5.52	35.106	
1,400.00	1,395.91	1,348.50	1,341.62	3.38	3.68	-171.44	-42.33	-135.29	232.17	226.25	5.92	39.238	
1,500.00	1,493.15	1,424.92	1,415.47	3.79	4.05	-171.90	-48.84	-153.84	279.39	273.11	6.29	44.435	
1,600.00	1,589.04	1,500.00	1,487.04	4.27	4.46	-172.08	-56.02	-175.30	334.89	328.25	6.65	50.394	
1,700.00	1,683.31	1,558.95	1,542.48	4.83	4.84	-172.07	-62.21	-194.37	397.73	390.77	6.96	57.144	
1,800.00	1,775.82	1,616.21	1,595.60	5.48	5.22	-172.01	-68.66	-214.75	467.04	459.73	7.31	63.926	
1,900.00	1,867.87	1,669.16	1,644.02	6.18	5.62	-172.00	-75.02	-235.18	539.51	531.77	7.74	69.732	
2,000.00	1,959.92	1,718.69	1,688.68	6.89	6.02	-171.95	-81.30	-255.67	614.07	605.90	8.17	75.174	
2,100.00	2,051.97	1,765.05	1,729.87	7.62	6.42	-171.88	-87.45	-276.02	690.51	681.91	8.60	80.284	
2,200.00	2,144.02	1,800.00	1,760.52	8.36	6.73	-171.82	-92.28	-292.11	768.72	759.71	9.01	85.300	
2,300.00	2,236.08	1,849.14	1,802.98	9.11	7.21	-171.71	-99.31	-315.81	848.35	838.89	9.46	89.661	
2,400.00	2,328.13	1,900.00	1,846.14	9.87	7.72	-171.58	-106.90	-341.63	929.59	919.67	9.92	93.740	
2,500.00	2,420.18	1,923.10	1,865.46	10.62	7.98	-171.52	-110.45	-353.78	1,011.83	1,001.52	10.32	98.091	
2,600.00	2,512.23	1,956.76	1,893.29	11.39	8.35	-171.42	-115.73	-371.96	1,095.38	1,084.64	10.74	101.997	
2,700.00	2,604.28	2,000.00	1,928.46	12.15	8.84	-171.30	-122.70	-396.13	1,180.09	1,168.90	11.19	105.503	
2,800.00	2,696.33	2,000.00	1,928.46	12.92	8.84	-171.30	-122.70	-396.13	1,265.80	1,254.26	11.54	109.699	
2,900.00	2,788.39	2,046.34	1,965.40	13.69	9.41	-171.16	-130.41	-423.03	1,352.04	1,340.04	12.00	112.695	
3,000.00	2,880.44	2,072.87	1,986.19	14.47	9.74	-171.08	-134.93	-438.89	1,439.32	1,426.91	12.41	115.960	
3,100.00	2,972.49	2,100.00	2,007.16	15.24	10.08	-171.00	-139.63	-455.43	1,527.36	1,514.53	12.83	119.054	
3,200.00	3,064.54	2,100.00	2,007.16	16.02	10.08	-171.00	-139.63	-455.43	1,616.36	1,603.17	13.19	122.556	
3,300.00	3,156.59	2,144.10	2,040.65	16.79	10.69	-170.86	-147.43	-483.05	1,705.42	1,691.78	13.65	124.978	
3,400.00	3,248.64	2,165.39	2,056.53	17.57	10.98	-170.79	-151.27	-496.70	1,795.36	1,781.30	14.05	127.754	
3,500.00	3,340.70	2,200.00	2,081.95	18.35	11.45	-170.68	-157.61	-519.30	1,885.95	1,871.46	14.49	130.162	
3,600.00	3,432.75	2,200.00	2,081.95	19.13	11.45	-170.68	-157.61	-519.30	1,976.82	1,961.96	14.85	133.093	
3,700.00	3,524.80	2,200.00	2,081.95	19.91	11.45	-170.68	-157.61	-519.30	2,068.53	2,053.31	15.22	135.933	
3,800.00	3,616.85	2,240.39	2,110.99	20.69	12.05	-170.56	-165.16	-546.35	2,160.11	2,144.44	15.67	137.867	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 6-27D-12-16 - OH - Plan #2

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-65.06	10.20	-21.93	24.19				
100.00	100.00	100.00	100.00	0.09	0.09	-65.06	10.20	-21.93	24.19	24.02	0.17	141.585	CC, ES
200.00	199.98	199.73	199.71	0.31	0.29	-122.46	8.78	-22.93	25.44	24.84	0.60	42.264	
300.00	299.86	299.11	298.97	0.54	0.52	-138.65	4.88	-25.66	30.69	29.64	1.05	29.172	
400.00	399.73	398.57	398.30	0.78	0.76	-150.38	0.61	-28.64	38.33	36.82	1.51	25.460	
500.00	499.59	498.03	497.62	1.02	1.00	-158.01	-3.65	-31.63	47.02	45.06	1.96	24.027	
600.00	599.45	597.49	596.95	1.26	1.24	-163.21	-7.92	-34.61	56.28	53.88	2.41	23.371	
700.00	699.31	696.95	696.27	1.50	1.49	-166.92	-12.18	-37.60	65.87	63.01	2.86	23.036	
800.00	799.18	796.41	795.60	1.75	1.73	-169.68	-16.44	-40.59	75.67	72.36	3.31	22.851	
900.00	899.04	895.87	894.92	1.99	1.98	-171.80	-20.71	-43.57	85.60	81.83	3.76	22.744	
1,000.00	998.90	995.34	994.25	2.23	2.23	-173.48	-24.97	-46.56	95.62	91.40	4.22	22.680	
1,100.00	1,098.77	1,094.80	1,093.57	2.47	2.47	-174.84	-29.24	-49.54	105.71	101.04	4.67	22.641	SF
1,200.00	1,198.45	1,188.51	1,187.04	2.73	2.72	179.70	-34.09	-54.23	120.56	115.47	5.10	23.659	
1,300.00	1,297.59	1,279.26	1,277.14	3.03	2.98	178.06	-40.56	-62.74	145.17	139.66	5.51	26.350	
1,400.00	1,395.91	1,366.08	1,362.79	3.38	3.27	177.61	-48.37	-74.54	179.11	173.21	5.90	30.334	
1,500.00	1,493.15	1,448.00	1,442.95	3.79	3.58	177.61	-57.18	-88.93	221.89	215.61	6.28	35.341	
1,600.00	1,589.04	1,524.26	1,516.86	4.27	3.91	177.79	-66.62	-105.13	272.89	266.26	6.63	41.172	
1,700.00	1,683.31	1,600.00	1,589.47	4.83	4.27	178.05	-77.17	-123.89	331.49	324.52	6.96	47.600	
1,800.00	1,775.82	1,658.14	1,644.60	5.48	4.59	178.31	-86.05	-140.07	396.61	389.31	7.30	54.335	
1,900.00	1,867.87	1,717.70	1,700.48	6.18	4.95	178.73	-95.84	-158.24	465.07	457.34	7.73	60.180	
2,000.00	1,959.92	1,773.89	1,752.57	6.89	5.32	179.08	-105.70	-176.83	535.70	527.54	8.16	65.665	
2,100.00	2,051.97	1,826.89	1,801.12	7.62	5.69	179.38	-115.57	-195.65	608.32	599.73	8.59	70.838	
2,200.00	2,144.02	1,876.89	1,846.37	8.36	6.07	179.64	-125.37	-214.53	682.75	673.74	9.01	75.735	
2,300.00	2,236.08	1,924.07	1,888.55	9.11	6.45	179.87	-135.04	-233.33	758.85	749.41	9.44	80.378	
2,400.00	2,328.13	1,968.62	1,927.88	9.87	6.84	-179.93	-144.55	-251.96	836.48	826.62	9.86	84.793	
2,500.00	2,420.18	2,000.00	1,955.29	10.62	7.11	-179.80	-151.46	-265.59	915.61	905.35	10.26	89.223	
2,600.00	2,512.23	2,050.48	1,998.84	11.39	7.60	-179.59	-162.96	-288.37	995.84	985.14	10.71	93.025	
2,700.00	2,604.28	2,100.00	2,040.90	12.15	8.08	-179.40	-174.67	-311.74	1,077.46	1,066.31	11.14	96.695	
2,800.00	2,696.33	2,123.72	2,060.80	12.92	8.32	-179.31	-180.44	-323.29	1,159.95	1,148.42	11.53	100.577	
2,900.00	2,788.39	2,166.79	2,096.60	13.69	8.78	-179.16	-191.10	-344.72	1,243.47	1,231.51	11.96	103.941	
3,000.00	2,880.44	2,221.50	2,142.01	14.47	9.37	-178.99	-204.68	-372.04	1,327.15	1,314.73	12.42	106.873	
3,100.00	2,972.49	2,276.21	2,187.43	15.24	9.97	-178.83	-218.27	-399.37	1,410.83	1,397.96	12.87	109.585	
3,200.00	3,064.54	2,330.92	2,232.84	16.02	10.58	-178.70	-231.85	-426.69	1,494.51	1,481.18	13.33	112.089	
3,300.00	3,156.59	2,385.64	2,278.25	16.79	11.18	-178.58	-245.44	-454.01	1,578.20	1,564.41	13.79	114.413	
3,400.00	3,248.64	2,440.35	2,323.67	17.57	11.80	-178.47	-259.02	-481.33	1,661.89	1,647.63	14.26	116.555	
3,500.00	3,340.70	2,495.06	2,369.08	18.35	12.41	-178.37	-272.61	-508.66	1,745.58	1,730.85	14.72	118.561	
3,600.00	3,432.75	2,549.78	2,414.50	19.13	13.03	-178.28	-286.19	-535.98	1,829.27	1,814.08	15.19	120.409	
3,700.00	3,524.80	2,604.49	2,459.91	19.91	13.65	-178.20	-299.78	-563.30	1,912.96	1,897.30	15.66	122.151	
3,800.00	3,616.85	2,659.20	2,505.32	20.69	14.27	-178.13	-313.37	-590.62	1,996.65	1,980.52	16.13	123.762	
3,900.00	3,708.90	2,713.92	2,550.74	21.47	14.89	-178.06	-326.95	-617.95	2,080.35	2,063.74	16.61	125.282	
4,000.00	3,800.95	2,768.63	2,596.15	22.25	15.52	-177.99	-340.54	-645.27	2,164.04	2,146.96	17.08	126.700	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 7-27D-12-16 - OH - Plan #2

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-67.48	2.91	-7.03	7.61				
100.00	100.00	100.00	100.00	0.09	0.09	-67.48	2.91	-7.03	7.61	7.44	0.17	44.546	CC, ES
200.00	199.98	199.85	199.83	0.31	0.29	-138.19	1.41	-7.90	9.24	8.64	0.60	15.343	SF
300.00	299.86	299.28	299.15	0.54	0.52	-164.31	-2.72	-10.28	16.80	15.76	1.05	16.039	
400.00	399.73	398.75	398.48	0.78	0.76	-174.02	-7.23	-12.89	26.47	24.97	1.49	17.721	
500.00	499.59	498.22	497.81	1.02	1.00	-178.48	-11.74	-15.49	36.47	34.53	1.94	18.775	
600.00	599.45	597.69	597.15	1.26	1.24	178.99	-16.25	-18.09	46.61	44.21	2.39	19.469	
700.00	699.31	697.16	696.48	1.50	1.49	177.37	-20.75	-20.69	56.80	53.95	2.85	19.954	
800.00	799.18	796.63	795.81	1.75	1.73	176.24	-25.26	-23.30	67.02	63.72	3.30	20.312	
900.00	899.04	896.10	895.14	1.99	1.98	175.40	-29.77	-25.90	77.26	73.51	3.75	20.585	
1,000.00	998.90	995.56	994.47	2.23	2.23	174.77	-34.28	-28.50	87.52	83.31	4.21	20.801	
1,100.00	1,098.77	1,095.03	1,093.81	2.47	2.47	174.27	-38.79	-31.11	97.78	93.12	4.66	20.976	
1,200.00	1,198.45	1,189.97	1,188.48	2.73	2.72	168.78	-45.19	-33.85	112.34	107.24	5.10	22.039	
1,300.00	1,297.59	1,282.30	1,280.12	3.03	3.00	165.94	-55.88	-37.09	135.74	130.21	5.53	24.544	
1,400.00	1,395.91	1,371.19	1,367.75	3.38	3.30	163.77	-70.31	-40.72	167.72	161.75	5.96	28.131	
1,500.00	1,493.15	1,458.16	1,452.78	3.79	3.63	161.98	-88.13	-44.72	207.72	201.32	6.40	32.461	
1,600.00	1,589.04	1,547.31	1,539.74	4.27	4.00	160.83	-107.29	-48.94	252.98	246.14	6.85	36.939	
1,700.00	1,683.31	1,634.14	1,624.44	4.83	4.36	160.18	-125.95	-53.05	302.57	295.26	7.30	41.431	
1,800.00	1,775.82	1,718.55	1,706.78	5.48	4.73	160.07	-144.09	-57.04	356.12	348.32	7.80	45.659	
1,900.00	1,867.87	1,802.34	1,788.52	6.18	5.09	160.49	-162.09	-61.01	410.64	402.26	8.38	48.979	
2,000.00	1,959.92	1,886.14	1,870.26	6.89	5.46	160.81	-180.10	-64.97	465.18	456.20	8.98	51.791	
2,100.00	2,051.97	1,969.94	1,952.01	7.62	5.84	161.06	-198.11	-68.93	519.72	510.13	9.59	54.194	
2,200.00	2,144.02	2,053.74	2,033.75	8.36	6.21	161.26	-216.12	-72.90	574.26	564.06	10.21	56.267	
2,300.00	2,236.08	2,137.53	2,115.50	9.11	6.59	161.43	-234.13	-76.86	628.81	617.98	10.83	58.066	
2,400.00	2,328.13	2,221.33	2,197.24	9.87	6.97	161.57	-252.14	-80.83	683.37	671.91	11.46	59.641	
2,500.00	2,420.18	2,305.13	2,278.98	10.62	7.36	161.69	-270.15	-84.79	737.92	725.83	12.09	61.027	
2,600.00	2,512.23	2,388.93	2,360.73	11.39	7.74	161.80	-288.15	-88.76	792.48	779.75	12.73	62.255	
2,700.00	2,604.28	2,472.72	2,442.47	12.15	8.12	161.89	-306.16	-92.72	847.04	833.67	13.37	63.348	
2,800.00	2,696.33	2,556.52	2,524.21	12.92	8.51	161.97	-324.17	-96.68	901.60	887.59	14.02	64.327	
2,900.00	2,788.39	2,640.32	2,605.96	13.69	8.90	162.04	-342.18	-100.65	956.16	941.50	14.66	65.209	
3,000.00	2,880.44	2,724.12	2,687.70	14.47	9.29	162.10	-360.19	-104.61	1,010.73	995.41	15.31	66.006	
3,100.00	2,972.49	2,807.92	2,769.45	15.24	9.67	162.16	-378.20	-108.58	1,065.29	1,049.33	15.96	66.729	
3,200.00	3,064.54	2,891.71	2,851.19	16.02	10.06	162.21	-396.21	-112.54	1,119.86	1,103.24	16.62	67.388	
3,300.00	3,156.59	2,975.51	2,932.93	16.79	10.45	162.26	-414.21	-116.51	1,174.42	1,157.15	17.27	67.990	
3,400.00	3,248.64	3,059.31	3,014.68	17.57	10.84	162.30	-432.22	-120.47	1,228.99	1,211.06	17.93	68.543	
3,500.00	3,340.70	3,143.11	3,096.42	18.35	11.23	162.34	-450.23	-124.43	1,283.55	1,264.96	18.59	69.052	
3,600.00	3,432.75	3,226.90	3,178.16	19.13	11.63	162.37	-468.24	-128.40	1,338.12	1,318.87	19.25	69.521	
3,700.00	3,524.80	3,310.70	3,259.91	19.91	12.02	162.41	-486.25	-132.36	1,392.68	1,372.78	19.91	69.956	
3,800.00	3,616.85	3,394.50	3,341.65	20.69	12.41	162.44	-504.26	-136.33	1,447.25	1,426.68	20.57	70.359	
3,900.00	3,708.90	3,478.30	3,423.40	21.47	12.80	162.46	-522.27	-140.29	1,501.82	1,480.59	21.23	70.734	
4,000.00	3,800.95	3,562.10	3,505.14	22.25	13.19	162.49	-540.28	-144.25	1,556.39	1,534.49	21.90	71.083	
4,100.00	3,893.01	3,645.89	3,586.88	23.03	13.59	162.51	-558.28	-148.22	1,610.95	1,588.39	22.56	71.409	
4,200.00	3,985.07	3,729.70	3,668.64	23.81	13.98	162.59	-576.29	-152.18	1,665.50	1,642.26	23.24	71.665	
4,300.00	4,078.11	3,814.84	3,751.69	24.40	14.38	163.03	-594.59	-156.21	1,717.94	1,693.94	24.01	71.560	
4,400.00	4,172.66	3,902.08	3,836.79	24.93	14.79	163.38	-613.34	-160.34	1,766.79	1,742.05	24.74	71.408	
4,500.00	4,268.54	3,991.25	3,923.77	25.41	15.21	163.64	-632.50	-164.56	1,811.95	1,786.51	25.44	71.222	
4,600.00	4,365.56	4,082.18	4,012.48	25.82	15.63	163.82	-652.05	-168.86	1,853.34	1,827.24	26.10	71.015	
4,700.00	4,463.55	4,174.71	4,102.74	26.17	16.07	163.93	-671.93	-173.24	1,890.89	1,864.18	26.71	70.793	
4,800.00	4,562.31	4,268.66	4,194.38	26.46	16.51	163.98	-692.12	-177.68	1,924.54	1,897.27	27.27	70.564	
4,900.00	4,661.66	4,363.84	4,287.23	26.69	16.96	163.96	-712.57	-182.18	1,954.25	1,926.46	27.79	70.331	
5,000.00	4,761.41	4,731.89	4,651.06	26.86	17.90	163.53	-764.25	-193.56	1,973.77	1,945.02	28.75	68.642	
5,100.00	4,861.37	4,942.30	4,861.37	26.97	18.18	163.54	-768.86	-194.57	1,977.29	1,948.13	29.16	67.808	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 7-27D-12-16 - OH - Plan #2

