WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API	47 - 033	_ 05751	County HARRIS	ON	District TEN MIL	.E
	041.514.7.51		- W.D.		Field/Pool Name	WOLF SUMMIT
Farm	name JUNKINS		LVA		Well Number 24	
Opera	ntor (as registered	with the OOG	H.G. ENERGY LLC	C		
Addre	5260 DuPO	NT ROAD	City PAF	RKERSBURG	State WV	Zip 26101
As Di	Landing Point	Top hole of Curve	Attach an as-drille Northing 4,347,673 M Northing Northing 4,347,494 M		Easting 542,415 M Easting 542,217 M	
Eleva	tion (ft) 1,307	GL	Type of Well	■New □ Existing	Type of Repo	ort □Interim ĒFinal
Permi	it Type 📱 De	viated D H	Iorizontal 🛮 Horizon	tal 6A 🛭 Vertic	cal Depth Type	□ Deep ■ Shallow
Туре	of Operation 🗆	Convert 🗆 l	Deepen ■ Drill 🗆	Plug Back 🗆 F	Redrilling 🗆 Reworl	k □ Stimulate
Well	Type 🗆 Brine D	isposal □ CBN	M □ Gas ■ Oil □ Sec	condary Recovery	□ Solution Mining □	Storage
• •	of Completion ■ ed with □ Cable		ıltiple Fluids Produ	ced □ Brine □	Gas □ NGL 🖪 Oil	□ Other
Produ	•	ir 🗆 Mud	ir □ Mud		iate hole ■ Air □ M	fud ■ Fresh Water □ Brine
N/A					<u> </u>	
Date	permit issued completion activi al plugging (Y/N)	ties began		_ Date completion	Date drilling activities ceased	
verba	ai piugging (1714)		Date permission grante	u	Granica by	
Pleas	e note: Operator	is required to s	submit a plugging applic	ation within 5 days		a 1î
Fresh	water depth(s) ft	; <u> </u>	None	Open mine(s) (Y	/N) depths	ceived
Salt v	water depth(s) ft		1300'	Void(s) encounte	ered (Y/N) depths	N
Coal	depth(s) ft	696	6'-703'	Cavern(s) encour	ntered (Y/N) depths	<u>N</u>
	al being mined in				Office WV Dept. of E	o of Oll and Gas Environmental Profection

Rev. 8/23/13					DE! \ / 4		0.40	
API 47- 033	05751	_ Farm name	JUNKIN	S, EARL &	BELVA	Well nu	mber_242	
CASING STRINGS		Casing Size	Depth	New or Used	Grade wt/ft		sket oth(s)	Did cement circulate (* Provide details belo
Conductor	12 1/4"	11 5/8"	30'	Used	ι	.s		Sand In
Surface	8 3/4"	7"	803'	New	ι	s	64'	Υ
Coal								
ntermediate 1						1	i	
Intermediate 2								
Intermediate 3		-						
Production	6 1/2"	4 1/2"	3345'	New	.l.	-55		N
Tubing	02							
Packer type and de	epth set			!	<u> </u>	<u> </u>		
Comment Details	Circulated Est. 10 bbls to	surface on 7" surface	cement job. Cir	culated Gel space	er to surface o	n 4 1/2" cement job.		
CEMENT DATA	Class/Type of Cement	Number of Sacks	Sluri wt (pj		Yield t ³/sks)	Volume (ft ³)	Cemen Top (MI	
Conductor								
Surface	Reg Neat	200	15.0	6	1.18	236	Surfac	e 8
Coal								
Intermediate I								
Intermediate 2								
Intermediate 3								
Production	50:50 Pozmix/ Econo	200/75	14.2/1	1.8 1.2	27/2.93	254/220	350'	8
Tubing								
Drillers TD (ft Deepest forma Plug back pro	tion penetrated Fifth	Sand		Loggers T Plug back				
Kick off depth	(ft) <u>830'</u>							
Check all wire	line logs run	-	density resistivity		ed/direction		iction perature	□sonic
Well cored	Yes No	Conventiona	l Side	wall	W	ere cuttings co	ollected	Yes 🗆 No
	HE CENTRALIZEF from bottom on 4 1/2°, Centralizer p		Γ USED FO	OR EACH C	ASING ST	TRING		
						200	Rece	eived
WAS WELL (COMPLETED AS S	HOT HOLE	□ Yes 🖪	No D	ETAILS		JAN Z	(C)4-
WAS WELL O	COMPLETED OPE	N HOLE?	Yes 🖪 N	No DET	AILS _	WV De	Office of Oi	l and Gas nmental Protection
WERE TRAC	ERS USED □ Yes	s ■ No ´	TYPE OF T	RACER(S)	USED			

API 47- 033 - 05751 Farm name_JUNKINS, EARL & BELVA Well number_242

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/1/13	3204'	3206'	8	Fifth Sand
1	10/1/13	3210'	3212'	8	Fifth Sand
				İ	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/7/13	10	1996	2775	1624	10,000	267	
			-			1		
			·					
								
					•			
								-
			-					
							000:	0
							ecei	vea
						1		
							JAN 2 i	201:
-						1	par.	/_U.*.

Please insert additional pages as applicable.

Universal Services Inc. Stimulating Company State OH Officip of 459 and Gas
WV Dept. of Environmental Protection Address 2489 Baumen Rd Wooster City Please insert additional pages as applicable. Telephone 304 420 -1107

My Date 11/25713 160,100 Completed by Signature (Title

City

HG Energy, LLC

Harrison County, West Virginia W.B. Carpenter #242 W.B. Carpenter #242

Wellbore #1

Survey: MWD

DDC Survey Report

11 December, 2013

Received

JAN 2 1 2014





I Larry Wright, certify that I am employed by The Appalachian Directional Drilling Company (ADC). That I did on the day(s) of 9/3/13 thru 9/5/13 conduct or supervise the taking of a MWD Survey from a depth of 802 feet to a depth of 3362 feet, that the data is true, correct, complete and within the limitations of the tool as set forth by The Appalachian Directional Drilling Company (ADC).; that I am authorized and qualified to make this report; that this survey was conducted at the request of HG Energy, LLC for the W.B. Carpenter # 242 API No. 47-033-05751 in Harrison, County WV; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by The Appalachian Directional Drilling Company (ADC).

