

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>					<b>1. WELL NAME and NUMBER</b> Dart #1-12-3-2		
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>					<b>3. FIELD OR WILDCAT</b> WILDCAT		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO					<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>		
<b>6. NAME OF OPERATOR</b> HARVEST (US) HOLDINGS, INC					<b>7. OPERATOR PHONE</b> 281 899-5722		
<b>8. ADDRESS OF OPERATOR</b> 1177 Enclave Parkway, Houston, TX, 77077					<b>9. OPERATOR E-MAIL</b> jmckee@harvestnr.com		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee</b>		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Bruce Dart and Chona P. Dart					<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 435-7227087		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> Rt. 2 Box 2044, Roosevelt, UT 84066					<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>	
<b>LOCATION AT SURFACE</b>	1510 FNL 1342 FWL	SE	12	3.0 S	2.0 W	U	
<b>Top of Uppermost Producing Zone</b>	1510 FNL 1342 FWL	SE	12	3.0 S	2.0 W	U	
<b>At Total Depth</b>	1510 FNL 1342 FWL	SE	12	3.0 S	2.0 W	U	
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1342		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 40			
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 0		<b>26. PROPOSED DEPTH</b> MD: 11500 TVD: 11500			
<b>27. ELEVATION - GROUND LEVEL</b> 5308		<b>28. BOND NUMBER</b> B004657		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Neil Moon Pond			

**ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Don Hamilton	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)	<b>PHONE</b> 435 719-2018
<b>SIGNATURE</b>	<b>DATE</b> 08/17/2010	<b>EMAIL</b> starpoint@etv.net
<b>API NUMBER ASSIGNED</b> 43013504180000	<b>APPROVAL</b>  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Cond	26	20	0	60		
Pipe	Grade	Length	Weight			
	Grade X-42 Casing/Tubing	60	0.25			

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Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
I1	12.25	9.625	0	3000		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	3000	36.0			

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<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	8.5	5.5	0	11500		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade P-110 LT&C	11500	23.0			

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<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	17.5	13.375	0	500		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade H-40 ST&C	500	48.0			

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**HARVEST (US) HOLDINGS, INC.**

**Dart #1-12-3-2**  
 Section 12-T3S-R2W  
 Duchesne County, Utah

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

UINTAH 0'  
 GREEN RIVER 3,946'  
 UTELAND BUTTE 8,686'  
 WASATCH 9,090'  
 TD 11,500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS**

Wasatch (Oil & Gas) 8,686' – 11,500'

Fresh water may be encountered in the Uintah Formation, but would not be expected below about 500'.

**4. PROPOSED CASING PROGRAM**

**a. Casing Design:**

Size	Interval		Wt	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Conductor 20" Hole size 26"	0'	60'	0.25 WT	X-42	A53B	N/A	N/A	N/A
Surface 13 3/8" Hole Size 17 1/2"	0'	500'	48.0	H-40	STC	1,730 psi 7.92 SF	740 psi 3.39 SF	322,000 lbf 13.41 SF
Intermediate 9 5/8" Hole Size 12 1/4"	0'	3,000'	36	J-55	LTC	3,520 psi 1.88 SF	2,020 psi 1.44 SF	453,000 lbf 4.84 SF
Production 5 1/2" Hole Size 8 1/2"	0'	11,500'	23	P-110	LTC	13,580 psi 1.19 SF	14,540 psi 1.99 SF	643,000 lbf 2.51 SF

**Assumptions:**

- 1) Surface casing Maximum Allowable Surface Pressure (MASP) = Fracture gradient - Gas gradient
- 2) Production casing MASP (production mode) = Pore pressure - gas gradient
- 3) All collapse calculations assume fully evacuated casing w/gas gradient
- 4) All tension calculations assume air weight
  - Fracture gradient at surface casing shoe = 12.0 ppg
  - Pore pressure at surface casing shoe = 8.33 ppg

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Pore pressure at production casing shoe = 11.5 ppg  
 Gas gradient = 0.115 psi/ft  
 Frac gradient = 0.93 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.

**b. Cementing Design:**

Job	Fill	Description	Sacks	OH Excess	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Conductor casing 20"	60' to surface	Class G w/ 2% CaCl	135	50%	15.8	1.15
			155			
Surface casing 13 3/8"	500' to surface	Premium G w/ 2% CaCl, ¼ lb/sk Flocele	600	50%	15.8	1.15
			690			
Intermediate casing 9 5/8" Lead	2500' to surface	Premium Type V w/ 16% gel, 10 lbs/sk gilsonite, 3% salt, 3 lbs/sk GR 3, ¼ lb/sk Flocele	300	40%	11.0	3.82
			1146			
Intermediate casing 9 5/8" Tail	3000' to 2500'	Premium G w/ 2% CaCl, ¼ lb/sk Flocele	100	50%	15.8	1.15
			115			
Production casing 5 ½" Lead	7000' to surface	Light Premium w/ 2% gel, 6 lbs/sk light weight additive, 0.125 lb/sk lost circulation additive	712	30%*	11.5	2.77
			1971			
Production casing 5 ½" Tail	11500' to 7000'	50/50 Poz Premium w/ 2% expander, 0.3% fluid loss control, 0.3% retarder	956	30%*	14.3	1.29
			1234			

- \*Actual volume pumped will be 15% over the caliper log.
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours.
- Compressive strength of tail cement: 2500 psi @ 24 hours

Waiting on Cement (WOC): A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 9-5/8" surface casing shall, in all cases, be cemented back to surface. In the event that during the primary surface cementing operation, the cement does not circulate to surface, or if the cement level should fall back more than 8' from surface, then a remedial surface

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cementing operation shall be performed to ensure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200' above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable pre-flush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 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.

**5. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS**

<i>Depth</i>	<i>Type</i>	<i>Weight</i>	<i>Vis</i>	<i>API Fluid Loss</i>
0-80'	Air or Water	8.33	N/A	N/A
80-500'	Air or Water/Gel Sweeps	8.4-8.6	45-55	N/C
500'-3,000'	Gel w/ fluid loss ctl	8.8-9.0	45-60	8-10
3,000'-11,500'	Water Base Mud	9.0-11.5	45	2-3

From surface to 500' feet will be drilled with air or fresh water and gel sweeps. From 500'-3,000', when hole conditions dictate, air or a fresh water gel system will be utilized. From 3,000' to Total Depth (TD), a Water Base Mud will be used. This system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight at TD is 11.5 ppg.

**6. AUXILIARY SAFETY EQUIPMENT TO BE USED**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

**7. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

The Company's minimum specifications for pressure control equipment for a standard Green River/Wasatch well are as follows:

A 5000 psi WP hydraulic BOP stack consisting of a double ram preventer and 3000 psi WP annular preventer will be installed before drilling beneath 9 5/8" surface casing.

Connections – All components on the stack and choke and kill lines shall have either flanged, studded, clamp hub or equivalent proprietary connections except control line outlets and pressure gauges.

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Choke Manifold – The minimum equipment requirements are shown below. The choke manifold shall be located at least 5 feet from the BOP stack, outside the substructure.

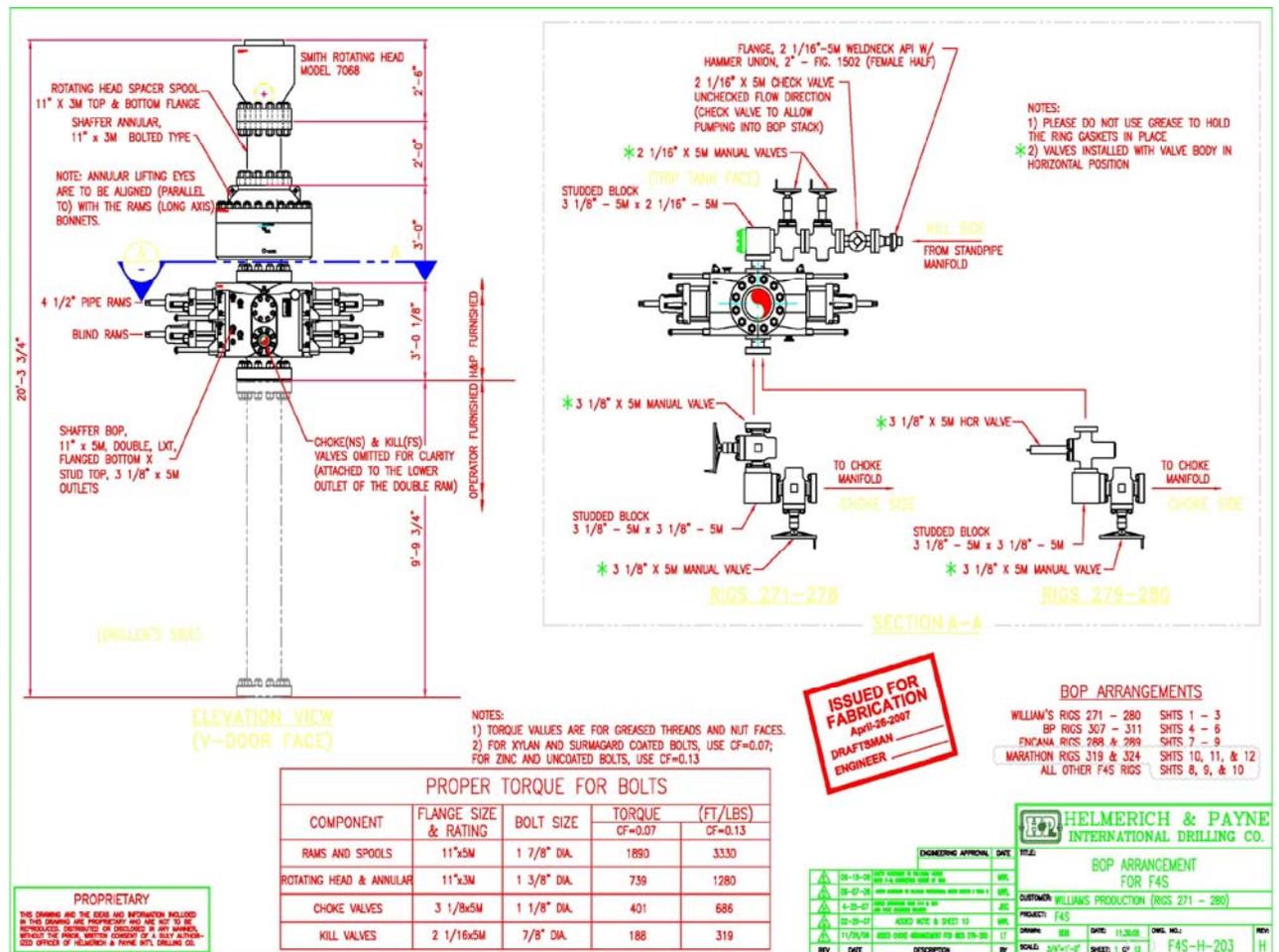
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

Drill String Control Devices – An upper and lower Kelly valve, drill string safety valve, including correct closing handle, and an inside BOP shall be provided. The safety valve and inside BOP shall have connections or crossovers to fit all tubulars with OD to allow adequate clearance for running in the hole. All drill string valves shall be rated to the required BOP working pressure.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 (BLM) for equipment and testing requirements, procedures, etc., for a 5000 psi system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Daily report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling.



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**8. TESTING, LOGGING AND CORING PROGRAMS**

**a. Logging Program:**

QUAD COMBO – TLD/CNL/DSI/SP/GR TD – 3,000'

CBL: A cement bond log will be run from 7,800' to the cement top of the production casing, calculated to be ground level.

Note: The log types run may change at the discretion of the geologist.

**b. Cores:** No cores planned

**c. Drill Stem Tests:** No DSTs are planned in the Green River or Wasatch formations

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

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**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE**

Abnormal pressures and temperatures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottom hole pressure will be 0.598 psi/foot of depth.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Anticipated Commencement Date:	15 October 2010
Drilling Days:	Approximately 40
Completion Days:	Approximately 21

**11. CONTACT INFORMATION:**

Buys & Associates, Inc.  
Don Hamilton/Regulatory Specialist  
435-719-2018 Office  
435-719-2019 Fax  
435-650-3866 Cell  
starpoint@etv.net

Please use the above mentioned contact for any questions or concerns regarding the Form 3 Application for Permit to Drill, Drilling Plan or scheduling the onsite inspection. If the above mentioned contact is not available you may reach the following person:

Harvest (US) Holding, Inc.  
Jeff Schrutka  
Drilling & Completion Manager  
281-899-5743 Office  
281-770-6765 Cell  
bberry@harvestnr.com

**HARVEST (US) HOLDINGS, INC.**

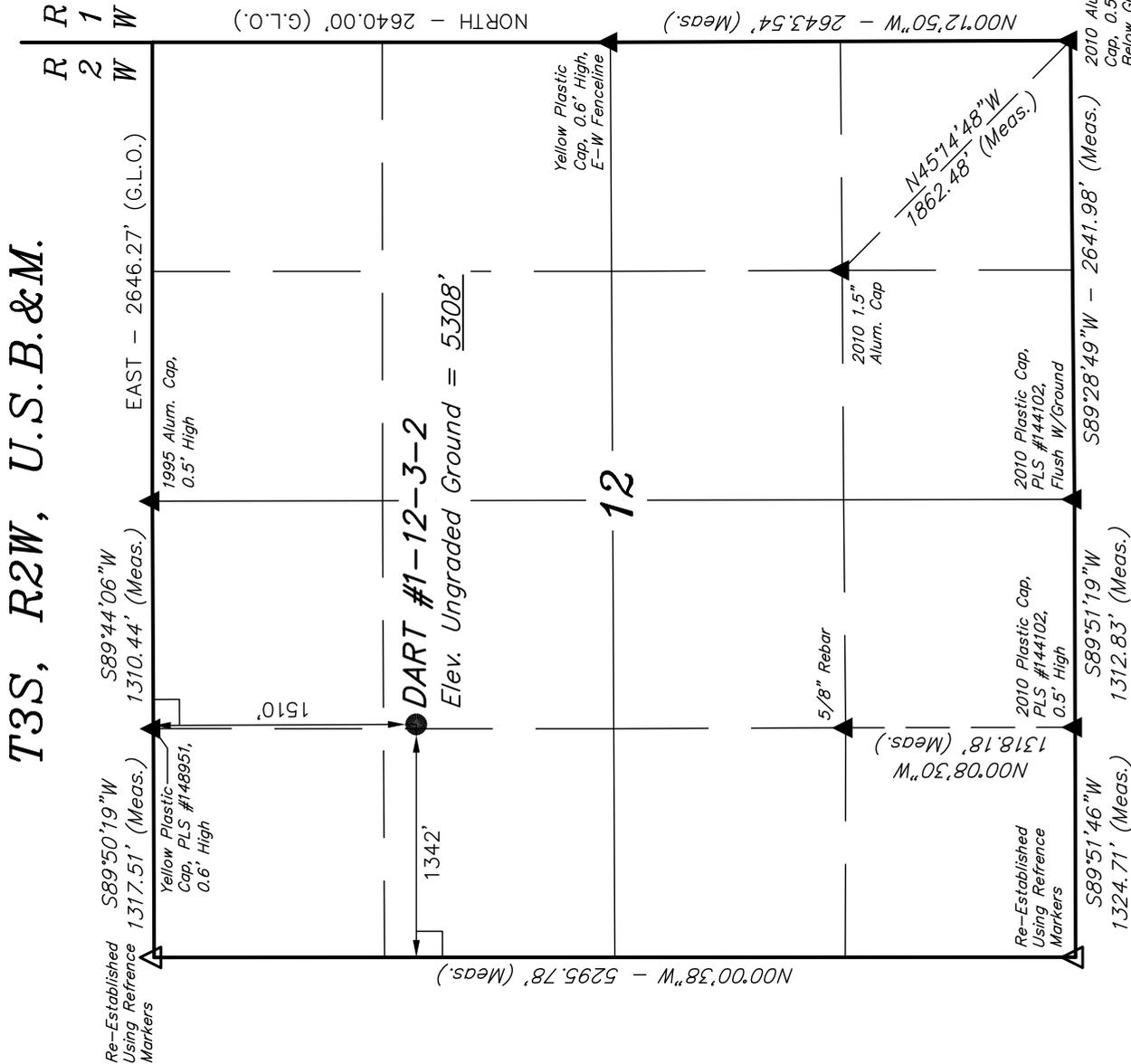
Well location, DART #1-12-3-2, located as shown in the SE 1/4 NW 1/4 of Section 12, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

**BASIS OF ELEVATION**

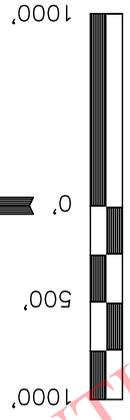
SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

**BASIS OF BEARINGS**

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



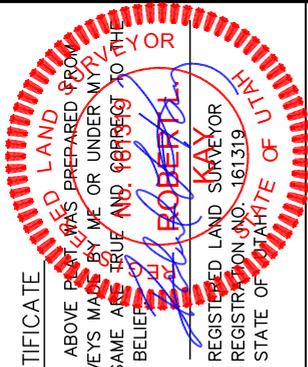
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S C A L E

**CERTIFICATE**

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



ROBERT L. KAY  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

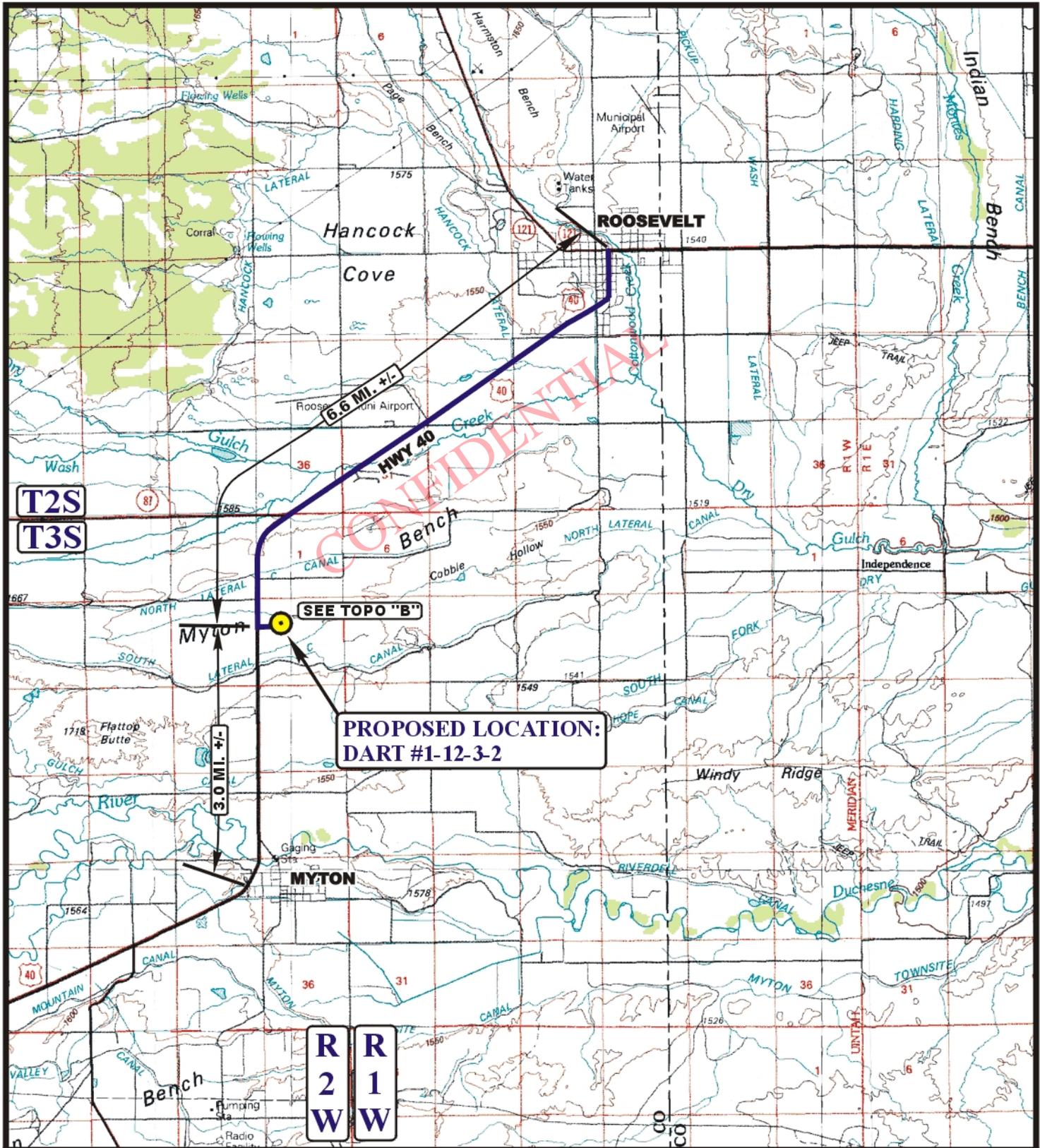
Revised: 09-15-10

<b>UTAH ENGINEERING &amp; LAND SURVEYING</b>	
85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 07-22-10
PARTY M.A. B.A. K.G.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°14'23.70" (NAD 83)	(40.239917)
LONGITUDE = 110°03'45.05" (NAD 27)	(110.062514)
LATITUDE = 40°14'23.85" (NAD 83)	(40.239958)
LONGITUDE = 110°03'42.51" (NAD 27)	(110.061808)



**PROPOSED LOCATION:  
DART #1-12-3-2**

**R  
2  
W** **R  
1  
W**

**LEGEND:**

 PROPOSED LOCATION

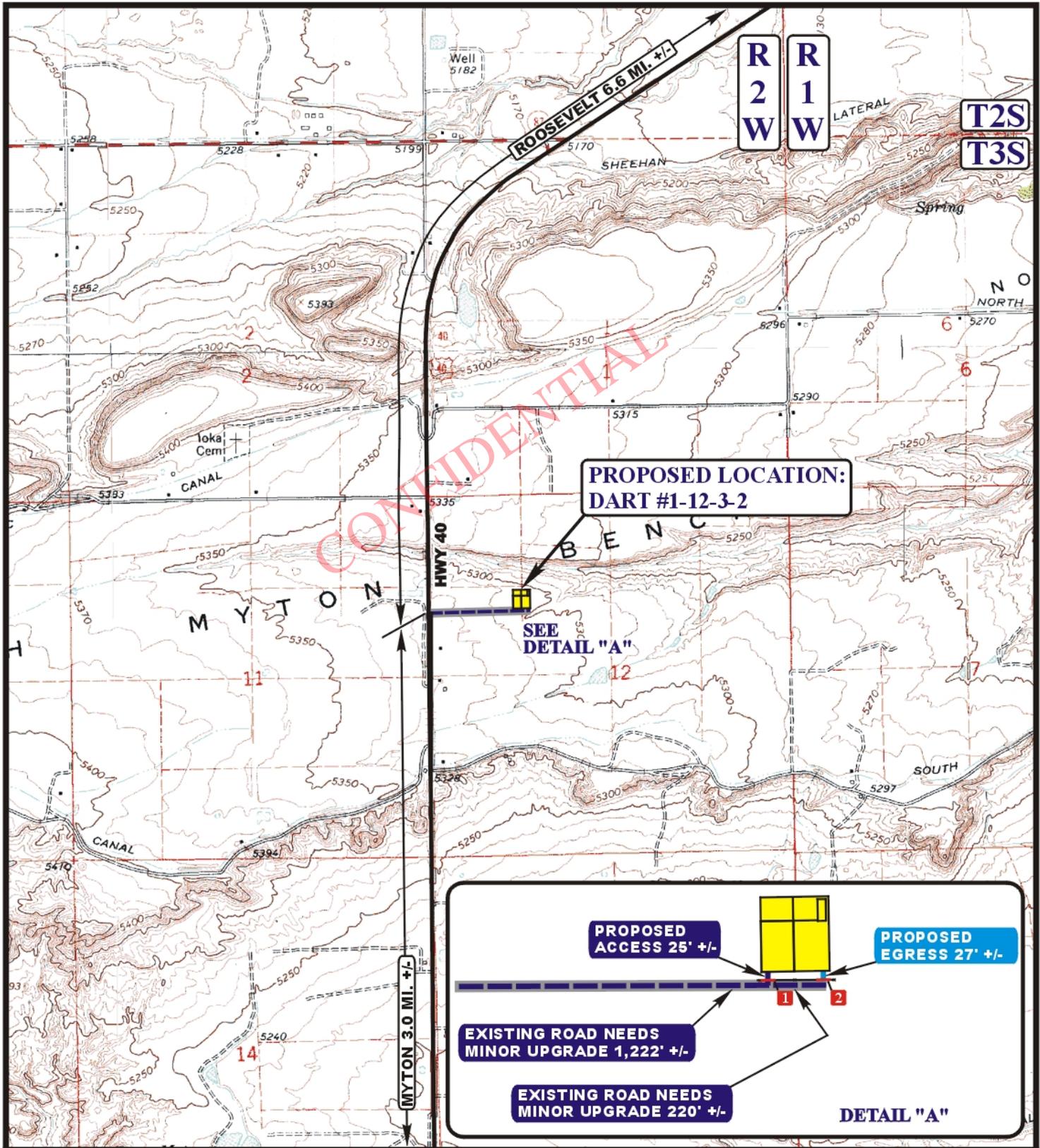
**HARVEST (US) HOLDINGS, INC.**

**DART #1-12-3-2  
SECTION 12, T3S, R2W, U.S.B.&M.  
1510' FNL 1342' FWL**

**UES** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **08** **10** **10**  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 09-16-10 **TOPO**



**LEGEND:** 1 INSTALL CATTLE GUARD 2 INSTALL GATE

- EXISTING ROAD
- - - PROPOSED ACCESS ROAD
- - - PROPOSED EGRESS ROUTE
- EXISTING ROAD NEEDS MINOR UPGRADE
- \* \* \* \* \* EXISTING FENCE



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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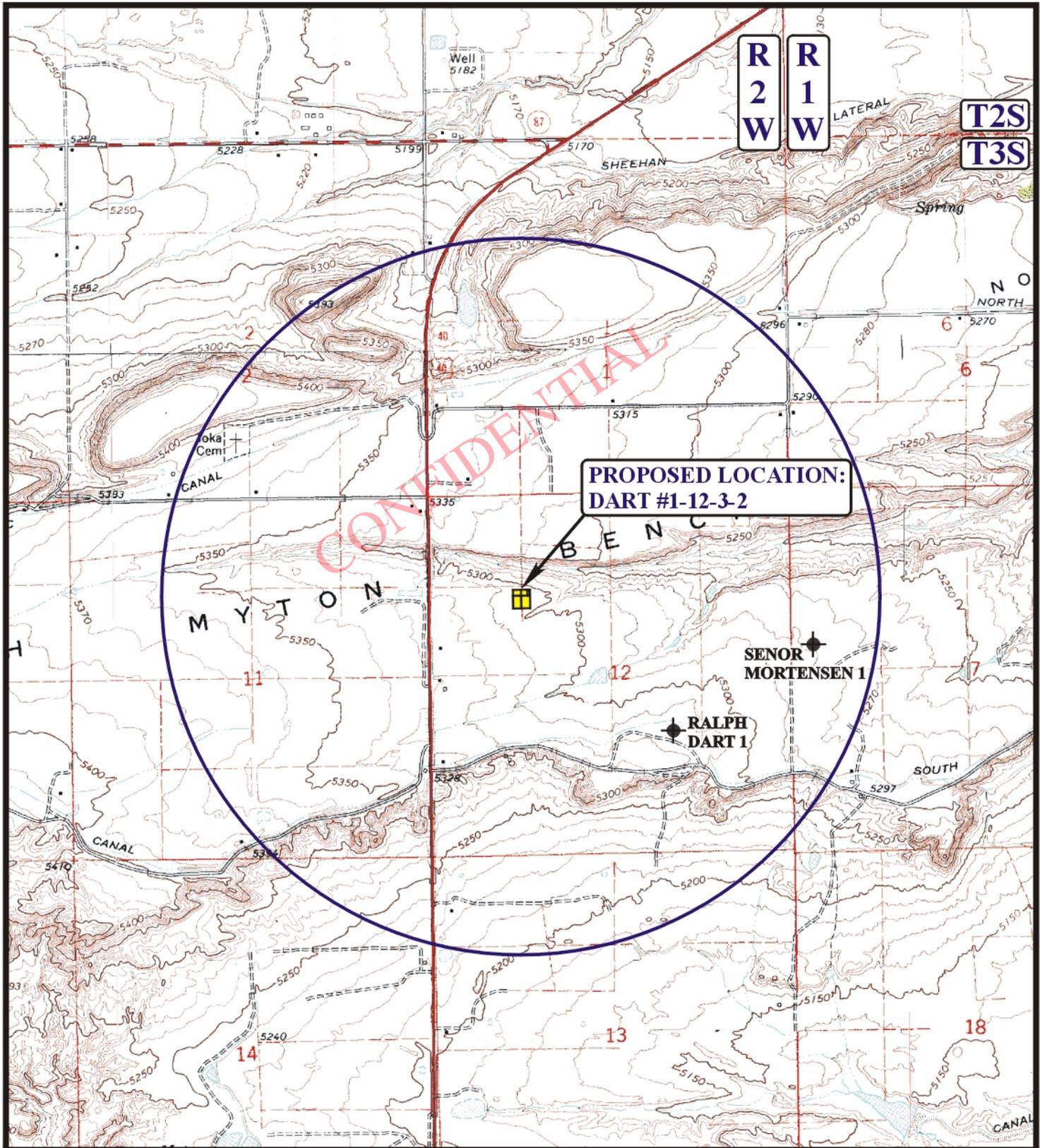
**HARVEST (US) HOLDINGS, INC.**

**DART #1-12-3-2**  
**SECTION 12, T3S, R2W, U.S.B.&M.**  
**1510' FNL 1342' FWL**

**TOPOGRAPHIC** 08 10 10  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 09-16-10





**LEGEND:**

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

**HARVEST (US) HOLDINGS, INC.**

**DART #1-12-3-2**  
**SECTION 12, T3S, R2W, U.S.B.&M.**  
**1510' FNL 1342' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** 08 10 10  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 09-16-10



**MEMORANDUM OF SURFACE DAMAGE RELEASE**

State of Utah                    )  
  )  
County of Duchesne            )

For Ten Dollars (\$10.00) and other adequate consideration, **Bruce Dart and Chona P. Dart, Trustees of the Bruce Dart Trust and Chona P. Dart Trust dated the 10th day of April, 2007, whose address is Rt. 2 Box 2044, Roosevelt, Utah 84066**, hereafter referred to as "Surface Owner" has granted, a Surface Damage Release, to **Harvest (US) Holdings, Inc. of 1177 Enclave Parkway, Suite 300, Houston, Texas 77077**, hereafter referred to as "Harvest", dated ~~July~~ 5, 2010, for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from Dart 1-12-3-2 Well on the following lands (the "Lands") in Duchesne County Utah: **Township 3 South-Range 2 West, USM, Section 12: Part of the SE/4SE/4 Duchesne County**, see attached Plat for well location:

The Surface Damage Release is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Damage Release.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 5<sup>TH</sup> day of August, 2010.