Survey Program: 0-MWD SDI

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.00	4,961.37	5,042.30	4,961.37	27.05	18.28	-138.28	-768.86	-194.57	1,977.31	1,947.89	29.42	67.203	
5,300.00	5,061.37	5,142.30	5,061.37	27.13	18.38	-138.28	-768.86	-194.57	1,977.31	1,947.61	29.71	66.560	
5,400.00	5,161.37	5,242.30	5,161.37	27.22	18.48	-138.28	-768.86	-194.57	1,977.31	1,947.32	30.00	65.921	
5,500.00	5,261.37	5,342.30	5,261.37	27.31	18.59	-138.28	-768.86	-194.57	1,977.31	1,947.02	30.29	65.285	
5,600.00	5,361.37	5,442.30	5,361.37	27.40	18.69	-138.28	-768.86	-194.57	1,977.31	1,946.73	30.58	64.653	
5,700.00	5,461.37	5,542.30	5,461.37	27.49	18.80	-138.28	-768.86	-194.57	1,977.31	1,946.43	30.88	64.025	
5,800.00	5,561.37	5,642.30	5,561.37	27.58	18.92	-138.28	-768.86	-194.57	1,977.31	1,946.13	31.19	63.402	
5,900.00	5,661.37	5,742.30	5,661.37	27.68	19.03	-138.28	-768.86	-194.57	1,977.31	1,945.82	31.49	62.783	
6,000.00	5,761.37	5,842.30	5,761.37	27.78	19.15	-138.28	-768.86	-194.57	1,977.31	1,945.51	31.80	62.170	
6,100.00	5,861.37	5,942.30	5,861.37	27.87	19.26	-138.28	-768.86	-194.57	1,977.31	1,945.19	32.12	61.562	
6,200.00	5,961.37	6,042.30	5,961.37	27.97	19.38	-138.28	-768.86	-194.57	1,977.31	1,944.88	32.44	60.960	
6,300.00	6,061.37	6,142.30	6,061.37	28.07	19.50	-138.28	-768.86	-194.57	1,977.31	1,944.56	32.76	60.364	
6,400.00	6,161.37	6,242.30	6,161.37	28.18	19.63	-138.28	-768.86	-194.57	1,977.31	1,944.23	33.08	59.774	
6,500.00	6,261.37	6,342.30	6,261.37	28.28	19.75	-138.28	-768.86	-194.57	1,977.31	1,943.91	33.41	59.190	
6,600.00	6,361.37	6,442.30	6,361.37	28.38	19.88	-138.28	-768.86	-194.57	1,977.31	1,943.58	33.74	58.612	
6,700.00	6,461.37	6,542.30	6,461.37	28.49	20.01	-138.28	-768.86	-194.57	1,977.31	1,943.24	34.07	58.041	
6,800.00	6,561.37	6,642.30	6,561.37	28.60	20.14	-138.28	-768.86	-194.57	1,977.31	1,942.91	34.40	57.476	
6,900.00	6,661.37	6,742.30	6,661.37	28.71	20.27	-138.28	-768.86	-194.57	1,977.31	1,942.57	34.74	56.917	
7,000.00	6,761.37	6,842.30	6,761.37	28.82	20.40	-138.28	-768.86	-194.57	1,977.31	1,942.23	35.08	56.366	
7,100.00	6,861.37	6,942.30	6,861.37	28.93	20.54	-138.28	-768.86	-194.57	1,977.31	1,941.89	35.42	55.820	
7,200.00	6,961.37	7,042.30	6,961.37	29.04	20.68	-138.28	-768.86	-194.57	1,977.31	1,941.54	35.77	55.282	
7,300.00	7,061.37	7,142.30	7,061.37	29.16	20.81	-138.28	-768.86	-194.57	1,977.31	1,941.20	36.11	54.751	
7,400.00	7,161.37	7,242.30	7,161.37	29.27	20.95	-138.28	-768.86	-194.57	1,977.31	1,940.85	36.46	54.226	
7,465.86	7,227.23	7,308.16	7,227.23	29.35	21.05	-138.28	-768.86	-194.57	1,977.31	1,940.62	36.70	53.884	
7,500.00	7,261.37	7,339.93	7,259.00	29.39	21.09	-138.28	-768.86	-194.57	1,977.31	1,940.50	36.81	53.714	
7,561.63	7,323.00	7,339.93	7,259.00	29.46	21.09	-138.28	-768.86	-194.57	1,978.35	1,941.43	36.92	53.583	

CONFIDENTIAL

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 8-27D-12-16 - OH - Plan #2

Offset Site Error: 0.00 ft

Survey Program: 0-MWD SDI

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	112.52	-2.91	7.03	7.61				
100.00	100.00	100.00	100.00	0.09	0.09	112.52	-2.91	7.03	7.61	7.44	0.17	44.546	CC, ES
200.00	199.98	199.70	199.68	0.31	0.29	78.18	-4.24	8.14	8.67	8.07	0.60	14.419	
300.00	299.86	299.30	299.17	0.54	0.52	102.71	-7.90	11.21	13.62	12.56	1.05	12.939	SF
400.00	399.73	399.03	398.76	0.78	0.76	113.94	-11.90	14.57	20.26	18.75	1.51	13.387	
500.00	499.59	498.76	498.35	1.02	1.00	119.52	-15.89	17.92	27.30	25.32	1.98	13.791	
600.00	599.45	598.48	597.94	1.26	1.25	122.79	-19.89	21.28	34.49	32.04	2.45	14.091	
700.00	699.31	698.21	697.53	1.50	1.49	124.93	-23.89	24.63	41.75	38.83	2.92	14.314	
800.00	799.18	797.93	797.12	1.75	1.74	126.44	-27.89	27.99	49.05	45.66	3.39	14.484	
900.00	899.04	897.66	896.70	1.99	1.98	127.55	-31.89	31.34	56.37	52.52	3.86	14.618	
1,000.00	998.90	997.39	996.29	2.23	2.23	128.41	-35.89	34.70	63.71	59.39	4.33	14.726	
1,100.00	1,098.77	1,097.11	1,095.88	2.47	2.47	129.09	-39.88	38.05	71.07	66.27	4.80	14.814	
1,200.00	1,198.45	1,194.67	1,193.15	2.73	2.73	124.85	-44.99	43.35	80.97	75.69	5.28	15.334	
1,300.00	1,297.59	1,291.25	1,288.97	3.03	3.02	123.52	-52.52	52.80	96.07	90.26	5.81	16.537	
1,400.00	1,395.91	1,386.55	1,382.80	3.38	3.35	122.76	-62.35	66.20	116.27	109.87	6.40	18.175	
1,500.00	1,493.15	1,480.24	1,474.12	3.79	3.73	122.13	-74.31	83.30	141.43	134.37	7.06	20.034	
1,600.00	1,589.04	1,572.01	1,562.48	4.27	4.17	121.50	-88.21	103.77	171.40	163.59	7.81	21.941	
1,700.00	1,683.31	1,661.62	1,647.53	4.83	4.66	120.82	-103.84	127.27	206.00	197.33	8.67	23.761	
1,800.00	1,775.82	1,748.92	1,729.01	5.48	5.21	120.45	-120.99	153.45	244.92	235.27	9.65	25.375	
1,900.00	1,867.87	1,835.14	1,808.02	6.18	5.82	120.25	-139.73	182.42	286.29	275.55	10.74	26.668	
2,000.00	1,959.92	1,925.82	1,890.49	6.89	6.52	119.83	-160.16	214.12	328.40	316.50	11.90	27.591	
2,100.00	2,051.97	2,016.50	1,972.95	7.62	7.24	119.51	-180.59	245.82	370.52	357.42	13.11	28.271	
2,200.00	2,144.02	2,107.18	2,055.41	8.36	7.97	119.25	-201.02	277.52	412.66	398.32	14.34	28.784	
2,300.00	2,236.08	2,197.85	2,137.88	9.11	8.71	119.04	-221.45	309.21	454.79	439.21	15.59	29.180	
2,400.00	2,328.13	2,288.53	2,220.34	9.87	9.46	118.86	-241.88	340.91	496.93	480.08	16.85	29.491	
2,500.00	2,420.18	2,379.21	2,302.81	10.62	10.22	118.71	-262.31	372.61	539.08	520.95	18.13	29.740	
2,600.00	2,512.23	2,469.89	2,385.27	11.39	10.98	118.59	-282.74	404.31	581.22	561.81	19.41	29.942	
2,700.00	2,604.28	2,560.56	2,467.73	12.15	11.75	118.48	-303.17	436.01	623.37	602.67	20.70	30.109	
2,800.00	2,696.33	2,651.24	2,550.20	12.92	12.52	118.38	-323.60	467.70	665.52	643.52	22.00	30.247	
2,900.00	2,788.39	2,741.92	2,632.66	13.69	13.29	118.30	-344.02	499.40	707.67	684.37	23.31	30.363	
3,000.00	2,880.44	2,832.60	2,715.12	14.47	14.06	118.23	-364.45	531.10	749.83	725.21	24.62	30.462	
3,100.00	2,972.49	2,923.27	2,797.59	15.24	14.84	118.16	-384.88	562.80	791.98	766.05	25.93	30.546	
3,200.00	3,064.54	3,013.95	2,880.05	16.02	15.62	118.10	-405.31	594.50	834.14	806.89	27.24	30.618	
3,300.00	3,156.59	3,104.63	2,962.52	16.79	16.39	118.04	-425.74	626.19	876.29	847.73	28.56	30.681	
3,400.00	3,248.64	3,195.31	3,044.98	17.57	17.17	118.00	-446.17	657.89	918.45	888.57	29.88	30.736	
3,500.00	3,340.70	3,285.98	3,127.44	18.35	17.96	117.95	-466.60	689.59	960.60	929.40	31.20	30.784	
3,600.00	3,432.75	3,376.66	3,209.91	19.13	18.74	117.91	-487.03	721.29	1,002.76	970.23	32.53	30.827	
3,700.00	3,524.80	3,467.34	3,292.37	19.91	19.52	117.87	-507.46	752.99	1,044.92	1,011.06	33.86	30.864	
3,800.00	3,616.85	3,558.02	3,374.83	20.69	20.30	117.84	-527.89	784.68	1,087.07	1,051.89	35.18	30.898	
3,900.00	3,708.90	3,648.69	3,457.30	21.47	21.09	117.80	-548.32	816.38	1,129.23	1,092.72	36.51	30.928	
4,000.00	3,800.95	3,739.37	3,539.76	22.25	21.87	117.77	-568.75	848.08	1,171.39	1,133.55	37.84	30.955	
4,100.00	3,893.01	3,830.05	3,622.23	23.03	22.66	117.75	-589.18	879.78	1,213.55	1,174.38	39.17	30.979	
4,200.00	3,985.07	3,920.73	3,704.69	23.81	23.45	117.83	-609.61	911.48	1,255.70	1,215.18	40.52	30.991	
4,300.00	4,078.11	4,011.87	3,787.58	24.40	24.24	118.68	-630.14	943.34	1,296.73	1,254.86	41.87	30.970	
4,400.00	4,172.66	4,115.45	3,881.90	24.93	25.08	119.27	-653.33	979.32	1,335.75	1,292.54	43.21	30.912	
4,500.00	4,268.54	4,253.30	4,009.77	25.41	25.93	119.64	-681.20	1,022.56	1,370.62	1,326.10	44.52	30.787	
4,600.00	4,365.56	4,395.95	4,145.09	25.82	26.69	119.96	-705.61	1,060.43	1,400.30	1,354.61	45.69	30.646	
4,700.00	4,463.55	4,542.77	4,287.02	26.17	27.33	120.24	-725.92	1,091.94	1,424.57	1,377.87	46.69	30.509	
4,800.00	4,562.31	4,693.01	4,434.43	26.46	27.84	120.50	-741.56	1,116.21	1,443.20	1,395.68	47.52	30.369	
4,900.00	4,661.66	4,845.73	4,585.88	26.69	28.20	120.72	-752.06	1,132.50	1,456.03	1,407.88	48.15	30.240	
5,000.00	4,761.41	4,999.91	4,739.76	26.86	28.43	120.93	-757.10	1,140.32	1,462.95	1,414.36	48.59	30.107	
5,100.00	4,861.37	5,121.53	4,861.37	26.97	28.53	121.05	-757.54	1,141.01	1,464.58	1,415.76	48.83	29.996	