Larry Wright

Digitally signed by Larry Wright DN: cn=Larry Wright, o=The Directional Drilling Company, ou=GM of Guidance Services, email=larryw@directionaldrillers.c om, c=US Date: 2013.12.12 16:11:57 -06'00'

Received

JAM 2 1 2014

Survey Report



Company:

HG Energy, LLC

Project:

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore:

Design:

Wellbore #1

Wellbore #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Project

Harrison County, West Virginia

Map System:

Universal Transverse Mercator NAD83 West Virginia - HARN

Geo Datum: Map Zone:

Zone 17N (84 W to 78 W)

System Datum:

Mean Sea Level

Site

W.B. Carpenter #242

Site Position: From:

Lat/Long

Northing: Easting:

14,264,015.98 usft 1,779,517.54 usft

Latitude:

Longitude:

39° 16' 38.800 N 80° 30' 30.400 W

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

0.31°

W.B. Carpenter #242 Well

Well Position

+N/-S +E/-W

0.0 usft 0.0 usft 0.0 usft

0.0 usft

Northing: Easting:

14,264,015.98 usft 1,779,517.54 usft

-8.64

Latitude: Longitude: 39° 16' 38.800 N

52,317

0.0

Position Uncertainty

IGRF2010

Wellhead Elevation:

usft

Ground Level:

80° 30' 30.400 W

1,307.0 usft

Wellbore	Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
			(°)	(°)

12/11/2013

Wellbore #1 Design **Audit Notes:**

Version:

Vertical Section:

1.0

Phase: Depth From (TVD)

ACTUAL

Tie On Depth:

+E/-W

Direction

66.82

Field Strength (nT)

(usft) (usft) (°) (usft) 222.37 0.0 0.0 0.0 12/11/2013 Survey Program Date

+N/-S

From To **Tool Name** Description (usft) (usft) Survey (Wellbore) 802.0 3,362.0 MWD (Wellbore #1)

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TIE IN @ 802	2' MD / 802' TVD								
802.0	0.00	0.00	802.0	0.0	0.0	0.0	0.00	0.00	0.00
846.0	1.49	126.53	846.0	-0.3	0.5	-0.1	3.39	3.39	0.00
876.0	1.89	106.62	876.0	-0.7	1.2	-0.3	2.35	1.33	-66.37
906.0	1.41	123.32	906.0	-1.1	2.0	-0.6	2.25	-1.60	55.67 /A
936.0	1.19	171.22	936.0	-1.6	2.4	-0.4	3.58	-0.73	159.67
966.0	2.02	209.01	966.0	-2.3	2.2	0.3	4.34	2.77	125.97
996.0	3.12	222.90	995.9	-3.4	1.4	1.6	4.19	3.67	46.30
1,026.0	4.22	225.62	1,025.9	-4.8	0.0	3.5	3.71	AN 2 3.67	9.07
1,056.0	5.41	229.62	1,055.8	-6.5	-1.8	6.0	4.12	3.97	13.33

Survey Report



Company:

HG Energy, LLC

Project:

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore: Design: Wellbore #1 Wellbore #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
1,086.0	6.59	230.81	1,085.6	-8.5	-4.3	9.1	3.95	3.93	3.97
1,116.0	7.78	228.39	1,115.4	-10.9	-7.1	12.8	4.09	3.97	-8.07
1,146.0	8.70	226.33	1,145.0	-13.8	-10.3	17.1	3.22	3.07	-6.87
1,176.0	9.18	222.81	1,174.7	-17.1	-13.5	21.8	2.43	1.60	-11.73
1,206.0	9.89	219.91	1,204.3	-20.9	-16.8	26.8	2.86	2.37	-9.67
1,236.0	10.81	218.42	1,233.8	-25.0	-20.2	32.1	3.19	3.07	-4.97
1,266.0	11.38	218.33	1,263.2	-29.6	-23.8	37.9	1.90	1.90	-0.30
1,296.0	11.91	221.32	1,292.6	-34.2	-27.7	43.9	2.68	1.77	9.97
1,326.0	12.39	221.10	1,321.9	-39.0	-31.8	50.3	1.61	1.60	-0.73
1,356.0	12.92	221.01	1,351.2	-43.9	-36.2	56.8	1.77	1.77	-0.30
1,386.0	13.10	221.71	1,380.4	-49.0	-40.6	63.6	0.80	0.60	2.33
1,416.0	13.71	224.70	1,409.6	-54.1	-45.4	70.5	3.08	2.03	9.97
1,446.0	14.41	229.01	1,438.7	-59.0	-50.7	77.8	4.20	2.33	14.37
1,476.0	15.60	233.62	1,467.7	-63.9	-56.8	85.5	5.62	3.97	15.37
1,506.0	16.92	238.72	1,496.5	-68.5	-63.7	93.6	6.48	4.40	17.00
1,536.0	17.49	239.20	1,525.1	-73.1	-71.4	102.1	1.96	1.90	1.60
1,566.0	18.50	238.41	1,553.7	-77.9	-79.3	111.0	3.46	3.37	-2.63
1,596.0	18.98	237.31	1,582.1	-83.0	-87.4	120.3	1.99	1.60	-3.67
1,626.0	20.21	233.01	1,610.4	-88.8	-95.7	130.1	6.32	4.10	-14.33
1,656.0	21.01	230.33	1,638.4	-95.3	-104.0	140.5	4.12	2.67	-8.93
1,686.0	22.50	229.01	1,666.3	-102.5	-112.4	151.5	5.23	4.97	-4.40
1,716.0	22.98	228.92	1,694.0	-110.2	-121.2	163.1	1.60	1.60	-0.30
1,746.0	23.51	228.13	1,721.5	-118.0	-130.1	174.8	2.05	1.77	-2.63
1,776.0	24.92	227.29	1,748.9	-126.3	-139.2	187.1	4.84	4.70	-2.80
1,806.0	26.10	227.29	1,776.0	-135.0	-148.6	199.9	3.93	3.93	0.00
1,836.0	27.42	226.02	1,802.7	-144.3	-158.5	213.4	4.79	4.40	-4.23
1,866.0	28.08	223.60	1,829.3	-154.2	-168.3	227.4	4.35	2.20	-8.07
1,896.0	28.52	222.02	1,855.7	-164.7	-178.0	241.6	2.90	1.47	-5.27
1,926.0	28.52	220.31	1,882.1	-175.4	-187.4	255.9	2.72	0.00	-5.70
1,956.0	28.39	222.81	1,908.5	-186.1	-196.9	270.2	3.99	-0.43	8.33
1,986.0	28.21	224.92	1,934.9	-196.4	-206.7	284.4	3.39	-0.60	7.03
2,016.0	28.70	228.00	1,961.2	-206.2	-217.1	298.7	5.16	1.63	10.27
2,046.0	29.49	231.29	1,987.5	-215.7	-228.2	313.1	5.95	2.63	10.97
2,076.0	30.28	231.42	2,013.5	-225.0	-239.9	327.9	2.64	2.63	0.43
2,106.0	30.72	230.59	2,039.3	-234.6	-251.7	343.0	2.03	ceive	-2.77
2,136.0	31.20	229.62	2,065.0	-244.5	-263.6	358.2	2.31	1.60	-3.23
2,166.0	31.90	229.40	2,090.6	-254.7	-275.5	373.8	2.36	2.33	-0.73
2,196.0	32.52	228.00	2,116.0	-265.2	-287.5	389.7	3.23	2.07	-4.67
2,226.0	32.61	227.82	2,141.3	-276.1	-299.5	405.8	0.44	0.30	-0.60
2,256.0	31.68	228.92	2,166.7	-286.7	-311.4	421.7	3.66	-3.10	3.6
2,286.0	30.50	228.13	2,192.4	-296.9	-323.0	437.1	Q#16	of Oil and Ga	Protection 2.6
2,316.0	29.31	225.71	2,218.4	-307.1	-334.0	452.0 ^V	VV Dept 5.65	nvironmental	-8.07
2,346.0	27.82	223.51	2,244.7	-317.3	-344.0	466.3	6.08	-4.97	-7.33
2,376.0	26.81	220.53	2,271.4	-327.6	-353.2	480.1	5.67	-3.37	-9.9

Survey Report



Company:

HG Energy, LLC

Project:

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore: Design: Wellbore #1 Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(Tiouusit)	(7100usit)	(/ loousity
2,406.0	26.50	221.10	2,298.2	-337.7	-362.0	493.5	1.34	-1.03	1.90
2,436.0	25.62	222.42	2,325.1	-347.6	-370.8	506.7	3.51	-2.93	4.40
2,466.0	25.18	224.61	2,352.2	-356.9	-379.7	519.6	3.46	-1.47	7.30
2,496.0	24.39	225.23	2,379.5	-365.8	-388.6	532.1	2.77	-2.63	2.07
2,526.0	23.60	226.90	2,406.9	-374.3	-397.3	544.3	3.47	-2.63	5.57
2,556.0	23.51	224.92	2,434.4	-382.6	-405.9	556.3	2.65	-0.30	-6.60
2,586.0	22.98	223.82	2,461.9	-391.1	-414.2	568.1	2.28	-1.77	-3.67
2,616.0	22.90	221.01	2,489.6	-399.7	-422.1	579.8	3.66	-0.27	-9.37
2,646.0	23.51	221.93	2,517.2	-408.6	-429.9	591.6	2.37	2.03	3.07
2,676.0	23.51	222.20	2,544.7	-417.5	-438.0	603.6	0.36	0.00	0.90
2,706.0	23.20	224.39	2,572.2	-426.1	-446.1	615.5	3.07	-1.03	7.30
2,736.0	22.90	225.80	2,599.8	-434.4	-454.4	627.2	2.09	-1.00	4.70
2,766.0	23.20	223.39	2,627.4	-442.8	-462.7	638.9	3.30	1.00	-8.03
2,796.0	24.08	229.62	2,654.9	-451.0	-471.4	650.9	8.82	2.93	20.77
2,826.0	25.18	231.03	2,682.2	-459.0	-481.0	663.3	4.16	3.67	4.70
2,856.0	26.50	232.83	2,709.2	-467.1	-491.3	676.2	5.12	4.40	6.00
2,886.0	27.99	235.91	2,735.8	-475.1	-502.5	689.6	6.84	4.97	10.27
2,916.0	28.70	236.21	2,762.2	-483.0	-514.3	703.4	2.41	2.37	1.00
2,946.0	29.09	232.61	2,788.5	-491.4	-526.1	717.6	5.94	1.30	-12.00
2,976.0	29.00	230.59	2,814.7	-500.5	-537.5	732.0	3.28	-0.30	-6.73
3,006.0	28.61	228.30	2,841.0	-509.9	-548.5	746.3	3.90	-1.30	-7.63
3,036.0	28.21	223.69	2,867.4	-519.8	-558.7	760.6	7.43	-1.33	-15.37
3,066.0	26.89	217.49	2,894.0	-530.3	-567.8	774.4	10.52	-4.40	-20.67
3,096.0	25.62	209.50	2,920.9	-541.3	-575.1	787.5	12.51	-4.23	-26.63
3,126.0	25.00	203.91	2,948.1	-552.8	-580.9	799.8	8.23	-2.07	-18.63
3,156.0	24.52	197.01	2,975.3	-564.5	-585.2	811.5	9.76	-1.60	-23.00
3,186.0	23.99	192.09	3,002.7	-576.4	-588.3	822.4	6.96	-1.77	-16.40
3,203.0	23.78	190.45	3,018.2	-583.2	-589.7	828.3	4.10	-1.24	-9.65
3,216.0	23.51	188.31	3,030.1	-588.3	-590.5	832.6	6.92	-2.08	-16.46
3,246.0	23.29	182.60	3,057.7	-600.2	-591.7	842.2	7.59	-0.73	-19.03
3,276.0	22.98	178.60	3,085.2	-612.0	-591.8	850.9	5.34	-1.03	-13.33
3,306.0	22.59	174.91	3,112.9	-623.6	-591.1	859.1	4.94	-1.30	-12.30