SURFACE OWNER:

Bruce Dart  
**Bruce Dart, Trustee**  
**of the Bruce Dart Trust and the Chona P. Dart Trust dated the 10<sup>th</sup> day of April, 2007.**

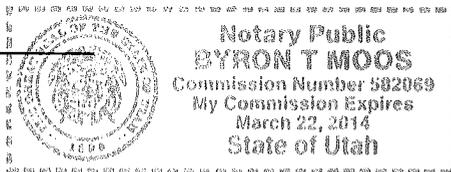
Chona P. Dart  
**Chona P. Dart, Trustee**  
**of the Bruce Dart Trust and the Chona P. Dart Trust dated the 10<sup>th</sup> day of April, 2007.**

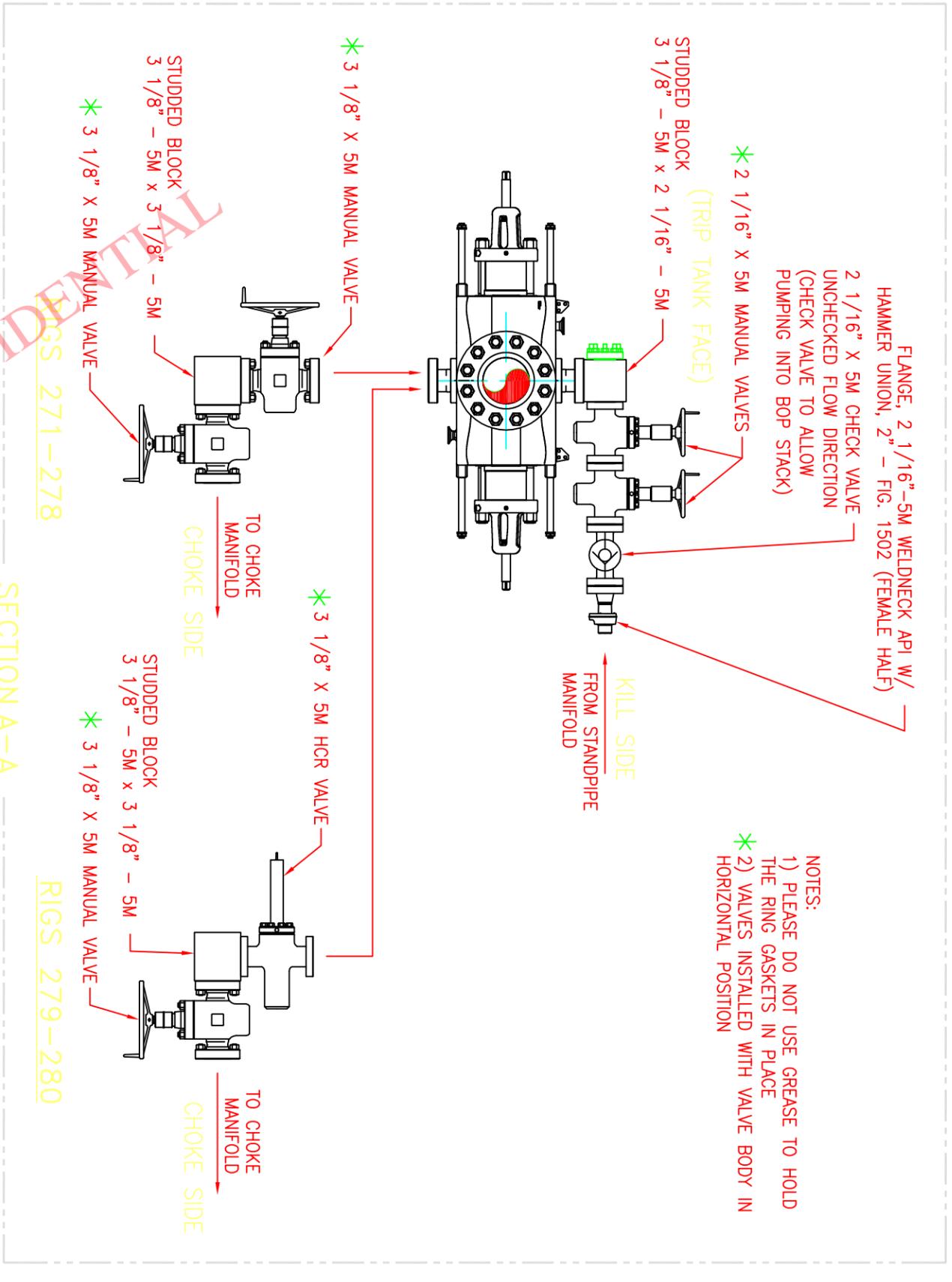
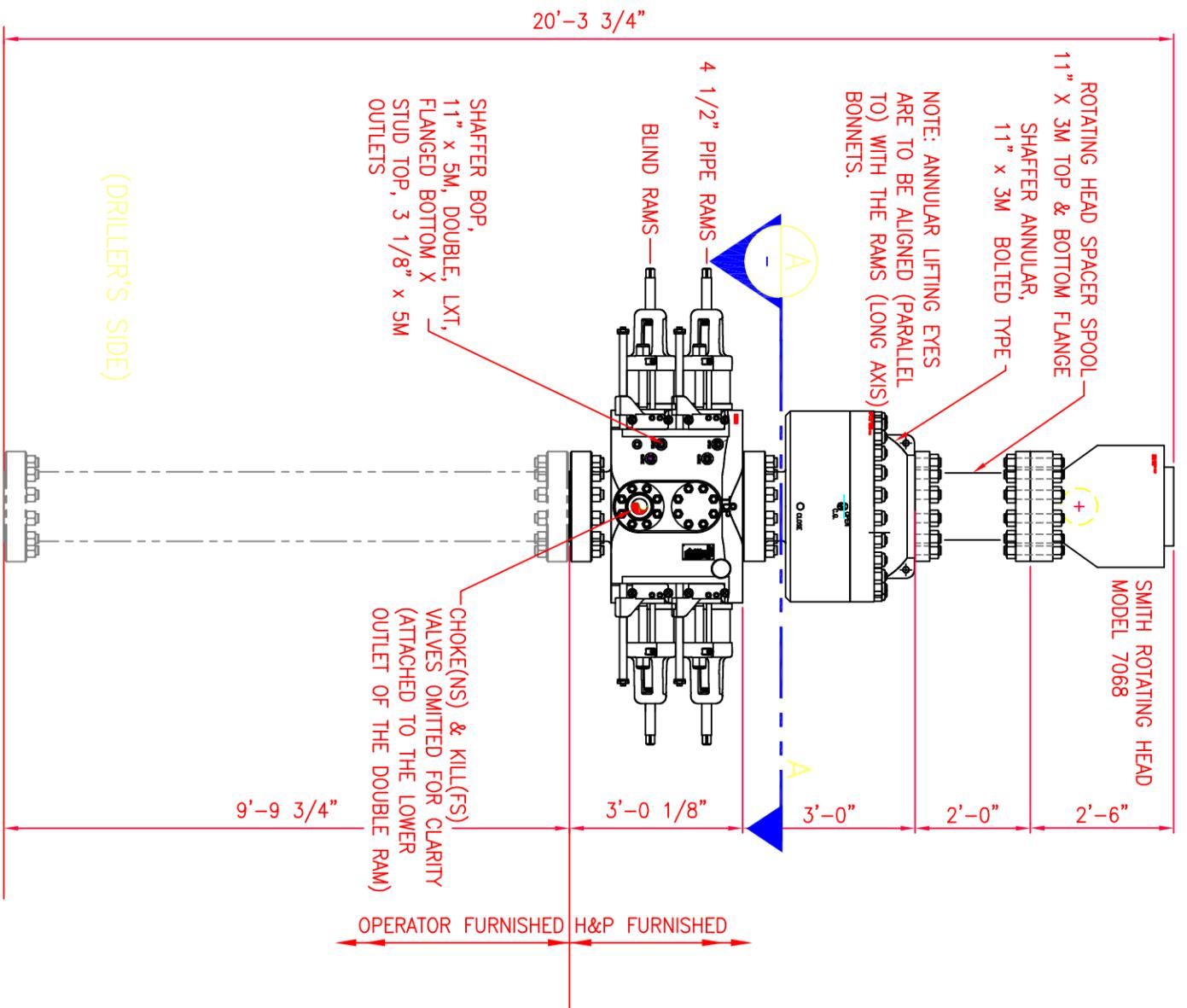
**ACKNOWLEDGEMENT**

STATE OF UTAH                    }  
  }:SS  
COUNTY OF DUCHESNE         }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 5<sup>TH</sup> day of August, 2010, personally appeared **Bruce Dart and Chona P. Dart, Trustees of the Bruce Dart Trust and Chona P. Dart Trust dated the 10th day of April, 2007**, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Byron T. Moos  
Notary Public





NOTES:  
1) TORQUE VALUES ARE FOR GREASED THREADS AND NUT FACES.  
2) FOR XPLAN AND SURMAGARD COATED BOLTS, USE CF=0.07;  
FOR ZINC AND UNCOATED BOLTS, USE CF=0.13

PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE (FT/LBS)	
			CF=0.07	CF=0.13
RAMS AND SPOOLS	1 1/2" x 5M	1 7/8" DIA.	1890	3330
ROTATING HEAD & ANNULAR	1 1/2" x 3M	1 3/8" DIA.	739	1280
CHOKE VALVES	3 1/8" x 5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16" x 5M	7/8" DIA.	188	319

**ISSUED FOR FABRICATION**  
April-26-2007  
DRAFTSMAN \_\_\_\_\_  
ENGINEER \_\_\_\_\_

**BOP ARRANGEMENTS**

WILLIAM'S RIGS 271 - 280	SHTS 1 - 3
BP RIGS 307 - 311	SHTS 4 - 6
ENCANA RIGS 288 & 289	SHTS 7 - 9
MARATHON RIGS 319 & 324	SHTS 10, 11, & 12
ALL OTHER F4S RIGS	SHTS 8, 9, & 10

**HELMERICH & PAYNE**  
INTERNATIONAL DRILLING CO.

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

REV	DATE	DESCRIPTION	ENGINEERING APPROVAL	DATE
1	09-18-06	CRD CUSTOMER TO WILLIAMS ADDS SHTS 7-9, CORRECTED HEIGHT OF RAM	MWL	
2	09-07-06	CRD CUSTOMER TO WILLIAMS PRODUCTION, ADDS SHEETS 2 THRU 6	MWL	
3	4-25-07	ADDED MENTION RIGS 319 & 324 AND P&E NUMBERS REVISED	JBC	
4	02-26-07	ADDED NOTE & SHEET 10	MWL	
5	11/29/06	ADDED CHARGE ARRANGEMENT FOR RIGS 279-280	LT	

TITLE: BOP ARRANGEMENT FOR F4S

CUSTOMER: WILLIAMS PRODUCTION (RIGS 271 - 280)

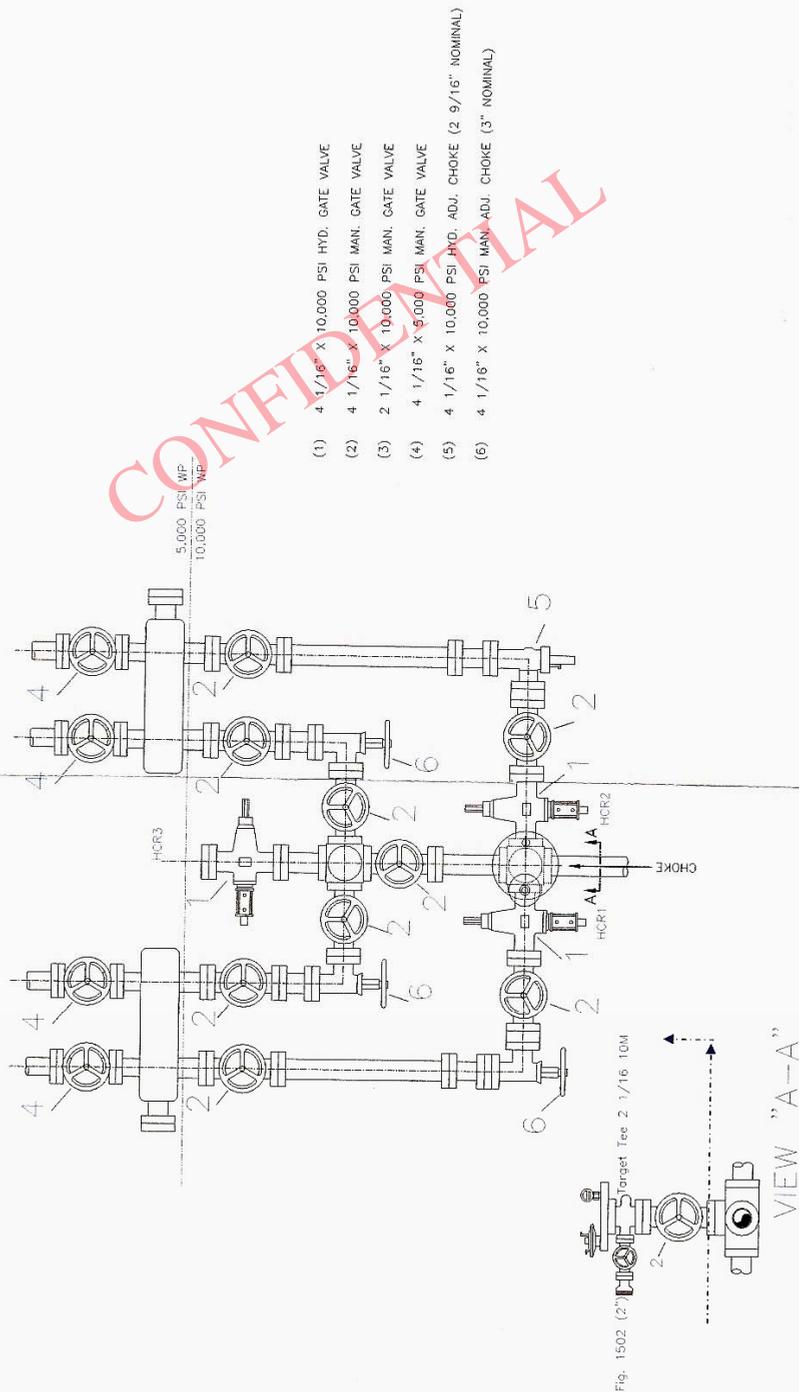
PROJECT: F4S

DRAWN: BOB DATE: 11.30.05 DWG. NO.: F4S-H-203

SCALE: 3/4"=1'-0" SHEET: 1 OF 12

REV: H

**CONFIDENTIAL STATUS**





2580 Creekview Road  
Moab, Utah 84532  
435/719-2018

September 23, 2010

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

RE: Spacing Statement – Harvest (US) Holdings, Inc. – **Dart #1-12-3-2**  
1510' FNL & 1342' FWL, SE/4 NW/4, Section 12, T3S, R2W, SLB&M  
Duchesne County, Utah

Dear Diana:

Harvest (US) Holdings, Inc. respectfully submits the following spacing statement: The referenced well is located within Cause No. 131-51 and is located not less than 1320' to the external boundary of a governmental section. Harvest (US) Holdings, Inc. is the only owner and operator within 460' of the surface and target location as well as all points along the intended well bore path and is 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 me at 435-719-2018 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for Harvest (US) Holdings, Inc.

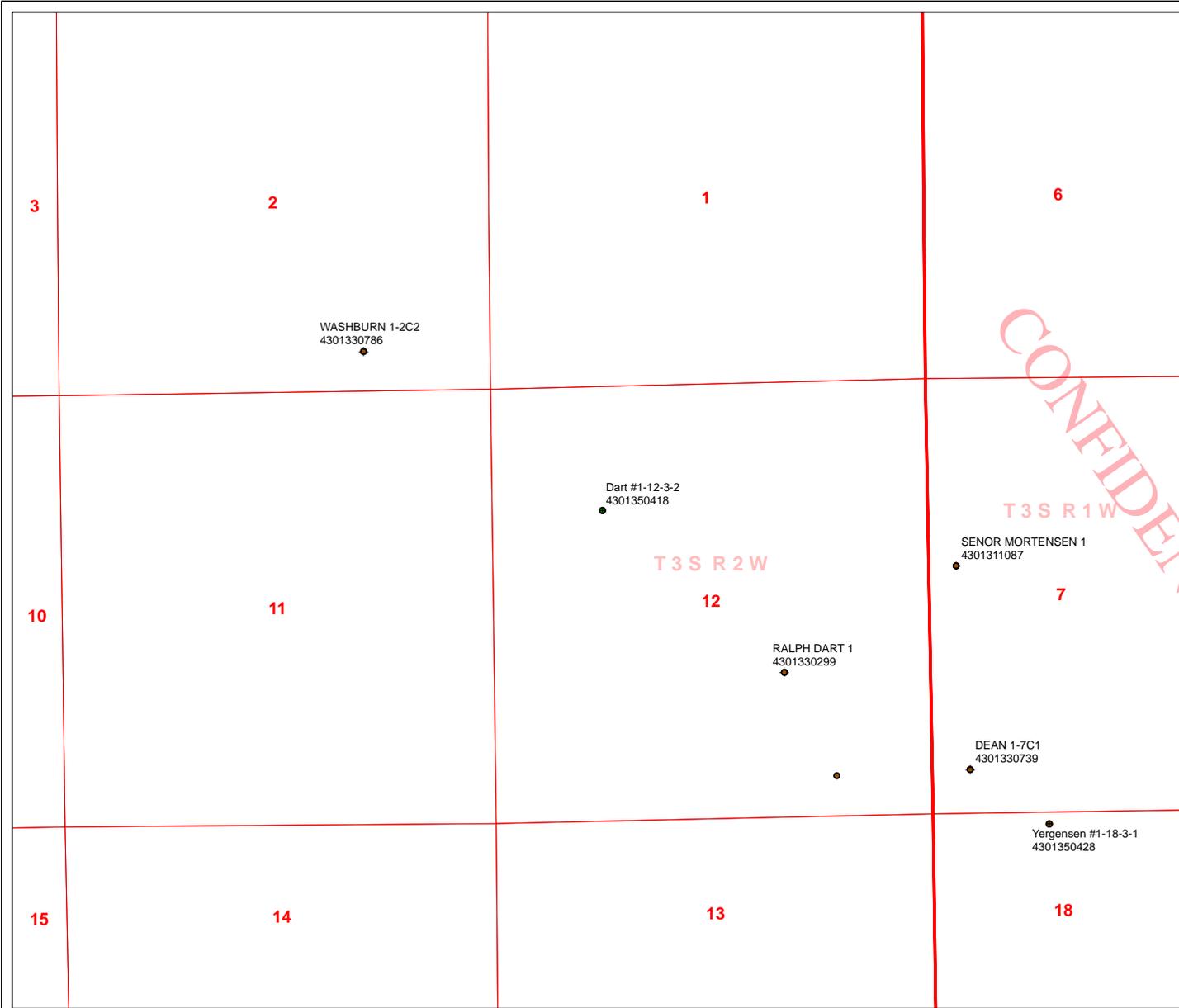
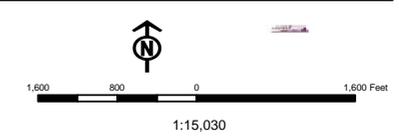
cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.  
Bob B. Berry, PE, Harvest (US) Holdings, Inc.

CONFIDENTIAL

**API Number: 4301350418**  
**Well Name: Dart #1-12-3-2**  
**Township 03.0 S Range 02.0 W Section 12**  
**Meridian: UBM**  
 Operator: HARVEST (US) HOLDINGS, INC

Map Prepared:  
 Map Produced by Diana Mason

- | Units                       | Wells Query                          |
|-----------------------------|--------------------------------------|
| <b>STATUS</b>               | ✕ -all other values-                 |
| ACTIVE                      | ◆ APD - Approved Permit              |
| EXPLORATORY                 | ⊙ DRL - Spudded (Drilling Commenced) |
| GAS STORAGE                 | ⊙ GW - Gas Injection                 |
| NF PP OIL                   | ⊙ GS - Gas Storage                   |
| NF SECONDARY                | ⊙ LA - Location Abandoned            |
| PI OIL                      | ⊙ LOC - New Location                 |
| PP GAS                      | ⊙ OPS - Operation Suspended          |
| PP GEOTHERMAL               | ⊙ PA - Plugged Abandoned             |
| PP OIL                      | ⊙ PGW - Producing Gas Well           |
| SECONDARY                   | ⊙ POW - Producing Oil Well           |
| TERMINATED                  | ⊙ RET - Returned APD                 |
| <b>Fields</b>               | ⊙ SGW - Shut-in Gas Well             |
| Sections                    | ⊙ SOW - Shut-in Oil Well             |
| Township                    | ⊙ TA - Temp. Abandoned               |
| Bottom Hole Location - AGRC | ⊙ TW - Test Well                     |
|                             | ⊙ WDW - Water Disposal               |
|                             | ⊙ WW - Water Injection Well          |
|                             | ⊙ WSW - Water Supply Well            |



CONFIDENTIAL

Well Name	HARVEST (US) HOLDINGS, INC Dart #1-12-3-2 43013504180000			
String	Cond	Surf	I1	Prod
Casing Size(")	20.000	13.375	9.625	5.500
Setting Depth (TVD)	60	500	3000	11100
Previous Shoe Setting Depth (TVD)	0	60	500	3000
Max Mud Weight (ppg)	8.3	8.6	9.0	11.5
BOPE Proposed (psi)	0	0	5000	5000
Casing Internal Yield (psi)	1000	1730	3520	13580
Operators Max Anticipated Pressure (psi)	6578			11.4

Calculations	Cond String	20.000	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO possibly air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		0	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

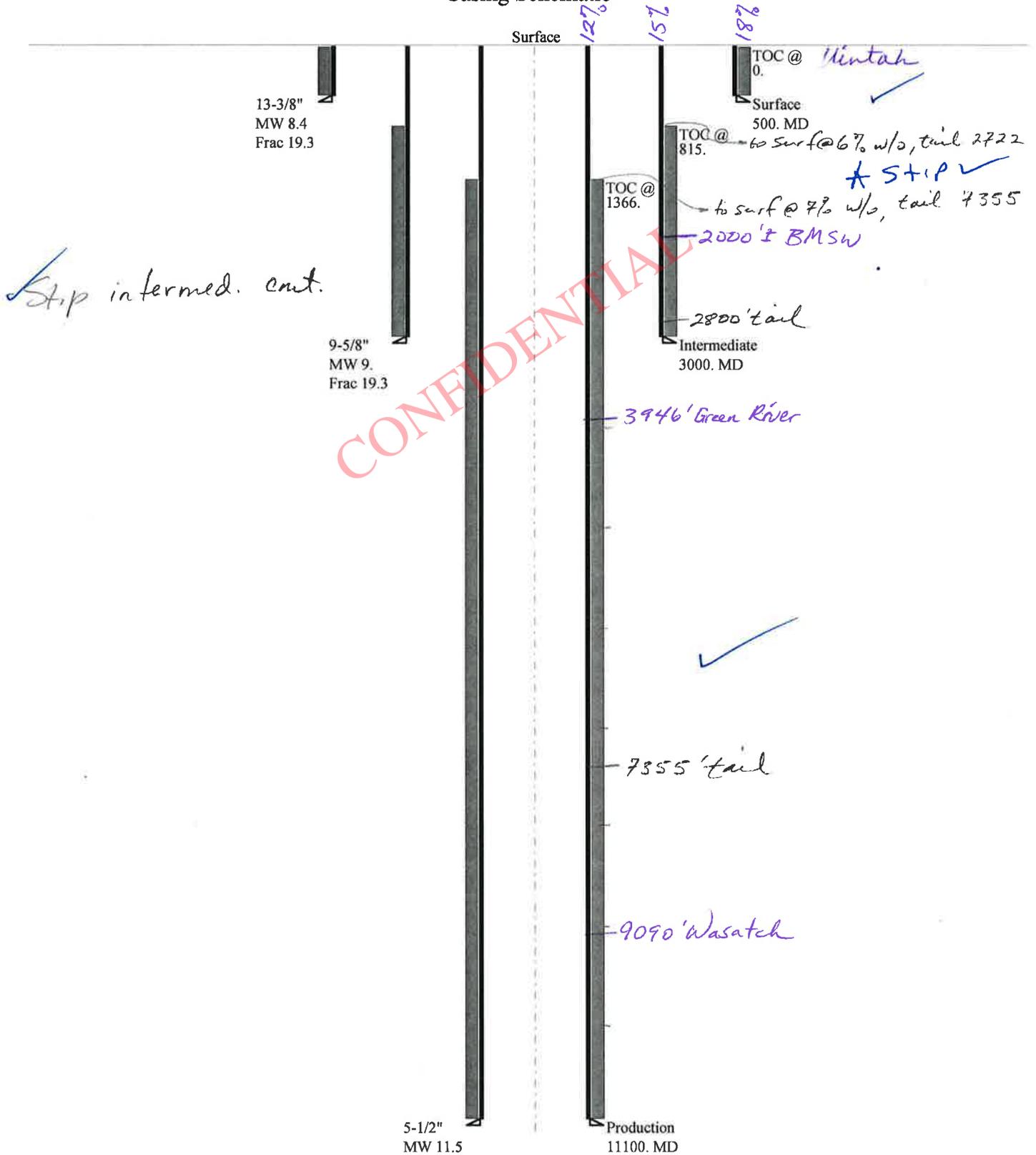
Calculations	Surf String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	224	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	164	NO possibly air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	114	NO OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	127	NO
Required Casing/BOPE Test Pressure=		500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1404	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1044	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	744	YES OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	854	NO OK
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		500	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6638	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5306	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4196	YES OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4856	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3000	psi *Assumes 1psi/ft frac gradient

# 43013504180000 Dart #1-12-3-2

## Casing Schematic



Well name:	<b>43013504180000 Dart #1-12-3-2</b>		
Operator:	<b>HARVEST (US) HOLDINGS, INC</b>		
String type:	Surface	Project ID:	43-013-50418
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 81 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 440 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 500 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on air weight.  
 Neutral point: 439 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 3,000 ft  
 Next mud weight: 9.000 ppg  
 Next setting BHP: 1,403 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 500 ft  
 Injection pressure: 500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	500	13.375	48.00	H-40	ST&C	500	500	12.59	6201
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	218	740	3.392	500	1730	3.46	24	322	13.42 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: September 2, 2010  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013504180000 Dart #1-12-3-2</b>		
Operator:	<b>HARVEST (US) HOLDINGS, INC</b>		
String type:	Intermediate	Project ID:	43-013-50418
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 9.000 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 116 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft  
 Cement top: 815 ft

**Burst**

Max anticipated surface pressure: 2,640 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 3,000 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on air weight.  
 Neutral point: 2,600 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 11,100 ft  
 Next mud weight: 11.500 ppg  
 Next setting BHP: 6,631 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 3,000 ft  
 Injection pressure: 3,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3000	9.625	36.00	J-55	LT&C	3000	3000	8.796	24531
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1403	2020	1.440	3000	3520	1.17	108	453	4.19 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: September 2, 2010  
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3000 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013504180000 Dart #1-12-3-2</b>		
Operator:	<b>HARVEST (US) HOLDINGS, INC</b>		
String type:	Production	Project ID:	43-013-50418
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 11.500 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 229 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: 1,366 ft

**Burst**

Max anticipated surface pressure: 4,189 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 6,631 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on air weight.  
 Neutral point: 9,189 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	11100	5.5	23.00	P-110	LT&C	11100	11100	4.545	98973
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6631	14540	2.193	6631	13580	2.05	255.3	643	2.52 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: September 30, 2010  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 11100 ft, a mud weight of 11.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** HARVEST (US) HOLDINGS, INC  
**Well Name** Dart #1-12-3-2  
**API Number** 43013504180000      **APD No** 2967      **Field/Unit** WILDCAT  
**Location: 1/4,1/4** SENW      **Sec** 12      **Tw** 3.0S      **Rng** 2.0W      1510      **FNL** 1342      **FWL**  
**GPS Coord (UTM)** 579808 4454608      **Surface Owner** Bruce Dart and Chona P. Dart

**Participants**

Drake Dart (landowner); Bob Berry (Harvest Natural Resources); Zander McLntyre (Dirt Contractor); McCoy Anderson & Glenn McElroy (survey group); Dennis Ingram (DOGM)

**Regional/Local Setting & Topography**

Proposed wellsite is found by driving 6.6 miles west of Roosevelt Utah on Highway U.S. 40, then east along private road for another 0.25 miles, then north onto location. North Myton Bench is immediately north of wellsite and runs in a east/west fashion. This bench is broken up by Cobble Hollow immediately north of location and drains easterly off north Myton Bench. Flattop Butte, a well known landmark, is easily seen from most points in the area and located approximately 2.7 miles to the west. The Duchesne River flows west to east and located 2.5 miles south of proposed wellsite. The immediate region at this proposed wellsite is flood irrigated cropland at the wellsite, and improved or upgraded to the south with a pivot wheel system. The location surface is in the heart of North Myton Bench and in eyesight of U.S. Highway 40.