CONFIDENTIAL

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design Peters Point NE 27 Pad - Peters Point UF 8-27D-12-16 - OH - Plan #2

Survey Program: 0-MWD SDI

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.00	4,961.37	5,221.53	4,961.37	27.05	28.61	179.23	-757.54	1,141.01	1,464.59	1,415.59	49.00	29.890	
5,300.00	5,061.37	5,321.53	5,061.37	27.13	28.68	179.23	-757.54	1,141.01	1,464.59	1,415.41	49.18	29.779	
5,400.00	5,161.37	5,421.53	5,161.37	27.22	28.76	179.23	-757.54	1,141.01	1,464.59	1,415.22	49.37	29.666	
5,500.00	5,261.37	5,521.53	5,261.37	27.31	28.83	179.23	-757.54	1,141.01	1,464.59	1,415.04	49.56	29.553	
5,600.00	5,361.37	5,621.53	5,361.37	27.40	28.91	179.23	-757.54	1,141.01	1,464.59	1,414.84	49.75	29.439	
5,700.00	5,461.37	5,721.53	5,461.37	27.49	28.99	179.23	-757.54	1,141.01	1,464.59	1,414.65	49.95	29.323	
5,800.00	5,561.37	5,821.53	5,561.37	27.58	29.08	179.23	-757.54	1,141.01	1,464.59	1,414.45	50.15	29.206	
5,900.00	5,661.37	5,921.53	5,661.37	27.68	29.16	179.23	-757.54	1,141.01	1,464.59	1,414.24	50.35	29.089	
6,000.00	5,761.37	6,021.53	5,761.37	27.78	29.25	179.23	-757.54	1,141.01	1,464.59	1,414.04	50.55	28.971	
6,100.00	5,861.37	6,121.53	5,861.37	27.87	29.33	179.23	-757.54	1,141.01	1,464.59	1,413.83	50.76	28.851	
6,200.00	5,961.37	6,221.53	5,961.37	27.97	29.42	179.23	-757.54	1,141.01	1,464.59	1,413.62	50.98	28.731	
6,300.00	6,061.37	6,321.53	6,061.37	28.07	29.51	179.23	-757.54	1,141.01	1,464.59	1,413.40	51.19	28.611	
6,400.00	6,161.37	6,421.53	6,161.37	28.18	29.60	179.23	-757.54	1,141.01	1,464.59	1,413.19	51.41	28.489	
6,500.00	6,261.37	6,521.53	6,261.37	28.28	29.69	179.23	-757.54	1,141.01	1,464.59	1,412.96	51.63	28.367	
6,600.00	6,361.37	6,621.53	6,361.37	28.38	29.79	179.23	-757.54	1,141.01	1,464.59	1,412.74	51.85	28.245	
6,700.00	6,461.37	6,721.53	6,461.37	28.49	29.88	179.23	-757.54	1,141.01	1,464.59	1,412.51	52.08	28.122	
6,800.00	6,561.37	6,821.53	6,561.37	28.60	29.98	179.23	-757.54	1,141.01	1,464.59	1,412.28	52.31	27.998	
6,900.00	6,661.37	6,921.53	6,661.37	28.71	30.08	179.23	-757.54	1,141.01	1,464.59	1,412.05	52.54	27.874	
7,000.00	6,761.37	7,021.53	6,761.37	28.82	30.18	179.23	-757.54	1,141.01	1,464.59	1,411.82	52.78	27.750	
7,100.00	6,861.37	7,121.53	6,861.37	28.93	30.28	179.23	-757.54	1,141.01	1,464.59	1,411.58	53.02	27.625	
7,200.00	6,961.37	7,221.53	6,961.37	29.04	30.38	179.23	-757.54	1,141.01	1,464.59	1,411.34	53.26	27.500	
7,300.00	7,061.37	7,321.53	7,061.37	29.16	30.49	179.23	-757.54	1,141.01	1,464.59	1,411.09	53.50	27.375	
7,400.00	7,161.37	7,421.53	7,161.37	29.27	30.59	179.23	-757.54	1,141.01	1,464.59	1,410.85	53.75	27.250	
7,463.62	7,224.99	7,485.15	7,224.99	29.35	30.66	179.23	-757.54	1,141.01	1,464.59	1,410.69	53.91	27.170	
7,500.00	7,261.37	7,513.16	7,253.00	29.39	30.69	179.23	-757.54	1,141.01	1,464.62	1,410.63	53.99	27.130	
7,561.63	7,323.00	7,513.16	7,253.00	29.46	30.69	179.23	-757.54	1,141.01	1,466.27	1,412.20	54.07	27.120	

CONFIDENTIAL

RECEIVED: August 25, 2014

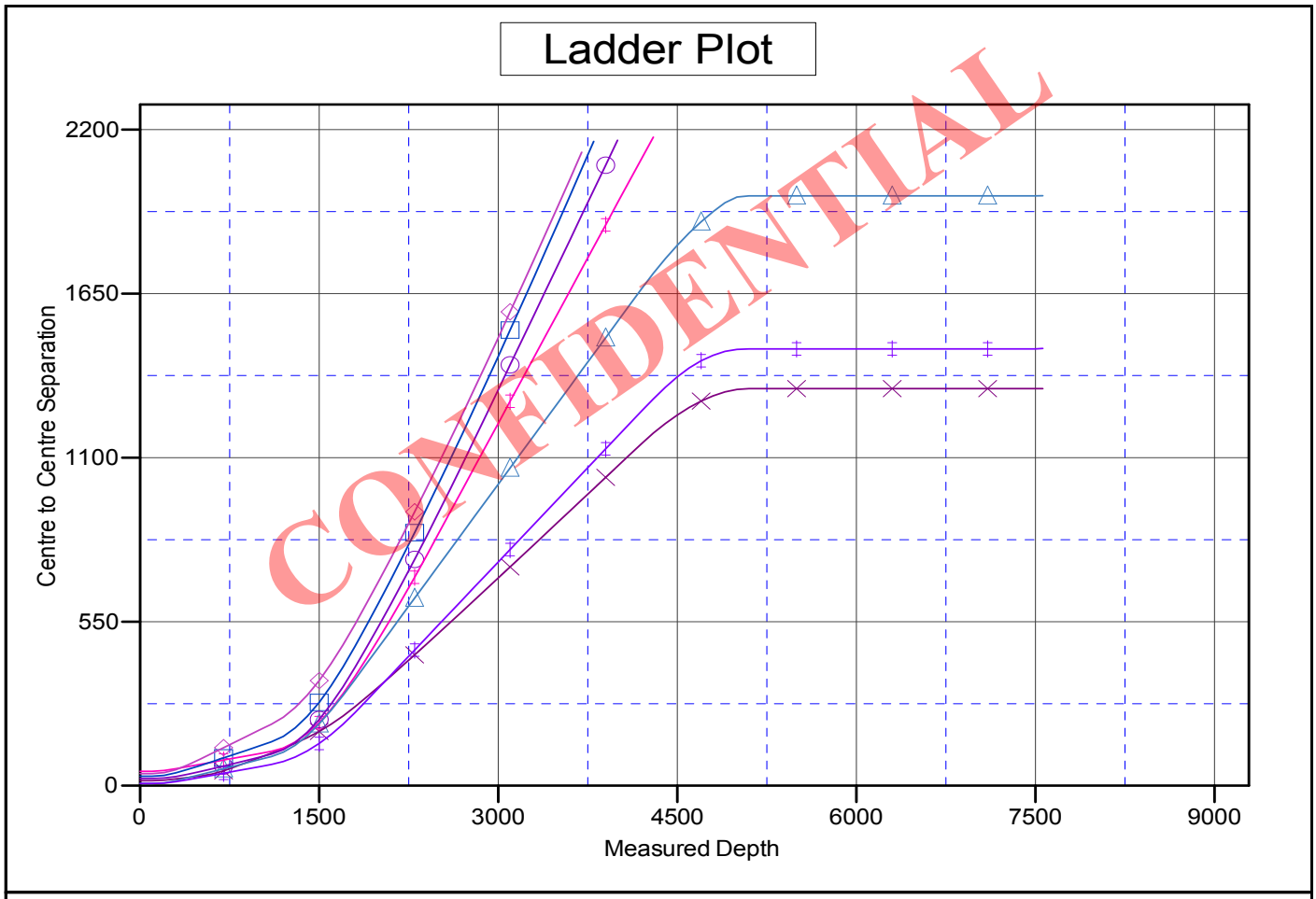
Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL 6772' & KB 24' @ 6796.00ft (H&P
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Peters Point UF 1-27D-12-16 - Slot B
Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
Grid Convergence at Surface is: 0.89°



LEGEND

- Peters Point UF 2-27D-12-16, OH, Plan #3 V0
- Peters Point UF 3-27D-12-16, OH, Plan #3 V0
- Peters Point UF 4-27D-12-16, OH, Plan #3 V0
- Peters Point UF 5-27D-12-16, OH, Plan #2 V0
- Peters Point UF 6-27D-12-16, OH, Plan #2 V0
- Peters Point UF 7-27D-12-16, OH, Plan #2 V0
- Peters Point UF 8-27D-12-16, OH, Plan #2 V0

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

RECEIVED: August 25, 2014

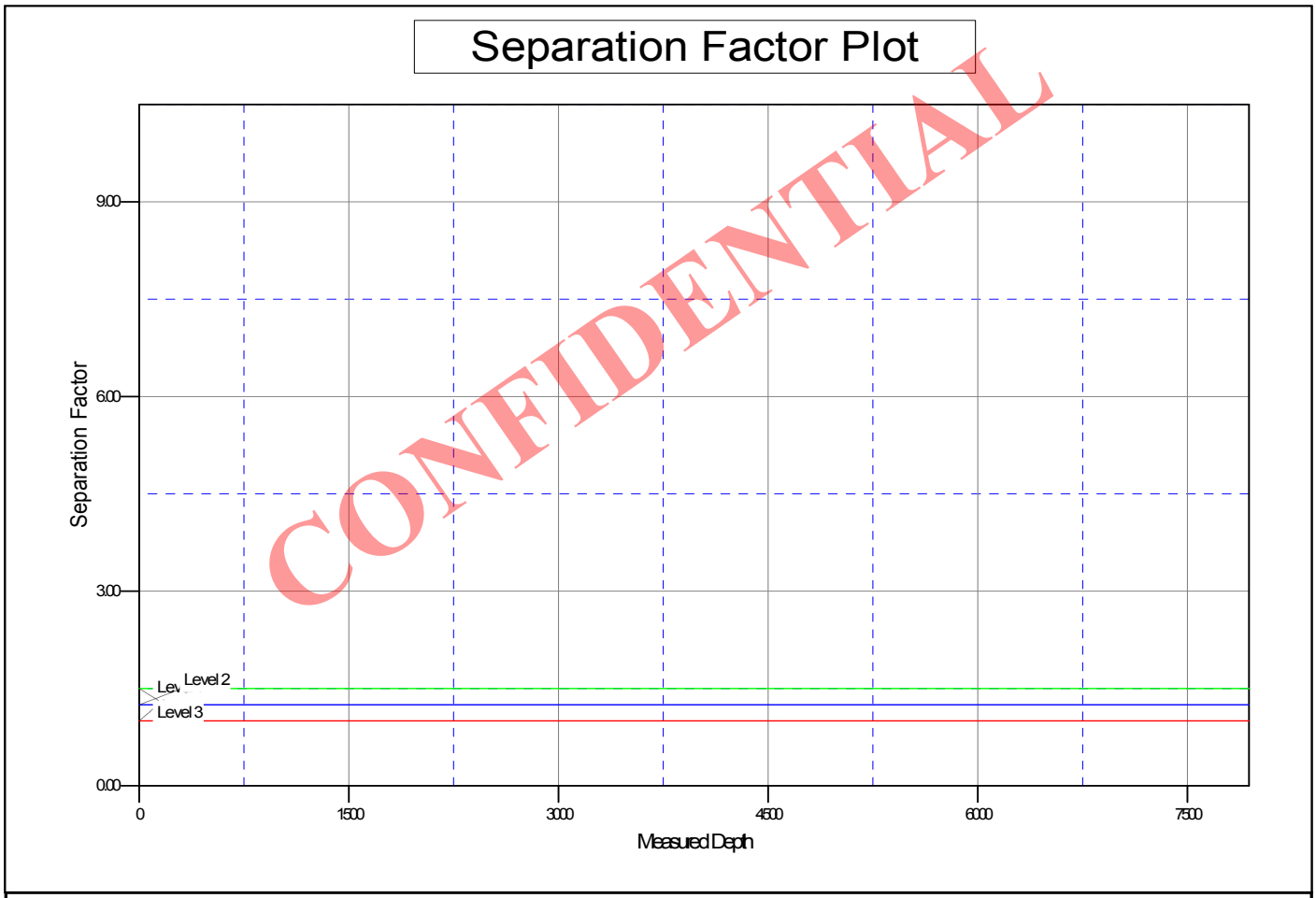
Anticollision Report

Scientific Drilling

Company:	EnerVest Operating LLC	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Reference Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	Peters Point UF 1-27D-12-16	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	Grand Junction District
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to GL 6772' & KB 24' @ 6796.00ft (H&P
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Peters Point UF 1-27D-12-16 - Slot B
Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
Grid Convergence at Surface is: 0.89°



LEGEND

- Peters Point UF 2-27D-12-16, OH, Plan #3 V0
- Peters Point UF 3-27D-12-16, OH, Plan #3 V0
- Peters Point UF 4-27D-12-16, OH, Plan #3 V0
- Peters Point UF 5-27D-12-16, OH, Plan #2 V0
- Peters Point UF 6-27D-12-16, OH, Plan #2 V0
- Peters Point UF 7-27D-12-16, OH, Plan #2 V0
- Peters Point UF 8-27D-12-16, OH, Plan #2 V0

RECEIVED: August 25, 2014

Star Point Enterprises, Inc.

2580 Creekview Road
Moab, Utah 84532
435.650.3866

August 25, 2014

Mrs. Diana Mason
State of Utah
Division of Oil Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Request for Exception to Spacing – EnerVest Operating, LLC
Peters Point 1-27D-12-16
NWNE, 1264' FNL & 1768' FEL, Sec. 27, T12S, R16E (surface)
NENE, 529' FNL & 645' FEL, Sec. 27, T12S, R16E (bottom)
SLB&M, Carbon County, Utah

CONFIDENTIAL

Dear Diana:

EnerVest Operating, LLC respectfully submits this request for exception to spacing (R649-3-11) based on topography since the well is located less than 460 feet to the drilling unit boundary. EnerVest Operating, LLC is the only owner and operator within 460 feet of the surface and target location as well as all points along the intended well bore path and are not within 460 feet of any uncommitted tracts or a unit boundary.