Survey Annotations					Received
Measured	Vertical Local C				
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	JAN 2 1 2014
802.0 3,362.0	802.0 3,164.7	0.0 -644.5	0.0 -588.0	TIE IN @ 802' MD / 802' TVD TD @ 3362' MD / 3165' TVD	

Survey Report



Company: Project: HG Energy, LLC

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore: Design: Wellbore #1 Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6) WELL @ 1315.0usft (Decker #6)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Checked By:	Approved By:	Date:



HG Energy, LLC

Harrison County, West Virginia W.B. Carpenter #242 W.B. Carpenter #242

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

07 January, 2014

Received

JAN 2 1 2014



Survey Report - Geographic



Company:

Project:

HG Energy, LLC

Harrison County, West Virginia

Site: Well:

W.B. Carpenter #242 W.B. Carpenter #242

Wellbore #1 Wellbore: Wellbore #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6) Grid

Minimum Curvature

EDM 5000.1 Single User Db

Harrison County, West Virginia Project

Map System: Geo Datum: Map Zone:

Universal Transverse Mercator NAD83 West Virginia - HARN

Zone 17N (84 W to 78 W)

System Datum:

Mean Sea Level

W.B. Carpenter #242 Site

Site Position: From:

Lat/Long

Northing: Easting:

14,264,015.98 usft 1,779,517.54 usft

Latitude: Longitude:

39° 16' 38,800 N 80° 30' 30.400 W

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16

Grid Convergence:

0.31

W.B. Carpenter #242 Well

Well Position

+N/-S +E/-W 0.0 usft 0.0 usft Northing: Easting:

14,264,015.98 usft 1,779,517.54 usft Latitude: Longitude:

39° 16' 38.800 N 80° 30' 30.400 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

1,307.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/11/2013	-8.64	66.82	52,317

Wellbore #1 Design **Audit Notes:** 0.0 ACTUAL Tie On Depth: Phase: Version: 1.0 Direction +E/-W +N/-S Vertical Section: Depth From (TVD) (usft) (usft) (°) (usft) 0.0 0.0 222.37 0.0

Date 12/11/2013 Survey Program From To (usft) **Tool Name** Description Survey (Wellbore) (usft) 802.0 3,362.0 MWD (Wellbore #1)

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
802.0	0.00	0.00	802.0	0.0	0.0	14,264,015.98	1,779,517.54	39° 16' 38.800 N	80° 30' 30.400 W
TIE IN @	802' MD / 802	' TVD							
846.0	1.49	126.53	846.0	-0.3	0.5	14,264,015.64	1,779,518.00	39° 16' 38.797 N	80° 30' 30.394 W
876.0	1.89	106.62	876.0	-0.7	1.2	14,264,015.27	1,779,518.79	39° 16' 38.793 N	80° 30' 30.384 W
906.0	1.41	123.32	906.0	-1.1	2.0	14,264,014.92	1,779,519.57	39° 16' 38.789 N	80° 30' 30.374 W
936.0	1.19	171.22	936.0	-1.6	2.4	14,264,014.41	1,779,519.93	39° 16' 38.784 N	80° 30' 30.370 W
966.0	2.02	209.01	966.0	-2.3	2.2	14,264,013.64	1,779,519.72	39° 16' 38.777 N	80° 30' 30.372 W
996.0	3.12	222.90	995.9	-3.4	1.4	14,264,012.58	1,779,518.91	39° 16' 38.766 N	80° 30' 30.383 W
1,026.0	4.22	225.62	1,025.9	-4.8	0.0	14,264,011.21	1,779,517.56	39° 16' 38.753 N	80° 30' 30.400 W
1,056.0	5.41	229.62	1,055.8	-6.5	-1.8	14,264,009.52	1,779,515.70	39° 16' 38.736 N	80° 30' 30.424 W
1,086.0	6.59	230.81	1,085.6	-8.5	-4.3	14,264,007.52	1,779,513.29	39° 16' 38.717 N	80° 30' 30.455 W
1,116.0	7.78	228.39	1,115.4	-10.9	-7.1	14,264,005.08	1,779,510.43	39° 16' 38 693 Ns	80° 30' 30.491 W

Survey Report - Geographic



Company:

HG Energy, LLC

Project:

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore: Design: Wellbore #1 Wellbore #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6) Grid