**Surface Use Plan**

**Current Surface Use**

Agricultural

**New Road Miles**

0.25

**Well Pad**

**Width** 210      **Length** 274

**Src Const Material**

Onsite

**Surface Formation**

UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?**

Y

**Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

Irrigated hay field; mule deer potential, small game, rabbit, raccoon, coyote, fox and other smaller mammals native to region and commonly found along the river bottoms.

**Soil Type and Characteristics**

Light brown to tan sandy loam with clay present

**Erosion Issues** N

**Sedimentation Issues** Y

Need diversion ditch along the western side of location and around northern boundary to prevent sediment from irrigation water utilized to flood field.

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required?** Y

Should not need diversion berms only berming to protect irrigated crop land around wellsite.

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

**Distance to Groundwater (feet)**

**Distance to Surface Water (feet)**

**Dist. Nearest Municipal Well (ft)**

**Distance to Other Wells (feet)**

**Native Soil Type**

**Fluid Type**

**Drill Cuttings**

**Annual Precipitation (inches)**

**Affected Populations**

**Presence Nearby Utility Conduits**

**Final Score**

**Sensitivity Level**

**Characteristics / Requirements**

Closed loop system, no reserve pit.

**Closed Loop Mud Required?** Y **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

**Other Observations / Comments**

Operator determined first well staking was not a legal staking and therefore moved proposed wellsite to this location. Sprinklered field to the south and pivot wheel, access road just south of existing fence, may have to make a swing in access road to get equipment into lease. Surface slopes gently south, nearly flat. Operator will most likely bring in six inches of road base to compact and stabilize location. The operator did have a landowner agreement on the previous location is working on a new one with the landowner, and will submit that agreement to the Division when reached. No construction issues noted.

Dennis Ingram  
**Evaluator**

8/26/2010  
**Date / Time**

# Application for Permit to Drill Statement of Basis

10/5/2010

**Utah Division of Oil, Gas and Mining**

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
2967	43013504180000	LOCKED	OW	P	No
<b>Operator</b>	HARVEST (US) HOLDINGS, INC		<b>Surface Owner-APD</b>	Bruce Dart and Chona P. Dart	
<b>Well Name</b>	Dart #1-12-3-2		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SENW 12 3S 2W U 1510 FNL 1342 FWL GPS Coord (UTM) 579797E 4454603N				

**Geologic Statement of Basis**

Harvest proposes to set 60' of conductor and 500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows 13 water wells within a 10,000 foot radius of the center of Section 12. All wells are privately owned. Depth is listed as ranging from 22 to 800 feet. Depths are not listed for 3 wells. Average depth is around 150 feet. Water use is listed as irrigation, stock watering, and domestic use. The nearest well is approximately 1 mile north of the proposed location and produces water from a depth of 22 feet. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The intermediate casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
**APD Evaluator**

9/1/2010  
**Date / Time**

**Surface Statement of Basis**

A second presite visit was done on September 21, 2010 to take input and address issues for the permitting, drilling and construction of this well. Bruce Dart was given as the landowner but was out of town and his son, Drake Dart, was in attendance to represent the Dart family. The operator plans to upgrade and utilize an existing access road from the west that leaves U.S. Highway 40 and divides two hay fields into wellsite. The wellsite location diagram indicates a ninety degree turn into pad for both roads leading in but will most likely have to be angled into wellsite to allow truck traffic onto lease.

The location surface slopes gently from the north to south but is nearly flat, requiring only a couple feet cut. A diversion ditch is planned along the western boundary of location to the north, then back east along the northern side of location to divert irrigation water utilized to grow hay. The location will most likely need fencing, as cattle was in the field grazing during presite meeting. A new or upgraded landowner agreement will need submitted to the division as the wellsite has changed from arid, desert habitat to irrigated cropland.

A closed loop system was once again proposed by the operator and therefore a reserve pit will not be constructed. A shallow pit, measuring 30' x 80' will be constructed and utilized as a holding place for dry cutting from the well bore during the drilling process. This pit will run north to south beginning at location corner number 6. No other issues were noted at the presite meeting.

Dennis Ingram  
**Onsite Evaluator**

8/26/2010  
**Date / Time**

**Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A closed loop mud circulation system is required for this location.
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the cuttings pit.

---

# Application for Permit to Drill Statement of Basis

10/5/2010

Utah Division of Oil, Gas and Mining

Page 2

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Surface  
Surface

Drainages adjacent to the proposed pad shall be diverted around the location.  
The well site shall be bermed to prevent fluids from leaving the pad.

CONFIDENTIAL

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

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**APD RECEIVED:** 8/17/2010

**API NO. ASSIGNED:** 43013504180000

**WELL NAME:** Dart #1-12-3-2

**OPERATOR:** HARVEST (US) HOLDINGS, INC (N3520)

**PHONE NUMBER:** 435 719-2018

**CONTACT:** Don Hamilton

**PROPOSED LOCATION:** SENW 12 030S 020W

**Permit Tech Review:**

**SURFACE:** 1510 FNL 1342 FWL

**Engineering Review:**

**BOTTOM:** 1510 FNL 1342 FWL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.23996

**LONGITUDE:** -110.06191

**UTM SURF EASTINGS:** 579797.00

**NORTHINGS:** 4454603.00

**FIELD NAME:** WILDCAT

**LEASE TYPE:** 4 - Fee

**LEASE NUMBER:** Fee

**PROPOSED PRODUCING FORMATION(S):** WASATCH

**SURFACE OWNER:** 4 - Fee

**COALBED METHANE:** NO

---

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** STATE/FEE - B004657
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** Neil Moon Pond
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

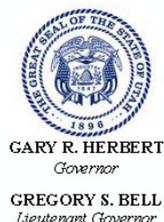
**Commingleing Approved**

**LOCATION AND SITING:**

- R649-2-3.**
  - Unit:**
  - R649-3-2. General**
  - R649-3-3. Exception**
  - Drilling Unit**
  - Board Cause No:** Cause 131-51
  - Effective Date:** 10/27/1983
  - Siting:** 1320' From exterior boundry section
  - R649-3-11. Directional Drill**
- 

**Comments:** Presite Completed

**Stipulations:** 5 - Statement of Basis - bhill  
9 - Cement casing to Surface - hmadonald



## 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:** Dart #1-12-3-2  
**API Well Number:** 43013504180000  
**Lease Number:** Fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 10/5/2010

**Issued to:**

HARVEST (US) HOLDINGS, INC, 1177 Enclave Parkway, Houston, TX 77077

**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 Cause 131-51. The expected producing formation or pool is the WASATCH 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:**

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

The cement volumes for the 9 5/8" casing shall be determined from actual hole conditions and the setting depth of the casing in order to place cement from the pipe setting depth back to the surface.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

**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

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**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

CONFIDENTIAL

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: HARVEST (US) HOLDINGS, INC

Well Name: DART #1-12-3-2

Api No: 43-013-50418 Lease Type FEE

Section 12 Township 03S Range 02W County DUCHESNE

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # BUCKET

**SPUDDED:**

Date 10/08/2010

Time 9:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by DON HAMILTON

Telephone # (435) 719-2018

Date 10/14/2010 Signed CHD

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee	

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
--	--

<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> Dart #1-12-3-2
------------------------------------	---

<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC	<b>9. API NUMBER:</b> 43013504180000
---	---

<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway , Houston, TX, 77077	<b>PHONE NUMBER:</b> 281 899-5722 Ext	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U	<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 10/8/2010			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The Dart #1-12-3-2 was spud at 0900 hours on October 8, 2010 by Craigs.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 October 20, 2010

<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/16/2010	

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

FORM 9

**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.

<b>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>PHONE NUMBER:</b> 281 899-5722 Ext.	<b>8. WELL NAME and NUMBER:</b> Dart #1-12-3-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL	<b>9. API NUMBER:</b> 43013504180000
<b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 12 Township: 03.05 Range: 02.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
	<b>COUNTY:</b> DUCHEсне
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/16/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:50px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Attached please find the drilling reports ending 10-16-2010

-----  
CONFIDENTIAL - TIGHT HOLE  
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<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/17/2010

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
October 20, 2010



















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

FORM 9

**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.

<b>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>PHONE NUMBER:</b> 281 899-5722 Ext.	<b>8. WELL NAME and NUMBER:</b> Dart #1-12-3-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL	<b>9. API NUMBER:</b> 43013504180000
<b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 12 Township: 03.05 Range: 02.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
	<b>COUNTY:</b> DUCHEсне
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	<input type="checkbox"/> <b>ALTER CASING</b>	<input type="checkbox"/> <b>CASING REPAIR</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	<input type="checkbox"/> <b>CHANGE TUBING</b>	<input type="checkbox"/> <b>CHANGE WELL NAME</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	<input type="checkbox"/> <b>CONVERT WELL TYPE</b>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/23/2010	<input type="checkbox"/> <b>DEEPEN</b>	<input type="checkbox"/> <b>FRACTURE TREAT</b>	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	<input type="checkbox"/> <b>PLUG BACK</b>
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	<input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	<input type="checkbox"/> <b>TEMPORARY ABANDON</b>
	<input type="checkbox"/> <b>TUBING REPAIR</b>	<input type="checkbox"/> <b>VENT OR FLARE</b>	<input type="checkbox"/> <b>WATER DISPOSAL</b>
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	<input type="checkbox"/> <b>APD EXTENSION</b>
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>OTHER</b>	OTHER: <input style="width:50px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Attached please find the drilling reports ending 10-23-2010

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CONFIDENTIAL - TIGHT HOLE  
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<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/25/2010

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
October 25, 2010













### DART #1-12-3-2 DAILY OPERATIONS SUMMARY

<b>Date:</b>	23-Oct-10	<b>Current Operation:</b>	Drilling 8.75" hole @ 3455' at 100 fph	<b>Depth @ Midnight:</b>	3,140'	
				<b>Depth @ 06:00:</b>	3,455'	<b>Footage last 24 hrs:</b> 85'
<b>Spud Date:</b>	8-Oct-10	<b>Days Since Spud:</b>	15			

Time Breakdown:		
From:	To:	Description
0:00	7:30	Test BOP components both low pressure & high pressure. Good. Test casing to 1500 psig. Good. Center BOPs
7:30	13:30	PU BHA, Test MWD - Good, GIH & tag TOC @ 2951'
13:30	15:30	Drill FC & 15' of cement. Test casing to 500 psig. Good Drill cement & FS. & formation to 3069'
15:30	16:00	Perform LOT: 450 psig @ 2995' = 12.49 ppg EMW
16:00	17:30	Drill to 3140 w/ BHPDM trying to communicate with the MWD - Failed
17:30	0:00	POOH to repair/replace MWD

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

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

FORM 6

**ENTITY ACTION FORM**

Operator: Harvest (US) Holdings, Inc. Operator Account Number: N 3520  
 Address: 1177 Enclave Parkway  
city Houston  
state TX zip 77077 Phone Number: (281) 899-5722

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350418	Dart #1-12-3-2		SENW	12	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17816	10/8/2010		10/19/10		
Comments: <u>WSTC</u> The well was spud utilizing Craigs at 0900 hrs. Conductor was set at 60'							<b>CONFIDENTIAL</b>

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Don Hamilton

Name (Please Print)

Don Hamilton

Signature

Agent for Harvest

10/15/2010

Title

Date

**RECEIVED**

OCT 15 2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> Dart #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APP EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/30/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 10-30-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/2/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 02, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>24-Oct-10</b>	<b>Current Operation:</b>	Drilling 8.75" hole to TD	<b>Depth @ Midnight:</b>	4,160'	
				<b>Depth @ 06:00:</b>	4,500'	<b>Footage last 24 hrs:</b> 1,020'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	16			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:00	RIH w/ repaired MWD.
1:00	2:30	Drill 8 3/4" hole w/ BHPDM assy. From 3140-3234'.
2:30	3:00	Rig Service
3:00	12:15	Drill 8 3/4" hole w/ BHPDM assy. From 3234-3768'.
12:15	12:45	Orientate - Slide Drill 3768-3773'
12:45	13:30	Drill 8 3/4" hole w/ BHPDM assy. From 3773-3800'.
13:30	14:00	C/O encoder on Top Drive
14:00	20:45	Drill 8 3/4" hole w/ BHPDM assy. From 3800-4051'.
20:45	21:45	Orientate - Slide Drill 4051-4063'
21:45	0:00	Drill 8 3/4" hole w/ BHPDM assy. From 4063-4160'.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 02, 2010













<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APD EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/6/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-6-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/8/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 08, 2010













**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>6-Nov-10</b>	<b>Current Operation:</b>	Precautionary wash/ream to btm prior to running 7" casing.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
				<b>Depth @ 06:00:</b>	9,719'		
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	29				

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:00	LD directional tools.
1:00	13:30	RU and run Halliburton e-logs. Made 2 runs: 1) Triple Combo & 2) XRMI/Dipole Sonic. LD logging tools and RD Halliburton.
13:30	22:00	MU bit and BHA and RIH to clean out for 7" casing (fill up every 3000'). Circ at 7,900' to clear float. Precautionary wash/ream 7,900' to 8,600' to circulate out heavy pill and dilute gas. Max Gas ~5000 U thus far.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 08, 2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077 <b>PHONE NUMBER:</b> 281 899-5722 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
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<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/13/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-13-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/16/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 17, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>7-Nov-10</b>	<b>Current Operation:</b>	Preparing 7" casing and RU CRT and hydraulic slips.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	30		<b>Depth @ 06:00:</b>

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:30	Circ out gas & 14.3 ppg pill from 8,600'.
1:30	2:30	Wash/ream 8,600 - 9,100' circulating out gas & 14.3 ppg pill at 184 gpm & 6 fpm.
2:30	3:30	Circulate out from 9,100' at 184 gpm.
3:30	6:00	Wash/ream 9,100 - 9,719' (TD) w/ 184 gpm at 6 fpm.
6:00	10:15	Circ out gas & 14.3 ppg pill from TD, no mud losses. Circ until mud gas < 500 U. Spot 100 bbl 14.7 ppg pill on btm.
10:15	11:00	POH, standing back 20 stands to above heavy pill.
11:00	12:30	Safety mtg, RU Frank's lay down machine.
12:30	20:45	LD total of 246 jts 4-1/2" DP, 9 jts HWDP, 14 x 6-1/2" DC's, and bit/BHA.
20:45	22:45	Clean and organize rig floor for running casing. Pull wear bushing, change pipe rams to 7". Test to 3000 psi.
22:45	0:00	Load 7" casing on pipe racks & strap. Rig up CRT & hydraulic slips.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>8-Nov-10</b>	<b>Current Operation:</b>	Running casing at 7,900', circ out heavy pill / cure losses.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	31		

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	2:30	Continue to load casing on rack & tally.
2:30	9:15	MU and threadlock shoe track. Pump thru shoe track. Run 66 jts 7", 29 ppf, P110, BTC, R3 casing to 3000', fill every 5 jts.
9:15	13:30	Circ 7" casing at 9-5/8" shoe while waiting on balance of 7" (~49 jts). Transport trucks late, started arriving at 13:30 hrs.
13:30	15:45	Load 66 jts 7" casing on rack and tally.
15:45	23:00	Run 7" casing, filling every 5 jts to 7,900'. Good returns while running casing.
23:00	0:00	Fill casing and attempt to break circulation, no returns. Slow pump from 40 to 20 spm. Build LCM sweep and mud volume.
		Hole staying full, returns are very little and sporadic.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

RECEIVED November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>9-Nov-10</b>	<b>Current Operation:</b>	Preparing to pump 7" cement job.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	32		

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	5:00	Pump down LCM sweep. Very little and sporadic returns until 03:30 hrs when LCM reached ~5450'.
5:00	7:15	Wash down casing from 7,900' to 8,367' w/184 gpm at ~8 min/jt. Maintaining 12.8 ppg mud wt in suction. No losses.
7:15	9:45	Circulate out heavy pill at 8,367' at 184 gpm.
9:45	14:30	Wash down 16 jts 7" casing 8,367' to 9,090' at ~7 min/jt w/184 gpm. Max gas ~6200 U. No losses.
14:30	16:00	Pull trip nipple & PU landing joint. MU landing jt w/casing hanger & stripper rubber. RU Scorpion & torque up conn.
		Check hanger running tool.
16:00	23:00	Break circulation & tag wellhead w/casing hanger. Circ & work csing up/down 10' until gas lowers. Move in/spot Halliburton equipment, transfer bulk cement & rig up cementing lines. Transfer lead cement to field cmt bin. Max gas 8750 U.
		Gas when stop circulating ~1650 U. No losses.
23:00	0:00	Held PJSM w/H&P, Halliburton & HNR personnel. Land casing at 23:10 hrs w/shoe at 9,118' & float collar @ 9,024'.
		Release CRT & blow down top drive & mud lines. Install cement head & manifold & test cement line to 5,000 psi.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

RECEIVED November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>10-Nov-10</b>	<b>Current Operation:</b>	NU 7-1/16" BOPE and test.	<b>Depth @ Midnight:</b>	9,719'	
				<b>Depth @ 06:00:</b>	9,719'	<b>Footage last 24 hrs:</b> 0'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	33			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	4:00	Halliburton mix/pump 20 bbls 8.4 ppg Mud Flush III followed by 60 bbls 12.8 ppg Tuned Spacer III. Dropped btm plug. Mix/pump 1000 sx (281 bbls) 13 ppg Expandacem containing 50% Boral Craig Poxmix + 50% Mountain G + 2% BWOC WY gel + 3% BWOC KCI + 0.75% BWOC Halad-322 + 0.2% BWOC FWCA + 0.3% BWOC Super CBL + 0.3% HR-5 + 159 bbls fresh water followed by 265 sx (62 bbls) 15 ppg Bondcem containing 20% Boral Craig Pozmix + 80% Mountain G + 0.3% BWOC Super CBL + 10 pps Silicalite compacted + 0.3% BWOC Halad-344 (PB) + 0.6% HR-5 + 35 bbl fresh water. Dropped top plug and displaced with 333 bbls of 12.8 ppg mud. Bumped plug w/1500 psi over final displacement pressure and held 10 min. Bled off 2.75 bbls, floats held. CIP at 03:42 hrs. Had full returns until ~55 bbls before plug bumped. Returns slowed to a trickle. Observed ~ 5 bbls Mud Flush III at shakers.
4:00	5:00	Flush thru all lines & BOP/riser with water. Remove cement head.
5:00	6:30	PU 1 jt 3-1/2" & packoff running tool. Land packoff on casing hanger, MU hold-down screws. Test hanger to 5000 psi.
6:30	7:30	Rig down CRT.
7:30	14:00	Swap 7" casing rams for 4-1/2" pipe rams. ND flowline, rotating head & 5M BOP and set BOP on stump. ND 5M riser.
14:00	16:00	Install Section B tubing hgr spool (11" 5M x 7-1/16" 10M) and test casing hgr neck to 5000 psi.
16:00	0:00	Spot 4" 10M choke manifold & commence NU 7-1/16" 10M BOPE (mud cross, spacer spools, double ram & 5M Hydril). Bolt up choke line to choke manifold.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>11-Nov-10</b>	<b>Current Operation:</b>	PU drill pipe and RIH w/ bit & BHA.	<b>Depth @ Midnight:</b>	9,719'	
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	34	<b>Depth @ 06:00:</b>	9,719'	<b>Footage last 24 hrs:</b> 0'

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	2:30	Continue to NU 7-1/16 10M BOPE.
2:30	4:00	Change XO on top drive. Function test BOPE and prepare for test.
4:00	10:30	Held PJSM w/Double Jack Testers. Test 7-1/16 10M BOPE, including choke manifold to 250 / 10,000 psi for 5/5 min each test. Test annular (7-1/16 5M) to 250/3500 psi for 5/5 min each test. Two choke manifold valves leaked. Will repair and test while picking up string.
10:30	15:30	Load pipe rack w/drill string & tally. Fit rotating head outlet to flowline.
15:30	16:30	Held PJSM w/Frank's lay down crew prior to RU. RU Frank's lay down truck.
16:30	17:00	Routine rig service.
17:00	0:00	MU Bit #6 & BHA and RIH picking up 3-1/2" DP to 1150'. At 1150', string stood up. Rotated and pumped and bridge disappeared.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

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**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>12-Nov-10</b>	<b>Current Operation:</b>	Drill on plugs at 9075'.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	35		

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	6:00	Continue to RIH picking up drill string to 4,700'. String plugged when filling pipe.
6:00	7:00	Pressure up string to 3,200 psi, bleed off 3 times w/o success. Pressure bleeding off very slowly.
7:00	11:45	Blow top drive clean of mud. POH to unplug string. Found DP connection leaking w/3000 psi on it (not washed), so re-torque all DP connections to 11,500 ft-lbs.
11:45	12:45	Found drill string plugged with mixture of paraffin & LCM for ~5'. Clean out plug, removed & cleaned float & cleaned out bit.
12:45	15:45	RIH back to 4,700'. Circulate 5 minutes at top of BHA and every 1000' to ensure drill pipe does not become plugged.
15:45	16:15	Routine rig service.
16:15	22:00	RIH picking up 3-1/2" DP to 9,074' (50' deeper than expected). Performed DP count (correct), checked casing tally against number of jts delivered & should have had 5 jts left, but had 4. Actual 7" casing depth is 9,168' and Float Collar at 9,074'.
22:00	0:00	Drill on plugs from 9,074' to 9,075'.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>13-Nov-10</b>	<b>Current Operation:</b>	Drill on plugs at 9075'.	<b>Depth @ Midnight:</b>	9,719'	
				<b>Depth @ 06:00:</b>	9,719'	<b>Footage last 24 hrs:</b> 0'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	36			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:30	Drill out plugs, float collar & 40' cement to 9,114'.
1:30	1:45	Close annular preventer & test 7" casing to 2000 psi for 15 mins, good test. Bled off pressure.
1:45	2:30	Drill out the remainder of the shoe track from 9,114 - 9,168'.
2:30	5:00	Wash/ream from shoe at 9,168' to 9,719' (TD). Gas very variable from 350 to 12,800 U (peaks only).
5:00	6:00	Circulate bottoms up & level mud weight at 13.1 ppg. Gas < 200 U after bottoms up.
6:00	6:30	POH to 7" shoe. Rigged up Halliburton pump truck & help PJSM prior to pressure testing.
6:30	7:00	Performed LOT. MW at 13.1 ppg, shoe depth at 9,168'. Pumped 1/4 bbl increments stopping btw each 1/4 bbl. Max pressure = 930 psi, bled off in 5 mins to 590 psi. LOT = 14.34 ppg EMW.
7:00	8:00	RIH to 9,719'.
8:00	16:30	Drill 6" hole from 9,719' to 9,882', break in bit w/5K increasing to 20K WOB and 70 - 90 rpm.
16:30	17:00	Routine rig service.
17:00	0:00	Drill 6" hole from 9,882' to 10,090'. WOB 20-22K, RPM 90-130. Pump at 235 gpm @ 2600 psi.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
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<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/6/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-6-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/8/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 08, 2010















<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> Dart #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077 <b>PHONE NUMBER:</b> 281 899-5722 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APP EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/30/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 10-30-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/2/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 02, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>24-Oct-10</b>	<b>Current Operation:</b>	Drilling 8.75" hole to TD	<b>Depth @ Midnight:</b>	4,160'	
				<b>Depth @ 06:00:</b>	4,500'	<b>Footage last 24 hrs:</b> 1,020'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	16			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:00	RIH w/ repaired MWD.
1:00	2:30	Drill 8 3/4" hole w/ BHPDM assy. From 3140-3234'.
2:30	3:00	Rig Service
3:00	12:15	Drill 8 3/4" hole w/ BHPDM assy. From 3234-3768'.
12:15	12:45	Orientate - Slide Drill 3768-3773'
12:45	13:30	Drill 8 3/4" hole w/ BHPDM assy. From 3773-3800'.
13:30	14:00	C/O encoder on Top Drive
14:00	20:45	Drill 8 3/4" hole w/ BHPDM assy. From 3800-4051'.
20:45	21:45	Orientate - Slide Drill 4051-4063'
21:45	0:00	Drill 8 3/4" hole w/ BHPDM assy. From 4063-4160'.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

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### DART #1-12-3-2 DAILY OPERATIONS SUMMARY

<b>Date:</b>	29-Oct-10	<b>Current Operation:</b>	Trip f/ Bit	<b>Depth @ Midnight:</b>	6,940 '	
				<b>Depth @ 06:00:</b>	6,940 '	<b>Footage last 24 hrs:</b> 535 '
<b>Spud Date:</b>	8-Oct-10	<b>Days Since Spud:</b>	21			

Time Breakdown:		
From:	To:	
0:00	14:30	Drill 8 3/4" hole w/ BHPDM assy. From 6405 - 6815' sliding as needed to control deviation.
17:30	18:00	Rig Service
18:00	0:00	Drill 8 3/4" hole w/ BHPDM assy. From 6815 - 6940' sliding as needed to control deviation.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 02, 2010



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		
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.		
<b>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee	
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077	<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U	<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2	
<b>PHONE NUMBER:</b> 281 899-5722 Ext	<b>9. API NUMBER:</b> 43013504180000	
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		
<b>COUNTY:</b> DUCHESNE		
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE TUBING</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/13/2010	<input type="checkbox"/> <b>ALTER CASING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> <input style="width: 50px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-13-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/16/2010

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 17, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>7-Nov-10</b>	<b>Current Operation:</b>	Preparing 7" casing and RU CRT and hydraulic slips.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	30		<b>Depth @ 06:00:</b>

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:30	Circ out gas & 14.3 ppg pill from 8,600'.
1:30	2:30	Wash/ream 8,600 - 9,100' circulating out gas & 14.3 ppg pill at 184 gpm & 6 fpm.
2:30	3:30	Circulate out from 9,100' at 184 gpm.
3:30	6:00	Wash/ream 9,100 - 9,719' (TD) w/ 184 gpm at 6 fpm.
6:00	10:15	Circ out gas & 14.3 ppg pill from TD, no mud losses. Circ until mud gas < 500 U. Spot 100 bbl 14.7 ppg pill on btm.
10:15	11:00	POH, standing back 20 stands to above heavy pill.
11:00	12:30	Safety mtg, RU Frank's lay down machine.
12:30	20:45	LD total of 246 jts 4-1/2" DP, 9 jts HWDP, 14 x 6-1/2" DC's, and bit/BHA.
20:45	22:45	Clean and organize rig floor for running casing. Pull wear bushing, change pipe rams to 7". Test to 3000 psi.
22:45	0:00	Load 7" casing on pipe racks & strap. Rig up CRT & hydraulic slips.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

### DART #1-12-3-2 DAILY OPERATIONS SUMMARY

<b>Date:</b>	<b>8-Nov-10</b>	<b>Current Operation:</b>	Running casing at 7,900', circ out heavy pill / cure losses.	<b>Depth @ Midnight:</b>	9,719'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	31	<b>Depth @ 06:00:</b>	9,719'
<b>Footage last 24 hrs:</b> 0'					

Time Breakdown:		
From:	To:	
0:00	2:30	Continue to load casing on rack & tally.
2:30	9:15	MU and threadlock shoe track. Pump thru shoe track. Run 66 jts 7", 29 ppf, P110, BTC, R3 casing to 3000', fill every 5 jts.
9:15	13:30	Circ 7" casing at 9-5/8" shoe while waiting on balance of 7" (~49 jts). Transport trucks late, started arriving at 13:30 hrs.
13:30	15:45	Load 66 jts 7" casing on rack and tally.
15:45	23:00	Run 7" casing, filling every 5 jts to 7,900'. Good returns while running casing.
23:00	0:00	Fill casing and attempt to break circulation, no returns. Slow pump from 40 to 20 spm. Build LCM sweep and mud volume.
		Hole staying full, returns are very little and sporadic.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

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**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>9-Nov-10</b>	<b>Current Operation:</b>	Preparing to pump 7" cement job.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	32		

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	5:00	Pump down LCM sweep. Very little and sporadic returns until 03:30 hrs when LCM reached ~5450'.
5:00	7:15	Wash down casing from 7,900' to 8,367' w/184 gpm at ~8 min/jt. Maintaining 12.8 ppg mud wt in suction. No losses.
7:15	9:45	Circulate out heavy pill at 8,367' at 184 gpm.
9:45	14:30	Wash down 16 jts 7" casing 8,367' to 9,090' at ~7 min/jt w/184 gpm. Max gas ~6200 U. No losses.
14:30	16:00	Pull trip nipple & PU landing joint. MU landing jt w/casing hanger & stripper rubber. RU Scorpion & torque up conn.
		Check hanger running tool.
16:00	23:00	Break circulation & tag wellhead w/casing hanger. Circ & work csing up/down 10' until gas lowers. Move in/spot Halliburton equipment, transfer bulk cement & rig up cementing lines. Transfer lead cement to field cmt bin. Max gas 8750 U.
		Gas when stop circulating ~1650 U. No losses.
23:00	0:00	Held PJSM w/H&P, Halliburton & HNR personnel. Land casing at 23:10 hrs w/shoe at 9,118' & float collar @ 9,024'.
		Release CRT & blow down top drive & mud lines. Install cement head & manifold & test cement line to 5,000 psi.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>10-Nov-10</b>	<b>Current Operation:</b>	NU 7-1/16" BOPE and test.	<b>Depth @ Midnight:</b>	9,719'	
				<b>Depth @ 06:00:</b>	9,719'	<b>Footage last 24 hrs:</b> 0'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	33			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	4:00	Halliburton mix/pump 20 bbls 8.4 ppg Mud Flush III followed by 60 bbls 12.8 ppg Tuned Spacer III. Dropped btm plug. Mix/pump 1000 sx (281 bbls) 13 ppg Expandacem containing 50% Boral Craig Poxmix + 50% Mountain G + 2% BWOC WY gel + 3% BWOC KCI + 0.75% BWOC Halad-322 + 0.2% BWOC FWCA + 0.3% BWOC Super CBL + 0.3% HR-5 + 159 bbls fresh water followed by 265 sx (62 bbls) 15 ppg Bondcem containing 20% Boral Craig Pozmix + 80% Mountain G + 0.3% BWOC Super CBL + 10 pps Silicalite compacted + 0.3% BWOC Halad-344 (PB) + 0.6% HR-5 + 35 bbl fresh water. Dropped top plug and displaced with 333 bbls of 12.8 ppg mud. Bumped plug w/1500 psi over final displacement pressure and held 10 min. Bled off 2.75 bbls, floats held. CIP at 03:42 hrs. Had full returns until ~55 bbls before plug bumped. Returns slowed to a trickle. Observed ~ 5 bbls Mud Flush III at shakers.
4:00	5:00	Flush thru all lines & BOP/riser with water. Remove cement head.
5:00	6:30	PU 1 jt 3-1/2" & packoff running tool. Land packoff on casing hanger, MU hold-down screws. Test hanger to 5000 psi.
6:30	7:30	Rig down CRT.
7:30	14:00	Swap 7" casing rams for 4-1/2" pipe rams. ND flowline, rotating head & 5M BOP and set BOP on stump. ND 5M riser.
14:00	16:00	Install Section B tubing hgr spool (11" 5M x 7-1/16" 10M) and test casing hgr neck to 5000 psi.
16:00	0:00	Spot 4" 10M choke manifold & commence NU 7-1/16" 10M BOPE (mud cross, spacer spools, double ram & 5M Hydril). Bolt up choke line to choke manifold.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>11-Nov-10</b>	<b>Current Operation:</b>	PU drill pipe and RIH w/ bit & BHA.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	34		<b>Depth @ 06:00:</b>