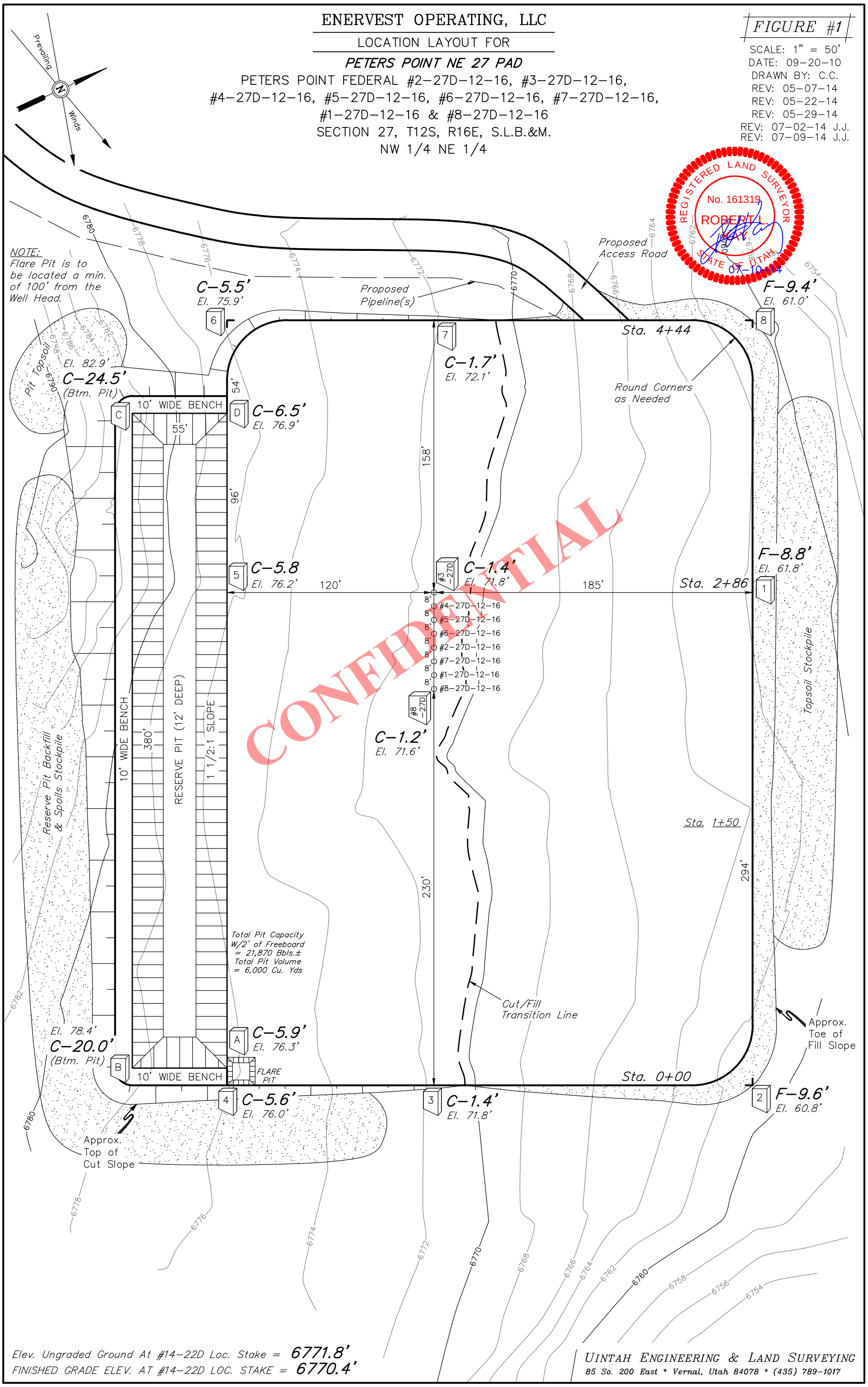
Thank you very much for your timely consideration of this application. Please feel free to contact George Bradley at 713-970-1845 or gbradley@EnerVest.net or myself should you have any questions or need additional information.

Sincerely,

Don Hamilton
Agent for EnerVest Operating, LLC

cc: George Bradley, EnerVest Operating, LLC

RECEIVED: August 25, 2014



CONFIDENTIAL

1" = 20'
X-Section Scale
1" = 50'

DATE: 09-20-10
DRAWN BY: C.C.
REV: 05-07-14
REV: 05-22-14
REV: 05-29-14
REV: 07-02-14 J.J.
REV: 07-09-14 J.J.

ENERVEST OPERATING, LLC

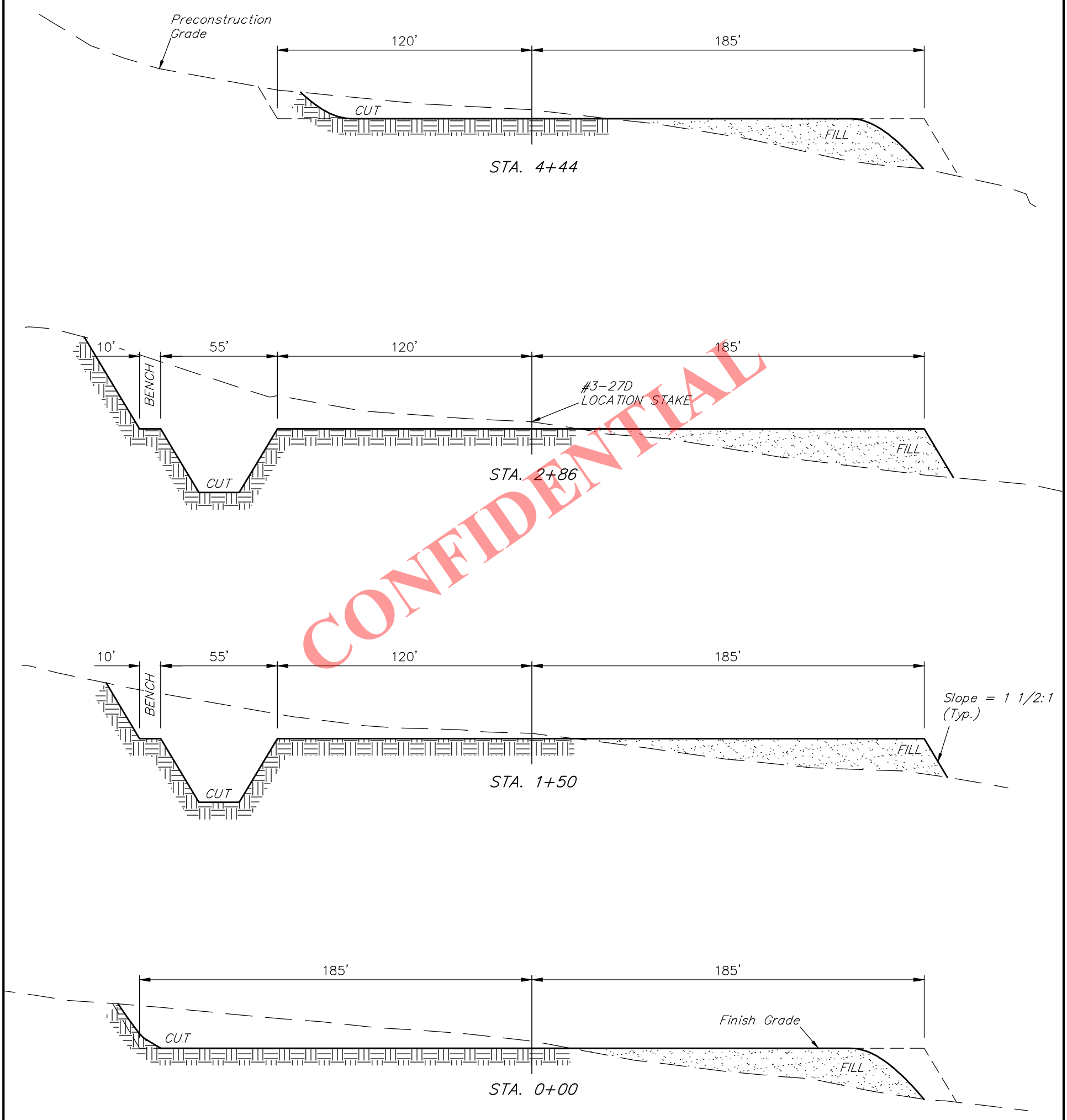
TYPICAL CROSS SECTIONS FOR

PETERS POINT NE 27 PAD

PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

FIGURE #2

REGISTERED LAND SURVEYOR No. 161319 RODERIC L. KAY STATE OF UTAH 07-10-14



CONFIDENTIAL

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	*= ± 4.926 ACRES*
ACCESS ROAD DISTURBANCE	*= ± 3.470 ACRES*
PIPELINE DISTURBANCE	*= ± 4.724 ACRES*
TOTAL	*= ± 13.120 ACRES*

** NOTE:*
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	*3,340* Cu. Yds.
Remaining Location	=	*20,070* Cu. Yds.
TOTAL CUT	=	*23,410* CU.YDS.
FILL	=	*14,350* CU.YDS.

EXCESS MATERIAL	=	*9,060* Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	*6,340* Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	*2,720* Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: August 25, 2014

ENERVEST OPERATING, LLC

TYPICAL RIG LAYOUT FOR

PETERS POINT NE 27 PAD

PETERS POINT FEDERAL #4-27D-12-16, #5-27D-12-16, #3-27D-12-16, #6-27D-12-16, #2-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16

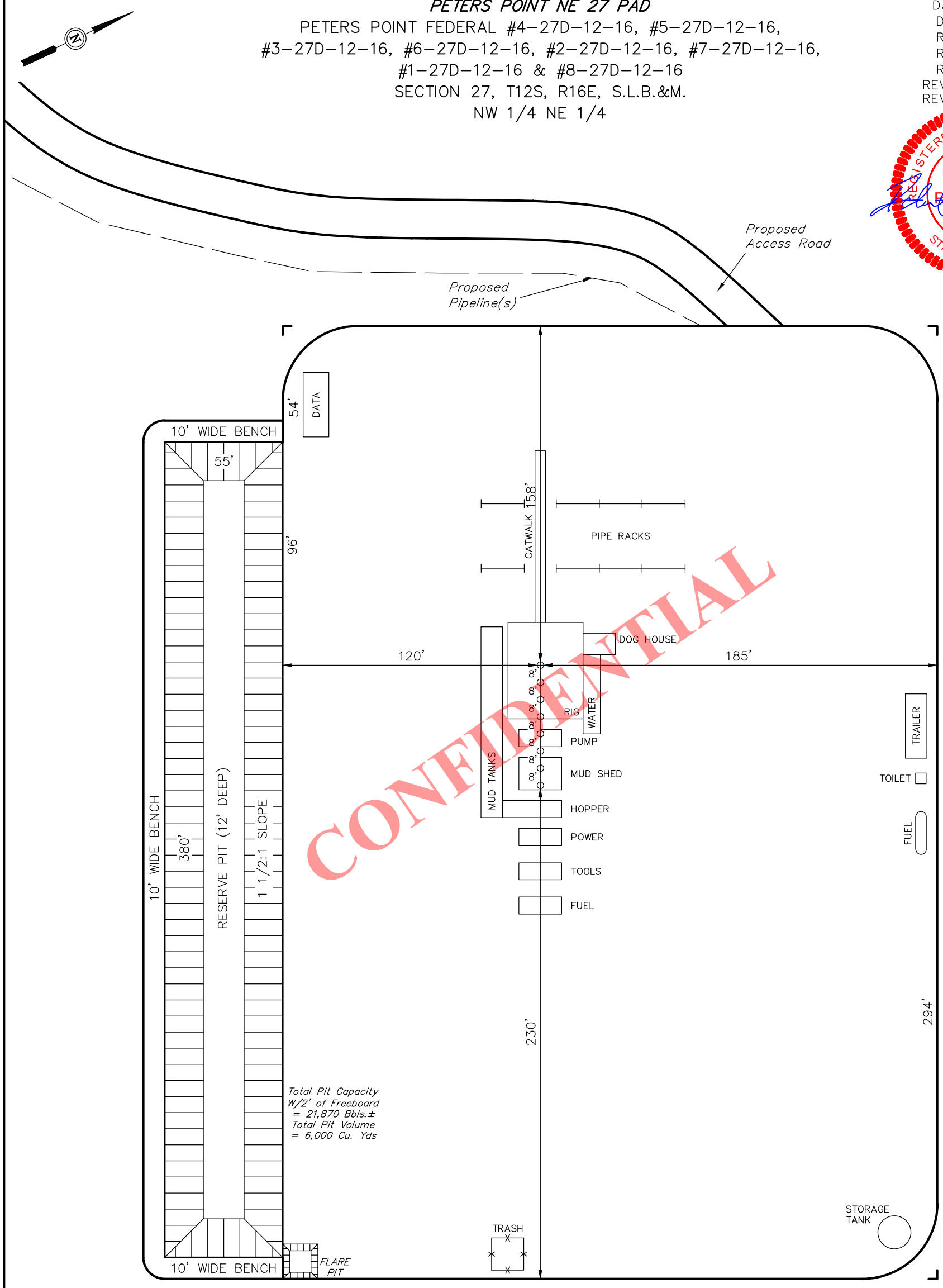
SECTION 27, T12S, R16E, S.L.B.&M.

NW 1/4 NE 1/4

FIGURE #3

SCALE: 1" = 50'
DATE: 09-20-10
DRAWN BY: C.C.
REV: 05-07-14
REV: 05-22-14
REV: 05-29-14
REV: 07-02-14 J.J.
REV: 07-09-14 J.J.