Minimum Curvature

EDM 5000.1 Single User Db

vey									
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,146.0	8.70	226.33	1,145.0	-13.8	-10.3	14,264,002.17	1,779,507.27	39° 16′ 38.664 N	80° 30' 30.53
1,176.0	9.18	222.81	1,174.7	-17.1	-13.5	14,263,998.84	1,779,504.01	39° 16' 38.631 N	80° 30' 30.57
1,206.0	9.89	219.91	1,204.3	-20.9	-16.8	14,263,995.11	1,779,500.73	39° 16′ 38.595 N	80° 30' 30.61
1,236.0		218.42	1,233.8	-25.0	-20.2	14,263,990.93	1,779,497.33	39° 16′ 38.553 N	80° 30' 30.65
1,266.0		218.33	1,263.2	-29.6	-23.8	14,263,986.41	1,779,493.74	39° 16′ 38.509 N	80° 30' 30.70
1,296.0		221.32	1,292.6	-34.2	-27.7	14,263,981.76	1,779,489.86	39° 16' 38.463 N	80° 30' 30.75
1,326.0	12.39	221.10	1,321.9	-39.0	-31.8	14,263,977.01	1,779,485.70	39° 16′ 38.416 N	80° 30' 30.80
1,356.0	12.92	221.01	1,351.2	-43.9	-36.2	14,263,972.05	1,779,481.39	39° 16' 38.368 N	80° 30' 30.86
1,386.0	13.10	221.71	1,380.4	-49.0	-40.6	14,263,966.98	1,779,476.92	39° 16′ 38.318 N	80° 30' 30.92
1,416.0	13.71	224.70	1,409.6	-54.1	-45.4	14,263,961.92	1,779,472.16	39° 16' 38.268 N	80° 30' 30.98
1,446.0		229.01	1,438.7	-59.0	-50.7	14,263,956.94	1,779,466.84	39° 16' 38.219 N	80° 30' 31.04
1,476.0		233.62	1,467.7	-63.9	-56.8	14,263,952.10	1,779,460.78	39° 16' 38.171 N	80° 30' 31.12
1,506.0		238.72	1,496.5	-68.5	-63.7	14,263,947.44	1,779,453.80	39° 16′ 38.126 N	80° 30' 31.21
1,536.0		239.20	1,525.1	-73.1	-71.4	14,263,942.87	1,779,446.19	39° 16' 38.081 N	80° 30' 31.31
1,566.0		238.41	1,553.7	-77.9	-79.3	14,263,938.06	1,779,438.27	39° 16' 38.034 N	80° 30' 31.41
1,596.0		237.31	1,582.1	-83.0	-87.4	14,263,932.94	1,779,430.11	39° 16' 37.984 N	80° 30' 31.51
1,626.0		233.01	1,610.4	-88.8	-95.7	14,263,927.18	1,779,421.86	39° 16' 37.927 N	80° 30' 31.62
1,656.0		230.33	1,638.4	-95.3	-104.0	14,263,920.63	1,779,413.58	39° 16' 37.863 N	80° 30' 31.72
1,686.0		229.01	1,666.3	-102.5	-112.4	14,263,913.43	1,779,405.11	39° 16' 37.792 N	80° 30' 31.83
1,716.0		228.92	1,694.0	-110.2	-121.2	14,263,905.82	1,779,396.36	39° 16' 37.717 N	80° 30' 31.94
1,746.0		228.13	1,721.5	-118.0	-130.1	14,263,897.98	1,779,387.49	39° 16' 37.640 N	80° 30' 32.06
1,776.0		227.29	1,748.9	-126.3	-139.2	14,263,889.70	1,779,378.39	39° 16' 37.559 N	80° 30' 32.17
1,806.0		227.29	1,776.0	-135.0	-148.6	14,263,880.93	1,779,368.90	39° 16' 37.473 N	80° 30' 32.30
1,836.0			1,802.7	-144.3	-158.5	14,263,871.66	1,779,359.08	39° 16' 37.382 N	80° 30' 32.42
1,866.0		223.60	1,829.3	-154.2	-168.3	14,263,861.75	1,779,349.24	39° 16' 37.284 N	80° 30' 32.55
1,896.0			1,855.7	-164.7	-178.0	14,263,851.32	1,779,339.57	39° 16' 37.181 N	80° 30' 32.67
1,926.0			1,882.1	-175.4	-187.4	14,263,840.53	1,779,330.15	39° 16' 37.075 N	80° 30' 32.79
1,956.0		222.81	1,908.5	-186.1	-196.9	14,263,829.84	1,779,320.67	39° 16' 36.970 N	80° 30' 32.91
1,986.0		224.92	1,934.9	-196.4	-206.7	14,263,819.59	1,779,310.81	39° 16' 36.869 N	80° 30' 33.04
2,016.0			1,961.2	-206.2	-217.1	14,263,809.75	1,779,300.45	39° 16' 36.773 N	80° 30' 33.17
2,046.0			1,987.5	-215.7	-228.2	14,263,800.31	1,779,289.34	39° 16' 36.680 N	80° 30' 33.31
2,076.			2,013.5	-225.0	-239.9	14,263,790.97	1,779,277.66	39° 16' 36.588 N	80° 30' 33.46
2,106.			2,039.3	-234.6	-251.7	14,263,781.39	1,779,265.83	39° 16' 36,494 N	80° 30' 33.6°
2,136.			2,065.0	-244.5	-263.6	14,263,771.49	1,779,253.99	39° 16' 36.397 N	80° 30' 33.77
2,166.			2,090.6	-254.7	-275.5	14,263,761.30	1,779,242.05	39° 16' 36.297 N	80° 30' 33.92
2,196.			2,116.0	-265.2	-287.5	14,263,750.74	1,779,230.04	39° 16' 36.193 N	80° 30' 34.07
2,226.			2,141.3	-276.1	-299.5	14,263,739.92	1,779,218.06	39° 16' 36.087 N	80° 30' 34.22
2,256.			2,166.7	-286.7	-311.4	14,263,729.32	1,779,206.13	39° 16' 35.982 N	80° 30' 34.38
2,286.			2,192.4	-296.9	-323.0	14,263,719.06	1,779,194.52	39° 16' 35.882 N	80° 30' 34.53
2,200.			2,218.4	-307.1	-334.0	14,263,708.85	1,779,183.59	39° 16' 35.781 N	80° 30' 34.66
2,346.			2,244.7	-317.3	-344.0	14,263,698.64	1,779,173.52	39° 16' 35,681 N	80° 30' 34.79
2,346.		72/2/27/202	2,271.4	-327.6	-353.2	14,263,688.42	1,779,164.30	39° 16' 35.580 N	80° 30' 34.9°
2,406.		200000	2,298.2	-337.7	-362.0	14,263,678.24	1,779,155.50	39° 16' 35.480 N	80° 30' 35.0
2,406.			2,325.1	-347.6	-370.8	14,263,668.40	1,779,146.73	39° 16' 35.383 N	80° 30' 35.1
			2,352.2	-356.9	-379.7	14,263,659.07	1,779,137.87	39° 16' 35.292 N	80° 30' 35.2
2,466.			2,379.5	-365.8	-388.6	14,263,650.17	1,779,128.99	39° 16' 35.204 N	80° 30' 35.36
2,496. 2,526.			2,406.9	-374.3	-397.3	14,263,641.70	1,779,120.21	39° 16' 35.121 N	80° 30' 35.4
			2,434.4	-382.6	-405.9	14,263,633.36	1,779,111.60	39° 16' 85.039 N	80° 30' 35.5
2,556. 2,586.			2,461.9	-391.1	-414.2	14,263,624.90	1,779,103.32	39° 16′ 34.956 N	80° 30' 35.6
			2,489.6	-399.7	-422.1	14,263,616.27	1,779,095.43	39° 16' 34.871 N	80° 30' 35.7
2,616.			2,517.2	-408.6	-429.9	14,263,607.41	1,779,087.61	39° 16' 34.783 N	80° 30' 35.8
2,646.			2,544.7	-417.5	-438.0	14,263,598.53	1,779,079.59	39° 16′ 34.696 N	80° 30' 36.0
2,676.			2,572.2	-426.1	-446.1	14,263,589.87	1,779,071.43	39° 16' 34.611 N	80° 30' 36.1
2,706.			2,599.8	-434.4	-454.4	14,263,581.58	1 770 062 12	30° 16' 34 529 N	80° 30' 36.2
2,736. 2,766.				-442.8	-462.7	14,263,573.22	1,779,053.12 1,779,054.87	39° 16' 34.447 N	80° 30' 36.3