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	2:30	Continue to NU 7-1/16 10M BOPE.
2:30	4:00	Change XO on top drive. Function test BOPE and prepare for test.
4:00	10:30	Held PJSM w/Double Jack Testers. Test 7-1/16 10M BOPE, including choke manifold to 250 / 10,000 psi for 5/5 min each test. Test annular (7-1/16 5M) to 250/3500 psi for 5/5 min each test. Two choke manifold valves leaked. Will repair and test while picking up string.
10:30	15:30	Load pipe rack w/drill string & tally. Fit rotating head outlet to flowline.
15:30	16:30	Held PJSM w/Frank's lay down crew prior to RU. RU Frank's lay down truck.
16:30	17:00	Routine rig service.
17:00	0:00	MU Bit #6 & BHA and RIH picking up 3-1/2" DP to 1150'. At 1150', string stood up. Rotated and pumped and bridge disappeared.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>12-Nov-10</b>	<b>Current Operation:</b>	Drill on plugs at 9075'.	<b>Depth @ Midnight:</b>	9,719'	<b>Footage last 24 hrs:</b>	0'
<b>Spud Date:</b>	<b>8-Oct-10</b>			<b>Days Since Spud:</b>	35		

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	6:00	Continue to RIH picking up drill string to 4,700'. String plugged when filling pipe.
6:00	7:00	Pressure up string to 3,200 psi, bleed off 3 times w/o success. Pressure bleeding off very slowly.
7:00	11:45	Blow top drive clean of mud. POH to unplug string. Found DP connection leaking w/3000 psi on it (not washed), so re-torque all DP connections to 11,500 ft-lbs.
11:45	12:45	Found drill string plugged with mixture of paraffin & LCM for ~5'. Clean out plug, removed & cleaned float & cleaned out bit.
12:45	15:45	RIH back to 4,700'. Circulate 5 minutes at top of BHA and every 1000' to ensure drill pipe does not become plugged.
15:45	16:15	Routine rig service.
16:15	22:00	RIH picking up 3-1/2" DP to 9,074' (50' deeper than expected). Performed DP count (correct), checked casing tally against number of jts delivered & should have had 5 jts left, but had 4. Actual 7" casing depth is 9,168' and Float Collar at 9,074'.
22:00	0:00	Drill on plugs from 9,074' to 9,075'.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>13-Nov-10</b>	<b>Current Operation:</b>	Drill on plugs at 9075'.	<b>Depth @ Midnight:</b>	9,719'	
				<b>Depth @ 06:00:</b>	9,719'	<b>Footage last 24 hrs:</b> 0'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	36			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	1:30	Drill out plugs, float collar & 40' cement to 9,114'.
1:30	1:45	Close annular preventer & test 7" casing to 2000 psi for 15 mins, good test. Bled off pressure.
1:45	2:30	Drill out the remainder of the shoe track from 9,114 - 9,168'.
2:30	5:00	Wash/ream from shoe at 9,168' to 9,719' (TD). Gas very variable from 350 to 12,800 U (peaks only).
5:00	6:00	Circulate bottoms up & level mud weight at 13.1 ppg. Gas < 200 U after bottoms up.
6:00	6:30	POH to 7" shoe. Rigged up Halliburton pump truck & help PJSM prior to pressure testing.
6:30	7:00	Performed LOT. MW at 13.1 ppg, shoe depth at 9,168'. Pumped 1/4 bbl increments stopping btw each 1/4 bbl. Max pressure = 930 psi, bled off in 5 mins to 590 psi. LOT = 14.34 ppg EMW.
7:00	8:00	RIH to 9,719'.
8:00	16:30	Drill 6" hole from 9,719' to 9,882', break in bit w/5K increasing to 20K WOB and 70 - 90 rpm.
16:30	17:00	Routine rig service.
17:00	0:00	Drill 6" hole from 9,882' to 10,090'. WOB 20-22K, RPM 90-130. Pump at 235 gpm @ 2600 psi.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 16, 2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APD EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/20/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-20-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/22/2010

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 Oil, Gas and Mining  
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**DART #1-12-3-2 DAILY OPERATIONS SUMMARY**

<b>Date:</b>	<b>15-Nov-10</b>	<b>Current Operation:</b>	POOH after Back off	<b>Depth @ Midnight:</b>	10,795'	
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	38	<b>Depth @ 06:00:</b>	10,795'	<b>Footage last 24 hrs:</b> 81'

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	4:30	Drill 6" hole from 10,714' - 10,775'. At 10,760', ROP dropped off to <10 fph. Tried different WOB's, RPM's w/o results.
4:30	5:00	Circulate & build slug. Pump slug.
5:00	11:00	POH for new bit #7. No drag in 6" hole.
11:00	11:45	Rig up Scorpion. Break off bit #6 & make up bit #7. Inspect float.
11:45	12:15	RIH w/BHA.
12:15	12:30	Remove trip nipple & install rotating rubber.
12:30	15:15	RIH filling string every 2000' to 9018'.
15:15	15:45	Routine rig service.
15:45	16:15	RIH to 10,743'. MU top drive.
16:15	16:30	Precautionary wash/ream 10,743' to 10,775'.
16:30	19:30	Break in bit #7 w/4K & 90 rpm. Drill 6" hole 10,775 to 10,795'. Drilling torque started building up & just as driller was going to pick up & work string, top drive torqued up and stopped.
19:30	22:15	Jar, torque & work string in attempt to work loose w/o success.
22:15	0:00	Work torque out of string. Lay down single to get top drive closer to rig floor. Spot back-off truck, hang sheave at crown & R/U Cased Hole Solutions back-off truck. RIH with free point tool.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Dry Hole Costs):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** November 22, 2010











<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/16/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached please find an updated drilling plan reflecting changes being implemented during drilling to insure compliance with state regulations:

Planned • Drill 8 3/4" hole to PTD of 11,500' with a maximum MW of 12.5 ppg.  
 • Run 5 1/2" casing to depth and cement same. Actual • Drilled 8 3/4" hole to 9719' with 12.7 ppg mud. • Run 7" 29 ppg, P-110, LTC casing and cement same. • NU 7 1/16" 10M BOP stack. • Drill 6" hole to 10795 w/ 13.1 ppg mud  
 • Torque increased while drilling w/ drill string stuck. • Made Backoff @ 10739' = Top of Fish • Log Well to top of Fish • Currently running 4 1/2", 15.1 ppg P-110, LTC liner to Top of Fish and will cement same.

**Accepted by the Utah Division of Oil, Gas and Mining**

Date: 11/23/2010

By: *Don Hamilton*

<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/16/2010	

**CONFIDENTIAL STATUS**

**HARVEST (US) HOLDINGS, INC.**

**Dart #1-12-3-2**

Section 12-T3S-R2W  
Duchesne County, Utah

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

UINTAH 0'  
GREEN RIVER 3,946'  
UTELAND BUTTE 8,686'  
WASATCH 9,090'  
TD 11,100'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS**

Wasatch (Oil & Gas) 8,686' – 11,100'

Fresh water may be encountered in the Uintah Formation, but would not be expected below about 500'.

**4. PROPOSED CASING PROGRAM**

**a. Casing Design:**

Size	Interval		Wt	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Conductor 20" Hole size 26"	0'	60'	0.25WT	X-42	A53B	N/A	N/A	N/A
Deep Conductor 13 3/8" Hole Size 17 1/2"	0'	500'	48.0	H-40	STC	1,730 psi 7.92 SF	740 psi 3.39 SF	322,000 lbf 13.41 SF
Surface 9 5/8" Hole Size 12 1/4"	0'	3,000'	36	J-55	LTC	3,520 psi 1.88 SF	2,020 psi 1.44 SF	453,000 lbf 4.84 SF
Intermediate/Production 7" Hole Size 8 3/4"	0'	9,118'	29	P-110	LTC	11,220 psi 1.82 SF	8,530 psi 1.20 SF	929,000 lbf 3.51 SF
Production Liner 4 1/2" Hole Size 6"	8,800'	11,500'	15.1	P-110	LTC	14,420 psi 1.85 SF	14,350 psi 1.85 SF	406,000 lbf 9.96 SF

Assumptions:

- 1) Surface casing Maximum Allowable Surface Pressure (MASP) = Fracture gradient - Gas gradient
  - 2) Production casing MASP (production mode) = Pore pressure - gas gradient
  - 3) All collapse calculations assume fully evacuated casing w/gas gradient
  - 4) All tension calculations assume air weight
- Fracture gradient at 9 5/8" casing shoe = 12.0 ppg  
Pore pressure at 9 5/8" casing shoe = 8.33 ppg

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Fracture gradient at 7" casing shoe= 15.0 ppg  
 Pore pressure at 7" casing shoe = 11.5 ppg  
 Pore pressure at production casing shoe= 13.0 ppg  
 Gas gradient = 0.115 psi/ft  
 Frac gradient = 0.81 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.

**b. Cementing Design:**

Job	Fill	Description	Sacks	OH Excess	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Conductor casing 20"	60' to surface	Class G w/ 2% CaCl	135	50%	15.8	1.15
			155			
Deep Conductor casing 13 3/8"	500' to surface	Premium G w/ 2%CaCl, ¼ lb/sk Flocele	600	50%	15.8	1.15
			690			
Surface casing 9 5/8" Lead	2500' to surface	Premium Type V w/ 16% gel, 10 lbs/sk gilsonite, 3% salt, 3 lbs/sk GR 3, ¼ lb/sk Flocele	300	40%	11.0	3.82
			1146			
Surface casing 9 5/8" Tail	3000' to 2500'	Premium G w/ 2% CaCl, ¼ lb/sk Flocele	100	50%	15.8	1.15
			115			
Intermediate/Production casing 7" Lead	7500' to surface	Expandacem (50% Boral Craig Poz + 50% Mountain G) + 2% gel + 3% KCl + 0.75% Halad322 + 0.3% Super CBL (gas block) + 0.3% fluid loss	1000	30%*	13.0	1.58
			1578			
Intermediate/Production casing 7" Tail	9118' to 7500'	20% Bondcem (Boral Craig Pozmix/80% Mountain G + 0.3% Super CBL (gasblock) + 0.3% fluid loss + 0.6% retarder	265	30%*	15.0	1.31
			347			
Production Liner 4-1/2"	11500' to 8800'	BONDCEM system w/2% expander, 0.3% fluid loss control, 0.3% retarder	194	30%*	15.6	1.56
			302			

\*Actual volume pumped will be 15% over the caliper log.  
 -Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours.  
 -Compressive strength of tail cement: 2500 psi @ 24 hours

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Waiting on Cement (WOC): A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 9-5/8" surface casing shall, in all cases, be cemented back to surface. In the event that during the primary surface cementing operation, the cement does not circulate to surface, or if the cement level should fall back more than 8' from surface, then a remedial surface cementing operation shall be performed to ensure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200' above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable pre-flush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 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.

**5. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS**

<i>Depth</i>	<i>Type</i>	<i>Weight</i>	<i>Vis</i>	<i>API Fluid Loss</i>
0-80'	Air or Water	8.33	N/A	N/A
80-500'	Air or Water/Gel Sweeps	8.4-8.6	45-55	N/C
500'-3,000'	Gel w/ fluid loss ctl	8.8-9.0	45-60	8-10
3,000'-11,500'	Water Base Mud	9.0-13.5	45	2-3

From surface to 500' feet will be drilled with air or fresh water and gel sweeps. From 500'-3,000', when hole conditions dictate, air or a fresh water gel system will be utilized. From 3,000' to Total Depth (TD), a Water Base Mud will be used. This system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight at TD is 13.5 ppg.

**6. AUXILIARY SAFETY EQUIPMENT TO BE USED**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

**7. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL**

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The Company's minimum specifications for pressure control equipment for a standard Green River/Wasatch well are as follows:

A 5000 psi WP hydraulic BOP stack consisting of a double ram preventer and 3000 psi WP annular preventer will be installed before drilling beneath 9 5/8" surface casing.

Connections – All components on the stack and choke and kill lines shall have either flanged, studded, clamp hub or equivalent proprietary connections except control line outlets and pressure gauges.

Choke Manifold – The minimum equipment requirements are shown below. The choke manifold shall be located at least 5 feet from the BOP stack, outside the substructure.

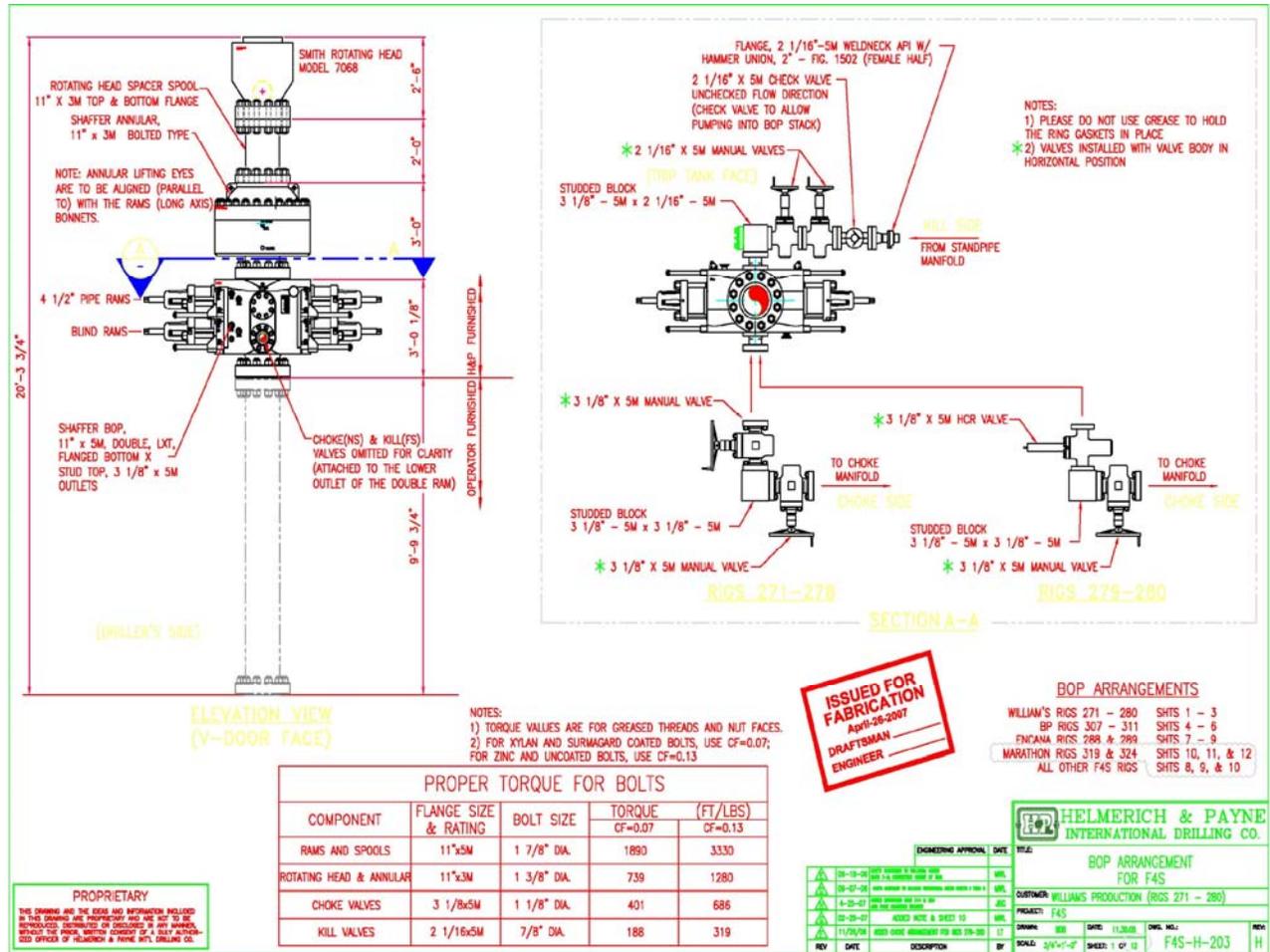
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

Drill String Control Devices – An upper and lower Kelly valve, drill string safety valve, including correct closing handle, and an inside BOP shall be provided. The safety valve and inside BOP shall have connections or crossovers to fit all tubulars with OD to allow adequate clearance for running in the hole. All drill string valves shall be rated to the required BOP working pressure.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 (BLM) for equipment and testing requirements, procedures, etc., for a 5000 psi system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Daily report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling.



**8. TESTING, LOGGING AND CORING PROGRAMS**

**a. Logging Program:**

QUAD COMBO – TLD/CNL/DSI/SP/GR TD – 3,000’

CBL: A cement bond log will be run from 7,800’ to the cement top of the production casing, calculated to be ground level.

Note: The log types run may change at the discretion of the geologist.

**b. Cores:** No cores planned

**c. Drill Stem Tests:** No DSTs are planned in the Green River or Wasatch formations

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior

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approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

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**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE**

Abnormal pressures and temperatures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottom hole pressure will be 0.598 psi/foot of depth.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Anticipated Commencement Date:	15 September 2010
Drilling Days:	Approximately 40
Completion Days:	Approximately 21

**11. CONTACT INFORMATION:**

Buys & Associates, Inc.  
Don Hamilton/Regulatory Specialist  
435-719-2018 Office  
435-719-2019 Fax  
starpoint@etv.net

Please use the above mentioned contact for any questions or concerns regarding the Form 3 Application for Permit to Drill, Drilling Plan or scheduling the onsite inspection. If the above mentioned contact is not available you may reach the following person:

Harvest (US) Holding, Inc.  
Bob Berry  
Drilling & Completion Manager  
281-899-5776 Office  
713-231-8319 Cell  
bberry@harvestnr.com

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		
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<b>1. TYPE OF WELL</b> Oil Well		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>PHONE NUMBER:</b> 281 899-5722 Ext		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>9. API NUMBER:</b> 43013504180000
		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
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<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/27/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 11-27-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/29/2010

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY**





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		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APD EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 12/4/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the completion reports ending 12-4-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/7/2010

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 Utah Division of  
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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> 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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>2. NAME OF OPERATOR:</b> HARVEST (US) HOLDINGS, INC		<b>9. API NUMBER:</b> 43013504180000
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>3. ADDRESS OF OPERATOR:</b> 1177 Enclave Parkway, Houston, TX, 77077		<b>PHONE NUMBER:</b> 281 899-5722 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:		<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APP EXTENSION</b>
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 12/11/2010		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Attached please find the drilling reports ending 12-11-2010		
CONFIDENTIAL - TIGHT HOLE		
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435 719-2018	<b>TITLE</b> Permitting Agent (Buys & Associates, Inc)
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/13/2010

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**DART #1-12-3-2 DAILY COMPLETION OPERATIONS SUMMARY**

<b>Date:</b>	<b>9-Dec-10</b>	<b>Current Operation:</b>	GIH w/ Casing Scraper	<b>Depth @ Midnight:</b>	10,658'	
				<b>Depth @ 06:00:</b>	10,658'	<b>Footage last 24 hrs:</b> 0'
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	9			

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	7:00	Wait on D/L
7:00	7:30	JSA Safety meeting. Open well and warm up rig hydraulics.
7:30	9:00	Trip in hole with 30 stands from derrick. Rig up pump lines and power swivel.
9:00	11:00	Break circulation. Pick up on pipe and lift same out of slips. The equilizer bar to both brake bands that is connected with 2 ball joints locked up and dropped the pipe and blocks. The driller set the slips and prevented damage to pipe or equipment. Laid down 1 joint putting bottom of bit at 10,509'. Rack back swivel and installed safety valve in tubing. Close pipe rams. Secure well while waiting on parts. Note - Basin owner said there will be no charge for today.
11:00	15:00	Circulate well & mix clay stabilizer. Basin crew removed equilizer bar and inspected equipment to ensure proper items are ordered.
15:00	16:00	Crew travel. Wait on parts.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Completion):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

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**DART #1-12-3-2 DAILY COMPLETION OPERATIONS SUMMARY**

<b>Date:</b>	<b>11-Dec-10</b>	<b>Current Operation:</b>	Rig repairs completed. Ready to work.	<b>Depth @ Midnight:</b>	10,658'	
<b>Spud Date:</b>	<b>8-Oct-10</b>	<b>Days Since Spud:</b>	11	<b>Depth @ 06:00:</b>	10,658'	<b>Footage last 24 hrs:</b> 0'

<b>Time Breakdown:</b>		
<b>From:</b>	<b>To:</b>	
0:00	7:00	SDFN. Crew travel.
7:00	7:30	JSA Safety Meeting. Break circulation.
7:30	8:30	Drill cement f/ 10,549' to 10,659'.
8:30	10:00	Circulate well clean and mix clay stabilizer.
10:00	10:30	Rig down power swivel and load out.
10:30	13:30	Lay down 6 joints of 2-7/8" tubing and stand back 138 stands in the derrick.
13:30	14:00	Lunch.
14:00	17:00	Lay down 60 joints of 2-3/8" tubing. Break down bit and scraper. Drain pump lines and close blind rams.
17:00	0:00	Crew travel. SDFN.

<b>Daily Cost:</b>
<b>Cumulative Cost:</b>
<b>AFE (Completion):</b>
<b>AFE Remaining (Dry Hole Costs):</b>
<b>Total AFE: (w/ Comp.):</b>

**RECEIVED** December 13, 2010

C

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

FORM 6

**ENTITY ACTION FORM**

Operator: Harvest (US) Holdings, Inc. Operator Account Number: N 3520  
 Address: 1177 Enclave Parkway  
city Houston  
state TX zip 77077 Phone Number: (281) 899-5722

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350418	Dart #1-12-3-2		SE	12	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>AE</i>	<i>17816</i>	17816	10/8/2010			<i>2/6/11</i>	
<b>Comments:</b> The well was spud utilizing Craigs at 0900 hrs. Conductor was set at 60' The referenced well was completed as <u>GR-WS</u> effective 2/6/2011 <span style="float: right;"><i>4/7/11</i></span>							

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**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Don Hamilton

Name (Please Print)

*Don Hamilton*

Signature

Agent for Harvest

10/15/2010

Title

Date

(5/2000)

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DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT [ ] FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] DRY [ ] OTHER [ ]
b. TYPE OF WORK: NEW WELL [x] HORIZ. LATS. [ ] DEEP-EN [ ] RE-ENTRY [ ] DIFF. RESVR. [ ] OTHER vertical

2. NAME OF OPERATOR: Harvest (US) Holdings, Inc.

3. ADDRESS OF OPERATOR: 1177 Enclave Parkway CITY Houston STATE TX ZIP 77077
PHONE NUMBER: (281) 899-5722

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1510 FNL 1342 FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1510 FNL 1342 FWL
AT TOTAL DEPTH: ~~1510 FNL 1342 FWL~~ 1784 FNL 1305 FWL

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Dart #1-12-3-2
9. API NUMBER: 4301350418
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 12 3S 2W U
12. COUNTY: Duchesne 13. STATE: UTAH

14. DATE SPUNNED: 10/8/2010 15. DATE T.D. REACHED: 11/15/2010 16. DATE COMPLETED: 2/6/2011
ABANDONED [ ] READY TO PRODUCE [x] 17. ELEVATIONS (DF, RKB, RT, GL): 5,308' GL

18. TOTAL DEPTH: MD 10,795 TVD 10,795 8'8" 19. PLUG BACK T.D.: MD 10,673 TVD 10,673 6'7" 20. IF MULTIPLE COMPLETIONS, HOW MANY? 8 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
GR, Neutron, Dual Laterolog, Micro Spherically Focused Log
CBL, GR, CCL
23. WAS WELL CORED? NO [x] YES [ ] (Submit analysis)
WAS DST RUN? NO [x] YES [ ] (Submit report)
DIRECTIONAL SURVEY? NO [ ] YES [x] (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

Table with columns: HOLE SIZE, SIZE/GRADE, WEIGHT (#/L), TOP (MD), BOTTOM (MD), STAGE CEMENTER DEPTH, CEMENT TYPE & NO. OF SACKS, SLURRY VOLUME (BBL), CEMENT TOP \*\*, AMOUNT PULLED

25. TUBING RECORD

Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

26. PRODUCING INTERVALS GR-WS

Table with columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD), INTERVAL (Top/Bot - MD), SIZE, NO. HOLES, PERFORATION STATUS

27. PERFORATION RECORD

Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

29. ENCLOSED ATTACHMENTS: [x] ELECTRICAL/MECHANICAL LOGS [x] GEOLOGIC REPORT [ ] DST REPORT [x] DIRECTIONAL SURVEY [ ] SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION [ ] CORE ANALYSIS [ ] OTHER:
30. WELL STATUS: Producing

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**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED: 2/1/2011		TEST DATE: 2/9/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 703	GAS – MCF: 476	WATER – BBL: 754	PROD. METHOD: flowing
CHOKE SIZE: 20/64	TBG. PRESS. 1,500	CSG. PRESS. 850	API GRAVITY	BTU – GAS	GAS/OIL RATIO 677	24 HR PRODUCTION RATES: →	OIL – BBL: 703	GAS – MCF: 476	WATER – BBL: 754	INTERVAL STATUS: open

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

Flared

**33. 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.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Douglas Creek	7,939
				Castle Peak	8,146
				Uteland Butte	8,772
				Wasatch	9,190

**35. ADDITIONAL REMARKS (Include plugging procedure)**

See geologic report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Don Hamilton TITLE Agent for Harvest (US) Holdings, Inc.  
 SIGNATURE \_\_\_\_\_ DATE 2/20/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

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# End of Well Recap FOR

**Harvest Holdings, Inc.**  
**Dart 1-12-3-2**  
**Duchesne Co., UT**

Proposal No. 02457-432-21

Presented By:

---

Pat Rasmussen  
Regional Manager

---

Bret Wolford  
Well Planner



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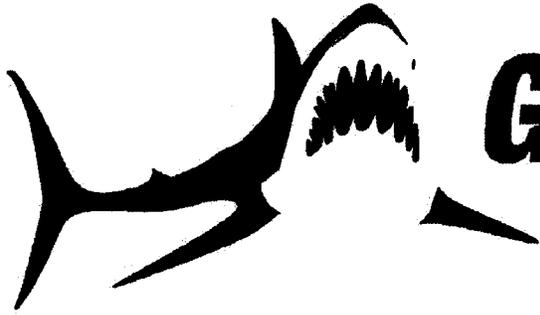


# Survey Report & Plot

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**GREAT WHITE**

*DIRECTIONAL SERVICES, LLC*

**Survey Certification Sheet**

Report Date: 11-22-10

GWDS Job #: 02457-432-21 / Vertical Control

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Operator: Harvest Holdings, Inc.

Well Name: Dart 1-12-3-2

API#: 43-013-50418

County/State: Duchesne Co., UT

Well SHL: 1510' FNL & 1342' FWL (SENW) Sec. 12-T3S-R2W

Well SHL: 40° 14' 23.849" N (NAD27)

110° 3' 42.509" W (NAD27)

DIV. OF OIL, GAS & MINING

Drilling Rig Contractor: H&P 319

---

Surveyed Dates: 10/24/10-11/3/10

Surveyed from a depth of: OH: 3152.00' MD to 9657.00' MD

Type of Survey: MWD Surveys (STB=50')

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Great White Directional Services, LLC. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore Coordinates are calculated using minimum curvature method.