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 07-10-14



CONFIDENTIAL

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: August 25, 2014

ENERVEST OPERATING, LLC

INTERIM RECLAMATION FOR

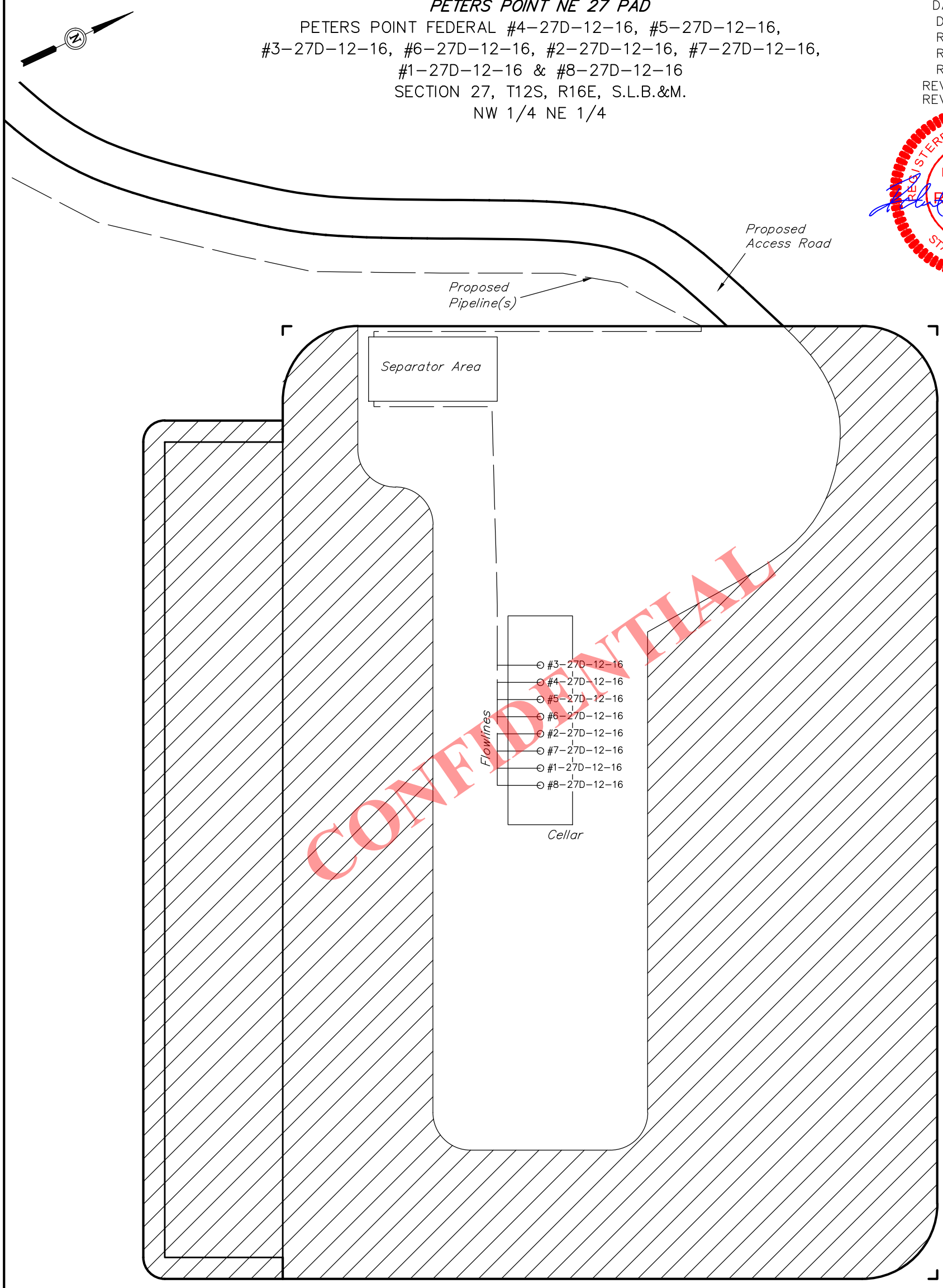
PETERS POINT NE 27 PAD

PETERS POINT FEDERAL #4-27D-12-16, #5-27D-12-16,
#3-27D-12-16, #6-27D-12-16, #2-27D-12-16, #7-27D-12-16,
#1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

FIGURE #4

SCALE: 1" = 50'
DATE: 09-20-10
DRAWN BY: C.C.
REV: 05-07-14
REV: 05-22-14
REV: 05-29-14
REV: 07-02-14 J.J.
REV: 07-09-14 J.J.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH
07-10-14



RE-HABBED AREA

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: August 25, 2014

ENERVEST OPERATING, LLC

INTERFERENCE DIAGRAM FOR

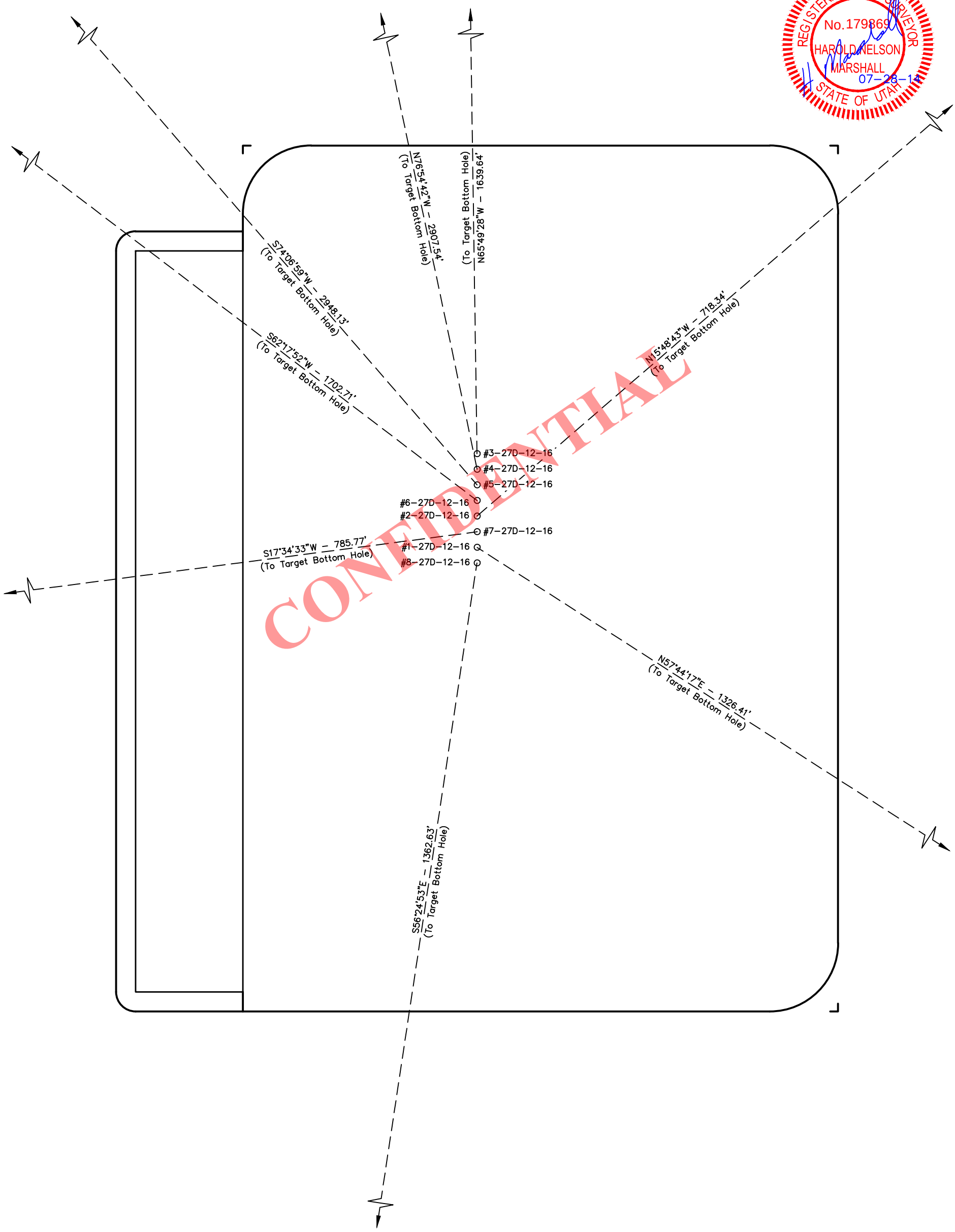
PETERS POINT NE 27 PAD

PETERS POINT FEDERAL #4-27D-12-16, #5-27D-12-16,
#3-27D-12-16, #6-27D-12-16, #2-27D-12-16, #7-27D-12-16,
#1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

FIGURE #5

SCALE: 1" = 50'
DATE: 09-20-10
DRAWN BY: C.C.
REV: 05-07-14
REV: 05-22-14
REV: 05-29-14
REV: 07-02-14 J.J.
REV: 07-09-14 J.J.
REV: 07-25-14 J.J.

REGISTERED LAND SURVEYOR
No.179869
HAROLD NELSON MARSHALL
07-28-14
STATE OF UTAH

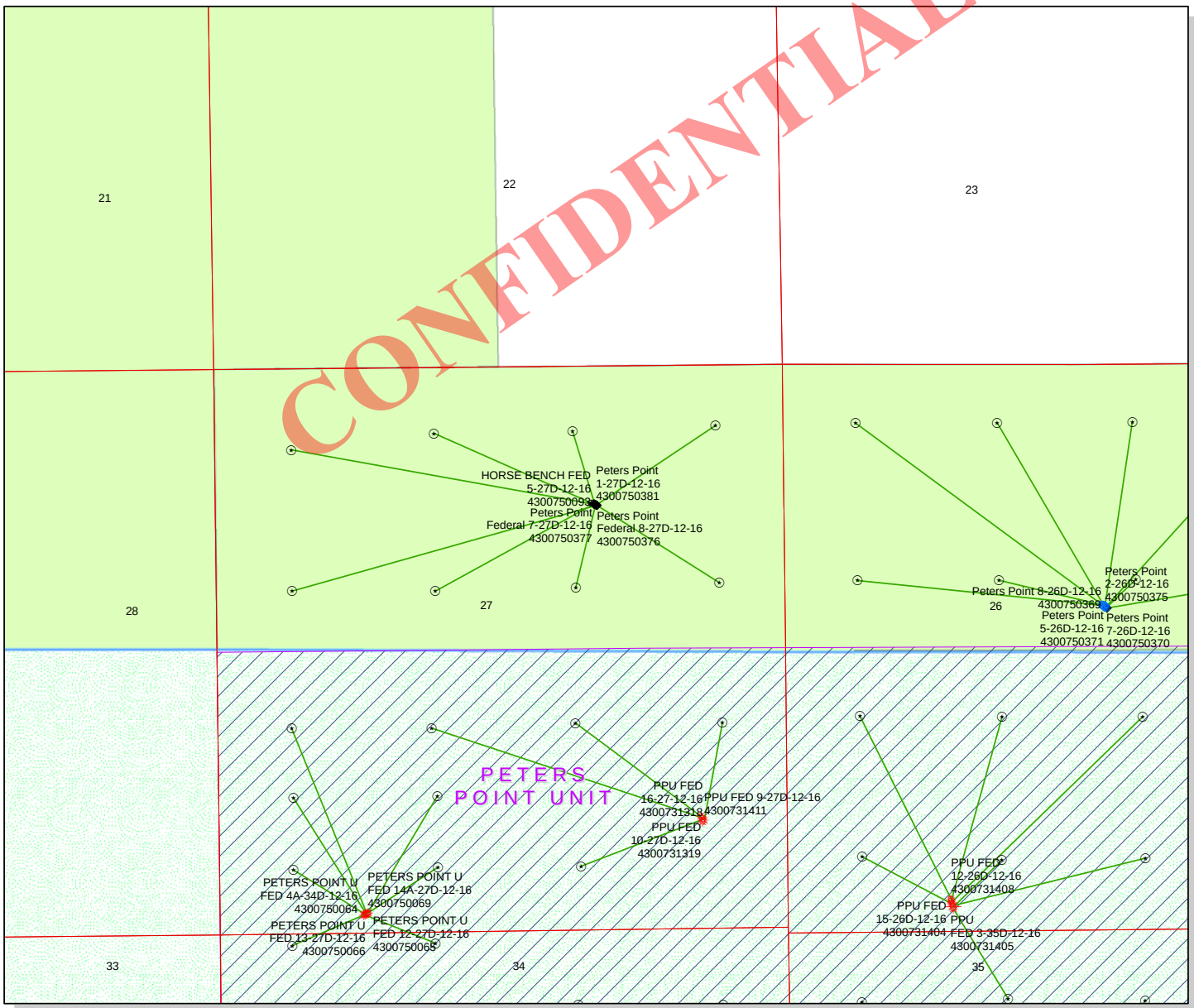


CONFIDENTIAL

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

RECEIVED: August 25, 2014

API Well Number: 43007503810000



API Number: 4300750381

Well Name: Peters Point 1-27D-12-16

Township: T12.0S Range: R16.0E Section: 27 Meridian: S

Operator: ENERVEST OPERATING, LLC

Map Prepared: 8/27/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,200 600 0 1,200 Feet

1:11,512

RECEIVED: August 27, 2014

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/25/2014
API NO. ASSIGNED: 43007503810000
WELL NAME: Peters Point 1-27D-12-16
OPERATOR: ENERVEST OPERATING, LLC (N4040)
PHONE NUMBER: 435 650-3866
CONTACT: Don Hamilton

PROPOSED LOCATION: NWNE 27 120S 160E
Permit Tech Review: ✔

SURFACE: 1264 FNL 1768 FEL
Engineering Review: ☐

BOTTOM: 0529 FNL 0645 FEL
Geology Review: ✔

COUNTY: CARBON
LATITUDE: 39.74852
LONGITUDE: -110.10720
UTM SURF EASTINGS: 576489.00
NORTHINGS: 4400227.00
FIELD NAME: UNDESIGNATED
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-88627
PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE
SURFACE OWNER: 1 - Federal
COALBED METHANE: NO

CONFIDENTIAL

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** FEDERAL - BOO8557
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** 90-4
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: R649-3-11
Effective Date:
Siting:

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: September 04, 2014

GARY R. HERBERT
Governor
SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Peters Point 1-27D-12-16
API Well Number: 43007503810000
Lease Number: UTU-88627
Surface Owner: FEDERAL
Approval Date: 9/4/2014

Issued to:
ENERVEST OPERATING, LLC, 1001 Fannin Street, Suite 800, Houston, TX 77002

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being

drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-88627

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Peters Point 1-27D-12-16

2. NAME OF OPERATOR:
ENERVEST OPERATING, LLC

9. API NUMBER:
43007503810000

3. ADDRESS OF OPERATOR:
1001 Fannin Street, Suite 800 , Houston, TX, 77002

PHONE NUMBER:
713 659-3500 Ext

9. FIELD and POOL or WILDCAT:
UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1264 FNL 1768 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNE Section: 27 Township: 12.0S Range: 16.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/29/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: PT-PT NE 27 Pad Pipeline Pr