Survey Report - Geographic



Company:

HG Energy, LLC

Project:

Harrison County, West Virginia

Site: Well: W.B. Carpenter #242 W.B. Carpenter #242

Wellbore: Design: Wellbore #1 Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well W.B. Carpenter #242

WELL @ 1315.0usft (Decker #6)

WELL @ 1315.0usft (Decker #6)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,796.0	24.08	229.62	2,654.9	-451.0	-471.4	14,263,564.96	1,779,046.15	39° 16' 34.366 N	80° 30' 36.428
2,826.0	25.18	231.03	2,682.2	-459.0	-481.0	14,263,556.98	1,779,036.52	39° 16' 34.288 N	80° 30' 36.55
2,856.0	26.50	232.83	2,709.2	-467.1	-491.3	14,263,548.92	1,779,026.23	39° 16' 34.208 N	80° 30' 36.68
2,886.0	27.99	235.91	2,735.8	-475.1	-502.5	14,263,540.93	1,779,015.06	39° 16' 34.130 N	80° 30' 36.82
2,916.0	28.70	236.21	2,762.2	-483.0	-514.3	14,263,532.98	1,779,003.25	39° 16' 34.052 N	80° 30' 36.97
2,946.0	29.09	232.61	2,788.5	-491.4	-526.1	14,263,524.54	1,778,991.47	39° 16' 33.969 N	80° 30' 37.12
2,976.0	29.00	230.59	2,814.7	-500.5	-537.5	14,263,515.50	1,778,980.05	39° 16' 33.880 N	80° 30' 37.27
3,006.0	28.61	228.30	2,841.0	-509.9	-548.5	14,263,506.10	1,778,969.07	39° 16' 33.788 N	80° 30' 37.41
3,036.0	28.21	223.69	2,867.4	-519.8	-558.7	14,263,496.19	1,778,958.81	39° 16' 33.691 N	80° 30' 37.54
3,066.0	26.89	217.49	2,894.0	-530.3	-567.8	14,263,485.68	1,778,949.78	39° 16' 33.587 N	80° 30' 37.65
3,096.0	25.62	209.50	2,920.9	-541.3	-575.1	14,263,474.65	1,778,942.45	39° 16' 33.479 N	80° 30' 37.75
3,126.0	25.00	203.91	2,948.1	-552.8	-580.9	14,263,463.21	1,778,936.69	39° 16' 33.366 N	80° 30' 37.82
3,156.0	24.52	197.01	2,975.3	-564.5	-585.2	14,263,451.46	1,778,932.30	39° 16' 33.250 N	80° 30' 37.88
3,186.0	23.99	192.09	3,002.7	-576.4	-588.3	14,263,439.54	1,778,929.20	39° 16' 33.132 N	80° 30' 37.92
3,203.0	23.78	190.45	3,018.2	-583.2	-589.7	14,263,432.79	1,778,927.85	39° 16' 33.066 N	80° 30' 37.94
3,216.0	23.51	188.31	3,030.1	-588.3	-590.5	14,263,427.65	1,778,927.00	39° 16' 33.015 N	80° 30' 37.95
3,246.0	23.29	182.60	3,057.7	-600.2	-591.7	14,263,415.80	1,778,925.87	39° 16' 32.898 N	80° 30' 37.96
3,276.0	22.98	178.60	3,085.2	-612.0	-591.8	14,263,404.02	1,778,925.74	39° 16' 32.781 N	80° 30' 37.97
3,306.0	22.59	174.91	3,112.9	-623.6	-591.1	14,263,392.43	1,778,926.40	39° 16' 32.666 N	80° 30' 37.96
3,362.0	22.02	167.77	3,164.7	-644.5	-588.0	14,263,371.45	1,778,929.58	39° 16' 32.459 N	80° 30' 37.9

Design Annotat	ions				
	Measured	Vertical	Local Coordinates		
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
	3,362.0	3,164.7	-644.5	-588.0	TD @ 3362' MD / 3165' TVD

Checked By:	Approved By:	Date:	
Oncomod Dy.			