**Bret Wolford**

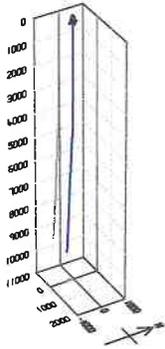
Great White Directional Services, LLC - Well Planner



Project: Duchesne Co., UT  
 Site: Sec.12-T3S-R2W  
 Well: Dart #1-12-3-2  
 Wellbore: Wellbore #1  
 Design: Wellbore #1  
 Latitude: 40° 14' 23.849 N  
 Longitude: 110° 3' 42.509 W  
 Ground Level: 5308.00  
 WELL @ 5308.00ft (Original Well Elev)



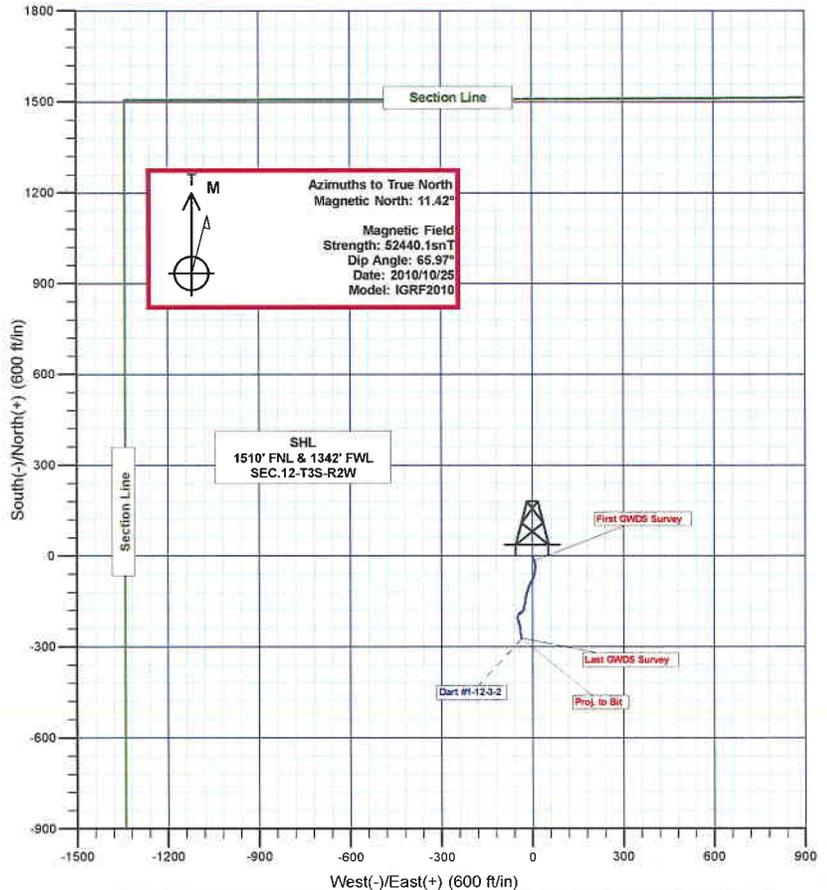
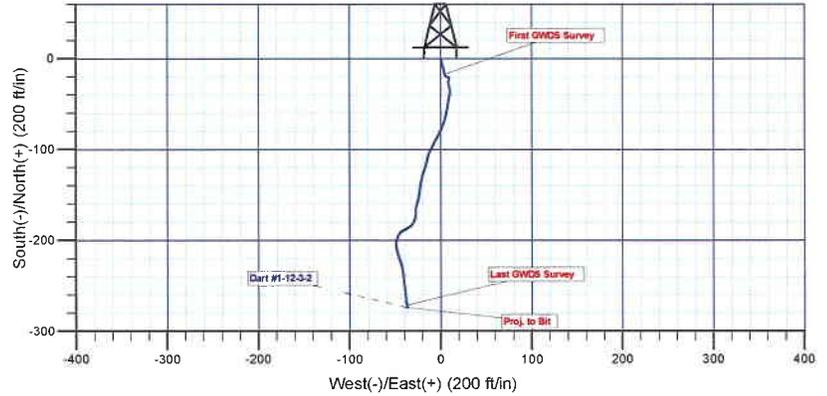
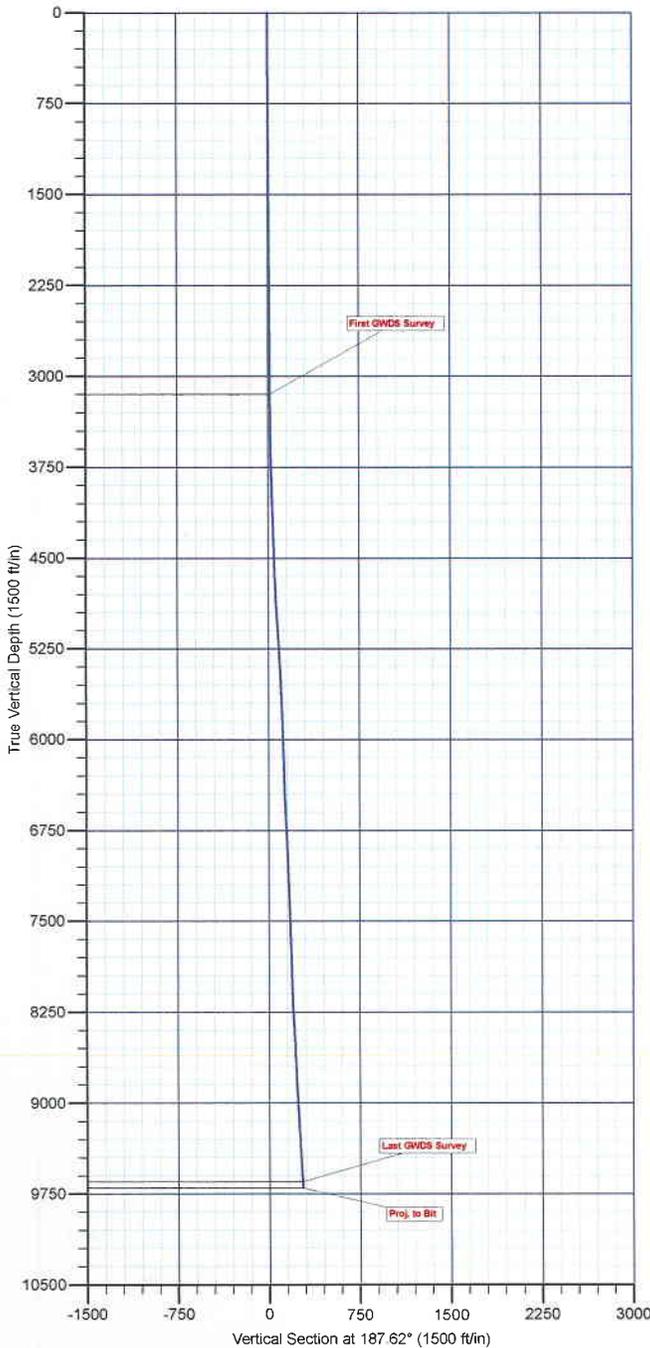
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PROJECT DETAILS: Duchesne Co., UT	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: Utah Central 4302	
System Datum: Mean Sea Level	

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference: Well Dart #1-12-3-2, True North	
Vertical (TVD) Reference: WELL @ 5308.00ft (Original Well Elev)	
Section (VS) Reference: Slot - (0.00N, 0.00E)	
Measured Depth Reference: WELL @ 5308.00ft (Original Well Elev)	
Calculation Method: Minimum Curvature	

WELL DETAILS: Dart #1-12-3-2					
Ground Level: 5308.00					
+N/-S	+E/-W	Northing	Ground Level Easting	Latitude	Longitude
0.00	0.00	697679.004	2401476.961	40° 14' 23.849 N	110° 3' 42.509 W
Slot					



Survey: Survey #1 (Dart #1-12-3-2/Wellbore #1)  
 Created By: Bret Wolford Date: 14:54, November 22 2010



# Harvest (US) Holdings, Inc.

Duchesne Co., UT  
Sec.12-T3S-R2W  
Dart #1-12-3-2

Wellbore #1

Survey: Survey #1

## Standard Survey Report

22 November, 2010





# Great White Directional Services, LLC

## Survey Report



**Company:** Harvest (US) Holdings, Inc.  
**Project:** Duchesne Co., UT  
**Site:** Sec.12-T3S-R2W  
**Well:** Dart #1-12-3-2  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Dart #1-12-3-2  
**TVD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**MD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<b>Project</b>	Duchesne Co., UT		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

<b>Site</b>	Sec.12-T3S-R2W		
<b>Site Position:</b>		<b>Northing:</b>	697,679.013 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,401,476.961 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 14' 23.849 N
		<b>Longitude:</b>	110° 3' 42.509 W
		<b>Grid Convergence:</b>	0.92 °

<b>Well</b>	Dart #1-12-3-2		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 697,679.004 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,401,476.961 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 14' 23.849 N
		<b>Longitude:</b>	110° 3' 42.509 W
		<b>Ground Level:</b>	5,308.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/10/25	11.42	65.97	52,440

<b>Design</b>	Wellbore #1			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	187.62

<b>Survey Program</b>	Date 2010/11/22			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
3,152.00	9,707.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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	
<b>First GWDS Survey</b>										
3,152.00	0.66	164.71	3,151.93	-17.51	4.79	16.72	0.02	0.02	0.00	
3,246.00	0.53	132.46	3,245.93	-18.33	5.25	17.47	0.38	-0.14	-34.31	
3,341.00	0.70	132.02	3,340.92	-19.01	6.01	18.05	0.18	0.18	-0.46	
3,455.00	1.01	139.93	3,454.91	-20.25	7.17	19.12	0.29	0.27	6.94	
3,529.00	1.23	82.36	3,528.90	-20.64	8.38	19.35	1.48	0.30	-77.80	
3,622.00	1.10	169.72	3,621.88	-21.39	9.53	19.93	1.73	-0.14	93.94	
3,718.00	2.15	212.79	3,717.85	-23.81	8.72	22.44	1.61	1.09	44.86	
3,813.00	1.58	156.72	3,812.80	-26.51	8.27	25.18	1.92	-0.60	-59.02	
3,907.00	1.85	164.62	3,906.76	-29.16	9.18	27.69	0.38	0.29	8.40	
4,001.00	2.55	167.00	4,000.69	-32.66	10.06	31.04	0.75	0.74	2.53	
4,095.00	1.85	188.09	4,094.62	-36.20	10.31	34.51	1.13	-0.74	22.44	



# Great White Directional Services, LLC

## Survey Report



**Company:** Harvest (US) Holdings, Inc.  
**Project:** Duchesne Co., UT  
**Site:** Sec.12-T3S-R2W  
**Well:** Dart #1-12-3-2  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Dart #1-12-3-2  
**TVD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**MD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### 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)
4,190.00	1.80	192.48	4,189.57	-39.18	9.77	37.53	0.16	-0.05	4.62
4,285.00	1.89	185.63	4,284.52	-42.19	9.30	40.59	0.25	0.09	-7.21
4,379.00	2.15	194.15	4,378.47	-45.45	8.71	43.89	0.42	0.28	9.06
4,473.00	2.15	188.79	4,472.40	-48.90	8.01	47.40	0.21	0.00	-5.70
4,567.00	2.20	188.97	4,566.33	-52.42	7.46	50.97	0.05	0.05	0.19
4,661.00	2.30	191.34	4,660.26	-56.05	6.81	54.65	0.15	0.11	2.52
4,756.00	2.41	191.25	4,755.18	-59.88	6.05	58.55	-0.12	0.12	-0.09
4,850.00	2.00	192.43	4,849.11	-63.42	5.31	62.16	0.44	-0.44	1.26
4,943.00	3.30	194.33	4,942.01	-67.60	4.30	66.43	1.40	1.40	2.04
5,038.00	3.96	203.03	5,036.82	-73.27	2.34	72.31	0.90	0.69	9.16
5,133.00	3.91	203.65	5,131.59	-79.25	-0.25	78.59	0.07	-0.05	0.65
5,227.00	3.43	206.90	5,225.40	-84.70	-2.80	84.32	0.56	-0.51	3.46
5,321.00	3.40	209.00	5,319.23	-89.64	-5.43	89.57	0.14	-0.03	2.23
5,414.00	3.80	207.60	5,412.05	-94.79	-8.19	95.04	0.44	0.43	-1.51
5,508.00	2.90	206.00	5,505.89	-99.68	-10.68	100.22	0.96	-0.96	-1.70
5,602.00	1.90	208.30	5,599.81	-103.19	-12.46	103.93	1.07	-1.06	2.45
5,697.00	2.00	200.00	5,694.75	-106.14	-13.77	107.03	0.32	0.11	-8.74
5,791.00	1.70	193.50	5,788.70	-109.04	-14.66	110.02	0.39	-0.32	-6.91
5,885.00	2.40	189.70	5,882.64	-112.33	-15.32	113.37	0.76	0.74	-4.04
5,979.00	2.20	194.30	5,976.56	-116.02	-16.09	117.13	0.29	-0.21	4.89
6,074.00	1.50	202.90	6,071.51	-118.93	-17.03	120.14	0.79	-0.74	9.05
6,168.00	2.40	197.60	6,165.46	-121.94	-18.10	123.26	0.98	0.96	-5.64
6,261.00	2.10	194.00	6,258.39	-125.45	-19.10	126.88	0.36	-0.32	-3.87
6,357.00	1.40	197.00	6,354.34	-128.28	-19.87	129.78	0.74	-0.73	3.12
6,451.00	2.00	195.30	6,448.30	-130.96	-20.64	132.54	0.64	0.64	-1.81
6,545.00	3.00	190.50	6,542.21	-134.96	-21.52	136.62	1.09	1.06	-5.11
6,639.00	2.70	187.70	6,636.09	-139.57	-22.27	141.29	0.35	-0.32	-2.98
6,734.00	2.70	190.40	6,730.99	-143.99	-22.97	145.77	0.13	0.00	2.84
6,828.00	2.10	187.30	6,824.91	-147.88	-23.59	149.70	0.65	-0.64	-3.30
6,922.00	1.80	186.70	6,918.85	-151.05	-23.98	152.90	0.32	-0.32	-0.64
7,017.00	1.50	194.50	7,013.81	-153.74	-24.46	155.62	0.39	-0.32	8.21
7,111.00	2.00	197.50	7,107.77	-156.49	-25.27	158.46	0.54	0.53	3.19
7,206.00	2.50	194.80	7,202.69	-160.08	-26.29	162.15	0.54	0.53	-2.84
7,300.00	2.30	187.20	7,296.61	-163.93	-27.05	166.07	0.40	-0.21	-8.09
7,394.00	1.80	183.90	7,390.55	-167.27	-27.39	169.43	0.55	-0.53	-3.51
7,488.00	2.10	181.70	7,484.50	-170.47	-27.54	172.62	0.33	0.32	-2.34
7,583.00	2.50	186.50	7,579.42	-174.27	-27.83	176.42	0.47	0.42	5.05
7,677.00	2.10	208.60	7,673.35	-177.82	-28.89	180.08	1.03	-0.43	23.51
7,771.00	2.60	210.60	7,767.27	-181.16	-30.79	183.65	0.54	0.53	2.13
7,865.00	2.00	226.30	7,861.19	-184.13	-33.07	186.89	0.92	-0.64	16.70
7,960.00	2.50	238.50	7,956.12	-186.36	-36.03	189.49	0.73	0.53	12.84
8,057.00	2.70	248.90	8,053.02	-188.29	-39.97	191.93	0.53	0.21	10.72
8,148.00	2.50	229.60	8,143.93	-190.35	-43.48	194.43	0.98	-0.22	-21.21
8,243.00	3.50	207.90	8,238.80	-194.25	-46.41	198.69	1.58	1.05	-22.84
8,337.00	3.40	197.20	8,332.63	-199.45	-48.58	204.13	0.69	-0.11	-11.38
8,431.00	3.00	177.80	8,426.49	-204.57	-49.31	209.30	1.22	-0.43	-20.64
8,526.00	3.10	162.80	8,521.35	-209.51	-48.45	214.09	0.84	0.11	-15.79
8,620.00	2.90	168.10	8,615.22	-214.26	-47.21	218.63	0.36	-0.21	5.64
8,714.00	3.10	161.20	8,709.09	-219.00	-45.90	223.15	0.44	0.21	-7.34
8,808.00	3.30	160.90	8,802.95	-223.96	-44.20	227.84	0.21	0.21	-0.32
8,903.00	2.80	166.60	8,897.81	-228.80	-42.77	232.45	0.61	-0.53	6.00
8,997.00	2.50	171.70	8,991.71	-233.06	-41.94	236.57	0.41	-0.32	5.43
9,091.00	2.90	173.10	9,085.61	-237.45	-41.36	240.84	0.43	0.43	1.49
9,185.00	3.60	174.00	9,179.46	-242.75	-40.76	246.01	0.75	0.74	0.96



# Great White Directional Services, LLC

## Survey Report



**Company:** Harvest (US) Holdings, Inc.  
**Project:** Duchesne Co., UT  
**Site:** Sec.12-T3S-R2W  
**Well:** Dart #1-12-3-2  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Dart #1-12-3-2  
**TVD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**MD Reference:** WELL @ 5308.00ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

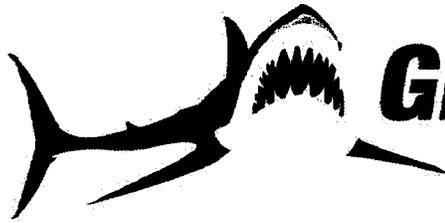
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,280.00	4.20	174.00	9,274.24	-249.17	-40.09	252.29	0.63	0.63	0.00
9,374.00	3.90	172.60	9,368.00	-255.77	-39.32	258.72	0.34	-0.32	-1.49
9,469.00	3.40	173.50	9,462.81	-261.77	-38.58	264.57	0.53	-0.53	0.95
9,563.00	3.20	172.40	9,556.65	-267.14	-37.92	269.81	0.22	-0.21	-1.17
<b>Last GWDS Survey</b>									
9,657.00	2.50	167.50	9,650.54	-271.74	-37.13	274.27	0.79	-0.74	-5.21
<b>Proj. to Bit</b>									
9,707.00	2.50	167.50	9,700.49	-273.87	-36.66	276.31	0.00	0.00	0.00

### Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,152.00	3,151.93	-17.51	4.79	First GWDS Survey
9,657.00	9,650.54	-271.74	-37.13	Last GWDS Survey
9,707.00	9,700.49	-273.87	-36.66	Proj. to Bit

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

CONFIDENTIAL



**GREAT WHITE**

***DIRECTIONAL SERVICES, L.L.C.***

# Daily Reports

RECEIVED

MAR 14 2011

DIV. OF OIL, GAS & MINING



JOB NO.:	02457-432-21	Report Time:	2400	1 of 16
Company:	Harvest Holdings Inc	API JOB #		
LOCATION:	Duchesne	WORK ORDER#		
RIG NAME:	H&P 319	FIELD:		
STATE:	UT	Township:		
COUNTY:	Duchesne	SECTRANGE:		
WELL NAME:	Dart 1-12-3-2			

From Friday, October 22, 2010 at 0000 to Friday, October 22, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	0	SPP	0	FlowRate	0-0		0
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID		0	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	0.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA		
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	N/A		
Second Directional :	Jessie Harbin			Signature:					
MWD Operator1	Chris Wilson								
MWD Operator2	Mark Apuna								
Directional Company:	Great White								
Geologist:									
Company Man:	Bill Calobreves			Daily Cost	\$3,450.00				
Incl. In:	1.85	Azm. In:	188.09	Incl. Out:	2.8	Azm. Out:	166.6	Cummulative Cost:	\$3,450.00

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
22-Oct-10	00:00	12:00	12.00	3055	0	Standby	Travel to Job
22-Oct-10	12:00	18:00	6.00	3055	0	N/U BOPS	N/U BOPS
22-Oct-10	18:00	24:00	6.00	3055	0	Test BOPS	Test BOPS



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	2 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Saturday, October 23, 2010 at 0000 to Saturday, October 23, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3050.00	Rotary Hours	4.83	WOB	21	Pick UP	0	Slack Off	0	SPM	
End Depth	3108.00	Circulating Hours	0.00	RAB	0	SPP	2000	FlowRate	0 - 490	110	
Total Drilled:	58.00	Avg. Total ROP:	12.00	<b>Mud Data</b>							
Total Rotary Drilled:	58.00	Avg. Rotary ROP:	12.00	Type		PV	0	SOLID	0		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	17.50	Percent Slide:	.00	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA		
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 2:PDC MS1666DU, 7/82.9MTR, NMDC, Gap Sub, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,		
Second Directional :				Signature:					
MWD Operator1	Chris Wilson								
MWD Operator2	Mark Apuna								
Directional Company:	Great White								
Geologist:									
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00				
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$10,350.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-Oct-10	00:00	06:30	6.50	3050	0	Test BOPS	Test BOPS
23-Oct-10	06:30	09:30	3.00	3050	0	Change BHA	Change BHA
23-Oct-10	09:30	13:25	3.92	3050	3050	TIH	TIH
23-Oct-10	13:25	16:50	3.42	3050	3077	Drilling Cement	
23-Oct-10	16:50	17:05	0.25	3077	3077	Other	Other/FIT Test
23-Oct-10	17:05	18:30	1.42	3077	3108	Drilling	
23-Oct-10	18:30	21:30	3.00	3108	3108	POOH	POOH/MWD Failure
23-Oct-10	21:30	22:30	1.00	3108	3108	Change BHA	Change BHA
23-Oct-10	22:30	24:00	1.50	3108	3108	TIH	



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	3 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

From Sunday, October 24, 2010 at 0000 to Sunday, October 24, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	3139.00	Rotary Hours	19.33	WOB	21	Pick UP	0	Slack Off	0	SPM				
End Depth	4162.00	Circulating Hours	0.75	RAB	0	SPP	2000	FlowRate	490 - 490	112				
Total Drilled:	1023.00	Avg. Total ROP:	49.50	<b>Mud Data</b>										
Total Rotary Drilled:	1006.00	Avg. Rotary ROP:	52.03	Type		PV	0	SOLID	0					
Total Drilled Sliding:	17.00	Avg. Slide ROP:	12.75	Weight	9.6	GAS	0	YP	0	BHT°	0			
Slide Hours:	1.33	Percent Rotary:	98.34	Viscosity	35	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	1.66	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 2:PDC MS1666DU, 7/82.9MTR, NMDC, Gap Sub, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,							
Second Directional :				Signature:										
MWD Operator1	Chris Wilson													
MWD Operator2	Mark Apuna													
Directional Company:	Great White													
Geologist:														
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00									
Incl. In:	0.66	Azm. In:	164.71	Incl. Out:	1.85	Azm. Out:	188.09	Cummulative Cost:	\$17,250.00					

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-Oct-10	00:00	00:40	0.67	3139	3139	TIH	TIH
24-Oct-10	00:40	02:00	1.33	3139	3202	Drilling	Drilling - (WOB:21; :490;RPM:65)
24-Oct-10	02:00	02:05	0.08	3202	3202	Survey & Conn.	Survey & Conn
24-Oct-10	02:05	02:40	0.58	3202	3234	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	02:40	03:25	0.75	3234	3234	Rig Service-Inhole	Rig Service-Inhole
24-Oct-10	03:25	04:05	0.67	3234	3296	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	04:05	04:10	0.08	3296	3296	Survey & Conn.	Survey & Conn.
24-Oct-10	04:10	05:25	1.25	3296	3391	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	05:25	05:30	0.08	3391	3391	Survey & Conn.	Survey & Conn.
24-Oct-10	05:30	07:30	2.00	3391	3485	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	07:30	07:35	0.08	3485	3485	Survey & Conn.	Survey & Conn.
24-Oct-10	07:35	09:00	1.42	3485	3579	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	09:00	09:05	0.08	3579	3579	Survey & Conn.	Survey & Conn.
24-Oct-10	09:05	10:35	1.50	3579	3672	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	10:35	10:45	0.17	3672	3672	Survey & Conn.	Survey & Conn.
24-Oct-10	10:45	12:15	1.50	3672	3768	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	12:15	12:20	0.08	3768	3768	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-Oct-10	12:20	12:40	0.33	3768	3773	Sliding	
24-Oct-10	12:40	13:05	0.42	3773	3799	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	13:05	14:00	0.92	3799	3799	Rig repair	Rig repair
24-Oct-10	14:00	15:10	1.17	3799	3863	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	15:10	15:15	0.08	3863	3863	Survey & Conn.	Survey & Conn.
24-Oct-10	15:15	17:45	2.50	3863	3957	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	17:45	17:50	0.08	3957	3957	Survey & Conn.	Survey & Conn.
24-Oct-10	17:50	20:45	2.92	3957	4051	Drilling	Drilling - (WOB:21; :490;RPM:70)
24-Oct-10	20:45	20:50	0.08	4051	4051	Survey & Conn.	Survey & Conn.
24-Oct-10	20:50	21:50	1.00	4051	4063	Sliding	Sliding - (WOB:21; :490;TFO:20)
24-Oct-10	21:50	23:40	1.83	4063	4145	Drilling	340Sliding - (WOB:21; :490;TFO:20)
24-Oct-10	23:40	23:45	0.08	4145	4145	Survey & Conn.	Survey & Conn.
24-Oct-10	23:45	24:00	0.25	4145	4162	Drilling	Drilling - (WOB:21; :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	4 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Monday, October 25, 2010 at 0000 to Monday, October 25, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters									
Start Depth	4162.00	Rotary Hours	15.42	WOB	21	Pick UP	0	Slack Off	0	SPM			
End Depth	5184.00	Circulating Hours	0.00	RAB	0	SPP	2100	FlowRate	490 - 490	112			
Total Drilled:	1022.00	Avg. Total ROP:	44.27	<b>Mud Data</b>									
Total Rotary Drilled:	914.00	Avg. Rotary ROP:	59.29	Type				PV	47	SOLID	0		
Total Drilled Sliding:	108.00	Avg. Slide ROP:	14.09	Weight	9.7	GAS	0	YP	0	BHT°	0		
Slide Hours:	7.67	Percent Rotary:	89.43	Viscosity	35	SAND	0	PH	0	Flow T°	0		
Below Rotary Hrs.	24.00	Percent Slide:	10.57	Chlorides	0	WL	0			Oil %	0		

PERSONNEL				CASING			BHA		
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 2:PDC MS1666DU, 7/82.9MTR, NMDC, Gap Sub, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,		
Second Directional :				Signature:					
MWD Operator1	Chris Wilson								
MWD Operator2	Mark Apuna								
Directional Company:	Great White								
Geologist:									
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00				
Incl. In:	1.85	Azm. In:	188.09	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$24,150.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-Oct-10	00:00	00:55	0.92	4162	4240	Drilling	Drilling - (WOB:21; :490;RPM:70)
25-Oct-10	00:55	01:00	0.08	4240	4240	Survey & Conn.	Survey & Conn.
25-Oct-10	01:00	02:00	1.00	4240	4335	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	02:00	02:05	0.08	4335	4335	Survey & Conn.	Survey & Conn.
25-Oct-10	02:05	03:25	1.33	4335	4429	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	03:25	03:30	0.08	4429	4429	Survey & Conn.	Survey & Conn.
25-Oct-10	03:30	04:35	1.08	4429	4523	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	04:35	04:40	0.08	4523	4523	Survey & Conn.	Survey & Conn.
25-Oct-10	04:40	05:50	1.17	4523	4617	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	05:50	05:55	0.08	4617	4617	Survey & Conn.	Survey & Conn.
25-Oct-10	05:55	07:25	1.50	4617	4711	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	07:25	07:30	0.08	4711	4711	Survey & Conn.	Survey & Conn.
25-Oct-10	07:30	09:30	2.00	4711	4806	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	09:30	09:35	0.08	4806	4806	Survey & Conn.	Survey & Conn.
25-Oct-10	09:35	10:30	0.92	4806	4820	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
25-Oct-10	10:30	12:10	1.67	4820	4900	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	12:10	12:15	0.08	4900	4900	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-Oct-10	12:15	13:10	0.92	4900	4920	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
25-Oct-10	13:10	14:30	1.33	4920	4993	Drilling	Drilling - (WOB:20;GPM :490;RPM:70)
25-Oct-10	14:30	14:35	0.08	4993	4993	Survey & Conn.	Survey & Conn.
25-Oct-10	14:35	16:00	1.42	4993	5008	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
25-Oct-10	16:00	16:30	0.50	5008	5025	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
25-Oct-10	16:30	17:40	1.17	5025	5042	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
25-Oct-10	17:40	18:50	1.17	5042	5088	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
25-Oct-10	18:50	18:55	0.08	5088	5088	Survey & Conn.	Survey & Conn.
25-Oct-10	18:55	20:50	1.92	5088	5108	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
25-Oct-10	20:50	21:10	0.33	5108	5125	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
25-Oct-10	21:10	22:30	1.33	5125	5147	Sliding	Sliding - (WOB:21;GPM :490;TFO:-180)
25-Oct-10	22:30	23:40	1.17	5147	5183	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
25-Oct-10	23:40	23:45	0.08	5183	5183	Survey & Conn.	Survey & Conn.
25-Oct-10	23:45	24:00	0.25	5183	5184	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	5 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTORANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Tuesday, October 26, 2010 at 0000 to Tuesday, October 26, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	5184.00	Rotary Hours	4.92	WOB	21	Pick UP	0	Slack Off	0	SPM	
End Depth	5411.00	Circulating Hours	1.75	RAB	0	SPP	2100	FlowRate	490 - 490	112	
Total Drilled:	227.00	Avg. Total ROP:	20.95	Mud Data							
Total Rotary Drilled:	197.00	Avg. Rotary ROP:	40.07	Type		PV	47	SOLID	0		
Total Drilled Sliding:	30.00	Avg. Slide ROP:	5.07	Weight	9.7	GAS	0	YP	0	BHT°	0
Slide Hours:	5.92	Percent Rotary:	86.78	Viscosity	35	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	13.22	Chlorides	0	WL	0	Oil %	0		

PERSONNEL				CASING			BHA				
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 3:Bit , 7/8 2.9, NMDC, Gap Sub, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,				
Second Directional :				Signature:							
MWD Operator1	Chris Wilson										
MWD Operator2	Mark Apuna										
Directional Company:	Great White										
Geologist:											
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00						
Incl. In:	3.91	Azm. In:	204	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$31,050.00		