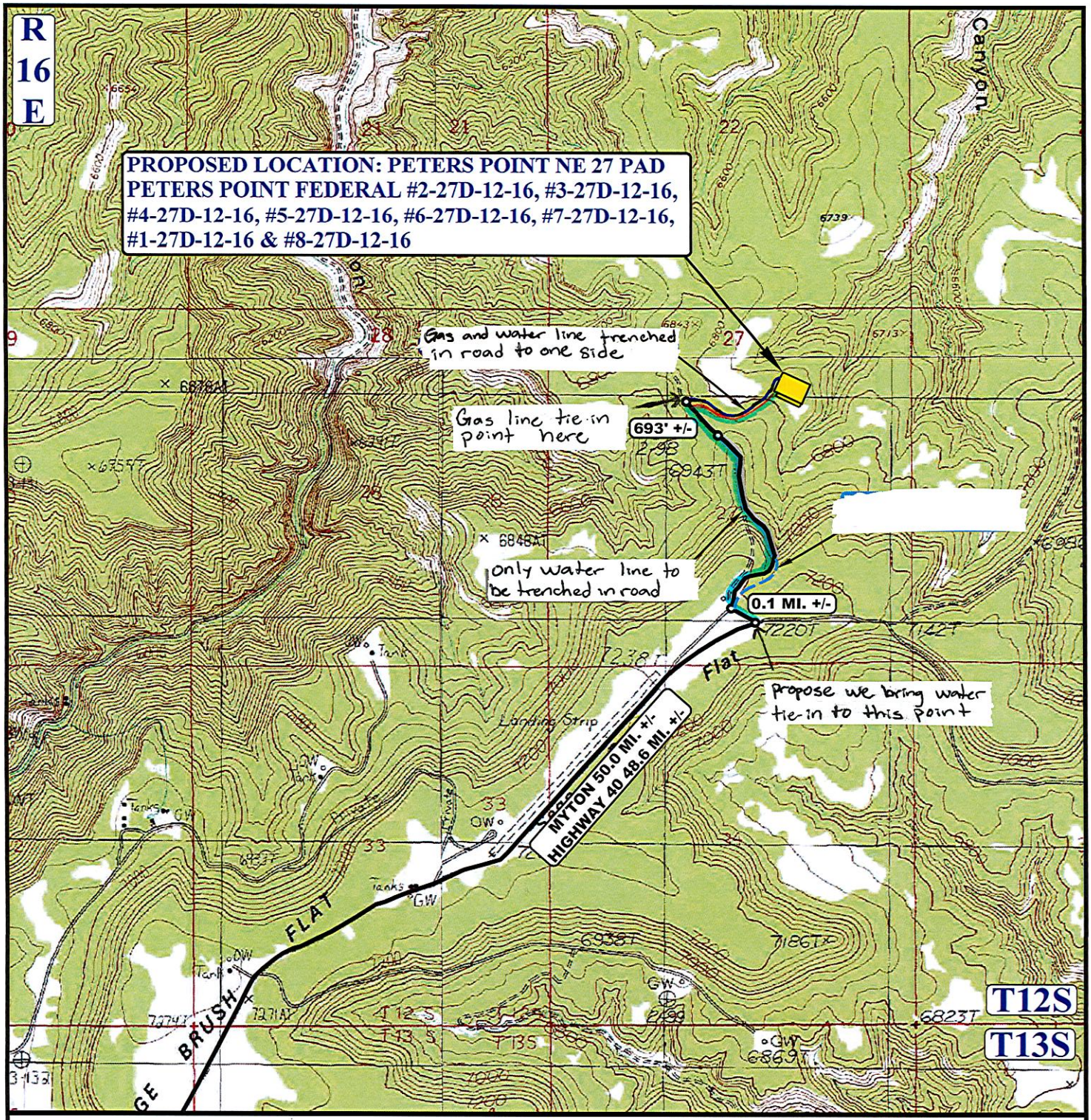
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EnerVest Operating, L.L.C. will be running the lines in the bar ditch of the road. From the location we will be burying an 8" steel gas line and a 6" flexsteel water line on the south side of the road. Once we reach the existing 20" surface gas line, we will then tie the 8" gas line there (approx. 1600'). The 6" flexsteel will then continue on the West side of the road until it reaches the beginning of the access road to this site. From there we propose to run an additional 400' still on the West side of the road along the existing ROW to the SW 27 Pad and make the water tie in point at that main road intersection where the water and gas lines intersect (approx. 4000').

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 12, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Rebecca Tidwell	713 970-1847	Regulatory Analyst
SIGNATURE		**DATE**
N/A		10/29/2014

RECEIVED: Oct. 29, 2014



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED ROAD RE-ROUTE
- EXISTING ROAD TO BE UPGRADED

ENERVEST OPERATING, LLC

PETERS POINT NE 27 PAD
PETERS POINT FEDERAL #2-27D-12-16, #3-27D-12-16, #4-27D-12-16, #5-27D-12-16, #6-27D-12-16, #7-27D-12-16, #1-27D-12-16 & #8-27D-12-16
SECTION 27, T12S, R16E, S.L.B.&M.
NW 1/4 NE 1/4

N

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J	DATE DRAWN: 09-21-10
SCALE: 1" = 2000'	REVISED: 07-10-14 L.S.
[redacted]	TOPO B

Received: August 25, 2014

Sundry Number: 57143 API Well Number: 43007503810000

Form 3160-3
(August 2007)

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU88627

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

CONFIDENTIAL

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.
PETERS POINT 1-27D-12-16

2. Name of Operator
ENERVEST OPERATING LLC
Contact: DON HAMILTON
E-Mail: starpoint@etv.net

9. API Well No.
43-007-50381-00-X1

3a. Address
1001 FANNIN STREET SUITE 800
HOUSTON, TX 77002-6707

3b. Phone No. (include area code)
Ph: 435.719.2018
Fx: 435.719.2019

10. Field and Pool, or Exploratory
PETERS POINT

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NWNE 1264FNL 1768FEL 39.748750 N Lat, 110.107242 W Lon

At proposed prod. zone NENE 529FNL 645FEL 39.750692 N Lat, 110.103253 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 27 T12S R16E Mer SLB
SME: BLM

14. Distance in miles and direction from nearest town or post office*
51 MILES SOUTH OF MYTON UT

12. County or Parish
CARBON

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1264

16. No. of Acres in Lease
811.12

17. Spacing Unit dedicated to this well
40.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
8

19. Proposed Depth
7561 MD
7323 TVD

20. BLM/BIA Bond No. on file
UTB000615

21. Elevations (Show whether DF, KB, RT, GL, etc.
6772 GL

22. Approximate date work will start
09/01/2014

23. Estimated duration
60 DAYS

DIV. OF OIL, GAS & MINING

NOV 06 2014

RECEIVED

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
DON HAMILTON Ph: 435.719.2018

Date
08/25/2014

Title
PERMITTING AGENT

Approved by (Signature) Ahmed Mohsen

Name (Printed/Typed) AHMED MOHSEN

Date 10/30/14

Title
FIELD MANAGER

Office
PRICE FIELD OFFICE

Application approval does not warrant or certify 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.

Additional Operator Remarks (see next page)

Electronic Submission #258187 verified by the BLM Well Information System
For ENERVEST OPERATING LLC, sent to the Price
Committed to AFMSS for processing by PRISCILLA WHITE-ABUHL on 09/11/2014 (14PCW0852AE)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UDOGM

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PRICE FIELD OFFICE
125 SOUTH 600 WEST PRICE, UT 84501 (435) 636-3600

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**EnerVest Operating LLC**	**Surface Location:**	**NWNE-Sec 27-T12S-R16E**
Well No:	**Peters Point 1-27D-12-16**	**Lease No:**	**UTU-88627**
API No:	**43-007-50381**	**Agreement:**	

Title	**Name**	**Office Phone Number**	**Cell Phone Number**
Field Manager & Authorized Officer:	Ahmed Mohsen	(435)-636-3637	
Petroleum Engineer:	Leslie Peterson	(435) 636-3661	(435) 650-9136
Petroleum Engineering Technician:	Angela Wadman	(435) 636-3662	(435) 632-8595
Petroleum Engineering Technician:	James Lamb	(435) 636-3615	(435) 650-9140
NRS/Physical Scientist:	Don Stephens	(435) 636-3608	
NRS/Physical Scientist:	Anita Jones	(435)-636-3668	

Fax: (435) 636-3657

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify NRS)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Petroleum Eng. Technician)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Petroleum Eng. Technician)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

UDOGM

DRILLING PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DRILLING & PRODUCTION COAs

- While drilling the surface hole with air, a float valve shall be run above the bit, per Onshore Order #2 Part III.E Special Drilling Operations.

- When cementing surface casing, if cement returns are not seen at surface, mitigation measures shall be taken to ensure the groundwater and all usable waters are properly protected per Onshore Order #2 Part III.B.1(c) Casing and Cementing Requirements. Cementing jobs where cement reaches surface, then falls back downhole, shall be topped off as necessary until such time the cement remains in-place at surface, prior to starting drilling operations on the next casing string.

- When cementing the production casing, the cement job shall contain sufficient volume to attempt full coverage of exposed hole behind pipe to protect all usable waters, lost circulation zones and other minerals which may be encountered while drilling to total depth, and also provide a minimum 200' foot overlap above the surface casing shoe. A cement bond log (CBL) shall be run to determine the top of cement behind the production casing, and a field copy sent to the Price Field Office.

VARIANCES GRANTED

- Operator's request for a variance to use an electronic flow meter for gas measurement (Onshore Order #5 Measurement of Gas) is granted as long as it meets or exceeds the requirements of Utah NTL 2007-1 regarding the use of Electronic Flow Computers.

- Operator's request for variance from Onshore Order #5 Part III.C.3 Gas Measurement by Orifice Meter to use a flow conditioner on this well instead of straightening vanes is approved with the following conditions:

  1. Flow conditioners must be installed in accordance with the manufacturer's specifications.
  2. The make, model, and location of flow conditioner must be clearly identified and available to BLM on-site at all times.
  3. Thermowells must be placed downstream of the orifice in accordance with API 14.3 (1985).
  4. This is a provisional approval that is subject to change pending final review and analysis by BLM. If BLM determines that this flow conditioner cannot meet or exceed the minimum standards required by Onshore Order #5, you will be required to retrofit the installation to comply with BLM requirements, or replace the installation with one that complies with AGA Report Number 3, 1985. The time frame for compliance will be specified by the Price Field Office.

STANDARD OPERATING REQUIREMENTS

- The requirements included in Onshore Order #2 Drilling Operations shall be followed.
- A copy of the approved Application for Permit to Drill (APD) for this well shall be on location at all times once drilling operations have commenced.
- The Price Field Office petroleum engineer will be notified 24 hours prior to spudding the well.
- Notify the Price Field Office petroleum engineering technician at least 24 hours in advance of casing cementing operations, BOPE tests and casing pressure or mud weight equivalency tests.
- The requirements of Onshore Order #6 Hydrogen Sulfide Operations shall be followed when operations are being conducted in zones which are known or could reasonably be expected to contain H2S or which, when flared, could produce SO2, in such concentrations that upon release could constitute a hazard to human life. These requirements do not apply when operating in zones where H2S is presently known not to be present or cannot reasonably be expected to be present in concentrations of 100 ppm or more in the gas stream.
- Any deviation from the permitted APD's proposed drilling program shall have prior approval from the petroleum engineer. Changes may be requested verbally (to be followed by a written sundry sent to this office), or submitted by written sundry if time warrants.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed. The closing unit controls shall remain unobstructed and readily accessible at all times, and choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily, and the inspections recorded in the daily drilling report. Components shall be operated and tested, as required by Onshore Order #2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder, and <u>not</u> by the rig pumps. Test results shall be reported in the driller's log.
- All casing strings below the conductor pipe shall be pressure tested to .22 psi/foot or 1500 psi (whichever is greater), but not to exceed 70% of the internal yield pressure.
- No aggressive/fresh hard-banded drill pipe shall be used in the casing design. The proposed use of non-API standard casing must be approved in advance by the petroleum engineer.
- During drilling operations, daily drilling reports shall be submitted by sundry on a weekly basis to the Price Field Office. Within 30 days of finishing drilling and completion operations, a chronological daily operations history shall be submitted by sundry to this office. A copy of all logs run on this well shall be submitted digitally (in PDF or TIFF format) to the Price Field Office.
- A complete set of angular deviation and directional surveys for this directional well will be submitted to the Price Field Office petroleum engineer within 30 days of completing the well.
- The venting or flaring of gas while initially testing the well shall be done in accordance with the requirements specified in Notice to Lessees #4A, and shall not exceed a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. Additional time needed to vent or flare gas during production operations requires prior approval from the Price Field Office.

STANDARD OPERATING REQUIREMENTS (cont.)

- Should this well be successfully completed as a producing well, the Price Field Office must be notified within 5 business days following the date the well has first sales.

- Proposed production operations that involve: 1) the commingling of production from wells located on-lease or off-lease, 2) off-lease measurement, or 3) off-lease storage shall have prior written approval from the Price Field Office.

- Operators shall meet the requirements listed in Onshore Order #4 Measurement of Oil and Onshore Order #5 Measurement of Gas. New oil and gas meters shall be calibrated prior to initial product sales. The operator (or its contractors) is responsible for providing the date and time of the initial meter calibration (and all future meter proving schedules) to the petroleum engineering technician. Copies of all meter calibration reports that are performed shall be submitted to the Price Field Office upon request.

- In accordance with 43 CFR 3162.4-3, this well's production data shall be reported on the "Monthly Report of Operations" starting with the month in which drilling operations commence and continue each month until the well is plugged and abandoned.

- The operator is responsible for submitting the information required in 43 CFR 3162.4-1 Well Records and Reports, including BLM Form 3160-4, Well Completion and Recompletion Report and Log which must be submitted to the Price Field Office within 30 days of completing the well.

- Onshore Order #7 authorizes the disposal of water produced from this well in the reserve pit for a period of 90 days after the date of initial production. A permanent disposal method must be submitted and approved by this office, and in operation prior to the end of this 90-day period.

- The requirements of Onshore Order #3 Site Security shall be implemented, and include (as applicable): 1) all lines entering and leaving hydrocarbon storage tanks shall be effectively sealed and seal records maintained, 2) no by-passes are allowed to be constructed around gas meters, 3) a site facility diagram shall be submitted to the Price Field Office within 60 days following construction of the facilities.

- Additional construction that is proposed, or the proposed alteration of existing facilities (including roads, gathering lines, batteries, etc.), which will result in the disturbance of new ground, requires prior approval of the Price Field Office natural resource specialist.

- This well and its associated facilities shall have identifying signs on location in accordance with 43 CFR 3162.6 requirements.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the Price Field Office natural resource specialist.

- The Price Field Office petroleum engineer shall be notified 24 hours in advance of the plugging of the well (unless the plugging is to take place immediately upon receipt of oral approval), so that a technician may have sufficient time to schedule and witness the plugging operations.

- If operations are to be suspended on a well for more than 30 days, prior approval of the Price Field Office shall be obtained, and notification also given before operations resume.

SURFACE USE
CONDITIONS OF APPROVAL

Project Name: Enervest Peter's Point NE 27 Pad

Operator: Enervest Operating LLC

List of Wells:

Name	Number	Section	TWP/RNG
Peters Point	**1-27D-12-16**	**27**	**12S/16E**
Peters Point	**2-27D-12-16**		
Peters Point	**3-27D-12-16**		
Peters Point	**4-27D-12-16**		
Peters Point	**5-27D-12-16**		
Peters Point	**6-27D-12-16**		
Peters Point	**7-27D-12-16**		
Peters Point	**8-27D-12-16**		

I To be followed as Conditions of Approval:

The following attachments from the Record of Decision West Tavaputs Plateau Natural Gas Full Field Development Plan:

Attachment 2	Conditions of Approval and Stipulations
Attachment 3	Green River District Reclamation Guidelines
Attachment 4	Programmatic Agreement
Attachment 5	Special Protection Measures for Wildlife
Attachment 6	Agency Wildlife Mitigation Plan
Attachment 7	Long-Term Monitoring Plan for Water Resources
Attachment 8	Mitigation Compliance and Monitoring Plan

II Site Specific Conditions of Approval

1. A pre-construction field meeting may be conducted prior to beginning any dirt work approved under this APD. The operator shall contact the BLM Authorized Officer Don Stephens @ 435-636-3608 at least 48-hours prior to beginning operations so that the meeting can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved APD(s), project map and BLM Conditions of Approval pertinent to the work that each will be doing.