Received

JAN 2 1 2014

W.B. Carpenter #242 Harrison County, West Virginia Q130709 & AM-13690 Design #2

Company Name: HG Energy, LLC W.B. Carpenter #242 Harrison County, West Virginia Rig: Original Well Elev Created By: TIFFANI MIZELL Date: 08/30/2013

WELL DETAILS: W.B. Carpenter #242

+N/-S +E/-W Ground Level: 1307.0 +N/-S +E/-W Northing Easting Latitude Longitude 0.0 0.0 28476.24 1714526.2039* 16* 38.800 N80* 30* 30.400 W

PROJECT DETAILS: Harrison County, West Virginia

Geodetic System: Datum: Ellipsoid: Zone: System Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) Clarke 1866 West Virginia North 4701 Mean Sea Level

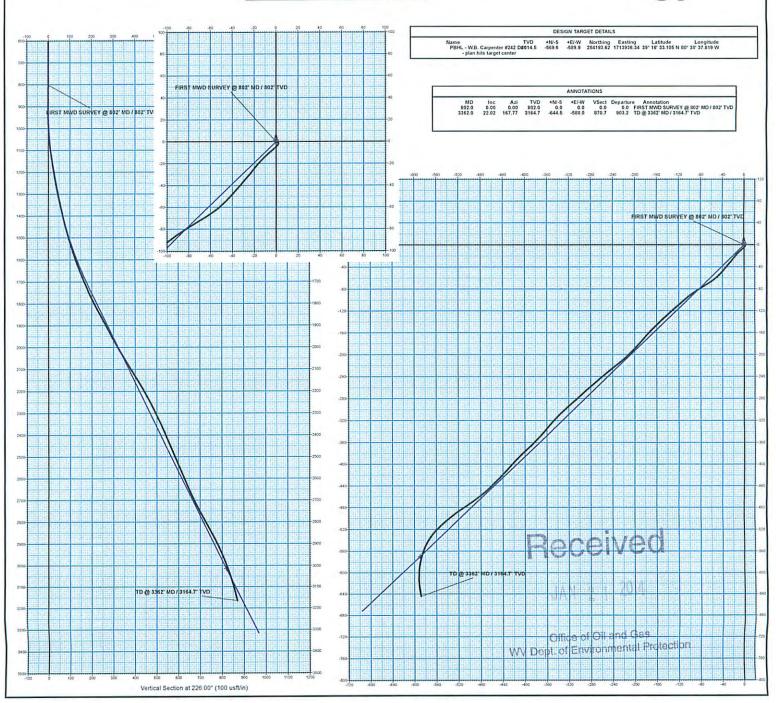
Azimuths to Grid North

Correction: -7.99°

Magnetic Field Strength: 52357.2snT Dip Angle: 66.85° Date: 8/14/2013 Model: IGRF2010