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-Oct-10	00:00	04:15	4.25	5184	5203	Sliding	Sliding - (WOB:21;GPM :490;TFO:-180)
26-Oct-10	04:15	06:30	2.25	5203	5308	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
26-Oct-10	06:30	06:35	0.08	5308	5308	Survey & Conn.	Survey & Conn.
26-Oct-10	06:35	08:15	1.67	5308	5319	Sliding	Drilling - (WOB:21;GPM :490;RPM:70)
26-Oct-10	08:15	10:00	1.75	5319	5319	Circulating	Circulating
26-Oct-10	10:00	15:00	5.00	5319	5319	POOH	POOH
26-Oct-10	15:00	16:30	1.50	5319	5319	Change BHA	Change BHA
26-Oct-10	16:30	21:20	4.83	5319	5319	TIH	
26-Oct-10	21:20	24:00	2.67	5319	5411	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	6 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Wednesday, October 27, 2010 at 0000 to Wednesday, October 27, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	5411.00	Rotary Hours	3.58	WOB	21	Pick UP	0	Slack Off	0	SPM	
End Depth	5575.00	Circulating Hours	0.00	RAB	0	SPP	2100	FlowRate	490 - 490	112	
Total Drilled:	164.00	Avg. Total ROP:	26.24	Mud Data							
Total Rotary Drilled:	127.00	Avg. Rotary ROP:	35.44	Type		PV	47	SOLID	0		
Total Drilled Sliding:	37.00	Avg. Slide ROP:	13.88	Weight	9.7	GAS	0	YP	0	BHT°	0
Slide Hours:	2.67	Percent Rotary:	77.44	Viscosity	35	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	15.50	Percent Slide:	22.56	Chlorides	0	WL	0	Oil %	0		
PERSONNEL				CASING			BHA				
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 4:Bit , 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,				
Second Directional :				Signature:							
MWD Operator1	Chris Wilson										
MWD Operator2											
Directional Company:	Great White										
Geologist:											
Company Man:	Bill Calobreves						Daily Cost	\$6,900.00			
Incl. In:	3.91	Azm. In:	204	Incl. Out:	2.9	Azm. Out:	206	Cummulative Cost:	\$37,950.00		

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-Oct-10	00:00	01:30	1.50	5411	5411	Other	Other/Work on MWD
27-Oct-10	01:30	05:00	3.50	5411	5411	POOH	POOH
27-Oct-10	05:00	13:30	8.50	5411	5411	Standby	Standby/Wait on mud pulse kit and tool
27-Oct-10	13:30	14:00	0.50	5411	5411	Change BHA	Change BHA
27-Oct-10	14:00	17:35	3.58	5411	5411	TIH	TIH
27-Oct-10	17:35	19:40	2.08	5411	5464	Drilling	
27-Oct-10	19:40	19:45	0.08	5464	5464	Survey & Conn.	Survey & Conn.
27-Oct-10	19:45	21:30	1.75	5464	5484	Sliding	Sliding - (WOB:21;GPM :490;TFO:0)
27-Oct-10	21:30	23:00	1.50	5484	5558	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
27-Oct-10	23:00	23:05	0.08	5558	5558	Survey & Conn.	Survey & Conn.
27-Oct-10	23:05	24:00	0.92	5558	5575	Sliding	Sliding - (WOB:21;GPM :490;TFO:0)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	7 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Thursday, October 28, 2010 at 0000 to Thursday, October 28, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	5575.00	Rotary Hours	16.83	WOB	16	Pick UP	0	Slack Off	0	SPM	
End Depth	6407.00	Circulating Hours	0.33	RAB	0	SPP	2200	FlowRate	490 - 490	112	
Total Drilled:	832.00	Avg. Total ROP:	36.17	<b>Mud Data</b>							
Total Rotary Drilled:	744.00	Avg. Rotary ROP:	44.20	Type		PV	47	SOLID	0		
Total Drilled Sliding:	88.00	Avg. Slide ROP:	14.27	Weight	9.7	GAS	0	YP	0	BHT°	0
Slide Hours:	6.17	Percent Rotary:	89.42	Viscosity	35	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	10.58	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA		
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 4:Bit , 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,		
Second Directional :				Signature:					
MWD Operator1	Chris Wilson								
MWD Operator2									
Directional Company:	Great White								
Geologist:									
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00				
Incl. In:	2.9	Azm. In:	206	Incl. Out:	1.4	Azm. Out:	197	Cummulative Cost:	\$44,850.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-Oct-10	00:00	00:20	0.33	5575	5578	Sliding	Sliding - (WOB:21;GPM :490;TFO:0)
28-Oct-10	00:20	01:45	1.42	5578	5652	Drilling	Drilling - (WOB:21;GPM :490;RPM:70)
28-Oct-10	01:45	01:50	0.08	5652	5652	Survey & Conn.	Survey & Conn.
28-Oct-10	01:50	03:50	2.00	5652	5747	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	03:50	03:55	0.08	5747	5747	Survey & Conn.	Survey & Conn.
28-Oct-10	03:55	05:20	1.42	5747	5757	Sliding	Sliding - (WOB:21;GPM :490;TFO:0)
28-Oct-10	05:20	07:15	1.92	5757	5841	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	07:15	07:20	0.08	5841	5841	Survey & Conn.	Survey & Conn.
28-Oct-10	07:20	09:10	1.83	5841	5935	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	09:10	09:15	0.08	5935	5935	Survey & Conn.	Survey & Conn.
28-Oct-10	09:15	10:20	1.08	5935	5950	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
28-Oct-10	10:20	12:50	2.50	5950	6029	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	12:50	12:55	0.08	6029	6029	Survey & Conn.	Survey & Conn.
28-Oct-10	12:55	14:00	1.08	6029	6049	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
28-Oct-10	14:00	15:35	1.58	6049	6124	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	15:35	15:40	0.08	6124	6124	Survey & Conn.	Survey & Conn.
28-Oct-10	15:40	17:30	1.83	6124	6218	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-Oct-10	17:30	17:50	0.33	6218	6218	RIG Service-Inhole	Rig Service-Inhole
28-Oct-10	17:50	17:55	0.08	6218	6218	Survey & Conn.	Survey & Conn.
28-Oct-10	17:55	19:05	1.17	6218	6238	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
28-Oct-10	19:05	21:00	1.92	6238	6311	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
28-Oct-10	21:00	21:05	0.08	6311	6311	Survey & Conn.	Survey & Conn.
28-Oct-10	21:05	22:10	1.08	6311	6331	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
28-Oct-10	22:10	24:00	1.83	6331	6407	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	8 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

From Friday, October 29, 2010 at 0000 to Friday, October 29, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	6407.00	Rotary Hours	14.17	WOB	16	Pick UP	0	Slack Off	0	SPM	
End Depth	6940.00	Circulating Hours	0.83	RAB	0	SPP	2200	FlowRate	490 - 490	112	
Total Drilled:	533.00	Avg. Total ROP:	23.69	<b>Mud Data</b>							
Total Rotary Drilled:	445.00	Avg. Rotary ROP:	31.41	Type		PV	47	SOLID	0		
Total Drilled Sliding:	88.00	Avg. Slide ROP:	10.56	Weight	9.7	GAS	0	YP	0	BHT°	0
Slide Hours:	8.33	Percent Rotary:	83.49	Viscosity	35	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	16.51	Chlorides	0	WL	0			Oil %	0

PERSONNEL				CASING			BHA			
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 4:Bit , 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,			
Second Directional :										
MWD Operator1	Chris Wilson									
MWD Operator2										
Directional Company:	Great White									
Geologist:				Signature:						
Company Man:	Bill Calobreves			Daily Cost		\$6,900.00				
Incl. In:	1.4	Azm. In:	197	Incl. Out:	2.1	Azm. Out:	187.3	Cummulative Cost:	\$51,750.00	

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Oct-10	00:00	00:05	0.08	6407	6407	Survey & Conn.	Survey & Conn.
29-Oct-10	00:05	02:30	2.42	6407	6501	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	02:30	02:35	0.08	6501	6501	Survey & Conn.	Survey & Conn.
29-Oct-10	02:35	04:40	2.08	6501	6595	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	04:40	04:45	0.08	6595	6595	Survey & Conn.	Survey & Conn.
29-Oct-10	04:45	06:05	1.33	6595	6615	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
29-Oct-10	06:05	08:10	2.08	6615	6689	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	08:10	09:00	0.83	6689	6689	Rig Service-Inhole	Rig Service-Inhole
29-Oct-10	09:00	09:15	0.25	6689	6689	Survey & Conn.	Survey & Conn.
29-Oct-10	09:15	10:30	1.25	6689	6709	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
29-Oct-10	10:30	12:15	1.75	6709	6784	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	12:15	12:20	0.08	6784	6784	Survey & Conn.	
29-Oct-10	12:20	13:40	1.33	6784	6799	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
29-Oct-10	13:40	14:30	0.83	6799	6815	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	14:30	15:50	1.33	6815	6830	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
29-Oct-10	15:50	18:10	2.33	6830	6878	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	18:10	18:15	0.08	6878	6878	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Oct-10	18:15	19:40	1.42	6878	6888	Sliding	Sliding - (WOB:21;GPM :490;TFO:20)
29-Oct-10	19:40	20:20	0.67	6888	6909	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	20:20	22:00	1.67	6909	6917	Sliding	Drilling - (WOB:16;GPM :490;RPM:70)
29-Oct-10	22:00	24:00	2.00	6917	6940	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	9 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Saturday, October 30, 2010 at 0000 to Saturday, October 30, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters									
Start Depth	6940.00	Rotary Hours	10.25	WOB	16	Pick UP	0	Slack Off	0	SPM			
End Depth	7380.00	Circulating Hours	0.50	RAB	0	SPP	0	FlowRate	0 - 490		0		
Total Drilled:	440.00	Avg. Total ROP:	30.34	<b>Mud Data</b>									
Total Rotary Drilled:	375.00	Avg. Rotary ROP:	36.59	Type		PV	0	SOLID		0			
Total Drilled Sliding:	65.00	Avg. Slide ROP:	15.29	Weight	0	GAS	0	YP	0	BHT°		0	
Slide Hours:	4.25	Percent Rotary:	85.23	Viscosity	0	SAND	0	PH	0	Flow T°		0	
Below Rotary Hrs.	24.00	Percent Slide:	14.77	Chlorides	0	WL	0			Oil %		0	
PERSONNEL				CASING			BHA						
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,						
Second Directional :				Signature:									
MWD Operator1	Chris Wilson												
MWD Operator2													
Directional Company:	Great White												
Geologist:							Daily Cost	\$6,900.00					
Company Man:	Bill Calobreves						Cummulative Cost:	\$58,650.00					
Incl. In:	2.1	Azm. In:	187.3	Incl. Out:	0	Azm. Out:	0						

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Oct-10	00:00	00:30	0.50	6940	6940	Circulating	Circulating
30-Oct-10	00:30	04:30	4.00	6940	6940	POOH	POOH
30-Oct-10	04:30	05:00	0.50	6940	6940	Change BHA	Change BHA
30-Oct-10	05:00	09:00	4.00	6940	6940	TIH	TIH
30-Oct-10	09:00	10:10	1.17	6940	6972	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
30-Oct-10	10:10	10:15	0.08	6972	6972	Survey & Conn.	Survey & Conn.
30-Oct-10	10:15	11:00	0.75	6972	6984	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
30-Oct-10	11:00	13:10	2.17	6984	7076	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
30-Oct-10	13:10	13:20	0.17	7076	7076	Survey & Conn.	Survey & Conn.
30-Oct-10	13:20	14:00	0.67	7076	7077	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
30-Oct-10	14:00	16:25	2.42	7077	7161	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
30-Oct-10	16:25	16:30	0.08	7161	7161	Survey & Conn.	Survey & Conn.
30-Oct-10	16:30	16:55	0.42	7161	7173	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
30-Oct-10	16:55	18:50	1.92	7173	7256	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
30-Oct-10	18:50	18:55	0.08	7256	7256	Survey & Conn.	Survey & Conn.
30-Oct-10	18:55	20:10	1.25	7256	7276	Sliding	
30-Oct-10	20:10	22:30	2.33	7276	7350	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Oct-10	22:30	22:35	0.08	7350	7350	Survey & Conn.	Survey & Conn.
30-Oct-10	22:35	23:45	1.17	7350	7370	Sliding	Sliding - (WOB:0;GPM :0;TFO:0)
30-Oct-10	23:45	24:00	0.25	7370	7380	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	10 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

From Sunday, October 31, 2010 at 0000 to Sunday, October 31, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters								
Start Depth	7380.00	Rotary Hours	14.33	WOB	16	Pick UP	0	Slack Off	0	SPM		
End Depth	8167.00	Circulating Hours	0.00	RAB	0	SPP	2480	FlowRate	490 - 490	111		
Total Drilled:	787.00	Avg. Total ROP:	33.73	<b>Mud Data</b>								
Total Rotary Drilled:	650.00	Avg. Rotary ROP:	45.35	Type		PV	0	SOLID	0			
Total Drilled Sliding:	137.00	Avg. Slide ROP:	15.22	Weight	0	GAS	0	YP	0	BHT°	0	
Slide Hours:	9.00	Percent Rotary:	82.59	Viscosity	0	SAND	0	PH	0	Flow T°	0	
Below Rotary Hrs.	24.00	Percent Slide:	17.41	Chlorides	0	WL	0			Oil %	0	
PERSONNEL				CASING			BHA					
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,					
Second Directional :				Signature:								
MWD Operator1	Chris Wilson											
MWD Operator2												
Directional Company:	Great White											
Geologist:												
Company Man:	Bill Calobreves						Daily Cost	\$6,900.00				
Incl. In:	2.3	Azm. In:	187.2	Incl. Out:	2.7	Azm. Out:	248.9	Cummulative Cost:	\$65,550.00			

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Oct-10	00:00	01:00	1.00	7380	7390	Sliding	
31-Oct-10	01:00	02:25	1.42	7390	7444	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
31-Oct-10	02:25	02:30	0.08	7444	7444	Survey & Conn.	Survey & Conn.
31-Oct-10	02:30	03:10	0.67	7444	7454	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
31-Oct-10	03:10	05:05	1.92	7454	7538	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
31-Oct-10	05:05	05:10	0.08	7538	7538	Survey & Conn.	Survey & Conn.
31-Oct-10	05:10	05:50	0.67	7538	7550	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	05:50	07:10	1.33	7550	7633	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	07:10	07:15	0.08	7633	7633	Survey & Conn.	Survey & Conn.
31-Oct-10	07:15	08:50	1.58	7633	7653	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	08:50	10:05	1.25	7653	7727	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	10:05	10:10	0.08	7727	7727	Survey & Conn.	Survey & Conn.
31-Oct-10	10:10	11:45	1.58	7727	7821	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	11:45	11:50	0.08	7821	7821	Survey & Conn.	Survey & Conn.
31-Oct-10	11:50	13:15	1.42	7821	7846	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	13:15	13:30	0.25	7846	7852	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	13:30	14:10	0.67	7852	7862	Sliding	Drilling - (WOB:16; :490;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Oct-10	14:10	15:20	1.17	7862	7915	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	15:20	15:25	0.08	7915	7915	Survey & Conn.	Survey & Conn.
31-Oct-10	15:25	15:55	0.50	7915	7925	Sliding	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	15:55	17:45	1.83	7925	8010	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	17:45	17:50	0.08	8010	8010	Survey & Conn.	Survey & Conn.
31-Oct-10	17:50	18:40	0.83	8010	8020	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	18:40	19:15	0.58	8020	8041	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	19:15	19:50	0.58	8041	8049	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	19:50	21:00	1.17	8049	8080	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	21:00	21:30	0.50	8080	8092	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	21:30	21:50	0.33	8092	8107	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	21:50	21:55	0.08	8107	8107	Survey & Conn.	Survey & Conn.
31-Oct-10	21:55	22:45	0.83	8107	8139	Drilling	Drilling - (WOB:16; :490;RPM:70)
31-Oct-10	22:45	23:20	0.58	8139	8149	Sliding	Sliding - (WOB:16; :490;TFO:0)
31-Oct-10	23:20	24:00	0.67	8149	8167	Drilling	Drilling - (WOB:16; :490;RPM:70)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	11 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Monday, November 01, 2010 at 0000 to Monday, November 01, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	8167.00	Rotary Hours	10.08	WOB	16	Pick UP	0	Slack Off	0	SPM	
End Depth	8953.00	Circulating Hours	0.00	RAB	0	SPP	2480	FlowRate	490 - 490	111	
Total Drilled:	786.00	Avg. Total ROP:	33.93	<b>Mud Data</b>							
Total Rotary Drilled:	520.00	Avg. Rotary ROP:	51.57	Type		PV	0	SOLID	0		
Total Drilled Sliding:	266.00	Avg. Slide ROP:	20.33	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	13.08	Percent Rotary:	66.16	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	33.84	Chlorides	0	WL	0			Oil %	0
PERSONNEL				CASING			BHA				
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,				
Second Directional :	Jessie Harbin			Signature:							
MWD Operator1	Chris Wilson										
MWD Operator2											
Directional Company:	Great White										
Geologist:											
Company Man:	Bill Calobreves			Daily Cost			\$6,900.00				
Incl. In:	2.7	Azm. In:	248.9	Incl. Out:	2.8	Azm. Out:	166.6	Cummulative Cost:			\$72,450.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
1-Nov-10	00:00	00:15	0.25	8167	8177	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
1-Nov-10	00:15	00:55	0.67	8177	8198	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	00:55	01:00	0.08	8198	8198	Survey & Conn.	Survey & Conn.
1-Nov-10	01:00	01:45	0.75	8198	8230	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	01:45	03:00	1.25	8230	8256	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
1-Nov-10	03:00	03:20	0.33	8256	8265	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	03:20	04:00	0.67	8265	8293	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
1-Nov-10	04:00	04:05	0.08	8293	8293	Survey & Conn.	Survey & Conn.
1-Nov-10	04:05	04:55	0.83	8293	8313	Sliding	Sliding - (WOB:16;GPM :490;TFO:0)
1-Nov-10	04:55	05:10	0.25	8313	8320	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	05:10	06:15	1.08	8320	8340	Sliding	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	06:15	07:00	0.75	8340	8387	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	07:00	07:05	0.08	8387	8387	Survey & Conn.	Survey & Conn.
1-Nov-10	07:05	08:00	0.92	8387	8407	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	08:00	09:00	1.00	8407	8481	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	09:00	09:05	0.08	8481	8481	Survey & Conn.	Survey & Conn.
1-Nov-10	09:05	09:50	0.75	8481	8501	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
1-Nov-10	09:50	10:00	0.17	8501	8513	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	10:00	10:35	0.58	8513	8525	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	10:35	11:25	0.83	8525	8576	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	11:25	11:30	0.08	8576	8576	Survey & Conn.	Survey & Conn.
1-Nov-10	11:30	12:40	1.17	8576	8596	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	12:40	13:55	1.25	8596	8670	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	13:55	14:00	0.08	8670	8670	Survey & Conn.	Survey & Conn.
1-Nov-10	23:40	23:55	0.25	8936	8953	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	23:55	24:00	0.08	8953	8953	Survey & Conn.	Survey & Conn.
1-Nov-10	14:00	15:55	1.92	8670	8764	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	15:55	16:00	0.08	8764	8764	Survey & Conn.	Survey & Conn.
1-Nov-10	16:00	17:05	1.08	8764	8779	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	17:05	17:25	0.33	8779	8796	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	17:25	18:30	1.08	8796	8811	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	18:30	18:40	0.17	8811	8827	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	18:40	18:45	0.08	8827	8827	Survey & Conn.	Survey & Conn.
1-Nov-10	18:45	19:40	0.92	8827	8842	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	19:40	20:05	0.42	8842	8858	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	20:05	20:10	0.08	8858	8858	Survey & Conn.	Survey & Conn.
1-Nov-10	20:10	21:00	0.83	8858	8873	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	21:00	21:30	0.50	8873	8890	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	21:30	22:30	1.00	8890	8905	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
1-Nov-10	22:30	23:00	0.50	8905	8921	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
1-Nov-10	23:00	23:40	0.67	8921	8936	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	12 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

From Tuesday, November 02, 2010 at 0000 to Tuesday, November 02, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	8953.00	Rotary Hours	8.00	WOB	18	Pick UP	210	Slack Off	200	SPM	
End Depth	9524.00	Circulating Hours	0.00	RAB	205	SPP	2675	FlowRate	490 - 490	110	
Total Drilled:	571.00	Avg. Total ROP:	24.30	Mud Data							
Total Rotary Drilled:	334.00	Avg. Rotary ROP:	41.75	Type	Terra_Max		PV	13	SOLID	9.5	
Total Drilled Sliding:	237.00	Avg. Slide ROP:	15.29	Weight	10.05	GAS	3500	YP	12	BHT°	159.8
Slide Hours:	15.50	Percent Rotary:	58.49	Viscosity	47	SAND	0.5	PH	8.9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	41.51	Chlorides	45000	WL	4.8	Oil %		0	

PERSONNEL				CASING			BHA	
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,	
Second Directional :	Jessie Harbin			Signature:				
MWD Operator1	Chris Wilson							
MWD Operator2								
Directional Company:	Great White							
Geologist:				Daily Cost			\$6,900.00	
Company Man:	Bill Calobreves			Cumulative Cost:			\$79,350.00	
Incl. In:	2.8	Azm. In:	166.6	Incl. Out:	3.4	Azm. Out:	173.5	

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Nov-10	00:00	00:35	0.58	8953	8968	Sliding	Sliding - (WOB:16;GPM :490;TFO:20)
2-Nov-10	00:35	00:55	0.33	8968	8984	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
2-Nov-10	00:55	01:30	0.58	8984	8994	Sliding	Sliding - (WOB:18;GPM :490;TFO:20)
2-Nov-10	01:30	01:50	0.33	8994	9015	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
2-Nov-10	01:50	03:10	1.33	9015	9035	Sliding	Sliding - (WOB:18;GPM :490;TFO:20)
2-Nov-10	03:10	03:30	0.33	9035	9047	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
2-Nov-10	03:30	03:35	0.08	9047	9047	Survey & Conn.	Survey & Conn.
2-Nov-10	03:35	04:20	0.75	9047	9055	Sliding	Sliding - (WOB:18;GPM :490;TFO:20)
2-Nov-10	04:20	04:55	0.58	9055	9078	Drilling	Drilling - (WOB:16;GPM :490;RPM:70)
2-Nov-10	04:55	05:45	0.83	9078	9088	Sliding	Sliding - (WOB:18;GPM :490;TFO:20)
2-Nov-10	05:45	06:30	0.75	9088	9141	Drilling	
2-Nov-10	06:30	06:35	0.08	9141	9141	Survey & Conn.	Survey & Conn.
2-Nov-10	06:35	07:50	1.25	9141	9162	Sliding	Sliding - (WOB:18; :490;TFO:20)
2-Nov-10	07:50	08:05	0.25	9162	9173	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	08:05	09:10	1.08	9173	9188	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	09:10	10:00	0.83	9188	9235	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	10:00	10:05	0.08	9235	9235	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Nov-10	10:05	11:00	0.92	9235	9260	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	11:00	12:55	1.92	9260	9330	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	12:55	13:00	0.08	9330	9330	Survey & Conn.	Survey & Conn.
2-Nov-10	13:00	14:35	1.58	9330	9346	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	14:35	14:50	0.25	9346	9361	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	14:50	16:25	1.58	9361	9377	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	16:25	17:30	1.08	9377	9393	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	17:30	18:15	0.75	9393	9407	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	18:15	18:50	0.58	9407	9424	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	18:50	18:55	0.08	9424	9424	Survey & Conn.	Survey & Conn.
2-Nov-10	18:55	20:00	1.08	9424	9444	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	20:00	20:20	0.33	9444	9455	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	20:20	21:35	1.25	9455	9465	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	21:35	22:00	0.42	9465	9487	Drilling	Drilling - (WOB:18; :490;RPM:70)
2-Nov-10	22:00	22:40	0.67	9487	9502	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	22:40	22:55	0.25	9502	9519	Sliding	Sliding - (WOB:18; :490;TFO:0)
2-Nov-10	22:55	23:00	0.08	9519	9519	Survey & Conn.	Survey & Conn.
2-Nov-10	23:00	24:00	1.00	9519	9524	Sliding	Sliding - (WOB:18; :490;TFO:0)



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	13 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Wednesday, November 03, 2010 at 0000 to Wednesday, November 03, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	9524.00	Rotary Hours	3.17	WOB	18	Pick UP	220	Slack Off	205	SPM	
End Depth	9707.00	Circulating Hours	16.92	RAB	211	SPP	2675	FlowRate	490 - 490	110	
Total Drilled:	183.00	Avg. Total ROP:	26.46	Mud Data							
Total Rotary Drilled:	126.00	Avg. Rotary ROP:	39.79	Type	Terra_Max	PV	13	SOLID	9.5		
Total Drilled Sliding:	57.00	Avg. Slide ROP:	15.20	Weight	10.05	GAS	3500	YP	12	BHT°	159.8
Slide Hours:	3.75	Percent Rotary:	68.85	Viscosity	47	SAND	0.5	PH	8.9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	31.15	Chlorides	45000	WL	4.8	Oil %	0		

PERSONNEL				CASING			BHA		
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,		
Second Directional :	Jessie Harbin			Signature:					
MWD Operator1	Chris Wilson								
MWD Operator2									
Directional Company:	Great White								
Geologist:									
Company Man:	Bill Calobreves			Daily Cost	\$6,900.00				
Incl. In:	3.4	Azm. In:	173.5	Incl. Out:	2.5	Azm. Out:	167.5	Cummulative Cost:	\$86,250.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
3-Nov-10	00:00	01:00	1.00	9524	9524	Circulating	Circulating
3-Nov-10	01:00	02:30	1.50	9524	9534	Sliding	Sliding - (WOB:18; :490;TFO:0)
3-Nov-10	02:30	03:00	0.50	9534	9550	Drilling	Drilling - (WOB:18; :490;RPM:70)
3-Nov-10	03:00	03:55	0.92	9550	9565	Sliding	Sliding - (WOB:18;GPM :490;TFO:0)
3-Nov-10	03:55	04:15	0.33	9565	9581	Drilling	Drilling - (WOB:18;GPM :490;RPM:70)
3-Nov-10	04:15	04:50	0.58	9581	9596	Sliding	Drilling - (WOB:18;GPM :490;RPM:70)
3-Nov-10	04:50	05:20	0.50	9596	9613	Drilling	Drilling - (WOB:18;GPM :490;RPM:70)
3-Nov-10	05:20	05:25	0.08	9613	9613	Survey & Conn.	Survey & Conn.
3-Nov-10	05:25	05:55	0.50	9613	9628	Sliding	Sliding - (WOB:18;GPM :490;TFO:0)
3-Nov-10	05:55	06:30	0.58	9628	9644	Drilling	Drilling - (WOB:18;GPM :490;RPM:70)
3-Nov-10	06:30	06:45	0.25	9644	9646	Sliding	Sliding - (WOB:18;GPM :490;TFO:0)
3-Nov-10	06:45	08:00	1.25	9646	9707	Drilling	Drilling - (WOB:18;GPM :490;RPM:70)
3-Nov-10	08:00	08:05	0.08	9707	9707	Survey & Conn.	Survey & Conn.
3-Nov-10	08:05	24:00	15.92	9707	9707	Circulating	Circulating/Wt up system due to gas



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	14 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Thursday, November 04, 2010 at 0000 to Thursday, November 04, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	18	Pick UP	220	Slack Off	205	SPM	
End Depth	0.00	Circulating Hours	15.17	RAB	211	SPP	2675	FlowRate	490 - 490	110	
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Terra_Max		PV	13	SOLID	9.5	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	12.3	GAS	3500	YP	12	BHT°	159.8
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	40	SAND	0.5	PH	8.9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	45000	WL	4.8	Oil %		0	

PERSONNEL				CASING			BHA						
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,						
Second Directional :	Jessie Harbin			Signature:									
MWD Operator1	Chris Wilson												
MWD Operator2													
Directional Company:	Great White												
Geologist:				Daily Cost			\$6,900.00						
Company Man:	Bill Calobreves			Incl. In:	2.5	Azm. In:	167.5	Incl. Out:	2.5	Azm. Out:	167.5	Cummulative Cost:	\$93,150.00

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
4-Nov-10	00:00	09:10	9.17	9707	9707	Circulating	Circulating Wt up system due to gas.
4-Nov-10	09:10	12:10	3.00	9707	9707	Short Trip	Short Trip/to shoe
4-Nov-10	12:10	14:00	1.83	9707	9707	Other	Other/cut drlg line
4-Nov-10	14:00	18:00	4.00	9707	9707	TIH	TIH
4-Nov-10	18:00	24:00	6.00	9707	9707	Circulating	Circulating



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	15 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECT/RANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Friday, November 05, 2010 at 0000 to Friday, November 05, 2010 at 2400**

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	18	Pick UP	220	Slack Off	205	SPM	
End Depth	0.00	Circulating Hours	18.50	RAB	211	SPP	2675	FlowRate	490 - 490	110	
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Terra_Max		PV	13	SOLID	9.5	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	12.3	GAS	3500	YP	12	BHT°	159.8
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	40	SAND	0.5	PH	8.9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	45000	WL	4.8	Oil %		0	

PERSONNEL				CASING			BHA				
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,				
Second Directional :	Jessie Harbin			Signature:							
MWD Operator1	Chris Wilson										
MWD Operator2											
Directional Company:	Great White										
Geologist:				Daily Cost			\$6,900.00				
Company Man:	Bill Calobreves			Cumulative Cost:			\$100,050.00				
Incl. In:	2.5	Azm. In:	167.5	Incl. Out:	0	Azm. Out:	0				

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-Nov-10	00:00	05:00	5.00	9707	9707	Circulating	Circulating
5-Nov-10	05:00	18:30	13.50	9707	9707	Circulating	Circulating
5-Nov-10	18:30	24:00	5.50	9707	9707	POOH	POOH



<b>JOB NO.:</b>	02457-432-21	<b>Report Time:</b>	2400	16 of 16
<b>Company:</b>	Harvest Holdings Inc	<b>API JOB #</b>		
<b>LOCATION:</b>	Duchesne	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	H&P 319	<b>FIELD:</b>		
<b>STATE:</b>	UT	<b>Township:</b>		
<b>COUNTY:</b>	Duchesne	<b>SECTRANGE:</b>		
<b>WELL NAME:</b>	Dart 1-12-3-2			

**From Saturday, November 06, 2010 at 0000 to Saturday, November 06, 2010 at 2400**

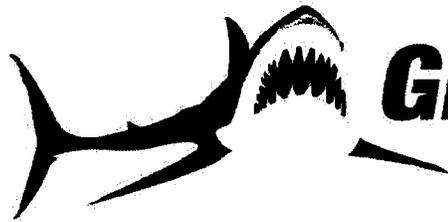
DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	18	Pick UP	220	Slack Off	205	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	211	SPP	2675	FlowRate	490 - 490	110	
Total Drilled:	0.00	Avg. Total ROP:	NA	<b>Mud Data</b>							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Terra_Max	PV	13	SOLID	9.5		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	12.3	GAS	3500	YP	12	BHT°	159.8
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	40	SAND	0.5	PH	8.9	Flow T°	120
Below Rotary Hrs.	1.00	Percent Slide:	NA	Chlorides	45000	WL	4.8	Oil %	0		