2. The cuttings trench shall be lined.

3. The cuttings shall not be removed from the location without prior approval of the Authorized Officer.

4. The operator shall on an annual basis report to the BLM the acre feet of water used for the project with a total for each type of source. This report shall contain the information found under monitoring on page 53 of attachment 9 (Biological Opinion) of the WTP ROD and shall be reported to BLM by September 15, of each year.

5. When water is pumped directly from Nine Mile Creek or perennial drainages, the following measures shall be applied to reduce or eliminate direct impacts to habitat for the Colorado River fish species. Where directed by the BLM, the operator will construct erosion control devices (e.g., riprap, bales, and heavy vegetation) at culvert outlets. All construction activities shall be performed to retain natural water flows.

6. Contact Don Stephens, Natural Resource Specialist, (435) 636-3608, Bureau of Land Management, Price Field Office, if there are any questions concerning these surface use COAs.

7. A ROW is required for the access road, well pad, and pipelines.

III Standard Conditions of Approval

A. General

1. If any cultural values [sites, artifacts, human remains] are observed during operation of this lease/permit/right-of-way, they will be left intact and the Price Field Manager notified. The authorized officer will conduct an evaluation of the cultural values to establish appropriate mitigation, salvage or treatment. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized BLM officer (AO).

B. Construction

1. Remove all available topsoil from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material.
2. During construction, emissions of particulate matter from well pad and road construction would be minimized by application of water or other non-saline dust suppressants with at least 50 percent control efficiency. Dust inhibitors (surfacing materials, non-saline dust suppressants, and water) will be used as necessary on unpaved roads that present a fugitive dust problem. The use of chemical dust suppressants on public surface will require prior approval from the BLM Authorized Officer.
3. The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD.

C. Operations/Maintenance

1. In accordance with OSHA requirements, a file will be maintained onsite containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.

D. Dry Hole/Reclamation

1. Phased reclamation plans will be submitted to BLM for approval prior to individual POD facility abandonment via a Notice of Intent (NOI) Sundry Notice.

2. BLM will not release the performance bond until all disturbed areas associated with the APD/POD have been successfully revegetated (evaluation will be made after the second complete growing season) and has met all other reclamation goals of the surface owner and surface management agency.

3. A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.

4. For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by BLM.

E. Producing Well

1. An interim reclamation plan shall be submitted to BLM within 90 days of APD approval.
2. Upgrade and maintain access roads and drainage control (e.g., culverts, drainage dips, ditching, crowning, surfacing, etc.) as necessary and as directed by the BLM Authorized Officer to prevent soil erosion and accommodate safe, environmentally-sound access.
3. Prior to construction of production facilities not specifically addressed in the APD, the operator shall submit a Sundry Notice to the BLM Authorized Officer for approval.

F. Roads and Pipelines

1. Roads constructed on BLM lands shall be constructed to allow for drainage and erosion control. The operator is responsible for maintenance of all roads authorized through the lease or right-of-way. Construction and maintenance shall comply with Class III Road Standards with a 16-ft wide graveled travel surface as described in BLM Manual Section 9113, and the BLM Gold Book standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, and headcut restoration/prevention.
2. The operator may be required to provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall certify (statement with PE stamp) that the road was constructed to the required Bureau of Land Management (BLM) road standards.
3. Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road ditch turnouts shall be equipped with energy dissipaters as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NW NE SEC 27 T12S R16E UTU 88627

NOTICE OF NEW WELL SPUDDING.

2 messages

H&P 276 <h&p276@enervest.net> Tue, Jan 13, 2015 at 10:42 AM
To: CAROL DANIELS <caroldaniels@utah.gov>, DENNIS INGRAM <dennisingram@utah.gov>, "PR_OPReport, BLM_UT" <blm_ut_pr_opreport@blm.gov>

NOTICE

ENERVEST LLC AND LEON ROSS WILL BE SPUDDING 8 NEW WELLS STARTING 1-14-2015. THE WELLS WE WILL BE SPUDDING WILL BE AS FOLLOWS;

PETERS POINT 1-27D-12-16 API# 43007503810000 – 1/~~14~~25/2015

PETERS POINT 2-27D-12-16 API# 43007503800000

PETERS POINT 3-27D-12-16 API# 43007503790000

PETERS POINT 6-27D-12-16 API# 43007503780000

PETERS POINT 7-27D-12-16 API# 43007503770000

PETERS POINT 8-27D-12-16 API# 43007503760000

WE WILL DRILL THE #4-27D AND THE 5-27D LAST ON THE LIST AND I WILL E-MAIL INFORMATION TO YOU AT THAT TIME.

THANK YOU,

MICHAEL BLAKLEY

ENERVEST CONSULTANT

Carol Daniels <caroldaniels@utah.gov> Tue, Jan 13, 2015 at 11:44 AM
Draft To: H&P 276 <h&p276@enervest.net>

I will need to have a spud notice for each well as they are spudded with all the required information.

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-88627

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Peters Point 1-27D-12-16

2. NAME OF OPERATOR:
ENERVEST OPERATING, LLC

9. API NUMBER:
43007503810000

3. ADDRESS OF OPERATOR:
1001 Fannin Street, Suite 800 , Houston, TX, 77002

PHONE NUMBER:
713 659-3500 Ext

9. FIELD and POOL or WILDCAT:
UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1264 FNL 1768 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNE Section: 27 Township: 12.0S Range: 16.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 1/24/2015	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry is to report that Peters Point 1-27D-12-16 well was spud on 01/24/2015.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 10, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Rebecca Tidwell	713 970-1847	Regulatory Analyst

SIGNATURE	DATE
N/A	3/10/2015

RECEIVED: Mar. 10, 2015

CONFIDENTIAL

[redacted]

Carol Daniels <caroldaniels@utah.gov>

NWNE S-27 T12S R16E 4300750381 UTU-88627

PETERS POINT 1-27D-12-16 PM REPORT

1 message

H&P 276 <h&p276@enervest.net> Fri, Mar 6, 2015 at 2:15 PM
To: Uinta D&C <uintad&c@enervest.net>, ANGELA WADMAN <awadman@blm.gov>, DENNIS INGRAM <dennisingram@utah.gov>, CAROL DANIELS <caroldaniels@utah.gov>, "Don_Stephens@blm.gov" <Don_Stephens@blm.gov>

GOOD AFTERNOON,

PETERS POINT 1-27D-12-16 PM REPORT

CURRENT STATUS: DRILLING AT 5620' AT 250-350 FT/HR WITH 20-25K WOB, 55 TD RPM, 88 MOTOR RPM, 250 PSI DIFFERENTIAL AND 13K TORQUE.

OPS SINCE 06:00 SUMMARY: DRILL FROM 4331' to 5620' (161.12 ft/hr)

24 HR FORCAST: DRILL 7-7/8" PRODUCTION HOLE DROPPING ANGLE.

COMMENTS: NO ACCIDENTS, INCIDENTS OR SPILLS.

THANKS,

MIKE BLAKLEY

h&p276@enervest.net

(970) 812-0021 RIG

(505) 402-7945 (MIKES CELL)

CONFIDENTIAL

Caròl Daniels <caroldaniels@utah.gov>

NWNE S-27 T12S R16E 4300750381 UTU 88627

NOTICE OF TD AND IMPENDING CASING AND CEMENT JOB.

1 message

H&P 276 <h&p276@enervest.net> Fri, Mar 6, 2015 at 5:06 PM
To: "PR_OPReport, BLM_UT" <blm_ut_pr_opreport@blm.gov>, CAROL DANIELS <caroldaniels@utah.gov>, DENNIS INGRAM <dennisingram@utah.gov>, "Munkres, Brett" <bmunkres@enervest.net>

NOTICE

ENERVEST OPERATING LLC ALONG WITH H & P RIG 276 WILL BE EXPECTING TO

TD THE PETERS POINT 1-27D-12-16 WELL AT A DEPTH OF 7561' ON 3-7-2015 IN

THE MORNING HOURS.

WE WILL BE LOGGING THE WELL AND THEN RUNNING CASING AND CEMENTING.

THANK YOU,

MICHAEL BLAKLEY

ENERVEST OPERATING

RIG PHONE-970-812-0021

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-88627

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Peters Point 1-27D-12-16

2. NAME OF OPERATOR:
ENERVEST OPERATING, LLC

9. API NUMBER:
43007503810000

3. ADDRESS OF OPERATOR:
1001 Fannin Street, Suite 800 , Houston, TX, 77002

PHONE NUMBER:
713 659-3500 Ext

9. FIELD and POOL or WILDCAT:
UNDESIGNATED

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1264 FNL 1768 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNE Section: 27 Township: 12.0S Range: 16.0E Meridian: S

COUNTY:
CARBON

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 4/22/2015	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Production Start-up

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Peters Point 1-27D-12-16 had first production on 04/22/2015.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 29, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Rebecca Tidwell	713 970-1847	Regulatory Analyst

SIGNATURE	DATE
N/A	4/27/2015

RECEIVED: Apr. 27, 2015

Form 3160-4
(March 2012)

Rtidwell
CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU88627

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: EnerVest Operating, LLC.

8. Lease Name and Well No.: Peters Point 01-27D-12-16

3. Address: 1001 Fannin ST., STE 800, Houston, TX 77002

3a. Phone No. (include area code): 7136593500

9. API Well No.: 4300750381

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: 1264 FNL & 1768 FEL (NWNE)
At top prod. interval reported below
At total depth: 463 FNL & 646 FEL

10. Field and Pool or Exploratory: Peters Point

11. Sec., T., R., M., on Block and Survey or Area: Sec. 27, T12S, R16E

12. County or Parish: Carbon

13. State: UT

14. Date Spudded: 01/24/2015

15. Date T.D. Reached: 03/08/2015

16. Date Completed: 03/09/2015 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 6772 GL

18. Total Depth: MD 7450 TVD 7199

19. Plug Back T.D.: MD 7363 TVD 7119

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): Triple Combo

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20	16	65	0	40	0	0	0	0	0
12 1/4	9 5/8 J-55	36	0	1144	0	170sx/ Varicem	112	0	0
						170sx/ Halcem	0	0	0
7 7/8	4.5 P110	13.5	0	7443	0	485sx/ Econoem	318	0	0
						590sx/ Expand	0	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom
A) Wasatch (incl North Horn)	2871	5168
B) Mesa Verde	6481	6919
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
5349-5468	.40	54	Open hole
5719-5739	.40	48	Open hole
5943-6061	.40	54	Open hole
6555-6565	.40	30	Open hole

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5349-7374	Fw/686000# 20/40 white sand + 70% CO2 Foam Frac: 505 tons CO2 + 4271 bbls total fluids.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/22/15	04/23/15	24	→	0	1485	0			Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
30/64		831	→	0	1485	0		Producing

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*
Flared during test period.

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top	Bottom	Descriptions, Contents, etc.

31. Formation (Log) Markers

Name	Top Meas. Depth
Wasatch	2967
Mid Wasatch	4076
North Horn	5168
Dark Canyon	6690
Price River	6919

32. Additional remarks (include plugging procedure):

Copies of the orginial logs have been submitted to the State of Utah. Tubing will be ran in the well at a later date.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
- ☐ Geologic Report
- ☐ DST Report
- ☑ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
- ☐ Core Analysis
- ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Rebecca Tidwell Title Regulatory Analyst

Signature Rebecca Tidwell Date 04/28/2015

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 3)

Peters Point 01-27D-12-16

26. PERFORATION RECORD (cont.)				
Stages	INTERVAL	SIZE	**NO. HOLES**	**PERFORATION STATUS**
4	6881-6974	.40	63	Open
3	7093-7108	.40	33	Open
2	7192-7292	.40	114	Open
1	7327-7374	.40	45	Open

*Depth intervals for frac information same as perforation record intervals.

Sundry Number: 62929 API Well Number: 43007503810000

Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	EnerVest Operating LLC
Well Name & No.	Peters Point UF 1-27D-12-16
County & State	Carbon County, UT
SDI Job No.	420115DEF246868
Rig	LR #36

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 38 feet to a measured depth of 1,202 feet is true and correct as determined from all available records.

Signature

27-Jan-15
Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International

Survey Report - Geographic

Scientific Drilling

Company:	EnerVest	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GR 6772' & RKB 5' @ 6777.00ft (LR #36)
Site:	Peters Point NE 27 Pad	**MD Reference:**	GR 6772' & RKB 5' @ 6777.00ft (LR #36)
Well:	Peters Point UF 1-27D-12-16	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Project Carbon County, UT NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Peters Point NE 27 Pad

Site Position:		**Northing:**	518,596.16 usft	**Latitude:**	39.7487860
From:	Lat/Long	**Easting:**	2,391,779.95 usft	**Longitude:**	-110.1065330
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.89 °

Well Peters Point UF 1-27D-12-16 - Slot B

Well Position	**+N/-S**	0.00 ft	**Northing:**	518,596.14 usft	**Latitude:**	39.7487860
	+E/-W	0.00 ft	**Easting:**	2,391,779.95 usft	**Longitude:**	-110.1065330
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	6,772.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/27/2014	11.02	65.47	51,696

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	270.05

Survey Program **Date** 1/27/2015

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
38.30	38.30	Survey #1 - Conductor Gyro Survey (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3
124.00	1,202.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	518,596.14	2,391,779.95	39.7487860	-110.1065330
38.30	0.15	238.54	38.30	-0.03	-0.04	518,596.11	2,391,779.91	39.7487859	-110.1065332
124.00	0.40	145.72	124.00	-0.33	0.03	518,595.81	2,391,779.99	39.7487850	-110.1065329
First SDI Surface MWD Survey									
153.00	0.26	83.21	153.00	-0.41	0.15	518,595.73	2,391,780.11	39.7487848	-110.1065325
183.00	0.71	90.38	183.00	-0.40	0.41	518,595.74	2,391,780.37	39.7487849	-110.1065316
212.00	0.87	68.68	211.99	-0.32	0.79	518,595.83	2,391,780.75	39.7487851	-110.1065302
241.00	1.24	73.39	240.99	-0.15	1.30	518,596.01	2,391,781.25	39.7487855	-110.1065284
271.00	1.75	63.84	270.98	0.14	2.02	518,596.31	2,391,781.97	39.7487863	-110.1065258
302.00	2.20	61.23	301.96	0.64	2.97	518,596.82	2,391,782.91	39.7487877	-110.1065225
392.00	2.37	59.47	391.89	2.41	6.08	518,598.65	2,391,786.00	39.7487926	-110.1065114

Survey Report - Geographic

Scientific Drilling

Company:	EnerVest	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GR 6772' & RKB 5' @ 6777.00ft (LR #36)
Site:	Peters Point NE 27 Pad	**MD Reference:**	GR 6772' & RKB 5' @ 6777.00ft (LR #36)
Well:	Peters Point UF 1-27D-12-16	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
482.00	2.37	56.75	481.81	4.38	9.24	518,600.66	2,391,789.13	39.7487980	-110.1065001
572.00	2.27	59.16	571.74	6.31	12.33	518,602.64	2,391,792.18	39.7488033	-110.1064892
662.00	2.82	51.75	661.65	8.60	15.60	518,604.98	2,391,795.41	39.7488096	-110.1064775
752.00	2.99	50.86	751.53	11.45	19.16	518,607.89	2,391,798.93	39.7488174	-110.1064649
842.00	2.90	44.88	841.42	14.55	22.58	518,611.03	2,391,802.31	39.7488259	-110.1064527
932.00	3.17	46.47	931.29	17.87	25.99	518,614.41	2,391,805.67	39.7488350	-110.1064406
1,022.00	3.08	48.58	1,021.16	21.19	29.61	518,617.78	2,391,809.23	39.7488441	-110.1064277
1,112.00	3.03	46.82	1,111.03	24.41	33.16	518,621.06	2,391,812.73	39.7488530	-110.1064151
1,202.00	3.22	47.40	1,200.89	27.75	36.75	518,624.46	2,391,816.27	39.7488621	-110.1064023
Last SDI Surface MWD Survey									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
124.00	124.00	-0.33	0.03	First SDI Surface MWD Survey
1,202.00	1,200.89	27.75	36.75	Last SDI Surface MWD Survey

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	EnerVest Operating
Well Name & No.	Peters Point UF 1-27D-12-16
County & State	Carbon County, UT
SDI Job No.	420315DEF258863
Rig	H&P 276

I, Mel Mireles Jr., having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 7,452 feet is true and correct as determined from all available records.