HG Energy



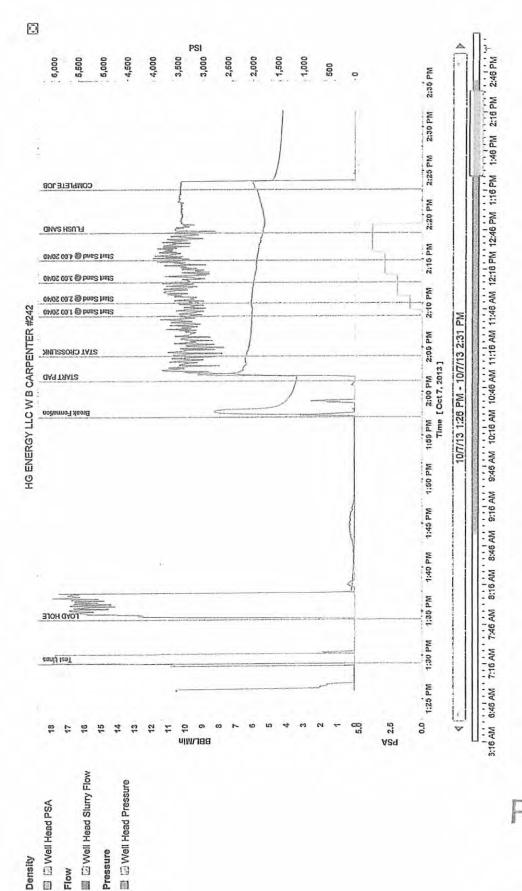


Field Ticket - (This is not an invoice)		End Date -			Date -			
Customer		Customer No.			Project No. 1177501941			
	HG ENERGY LLC		5069		Task No.			
	5260 DUPONT RD	AFE / PO No.			Formation	40.00		
						Upper Devonlan	<u> </u>	
	PARKERSBURG, WV, 26101	Job Type	Job Type Descrip		Operator Nama			
		Frac		LINK FRAC	SHIREY		-	
District		Casing	New/Used	Siza	From	То	Weight	
	Wooster					1		
		Tubing						
Well Name and	No.			Arrived on Location		Left Location		
VB CARPENTE		Open Hole		Time	Date	Time	Date	
Nell Type	County: HARRISON	Perforations				No. of Shots		
Gas	Township:	Perforations				No. of Shots		
State	API#	Perforations		Dritting Contractor		No. of Shots		
wv	47-033-05751	Depth	Depth			Max PSI Allowed		
Product	Description	Unit of	Quantity	List	Gross	Item	Net Amount	
Code		Measure		Price/Unit	Amount	Discount		
800051	Transport Delivery Charge (4 Hr Minimum), Per Hr	Hrs	4,000					
800070	Proppant and Bulk Delivery Charges, Per Ton Mile	TM	350.000					
802308	Minimum Pump Charge, <1500 HP, 1st 4 Hrs	Ea	1 000					
803401	0 - 10 BPM Computerized Blender, 1st 4 Hrs	Ea	1 000					
005520	Frac Ball Dropping Head	Ea	1.000					
810010	Treatment Van, (WINFRAC Data Monitoring or Similar)	Job	1.000					
820035	Unihib G	Gal	0.500					
820505	LEB 10X - Lquid Enzyme Breaker	Qts	2 200					
820815	EC6116A, BACTERIACIDE	Gal	2.000					
820955	Cla-Chek G	Gal	16 900					
821125	Uniink 8.5 Crosslinker (Borate)	Gal	16.600					
822235	Unigel 19 XL	Lb	300 000					
822935	NE-90, Non-Emulsifier (Non-Ionic)	Gal	8 400					
827945	15% Iron Chek Acid	Gal	300.000					
833000	20-40 mesh White Sand, Area 1	CWT	100.000					
837000	Proppant Pumping Charge, 20/40 mesh or smaller	CWT	100.000					
00,000	Toppart triping Gradge, 2016 from 61 emission							
					Ĺ	0.00%		
	Mileson Calculation Seation	Unit of	Quantily	ListPries/Un2	Gross Amount	0.00%		
	Mileage Calculation Section	Measure	Quantity	ListPrice/Unit	Gross Amount			
800000	Mileage Calculation Section Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile		Quantity	ListPrice/Unit \$8.25 Tetal (Qly)	Gross Amount	0.00%		
	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile	Measure Mi UNITS	Quantity	\$8.25 Total (Qty)	Gross Amount	0.00%		
800000		Measure Mi	Quantity	\$8.25 Total (Qty) \$2.59	Gross Amount	0.00%		
	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS	Quantity	\$8.25 Total (Qty)	Gross Amount	0.00%		
	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile	Measure Mi UNITS TM Loaded Total Miles	Quantity	\$8.25 Total (Qty) \$2.50 Total Stoke	Gross Amount	0.00%		
690970	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS TM Loaded Total Miles TM		\$8.25 Total (Qty) \$2.50 Total Stoks	Gross Amount	0.00%		
800070	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS TM Loaded Total Miles		\$8.25 Total (Qty) \$2.50 Total Stoke	Gross Amount	0.00%		
800070 860050	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total		\$6.25 Tetal (Qty) \$2.50 Tetal Sacks \$2.20 Total Loaded	Gross Amount	0.00%		
800070 860050	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total		\$6.25 Tetal (Qty) \$2.50 Tetal Sacks \$2.20 Total Loaded	Gross Amount	0.00%		
890070	Proppant and Bulk Delivery Charges, Per Ton Mile Cement Delivery Charge X	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total		\$6.25 Tetal (Qty) \$2.50 Tetal Sacks \$2.20 Total Loaded	Gross Amount	0.00%		
600070 860050	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile Proppant and Bulk Delivery Charges, Per Ton Mile	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total Miles	resentativo	\$6.25 Tetal (Qty) \$2.5) Total Sacks \$2.20 Total Loaded Weight (LBS)		0.00% Item Discount		
E60050 Domments:	Proppant and Bulk Delivery Charges, Per Ton Mile Cement Delivery Charge Customer Authorized Agent Signature Customer Authorized Agent Signature cristood and agreed to the terms and conditions printed on the second	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total Miles Customer Repr	resentativo	\$6.25 Tetal (Qty) \$2.5) Total Sacks \$2.20 Total Loaded Weight (LBS)		0.00% Item Discount		
E60050 Domments:	Proppant and Bulk Delivery Charges, Per Ton Mile Cement Delivery Charge X CUSTOMER AUTHORIZED AGENT SIGNATURE	Measure Mi UNITS TM Loaded Total Miles TM Loaded Total Miles Customer Repr	resentativo	\$6.25 Tetal (Qty) \$2.5) Total Sacks \$2.20 Total Loaded Weight (LBS)	Gross Amount	0.00% Item Discount		

	TREA	TMENT S	UMMARY		
Customer Name:	HG ENERGY LLC		DA'	E: NOV 7	TH 2013
Well Name:	WB CARPENTER #242				
	PRESSURES IN PSI		CL	EAN VOL	UMES IN GAL
BREAKDOWN			TOP PERF TVD_		PAD
AVERAGE 1996			BTM PERF TVD_		and the contract of the contra
INSTANT _	1624 5-MIN 1454 10	MIN 1406	TREATMENT_		TTL VOL
	HYDRAULIC HORSEPOWER			RATES I	IN B.P.M.
USED			AVG TREATING_	10.4	MAXIMUM
DESCRIPTION OF JO	OB	WATER SA	AND FRAC W N/2 ASS	IST	

ESCRIPTION OF	- JOB	WATER	SAND FRAC W N/2 /	55151	
Time	Rate (bpm)	Slurry Volume (gal)	Pressure (psi)	Description of Stage or Event	
13;23				SAFETY MEETING	
13;25				PU PUMPS	
13;41				TEST LINES	
13;42	5	300///1870 H2O	VACUUM	PUMP ACID - LOAD HOLE	
13;58	2	1875	2775	BREAK FORMATION	
14;02	10	1875	2241	EST RATE/PAD	
14;05	9.9	3177	2199	START CROSSLINK	
14;09	9.5	4957	2035	SAND 1 PSA	
14;10	10.5	5566	2045	SAND 2PSA	
14;13	9.9	6,606	1988	SAND 3PSA	
14;16	11.1	7,700	1916	SAND 4 PSA	
14;19	10.2	9,120	1788	FLUSH SAND	
14;23	10	11199	1624	COMPLETE JOB	
			1454	5 MIN SHUT IN	
			1406	10 MIN SHUT IN	
12;33			1380	15 MININ SHUT	
		Total	Sks Sks		
Sand	20/40		SAS		
Chemicals	Unigel 5F		Lbs		
onomio	LEB 10X Breaker		Qts	G	
	SuperSurf		Gals) Tr	
	FloMax 50		Gals	I I I I I I I I I I I I I I I I I I I	
	Cla Chek		Gals	UNIVERS L	
	Iron Sta IIC		Gals	WELL SERVICES, INC. E	
				Receive	
				HECEIVE	
	15% HCL		Gals		

JAN 2 1 2014



■ Well Head PSA

Received