PERSONNEL				CASING			BHA	
Lead Directional :	Brian J Outlaw			Size	Lb/ft	Set Depth	BHA # 5:Ultera, 7/8 2.9, UBHO, NMDC, NMDC, Reamer, 6.25 DC, Jars, 6.25 DC, 4 1/2 Spiral, 4 1/2 Drill Pipe,	
Second Directional :	Jessie Harbin			Signature:				
MWD Operator1	Chris Wilson							
MWD Operator2								
Directional Company:	Great White							
Geologist:				Daily Cost			\$6,900.00	
Company Man:	Bill Calobreves			Cumulative Cost:			\$106,950.00	
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	

**GENERAL COMMENT**

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-Nov-10	00:00	01:00	1.00	9707	9707	POOH	POOH Lay down BHA
6-Nov-10	01:00	24:00	23.00	9707	9707	Standby	Standby

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**GREAT WHITE**

***DIRECTIONAL SERVICES, L.L.C.***

# Charts

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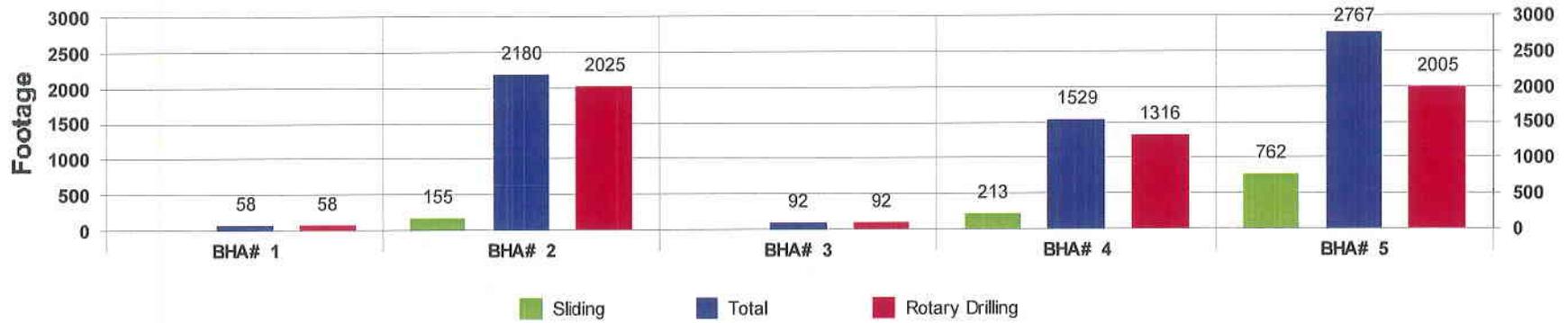
MAR 14 2011

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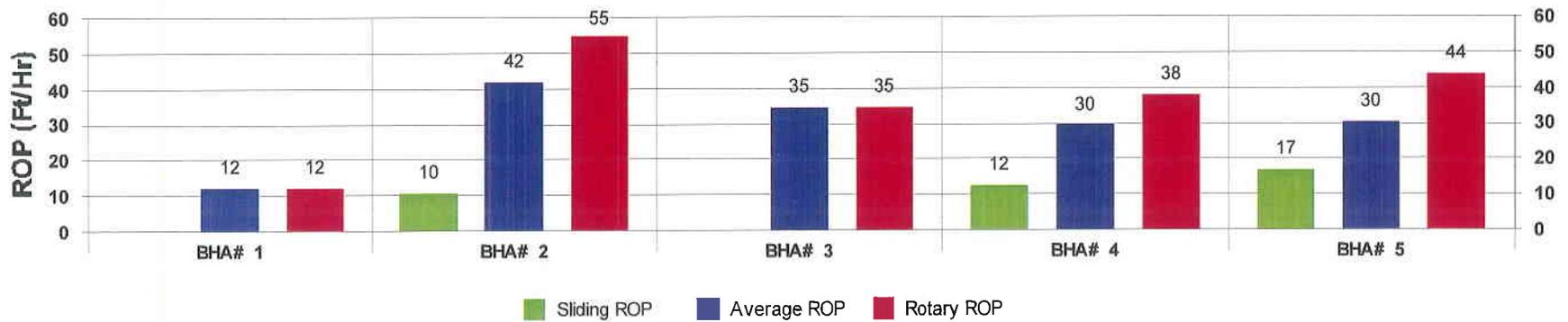


JOB NO.:	02457-432-21	FIELD:	
Company:	Harvest Holdings Inc	Township:	
LOCATION:	Duchesne	SECT\ RANGE:	
RIG NAME:	H&P 319	COMMENT	
STATE:	UT		
COUNTY:	Duchesne		
WELL NAME:	Dart 1-12-3-2		

Footage Drilled with BHA

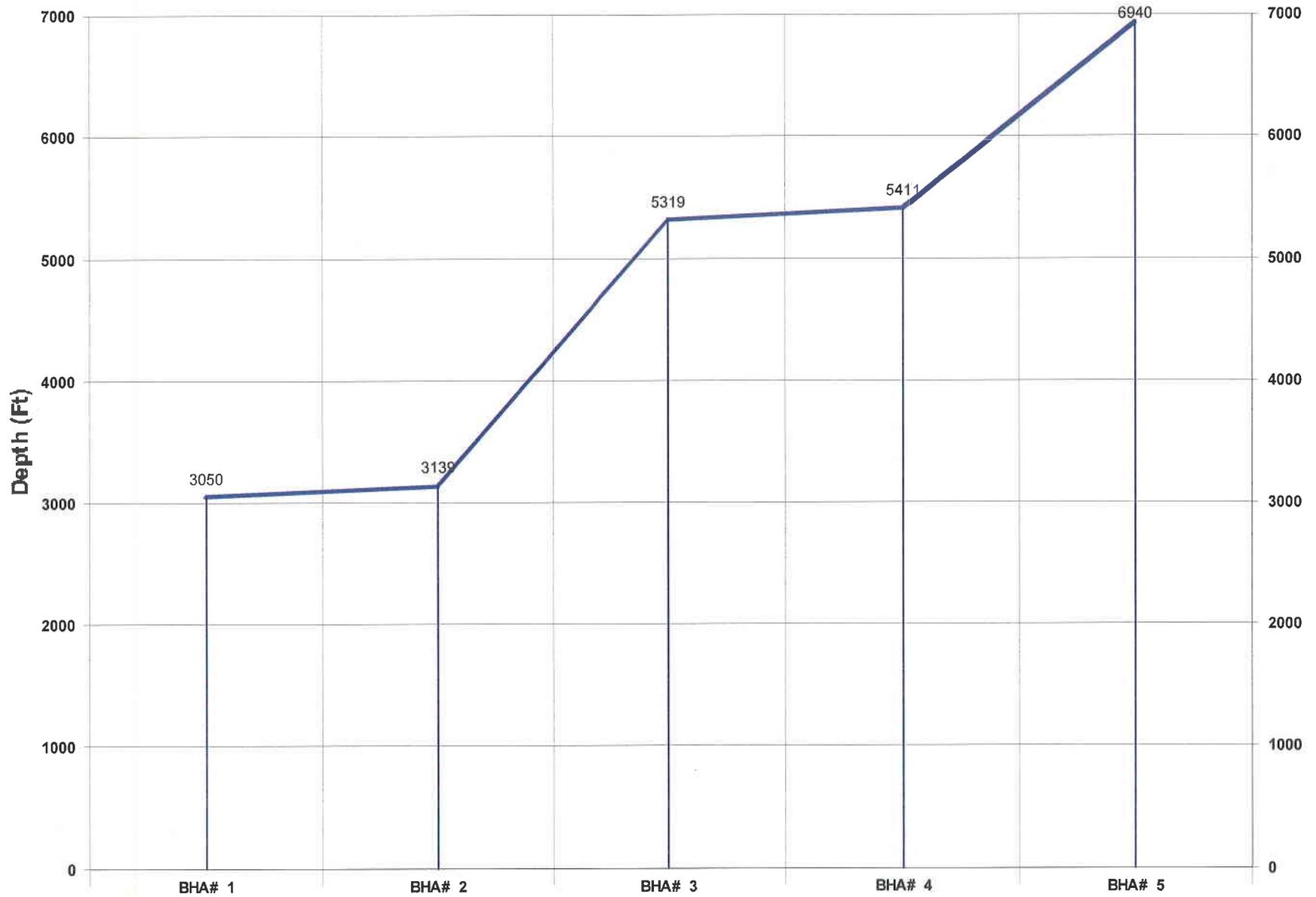


ROP vs BHA

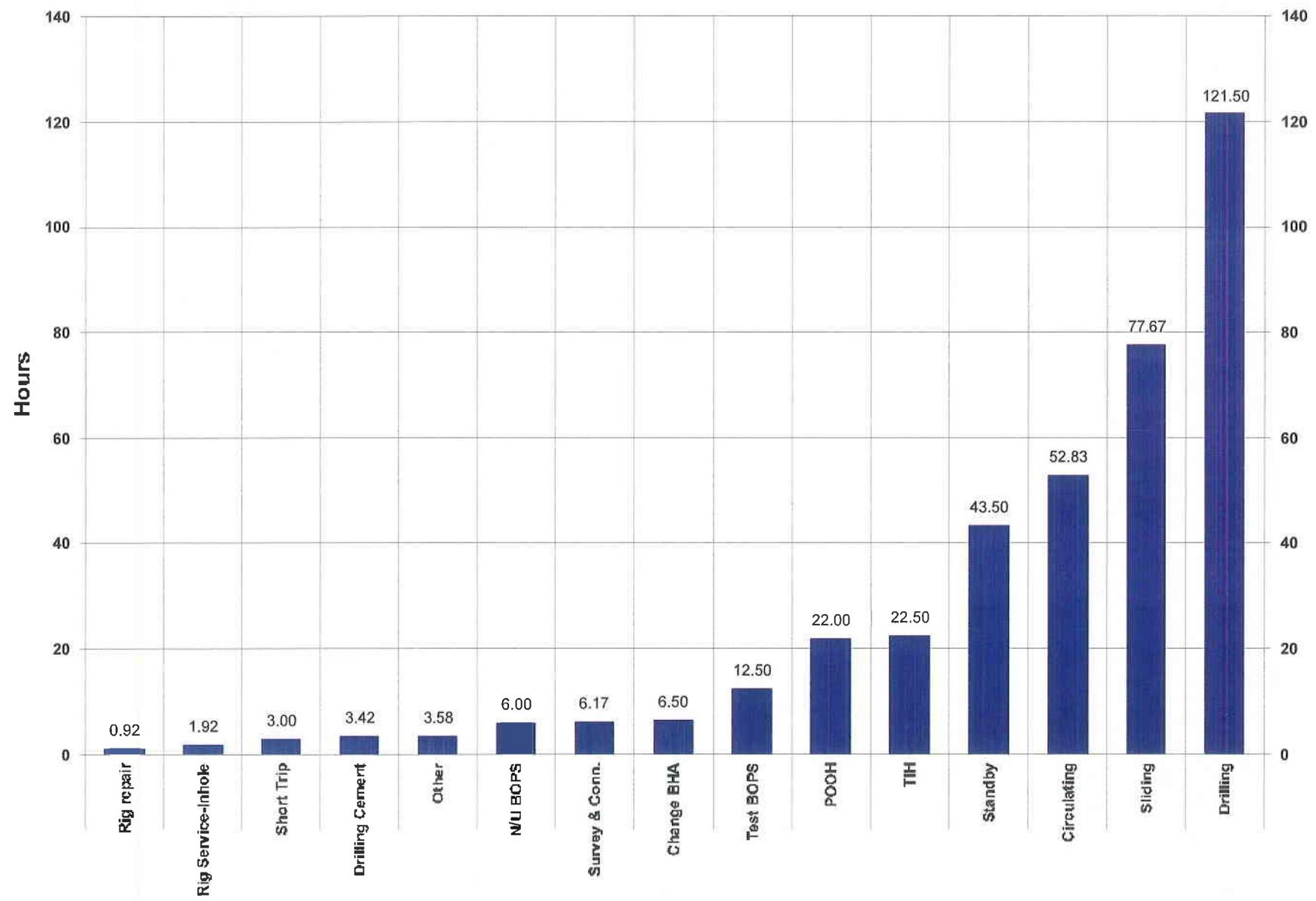


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Depth vs BHA



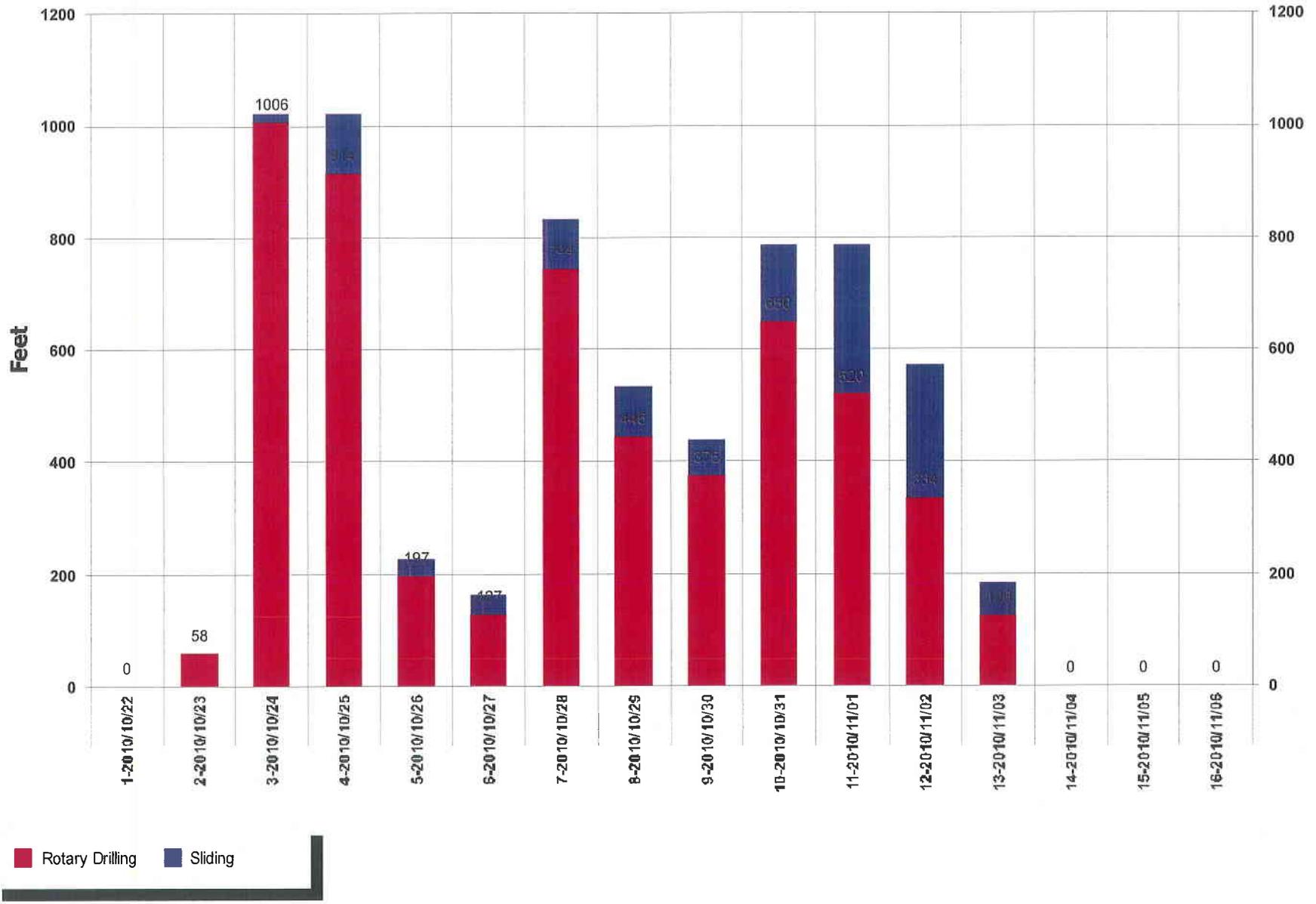
Activity Histogram



Measured Depth vs Days



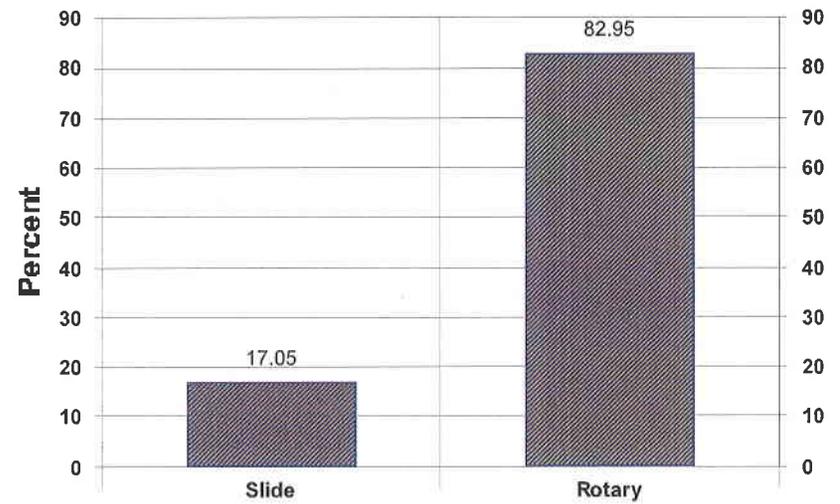
### Daily Footage



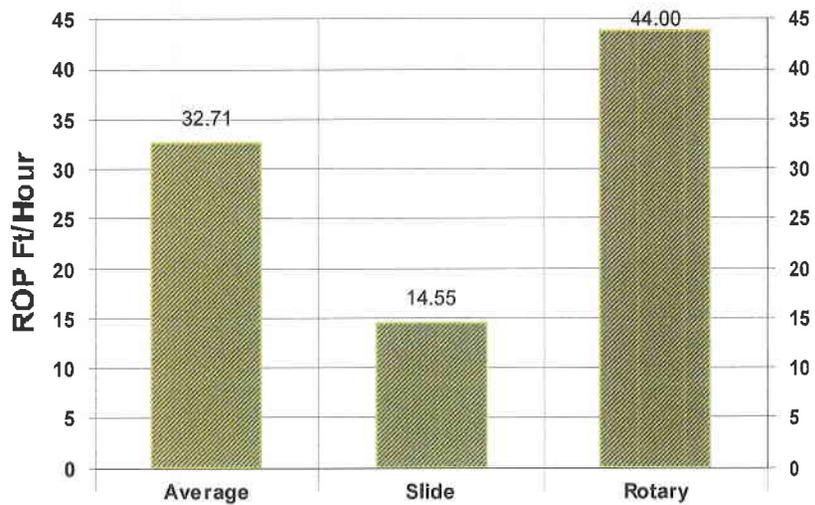
Footage Drilled Totals



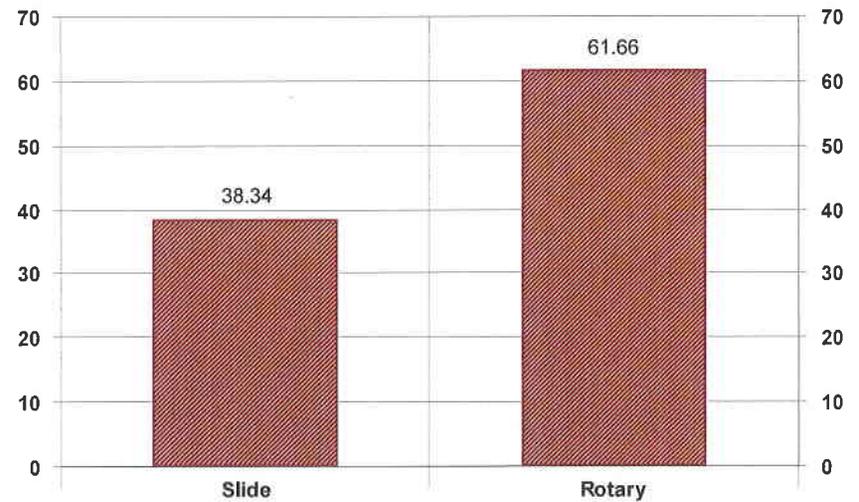
Footage Percent



Rate of Penetration Totals



Time Percent



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# **BHA's & Slide/Rotate Reports**

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# Well Information

**BHA #** | 1



**JOB NO.:** 02457-432-21  
**Company:** Harvest Holdings Inc  
**LOCATION:** Duchesne  
**RIG NAME:** H&P 319  
**STATE:** UT  
**COUNTY:** Duchesne  
**WELL NAME:** Dart 1-12-3-2

**FIELD:**  
**Township:**  
**SECT. RANGE:**  
**Lead DD:** Brian J Outlaw  
**Co. Man:** Bill Calobreves  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

<b>TIME IN - OUT</b>		<b>Rotary Hours</b>	4.83	<b>Start Depth</b>	3050.00	<b>RPM</b>	<b>Flow</b>
<b>Start Time</b>	<b>End Time</b>	<b>Circ Hrs Tot/Only</b>	4.83 / .00	<b>End Depth</b>	3108.00	<b>Range</b>	<b>Rate</b>
23-Oct-10 @ 09:30	23-Oct-10 @ 22:30	<b>Slide Hours</b>	.00	<b>Percent Rotary:</b>	100.00	0 -65	0 -490
		<b>Below Rotary Hrs.</b>	13.00	<b>Percent Slide:</b>	.00		
<b>Total Drilled:</b>		58.00	<b>Avg. Total ROP:</b>	12.00	<b>Incl.</b>	<b>Azimuth</b>	
<b>Total Rotary Drilled:</b>		58.00	<b>Avg. Rotary ROP:</b>	12.00	<b>IN</b>	<b>OUT</b>	<b>OUT</b>
<b>Total Drilled Sliding:</b>		.00	<b>Avg. Slide ROP:</b>	NA	.0	.0	.00
<b>SPP</b>	0 -2000	<b>Weights</b>	SO 0-0	<b>PU</b>	0-0	<b>RAB</b>	0-0
<b>Reason POOH</b>							

Bit Data				MOTOR DATA				Mud Data				
Ulterra	PDC MS1666DU			7/8 2.9				Type				
<b>Type Bit</b>		PDC		<b>Model:</b> 7/82.9	<b>Pad OD</b>			<b>WT</b> 0	<b>GAS</b> 0	<b>Solids</b> 0	<b>0</b>	
TFA	0.902			<b>MFG.</b> Great White	7			<b>Vis</b> 0	<b>SAND</b> 0	<b>T°</b> 0	<b>0</b>	
<b>JETS</b>		14	14	<b>Bend °</b> 1.5	<b>Stator/Rotor</b> 7/8			<b>PV</b> 0	<b>PH</b> 0	<b>Chlor</b> 0	<b>0</b>	
		14	0	<b>Bit to Bend</b> 5.9	<b>Motor Diff</b> 375			<b>YP</b> 0	<b>WL</b> 0	<b>Oil %</b>	<b>0</b>	
<b>Bit Coding</b>		<b>IADC#</b>		<b>Rev/GAL</b> 0.16			<b>BHT°</b> 0					
<b>IR</b>	<b>OR</b>	<b>DL</b>	<b>Loc</b>	<b>BS</b>	<b>G</b>	<b>ODL</b>						
0	0											
<b>Bit Drop:</b>		0 PSI @ 490 GPM		<b>Sensor Offsets</b>								
<b>Comments</b>		<b>Sensor</b> 0	<b>Sonic</b> 0									
		<b>Gamma</b> 0	<b>DNOSC</b> 0									
		<b>Restiv</b> 0	<b>GYRO</b> 0									
				<b>Liner</b>								
				<b>Stroke</b>								
				<b>Efficiency</b>								

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	PDC MS1666DU	5263		8.75	1.00	1.00	4 1/2 REGP
2	7/82.9MTR	650-167		7	27.10	28.10	4 1/2 XHB
3	NMDC	65-168	2.75	6.378	30.70	58.80	4 1/2 XHB
4	Gap Sub	1003-2041		6.124	5.63	64.43	4 1/2 XHB
5	NMDC	65-162	2.75	6.378	31.12	95.55	4 1/2 XHB
6	Reamer	670036	2.25	6.50	6.54	102.09	4 1/2 REGB
7	6.25 DC	Rig	2.75	6.25	435.76	537.85	4 1/2 XHB
8	4 1/2 Spiral	HWDP-2.75-	2.75	4.5	2,570.15	3108.00	4 1/2 XHB



# Well Information

**BHA #** 2



**JOB NO.:** 02457-432-21  
**Company:** Harvest Holdings Inc  
**LOCATION:** Duchesne  
**RIG NAME:** H&P 319  
**STATE:** UT  
**COUNTY:** Duchesne  
**WELL NAME:** Dart 1-12-3-2

**FIELD:**  
**Township:**  
**SECT. RANGE:**  
**Lead DD:** Brian J Outlaw  
**Co. Man:** Bill Calobreves  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

<b>TIME IN - OUT</b>		<b>Rotary Hours</b>	37.00	<b>Start Depth</b>	3139.00	<b>RPM</b>	<b>Flow</b>
<b>Start Time</b>	<b>End Time</b>	<b>Circ Hrs Tot/Only</b>	54.42 / 2.50	<b>End Depth</b>	5319.00	<b>Range</b>	<b>Rate</b>
23-Oct-10 @ 22:30	26-Oct-10 @ 16:30	<b>Slide Hours</b>	14.92	<b>Percent Rotary:</b>	92.89	70-70	490 -490
		<b>Below Rotary Hrs.</b>	66.00	<b>Percent Slide:</b>	7.11		
<b>Total Drilled:</b>		2180.00	<b>Avg. Total ROP:</b>	41.99	<b>Incl.</b>	<b>Azimuth</b>	
<b>Total Rotary Drilled:</b>		2025.00	<b>Avg. Rotary ROP:</b>	54.73	<b>IN</b>	<b>OUT</b>	<b>IN</b> <b>OUT</b>
<b>Total Drilled Sliding:</b>		155.00	<b>Avg. Slide ROP:</b>	10.39	.0	3.9	.00 204.00
<b>SPP</b>	2000 -2100	<b>Weights</b>	SO 0-0	PU 0-0	RAB 0-0	<b>Reason POOH</b>	

Bit Data				MOTOR DATA				Mud Data					
PDC MS1666DU				7/8 2.9				Type					
<b>Type Bit</b>		PDC		Model: 7/8 2.9		Pad OD		WT 9.7		GAS 0 Solids 0			
TFA		0.557		MFG. Great White		7		Vis 35		SAND 0 T° 0			
<b>JETS</b>		11	11	11	11	11		PV 47		PH 0 Chlor 0			
		11	0	0	0	0		YP 0		WL 0 Oil % 0			
<b>Bit Coding</b>		IADC#		Rev/GAL 0.16		Motor Diff 450		<b>BHT°</b>		0			
<b>IR</b>	<b>OR</b>	<b>DL</b>	<b>Loc</b>	<b>BS</b>	<b>G</b>	<b>ODL</b>	<b>PUMPS</b>		<b>PUMP1</b>		<b>PUMP1</b>		
0	0						<b>NAME</b>						
<b>Bit Drop:</b>		691 PSI @ 490 GPM		<b>Sensor Offsets</b>		<b>Type</b>		<b>Liner</b>		.00		.00	
<b>Comments</b>		<b>Sensor</b>	50	<b>Sonic</b>	0	<b>Stroke</b>		<b>Efficiency</b>		.00		.00	
		<b>Gamma</b>	0	<b>DNSC</b>	0					.00		.00	
		<b>Restiv</b>	0	<b>GYRO</b>	0					.00		.00	

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	PDC MS1666DU	5263		8.75	1.00	1.00	4 1/2 REGP
2	7/82.9MTR	650-167		7	27.10	28.10	4 1/2 XHB
3	NMDC	65-168	2.75	6.378	30.70	58.80	4 1/2 XHB
4	Gap Sub	1006		6.50	5.62	64.42	4 1/2 XHB
5	NMDC	65-162	2.75	6.378	31.12	95.54	4 1/2 XHB
6	Reamer	670036	2.25	6.50	6.54	102.08	4 1/2 REGB
7	6.25 DC	Rig	2.75	6.25	373.54	475.62	4 1/2 XHB
8	Jars	Rig		6.25	30.62	506.24	4 1/2 XHB
9	6.25 DC	Rig	2.75	6.25	62.22	568.46	4 1/2 XHB
10	4 1/2 Spiral	HWDP-2.75-	2.75	4.5	276.56	845.02	4 1/2 XHB
11	4 1/2 Drill Pipe	DP-3.826-S-135	3.826	4.5	4,473.98	5319.00	X.H.B



# Well Information

**BHA #** 3



**JOB NO.:** 02457-432-21  
**Company:** Harvest Holdings Inc  
**LOCATION:** Duchesne  
**RIG NAME:** H&P 319  
**STATE:** UT  
**COUNTY:** Duchesne  
**WELL NAME:** Dart 1-12-3-2

**FIELD:**  
**Township:**  
**SECT. RANGE:**  
**Lead DD:** Brian J Outlaw  
**Co. Man:** Bill Calobreves  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