Signature

26-Mar-15
Date

Mel Mireles Jr.
Grand Junction Assistant Well Planner
Scientific Drilling - Colorado District

Scientific Drilling

SDI

Survey Report - Geographic

Company:	EnerVest	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Well:	Peters Point UF 1-27D-12-16	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Project Carbon County, UT NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Peters Point NE 27 Pad

Site Position:		**Northing:**	518,596.16 usft	**Latitude:**	39.7487860
From:	Lat/Long	**Easting:**	2,391,779.95 usft	**Longitude:**	-110.1065330
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.89 °

Well Peters Point UF 1-27D-12-16 - Slot B

Well Position	**+N/-S**	0.00 ft	**Northing:**	518,596.14 usft	**Latitude:**	39.7487860
	+E/-W	0.00 ft	**Easting:**	2,391,779.95 usft	**Longitude:**	-110.1065330
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	6,772.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/27/2014	11.02	65.47	51,696

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	19.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	19.00	0.00	0.00	57.77

Survey Program **Date** 3/26/2015

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
57.30	57.30	Survey #1 - Conductor Gyro Survey (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3
143.00	1,221.00	Survey #2 - Surface MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1
1,260.00	7,452.00	Survey #3 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19.00	0.00	0.00	19.00	0.00	0.00	518,596.14	2,391,779.95	39.7487860	-110.1065330
57.30	0.15	238.54	57.30	-0.03	-0.04	518,596.11	2,391,779.91	39.7487859	-110.1065332
143.00	0.40	145.72	143.00	-0.33	0.03	518,595.81	2,391,779.99	39.7487850	-110.1065329
First SDI Surface MWD Survey									
172.00	0.26	83.21	172.00	-0.41	0.15	518,595.73	2,391,780.11	39.7487848	-110.1065325
202.00	0.71	90.38	202.00	-0.40	0.41	518,595.74	2,391,780.37	39.7487849	-110.1065316
231.00	0.87	68.68	230.99	-0.32	0.79	518,595.83	2,391,780.75	39.7487851	-110.1065302
260.00	1.24	73.39	259.99	-0.15	1.30	518,596.01	2,391,781.25	39.7487855	-110.1065284
290.00	1.75	63.84	289.98	0.14	2.02	518,596.31	2,391,781.97	39.7487863	-110.1065258
321.00	2.20	61.23	320.96	0.64	2.97	518,596.82	2,391,782.91	39.7487877	-110.1065225

Scientific Drilling

SDI

Survey Report - Geographic

Company:	EnerVest	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Well:	Peters Point UF 1-27D-12-16	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
411.00	2.37	59.47	410.89	2.41	6.08	518,598.65	2,391,786.00	39.7487926	-110.1065114
501.00	2.37	56.75	500.81	4.38	9.24	518,600.66	2,391,789.13	39.7487980	-110.1065001
591.00	2.27	59.16	590.74	6.31	12.33	518,602.64	2,391,792.18	39.7488033	-110.1064892
681.00	2.82	51.75	680.65	8.60	15.60	518,604.98	2,391,795.41	39.7488096	-110.1064775
771.00	2.99	50.86	770.53	11.45	19.16	518,607.89	2,391,798.93	39.7488174	-110.1064649
861.00	2.90	44.88	860.42	14.55	22.58	518,611.03	2,391,802.31	39.7488259	-110.1064527
951.00	3.17	46.47	950.29	17.87	25.99	518,614.41	2,391,805.67	39.7488350	-110.1064406
1,041.00	3.08	48.58	1,040.16	21.19	29.61	518,617.78	2,391,809.23	39.7488441	-110.1064277
1,131.00	3.03	46.82	1,130.03	24.41	33.16	518,621.06	2,391,812.73	39.7488530	-110.1064151
1,221.00	3.22	47.40	1,219.89	27.75	36.75	518,624.46	2,391,816.27	39.7488621	-110.1064023
Last SDI Surface MWD Survey									
1,260.00	3.59	48.82	1,258.82	29.30	38.48	518,626.03	2,391,817.97	39.7488664	-110.1063962
First SDI Production MWD Survey									
1,354.00	6.33	56.38	1,352.46	34.11	45.01	518,630.94	2,391,824.43	39.7488796	-110.1063729
1,448.00	9.56	59.85	1,445.55	40.90	56.08	518,637.90	2,391,835.39	39.7488982	-110.1063336
1,542.00	11.56	59.32	1,537.95	49.62	70.93	518,646.86	2,391,850.10	39.7489222	-110.1062807
1,637.00	14.37	56.58	1,630.52	60.98	88.96	518,658.49	2,391,867.95	39.7489534	-110.1062166
1,731.00	16.82	57.90	1,721.06	74.63	110.22	518,672.48	2,391,889.00	39.7489908	-110.1061410
1,825.00	19.26	55.07	1,810.43	90.74	134.46	518,688.96	2,391,912.98	39.7490351	-110.1060548
1,920.00	21.90	54.89	1,899.36	109.90	161.80	518,708.55	2,391,940.02	39.7490877	-110.1059576
2,014.00	24.18	56.65	1,985.86	130.57	192.23	518,729.69	2,391,970.12	39.7491444	-110.1058493
2,109.00	24.98	58.99	2,072.25	151.60	225.67	518,751.24	2,392,003.24	39.7492022	-110.1057304
2,203.00	24.36	57.97	2,157.67	172.11	259.12	518,772.26	2,392,036.36	39.7492585	-110.1056114
2,298.00	25.24	61.22	2,243.91	192.25	293.48	518,792.94	2,392,070.41	39.7493138	-110.1054892
2,392.00	24.55	61.07	2,329.18	211.35	328.14	518,812.57	2,392,104.76	39.7493662	-110.1053659
2,486.00	26.11	62.36	2,414.14	230.39	363.56	518,832.16	2,392,139.88	39.7494185	-110.1052400
2,581.00	25.59	62.54	2,499.63	249.55	400.28	518,851.89	2,392,176.30	39.7494711	-110.1051094
2,675.00	24.62	61.92	2,584.75	268.13	435.57	518,871.02	2,392,211.29	39.7495221	-110.1049838
2,769.00	24.85	59.23	2,670.13	287.45	469.82	518,890.87	2,392,245.24	39.7495751	-110.1048620
2,864.00	24.62	57.00	2,756.42	308.44	503.57	518,912.38	2,392,278.65	39.7496328	-110.1047420
2,958.00	24.96	58.15	2,841.75	329.57	536.84	518,934.03	2,392,311.59	39.7496908	-110.1046237
3,053.00	26.15	55.91	2,927.46	351.88	571.20	518,956.88	2,392,345.60	39.7497520	-110.1045014
3,147.00	25.50	55.33	3,012.07	375.00	605.00	518,980.52	2,392,379.03	39.7498155	-110.1043812
3,241.00	24.53	55.24	3,097.25	397.64	637.67	519,003.66	2,392,411.35	39.7498777	-110.1042650
3,335.00	26.03	56.21	3,182.25	420.24	670.84	519,026.77	2,392,444.17	39.7499397	-110.1041470
3,430.00	24.71	55.68	3,268.09	443.03	704.57	519,050.09	2,392,477.53	39.7500023	-110.1040271
3,524.00	26.20	58.29	3,352.96	465.01	738.45	519,072.60	2,392,511.07	39.7500626	-110.1039066
3,618.00	24.71	58.23	3,437.83	486.26	772.81	519,094.38	2,392,545.09	39.7501210	-110.1037844
3,713.00	26.61	60.25	3,523.46	507.28	808.17	519,115.94	2,392,580.12	39.7501787	-110.1036586
3,807.00	26.12	57.35	3,607.69	528.89	843.87	519,138.11	2,392,615.48	39.7502380	-110.1035316
3,901.00	25.32	57.00	3,692.37	551.00	878.15	519,160.75	2,392,649.41	39.7502987	-110.1034097
3,996.00	23.39	56.56	3,778.92	572.46	910.92	519,182.72	2,392,681.85	39.7503576	-110.1032931
4,090.00	21.87	55.15	3,865.68	592.75	940.86	519,203.47	2,392,711.47	39.7504133	-110.1031866
4,185.00	18.64	57.00	3,954.79	611.13	968.12	519,222.28	2,392,738.44	39.7504638	-110.1030897
4,279.00	17.41	56.91	4,044.18	626.99	992.51	519,238.51	2,392,762.57	39.7505073	-110.1030030
4,373.00	16.05	57.62	4,134.20	641.63	1,015.26	519,253.50	2,392,785.10	39.7505475	-110.1029220
4,468.00	14.53	57.97	4,225.83	654.98	1,036.46	519,267.19	2,392,806.08	39.7505842	-110.1028466
4,562.00	13.03	58.50	4,317.12	666.77	1,055.49	519,279.27	2,392,824.93	39.7506165	-110.1027789
4,657.00	11.82	57.91	4,409.90	677.54	1,072.87	519,290.31	2,392,842.13	39.7506461	-110.1027171
4,751.00	9.15	55.95	4,502.32	686.84	1,087.22	519,299.83	2,392,856.34	39.7506716	-110.1026661
4,845.00	7.12	59.21	4,595.37	694.01	1,098.42	519,307.17	2,392,867.42	39.7506913	-110.1026263
4,940.00	6.83	54.29	4,689.67	700.32	1,108.06	519,313.63	2,392,876.97	39.7507086	-110.1025920
5,035.00	4.79	45.39	4,784.17	706.40	1,115.47	519,319.83	2,392,884.28	39.7507253	-110.1025656
5,129.00	2.90	39.07	4,877.96	711.00	1,119.77	519,324.50	2,392,888.50	39.7507380	-110.1025503
5,223.00	2.49	40.84	4,971.85	714.40	1,122.60	519,327.93	2,392,891.29	39.7507473	-110.1025403

Scientific Drilling

SDI

Survey Report - Geographic

Company:	EnerVest	**Local Co-ordinate Reference:**	Well Peters Point UF 1-27D-12-16 - Slot B
Project:	Carbon County, UT NAD27	**TVD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Site:	Peters Point NE 27 Pad	**MD Reference:**	GL 6772' & KB 24' @ 6796.00ft (H&P 276)
Well:	Peters Point UF 1-27D-12-16	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,318.00	1.97	45.50	5,066.78	717.10	1,125.11	519,330.68	2,392,893.76	39.7507547	-110.1025313
5,412.00	1.90	47.30	5,160.73	719.29	1,127.41	519,332.90	2,392,896.02	39.7507607	-110.1025231
5,507.00	2.00	19.09	5,255.68	721.93	1,129.11	519,335.56	2,392,897.68	39.7507680	-110.1025171
5,601.00	1.68	325.34	5,349.63	724.61	1,128.86	519,338.24	2,392,897.39	39.7507753	-110.1025180
5,695.00	1.26	321.27	5,443.60	726.55	1,127.43	519,340.16	2,392,895.93	39.7507806	-110.1025231
5,790.00	1.25	324.42	5,538.58	728.21	1,126.18	519,341.80	2,392,894.65	39.7507852	-110.1025275
5,884.00	0.97	198.50	5,632.57	728.29	1,125.33	519,341.86	2,392,893.80	39.7507854	-110.1025305
5,979.00	0.97	207.47	5,727.56	726.81	1,124.70	519,340.38	2,392,893.19	39.7507814	-110.1025328
6,073.00	1.15	200.39	5,821.54	725.22	1,124.01	519,338.78	2,392,892.52	39.7507770	-110.1025352
6,167.00	0.97	46.45	5,915.54	724.88	1,124.25	519,338.45	2,392,892.78	39.7507761	-110.1025344
6,262.00	0.88	37.40	6,010.52	726.02	1,125.28	519,339.60	2,392,893.78	39.7507792	-110.1025307
6,356.00	0.56	46.65	6,104.52	726.91	1,126.05	519,340.50	2,392,894.54	39.7507816	-110.1025280
6,450.00	0.35	67.90	6,198.51	727.33	1,126.65	519,340.93	2,392,895.14	39.7507828	-110.1025258
6,545.00	0.39	110.63	6,293.51	727.32	1,127.22	519,340.93	2,392,895.71	39.7507828	-110.1025238
6,639.00	0.35	86.71	6,387.51	727.23	1,127.81	519,340.85	2,392,896.30	39.7507825	-110.1025217
6,734.00	0.26	127.67	6,482.51	727.11	1,128.27	519,340.74	2,392,896.76	39.7507822	-110.1025201
6,828.00	0.29	133.93	6,576.51	726.82	1,128.61	519,340.45	2,392,897.10	39.7507814	-110.1025189
6,922.00	0.62	130.74	6,670.50	726.32	1,129.17	519,339.96	2,392,897.67	39.7507800	-110.1025169
7,017.00	0.86	134.28	6,765.50	725.49	1,130.07	519,339.14	2,392,898.58	39.7507777	-110.1025137
7,111.00	1.06	165.02	6,859.48	724.15	1,130.80	519,337.82	2,392,899.33	39.7507741	-110.1025111
7,205.00	1.33	164.37	6,953.46	722.26	1,131.32	519,335.94	2,392,899.88	39.7507689	-110.1025093
7,300.00	0.79	181.25	7,048.45	720.55	1,131.60	519,334.23	2,392,900.19	39.7507642	-110.1025082
7,394.00	1.14	198.06	7,142.43	719.01	1,131.29	519,332.68	2,392,899.91	39.7507599	-110.1025093
Last SDI Production MWD Survey									
7,452.00	1.14	198.06	7,200.42	717.91	1,130.94	519,331.58	2,392,899.57	39.7507569	-110.1025106
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
143.00	143.00	-0.33	0.03	First SDI Surface MWD Survey
1,221.00	1,219.89	27.75	36.75	Last SDI Surface MWD Survey
1,260.00	1,258.82	29.30	38.48	First SDI Production MWD Survey
7,394.00	7,142.43	719.01	1,131.29	Last SDI Production MWD Survey
7,452.00	7,200.42	717.91	1,130.94	Projection to TD

Checked By: _____ Approved By: _____ Date: _____