<b>TIME IN - OUT</b>		<b>Rotary Hours</b>	2.67	<b>Start Depth</b>	5319.00	<b>RPM</b>	<b>Flow</b>
<b>Start Time</b>	<b>End Time</b>	<b>Circ Hrs Tot/Only</b>	2.67 / .00	<b>End Depth</b>	5411.00	<b>Range</b>	<b>Rate</b>
26-Oct-10 @ 16:30	27-Oct-10 @ 14:00	<b>Slide Hours</b>	.00	<b>Percent Rotary:</b>	100.00	70-70	490 -490
		<b>Below Rotary Hrs.</b>	13.00	<b>Percent Slide:</b>	.00		
<b>Total Drilled:</b>		92.00	<b>Avg. Total ROP:</b>	34.50	<b>Incl.</b>	<b>Azimuth</b>	
<b>Total Rotary Drilled:</b>		92.00	<b>Avg. Rotary ROP:</b>	34.50	<b>IN</b>	<b>OUT</b>	<b>IN</b>
<b>Total Drilled Sliding:</b>		.00	<b>Avg. Slide ROP:</b>	NA	3.9	3.9	204.00
<b>SPP</b>	2100-2100	<b>Weights</b>	SO 0-0	<b>PU</b>	0-0	<b>RAB</b>	0-0
<b>Reason POOH</b>							

<b>Bit Data</b>				<b>MOTOR DATA</b>				<b>Mud Data</b>					
Bit				7/8 2.9				Type					
<b>Type Bit</b>		PDC		Model: 7/8 2.9		Pad OD		WT 9.7		GAS 0		Solids 0	
TFA		0.557		MFG. Great white		7		Vis 35		SAND 0		T° 0	
<b>JETS</b>		11	11	11	11	11	11	PV 47		PH 0		Chlor 0	
		11	0	0	0	0	0	YP 0		WL 0		Oil % 0	
<b>Bit Coding</b>		IADC#		Rev/GAL 0.16		Motor Diff 350		<b>BHT°</b>		0			
<b>IR</b>	<b>OR</b>	<b>DL</b>	<b>Loc</b>	<b>BS</b>	<b>G</b>	<b>ODL</b>	<b>PUMPS</b>		<b>PUMP1</b>		<b>PUMP1</b>		
0	0						<b>NAME</b>						
<b>Bit Drop:</b>		691 PSI @ 490 GPM		<b>Sensor Offsets</b>				<b>Type</b>					
<b>Comments</b>		<b>Sensor</b>	50	<b>Sonic</b>	0	<b>Liner</b>							
		<b>Gamma</b>	0	<b>DNCS</b>	0	<b>Stroke</b>							
		<b>Restiv</b>	0	<b>GYRO</b>	0	<b>Efficiency</b>							

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Bit	6031		8.75	1.00	1.00	4 1/2 REGP
2	7/8 2.9	650-307		7	27.84	28.84	4 1/2 XHB
3	NMDC	65-168	2.75	6.378	30.70	59.54	4 1/2 XHB
4	Gap Sub	1006		6.50	5.62	65.16	4 1/2 XHB
5	NMDC	65-162	2.75	6.378	31.12	96.28	4 1/2 XHB
6	Reamer	670036	2.25	6.50	6.54	102.82	4 1/2 REGB
7	6.25 DC	Rig	2.75	6.25	373.54	476.36	4 1/2 XHB
8	Jars	Rig		6.25	30.91	507.27	4 1/2 XHB
9	6.25 DC	Rig	2.75	6.25	62.22	569.49	4 1/2 XHB
10	4 1/2 Spiral	HWDP-2.75-	2.75	4.5	276.56	846.05	4 1/2 XHB
11	4 1/2 Drill Pipe	DP-3.826-S-135	3.826	4.5	4,564.95	5411.00	X.H.B



# Well Information

**BHA #** 4



**JOB NO.:** 02457-432-21  
**Company:** Harvest Holdings Inc  
**LOCATION:** Duchesne  
**RIG NAME:** H&P 319  
**STATE:** UT  
**COUNTY:** Duchesne  
**WELL NAME:** Dart 1-12-3-2

**FIELD:**  
**Township:**  
**SECT. RANGE:**  
**Lead DD:** Brian J Outlaw  
**Co. Man:** Bill Calobreves  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

<b>TIME IN - OUT</b>		<b>Rotary Hours</b>		34.58	<b>Start Depth</b>		5411.00	<b>RPM</b>	<b>Flow</b>
<b>Start Time</b>	<b>End Time</b>	<b>Circ Hrs Tot/Only</b>	53.42 / 1.67		<b>End Depth</b>		6940.00	<b>Range</b>	<b>Rate</b>
27-Oct-10 @ 14:00	30-Oct-10 @ 05:00	<b>Slide Hours</b>		17.17	<b>Percent Rotary:</b>		86.07	70-70	490 -490
		<b>Below Rotary Hrs.</b>		63.00	<b>Percent Slide:</b>		13.93		
<b>Total Drilled:</b>		1529.00	<b>Avg. Total ROP:</b>		29.55	<b>Incl.</b>		<b>Azimuth</b>	
<b>Total Rotary Drilled:</b>		1316.00	<b>Avg. Rotary ROP:</b>		38.05	<b>IN</b>	<b>OUT</b>	<b>IN</b>	<b>OUT</b>
<b>Total Drilled Sliding:</b>		213.00	<b>Avg. Slide ROP:</b>		12.41	3.9	2.1	204.00	187.30
<b>SPP</b>	2100 -2200	<b>Weights</b>	<b>SO</b>	0-0	<b>PU</b>	0-0	<b>RAB</b>	0-0	<b>Reason POOH</b>

Bit Data				MOTOR DATA				Mud Data			
Other	Bit			<b>7/8 2.9</b>				<b>Type</b>			
<b>Type Bit</b>		PDC		Model: 7829		Pad OD		WT 9.7 GAS 0 Solids 0			
TFA	0.557		MFG. Great White		7		Vis 35 SAND 0 T° 0				
<b>JETS</b>		11	11	11	11	11	Bend ° 1.5 Stator/Rotor 7/8		PV 47 PH 0 Chlor 0		
		11	0	0	0	0	Bit to Bend 5.86 Motor Diff		YP 0 WL 0 Oil % 0		
<b>Bit Coding</b>		IADC#		Rev/GAL 0.16		Sensor Offsets		BHT° 0			
<b>IR</b>	<b>OR</b>	<b>DL</b>	<b>Loc</b>	<b>BS</b>	<b>G</b>	<b>ODL</b>	NB Stab 0		<b>PUMPS</b>		<b>PUMP1</b>
0	0						Rotor Jet 0		NAME		PUMP1
<b>Bit Drop:</b>		691 PSI @ 490 GPM		Sensor Offsets				Type		.00 .00	
<b>Comments</b>		<b>Sensor</b>	0	<b>Sonic</b>	0			Liner		.00 .00	
		<b>Gamma</b>	0	<b>DNCS</b>	0			Stroke		.00 .00	
		<b>Restiv</b>	0	<b>GYRO</b>	0			Efficiency		.00 .00	

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Bit	6031		8.75	1.00	1.00	4 1/2 REGP
2	7/8 2.9	650-307		7	27.84	28.84	4 1/2 XHB
3	UBHO	6045		6.25	2.98	31.82	4 1/2 XHB
4	NMDC	65-168	2.75	6.378	30.70	62.52	4 1/2 XHB
5	NMDC	65-162	2.75	6.378	31.12	93.64	4 1/2 XHB
6	Reamer	670036	2.25	6.50	6.54	100.18	4 1/2 REGB
7	6.25 DC	Rig	2.75	6.25	373.54	473.72	4 1/2 XHB
8	Jars	Rig		6.25	30.91	504.63	4 1/2 XHB
9	6.25 DC	Rig	2.75	6.25	62.22	566.85	4 1/2 XHB
10	4 1/2 Spiral	HWDP-2.75-	2.75	4.5	276.56	843.41	4 1/2 XHB
11	4 1/2 Drill Pipe	DP-3.826-S-135	3.826	4.5	6,096.59	6940.00	X.H.B



# Well Information

**BHA # 5**



**JOB NO.:** 02457-432-21  
**Company:** Harvest Holdings Inc  
**LOCATION:** Duchesne  
**RIG NAME:** H&P 319  
**STATE:** UT  
**COUNTY:** Duchesne  
**WELL NAME:** Dart 1-12-3-2

**FIELD:**  
**Township:**  
**SECT. RANGE:**  
**Lead DD:** Brian J Outlaw  
**Co. Man:** Bill Calobreves  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

<b>TIME IN - OUT</b>		<b>Rotary Hours</b>	45.83	<b>Start Depth</b>	6940.00	<b>RPM</b>	<b>Flow Rate</b>
<b>Start Time</b>	<b>End Time</b>	<b>Circ Hrs Tot/Only</b>	142.00 / 50.58	<b>End Depth</b>	9707.00	<b>Range</b>	
30-Oct-10 @ 05:00	06-Nov-10 @ 24:00	<b>Slide Hours</b>	45.58	<b>Percent Rotary:</b>	72.46	0 -70	0 -490
		<b>Below Rotary Hrs.</b>	164.00	<b>Percent Slide:</b>	27.54		
<b>Total Drilled:</b>		2767.00	<b>Avg. Total ROP:</b>	30.27	<b>Incl.</b>	<b>Azimuth</b>	
<b>Total Rotary Drilled:</b>		2005.00	<b>Avg. Rotary ROP:</b>	43.75	<b>IN</b>	<b>OUT</b>	
<b>Total Drilled Sliding:</b>		762.00	<b>Avg. Slide ROP:</b>	16.72	2.1	2.5	187.30 167.50
<b>SPP</b>	0 -2675	<b>Weights</b>	<b>SO</b>	0 -205	<b>PU</b>	0 -220	<b>RAB</b>
							0 -211 <b>Reason POOH</b>

<b>Bit Data</b>				<b>MOTOR DATA</b>				<b>Mud Data</b>			
Ulterra	Ulterra			<b>7/8 2.9</b>				<b>Type</b>	Terra_Max		
<b>Type Bit</b>		PDC		<b>Model:</b> 7829	<b>Pad OD</b>		<b>WT</b> 12.3	<b>GAS</b> 3500	<b>Solids</b> 9.5		
TFA	0.557			<b>MFG.</b> Great White	7		<b>Vis</b> 40	<b>SAND</b> 0.5	<b>T °</b> 120		
<b>JETS</b>		11	11	11	11	11	<b>Bend °</b> 1.5	<b>Stator/Rotor</b> 7/8	<b>PV</b> 13	<b>PH</b> 8.9	<b>Chlor</b> 45000
		11	0	0	0	0	<b>Bit to Bend</b> 5.86	<b>Motor Diff</b>	<b>YP</b> 12	<b>WL</b> 4.8	<b>Oil %</b> 0
<b>Bit Coding</b>		<b>IADC#</b>		<b>Rev/GAL</b> 0.16			<b>BHT°</b>	159.8			
<b>IR</b>	<b>OR</b>	<b>DL</b>	<b>Loc</b>	<b>BS</b>	<b>G</b>	<b>ODL</b>	<b>NB Stab</b> 0	<b>PUMPS</b>	<b>PUMP1</b>	<b>PUMP1</b>	
0	0						<b>Rotor Jet</b> 0	<b>NAME</b>			
<b>Bit Drop:</b> 877 PSI @ 490 GPM				<b>Sensor Offsets</b>				<b>Model</b>			
<b>Comments</b>		<b>Sensor</b> 50	<b>Sonic</b> 0					<b>Type</b>			
		<b>Gamma</b> 0	<b>DNCS</b> 0					<b>Liner</b>	.00 .00		
		<b>Restiv</b> 0	<b>GYRO</b> 0					<b>Stroke</b>	.00 .00		
								<b>Efficiency</b>	.00 .00		

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Ulterra	5514		8.75	1.00	1.00	4 1/2 REGP
2	7/8 2.9	650-307		7	27.84	28.84	4 1/2 XHB
3	UBHO	6045		6.25	2.98	31.82	4 1/2 XHB
4	NMDC	65-168	2.75	6.378	30.70	62.52	4 1/2 XHB
5	NMDC	65-162	2.75	6.378	31.12	93.64	4 1/2 XHB
6	Reamer	670036	2.25	6.50	6.54	100.18	4 1/2 REGB
7	6.25 DC	Rig	2.75	6.25	373.54	473.72	4 1/2 XHB
8	Jars	Rig		6.25	30.91	504.63	4 1/2 XHB
9	6.25 DC	Rig	2.75	6.25	62.22	566.85	4 1/2 XHB
10	4 1/2 Spiral	HWDP-2.75-	2.75	4.5	276.56	843.41	4 1/2 XHB
11	4 1/2 Drill Pipe	DP-3.826-S-135	3.826	4.5	8,863.59	9707.00	X.H.B





JOB NO.: 02457-432-21  
 Company: Harvest Holdings Inc  
 LOCATION: Duchesne  
 RIG NAME: H&P 319  
 STATE: UT  
 COUNTY: Country  
 WELL NAME: Dart 1-12-3-2

FIELD:  
 Township:  
 Range

MOTOR INFORMATION	
Desc: 7/8 2.9	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.9
Pad OD: 7	NB Stab:

# Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	23-Oct	Drilling	17:05	18:30	1.42	3077	3108	31	21	21.9	65	0	490	2000		0.00	0.00	0.00	

<b>Total Drilled:</b>	58	<b>Avg. Total ROP:</b>	12.00	<b>DEPTH% - TIME %</b>
<b>Total Rotary Drilled:</b>	58	<b>Avg. Rotary ROP:</b>	12.00	<b>Percent Rotary:</b> 100.00 - 100.00
<b>Total Drilled Sliding:</b>	0	<b>Avg. Slide ROP:</b>	NA	<b>Percent Slide:</b> .00 - .00



JOB NO.: 02457-432-21  
 Company: Harvest Holdings Inc  
 LOCATION: Duchesne  
 RIG NAME: H&P 319  
 STATE: UT  
 COUNTY: Country  
 WELL NAME: Dart 1-12-3-2

FIELD:  
 Township:  
 Range

MOTOR INFORMATION	
Desc: 7/8 2.9	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.9
Pad OD: 7	NB Stab:

## Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	24-Oct	Drilling	00:40	02:00	1.33	3139	3202	63	21	47.3	70	0	490	2000		0.00	0.00	0.00	
2	24-Oct	Drilling	02:05	02:40	0.58	3202	3234	32	21	54.9	70	0	490	2000		0.66	164.71	0.02	
2	24-Oct	Drilling	03:25	04:05	0.67	3234	3296	62	21	93.0	70	0	490	2000		0.66	164.71	0.02	
2	24-Oct	Drilling	04:10	05:25	1.25	3296	3391	95	21	76.0	70	0	490	2000		0.53	132.46	0.38	
2	24-Oct	Drilling	05:30	07:30	2.00	3391	3485	94	21	47.0	70	0	490	2000		0.70	132.02	0.18	
2	24-Oct	Drilling	07:35	09:00	1.42	3485	3579	94	21	66.4	70	0	490	2000		1.01	139.93	0.18	
2	24-Oct	Drilling	09:05	10:35	1.50	3579	3672	93	21	62.0	70	0	490	2000		1.23	82.36	0.18	
2	24-Oct	Drilling	10:45	12:15	1.50	3672	3768	96	21	64.0	70	0	490	2000		1.10	82.36	0.18	
2	24-Oct	Sliding	12:20	12:40	0.33	3768	3773	5	21	15.0	70	0	490	2000	20	2.15	212.79	0.18	
2	24-Oct	Drilling	12:40	13:05	0.42	3773	3799	26	21	62.4	70	0	490	2000	20	2.15	212.79	0.18	
2	24-Oct	Drilling	14:00	15:10	1.17	3799	3863	64	21	54.9	70	0	490	2000		2.15	212.79	0.18	
2	24-Oct	Drilling	15:15	17:45	2.50	3863	3957	94	21	37.6	70	0	490	2000		1.58	212.79	0.18	
2	24-Oct	Drilling	17:50	20:45	2.92	3957	4051	94	21	32.2	70	0	490	2000		1.84	164.52	0.18	
2	24-Oct	Sliding	20:50	21:50	1.00	4051	4063	12	21	12.0	70	0	490	2000	20	2.55	167.00	0.18	
2	24-Oct	Drilling	21:50	23:40	1.83	4063	4145	82	21	44.7	70	0	490	2000	20	2.55	167.00	0.18	
2	24-Oct	Drilling	23:45	24:00	0.25	4145	4162	17	21	68.0	70	0	490	2000		1.85	188.09	0.18	
2	25-Oct	Drilling	00:00	00:55	0.92	4162	4240	78	20	85.1	70	0	490	2100		1.85	188.09	0.18	
2	25-Oct	Drilling	01:00	02:00	1.00	4240	4335	95	20	95.0	70	0	490	2100		1.80	192.48	0.16	
2	25-Oct	Drilling	02:05	03:25	1.33	4335	4429	94	20	70.5	70	0	490	2100		1.89	185.63	0.25	
2	25-Oct	Drilling	03:30	04:35	1.08	4429	4523	94	20	86.8	70	0	490	2100		2.15	194.15	0.42	
2	25-Oct	Drilling	04:40	05:50	1.17	4523	4617	94	20	80.6	70	0	490	2100		2.15	188.79	0.21	
2	25-Oct	Drilling	05:55	07:25	1.50	4617	4711	94	20	62.7	70	0	490	2100		2.20	188.97	0.05	
2	25-Oct	Drilling	07:30	09:30	2.00	4711	4806	95	20	47.5	70	0	490	2100		2.20	188.97	0.05	
2	25-Oct	Sliding	09:35	10:30	0.92	4806	4820	14	21	15.3	70	0	490	2100	20	2.20	188.97	0.05	
2	25-Oct	Drilling	10:30	12:10	1.67	4820	4900	80	20	48.0	70	0	490	2100		2.20	188.97	0.05	
2	25-Oct	Sliding	12:15	13:10	0.92	4900	4920	20	21	21.8	70	0	490	2100	20	2.20	188.97	0.05	
2	25-Oct	Drilling	13:10	14:30	1.33	4920	4993	73	21	54.8	70	0	490	2100	20	2.20	188.97	0.05	

# Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	25-Oct	Sliding	14:35	16:00	1.42	4993	5008	15	21	10.6	70	0	490	2100	20	3.30	194.33	0.05	
2	25-Oct	Drilling	16:00	16:30	0.50	5008	5025	17	21	34.0	70	0	490	2100		3.30	194.33	0.05	
2	25-Oct	Sliding	16:30	17:40	1.17	5025	5042	17	21	14.6	70	0	490	2100	20	3.30	194.33	0.05	
2	25-Oct	Drilling	17:40	18:50	1.17	5042	5088	46	21	39.4	70	0	490	2100		3.30	194.33	0.05	
2	25-Oct	Sliding	18:55	20:50	1.92	5088	5108	20	21	10.4	70	0	490	2100	-180	3.96	203.03	0.05	
2	25-Oct	Drilling	20:50	21:10	0.33	5108	5125	17	21	51.0	70	0	490	2100		3.96	203.03	0.05	
2	25-Oct	Sliding	21:10	22:30	1.33	5125	5147	22	21	16.5	70	0	490	2100	-180	3.96	203.03	0.05	
2	25-Oct	Drilling	22:30	23:40	1.17	5147	5183	36	21	30.9	70	0	490	2100		3.96	203.03	0.05	
2	25-Oct	Drilling	23:45	24:00	0.25	5183	5184	1	21	4.0	70	0	490	2100	-170	3.91	204.00	0.05	
2	26-Oct	Sliding	00:00	04:15	4.25	5184	5203	19	21	4.5	70	0	490	2100	-170	3.91	204.00	0.05	
2	26-Oct	Drilling	04:15	06:30	2.25	5203	5308	105	21	46.7	70	0	490	2100		3.91	204.00	0.05	
2	26-Oct	Sliding	06:35	08:15	1.67	5308	5319	11	21	6.6	70	0	490	2100		3.91	204.00	0.05	

<b>Total Drilled:</b>	2180	<b>Avg. Total ROP:</b>	41.99	<b>DEPTH% - TIME %</b>	
<b>Total Rotary Drilled:</b>	2025	<b>Avg. Rotary ROP:</b>	54.73	<b>Percent Rotary:</b>	92.89 - 71.27
<b>Total Drilled Sliding:</b>	155	<b>Avg. Slide ROP:</b>	10.39	<b>Percent Slide:</b>	7.11 - 28.73



JOB NO.: 02457-432-21  
 Company: Harvest Holdings Inc  
 LOCATION: Duchesne  
 RIG NAME: H&P 319  
 STATE: UT  
 COUNTY: Country  
 WELL NAME: Dart 1-12-3-2

FIELD:  
 Township:  
 Range

MOTOR INFORMATION	
Desc: 7/8 2.9	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.86
Pad OD: 7	NB Stab:

## Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	26-Oct	Drilling	21:20	24:00	2.67	5319	5411	92	21	34.5	70	0	490	2100		3.91	204.00	0.05	

<b>Total Drilled:</b>	92	<b>Avg. Total ROP:</b>	34.50	<b>DEPTH% - TIME %</b>	
<b>Total Rotary Drilled:</b>	92	<b>Avg. Rotary ROP:</b>	34.50	<b>Percent Rotary:</b>	100.00 - 100.00
<b>Total Drilled Sliding:</b>	0	<b>Avg. Slide ROP:</b>	NA	<b>Percent Slide:</b>	.00 - .00



JOB NO.: 02457-432-21  
 Company: Harvest Holdings Inc  
 LOCATION: Duchesne  
 RIG NAME: H&P 319  
 STATE: UT  
 COUNTY: Country  
 WELL NAME: Dart 1-12-3-2

FIELD:  
 Township:  
 Range

MOTOR INFORMATION	
Desc: 7/8 2.9	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.86
Pad OD: 7	NB Stab:

## Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	27-Oct	Drilling	17:35	19:40	2.08	5411	5464	53	21	25.4	70	0	490	2100		3.91	204.00	0.05	
4	27-Oct	Sliding	19:45	21:30	1.75	5464	5484	20	21	11.4	70	0	490	2100		3.80	207.60	0.05	
4	27-Oct	Drilling	21:30	23:00	1.50	5484	5558	74	21	49.3	70	0	490	2100		3.80	207.60	0.05	
4	27-Oct	Sliding	23:05	24:00	0.92	5558	5575	17	21	18.5	70	0	490	2100		3.80	207.60	0.05	
4	28-Oct	Sliding	00:00	00:20	0.33	5575	5578	3	21	9.0	70	0	490	2100		3.80	207.60	0.05	
4	28-Oct	Drilling	00:20	01:45	1.42	5578	5652	74	16	52.2	70	0	490	2200		3.80	207.60	0.05	
4	28-Oct	Drilling	01:50	03:50	2.00	5652	5747	95	16	47.5	70	0	490	2200		1.90	208.30	1.07	
4	28-Oct	Sliding	03:55	05:20	1.42	5747	5757	10	21	7.1	70	0	490	2200	20	2.00	200.00	0.32	
4	28-Oct	Drilling	05:20	07:15	1.92	5757	5841	84	16	43.8	70	0	490	2200		2.00	200.00	0.32	
4	28-Oct	Drilling	07:20	09:10	1.83	5841	5935	94	16	51.3	70	0	490	2200		1.70	193.50	0.32	
4	28-Oct	Sliding	09:15	10:20	1.08	5935	5950	15	21	13.8	70	0	490	2200	20	2.40	189.70	0.32	
4	28-Oct	Drilling	10:20	12:50	2.50	5950	6029	79	16	31.6	70	0	490	2200		2.40	189.70	0.32	
4	28-Oct	Sliding	12:55	14:00	1.08	6029	6049	20	21	18.5	70	0	490	2200	20	2.20	194.30	0.32	
4	28-Oct	Drilling	14:00	15:35	1.58	6049	6124	75	16	47.4	70	0	490	2200		2.20	194.30	0.32	
4	28-Oct	Drilling	15:40	17:30	1.83	6124	6218	94	16	51.3	70	0	490	2200		1.50	202.90	0.32	
4	28-Oct	Sliding	17:55	19:05	1.17	6218	6238	20	21	17.1	70	0	490	2200	20	2.40	197.60	0.32	
4	28-Oct	Drilling	19:05	21:00	1.92	6238	6311	73	16	38.1	70	0	490	2200		2.40	197.60	0.32	
4	28-Oct	Sliding	21:05	22:10	1.08	6311	6331	20	21	18.5	70	0	490	2200	20	2.10	194.00	0.32	
4	28-Oct	Drilling	22:10	24:00	1.83	6331	6407	76	16	41.5	70	0	490	2200		2.10	194.00	0.32	
4	29-Oct	Drilling	00:05	02:30	2.42	6407	6501	94	16	38.9	70	0	490	2200		1.40	197.00	0.32	
4	29-Oct	Drilling	02:35	04:40	2.08	6501	6595	94	16	45.1	70	0	490	2200		2.00	195.30	0.32	
4	29-Oct	Sliding	04:45	06:05	1.33	6595	6615	20	21	15.0	70	0	490	2200	20	3.00	190.50	0.32	
4	29-Oct	Drilling	06:05	08:10	2.08	6615	6689	74	16	35.5	70	0	490	2200		3.00	190.50	0.32	
4	29-Oct	Sliding	09:15	10:30	1.25	6689	6709	20	21	16.0	70	0	490	2200	20	2.70	187.70	0.32	
4	29-Oct	Drilling	10:30	12:15	1.75	6709	6784	75	16	42.9	70	0	490	2200		2.70	187.70	0.32	
4	29-Oct	Sliding	12:20	13:40	1.33	6784	6799	15	21	11.3	70	0	490	2200	20	2.70	190.40	0.32	
4	29-Oct	Drilling	13:40	14:30	0.83	6799	6815	16	16	19.2	70	0	490	2200		2.70	190.40	0.32	

# Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	29-Oct	Sliding	14:30	15:50	1.33	6815	6830	15	21	11.3	70	0	490	2200	20	2.70	190.40	0.32	
4	29-Oct	Drilling	15:50	18:10	2.33	6830	6878	48	16	20.6	70	0	490	2200		2.70	190.40	0.32	
4	29-Oct	Sliding	18:15	19:40	1.42	6878	6888	10	21	7.1	70	0	490	2200	20	2.10	187.30	0.32	
4	29-Oct	Drilling	19:40	20:20	0.67	6888	6909	21	16	31.5	70	0	490	2200		2.10	187.30	0.32	
4	29-Oct	Sliding	20:20	22:00	1.67	6909	6917	8	16	4.8	70	0	490	2200		2.10	187.30	0.32	
4	29-Oct	Drilling	22:00	24:00	2.00	6917	6940	23	16	11.5	70	0	490	2200		2.10	187.30	0.32	

<b>Total Drilled:</b>	1529	<b>Avg. Total ROP:</b>	29.55	<b>DEPTH% - TIME %</b>	
<b>Total Rotary Drilled:</b>	1316	<b>Avg. Rotary ROP:</b>	38.05	<b>Percent Rotary:</b>	86.07 - 66.83
<b>Total Drilled Sliding:</b>	213	<b>Avg. Slide ROP:</b>	12.41	<b>Percent Slide:</b>	13.93 - 33.17



JOB NO.: 02457-432-21  
 Company: Harvest Holdings Inc  
 LOCATION: Duchesne  
 RIG NAME: H&P 319  
 STATE: UT  
 COUNTY: Country  
 WELL NAME: Dart 1-12-3-2

FIELD:  
 Township:  
 Range

MOTOR INFORMATION	
Desc: 7/8 2.9	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.86
Pad OD: 7	NB Stab:

## Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	30-Oct	Drilling	09:00	10:10	1.17	6940	6972	32	16	27.4	70	0	490	2200		2.10	187.30	0.32	
5	30-Oct	Sliding	10:15	11:00	0.75	6972	6984	12	16	16.0	70	0	490	2200		1.80	86.70	0.32	
5	30-Oct	Drilling	11:00	13:10	2.17	6984	7076	92	16	42.5	70	0	490	2200		1.80	86.70	0.32	
5	30-Oct	Sliding	13:20	14:00	0.67	7076	7077	1	16	1.5	70	0	490	2200		1.50	194.50	0.32	
5	30-Oct	Drilling	14:00	16:25	2.42	7077	7161	84	16	34.8	70	0	490	2200		1.50	194.50	0.32	
5	30-Oct	Sliding	16:30	16:55	0.42	7161	7173	12	16	28.8	70	0	490	2200		2.00	197.50	0.32	
5	30-Oct	Drilling	16:55	18:50	1.92	7173	7256	83	16	43.3	70	0	490	2200		2.00	197.50	0.32	
5	30-Oct	Sliding	18:55	20:10	1.25	7256	7276	20		16.0	0	0				0.00	0.00	0.00	
5	30-Oct	Drilling	20:10	22:30	2.33	7276	7350	74	16	31.7	70	0	490			0.00	0.00	0.00	
5	30-Oct	Sliding	22:35	23:45	1.17	7350	7370	20		17.1	70	0				0.00	0.00	0.00	
5	30-Oct	Drilling	23:45	24:00	0.25	7370	7380	10	16	40.0	70	0	490			0.00	0.00	0.00	
5	31-Oct	Sliding	00:00	01:00	1.00	7380	7390	10	16	10.0	70	0	490			2.30	187.20	0.00	
5	31-Oct	Drilling	01:00	02:25	1.42	7390	7444	54	16	38.1	70	0	490			2.30	187.20	0.00	
5	31-Oct	Sliding	02:30	03:10	0.67	7444	7454	10	16	15.0	70	0	490			1.80	183.90	0.00	
5	31-Oct	Drilling	03:10	05:05	1.92	7454	7538	84	16	43.8	70	0	490			1.80	183.90	0.00	
5	31-Oct	Sliding	05:10	05:50	0.67	7538	7550	12	16	18.0	70	0	490	2480		2.10	181.70	0.00	
5	31-Oct	Drilling	05:50	07:10	1.33	7550	7633	83	16	62.3	70	0	490	2480		2.10	181.70	0.00	
5	31-Oct	Sliding	07:15	08:50	1.58	7633	7653	20	16	12.6	70	0	490	2480		2.50	186.50	0.00	
5	31-Oct	Drilling	08:50	10:05	1.25	7653	7727	74	16	59.2	70	0	490	2480		2.50	186.50	0.00	
5	31-Oct	Drilling	10:10	11:45	1.58	7727	7821	94	16	59.4	70	0	490	2480		2.10	208.60	0.00	
5	31-Oct	Sliding	11:50	13:15	1.42	7821	7846	25	16	17.6	70	0	490	2480	30	2.60	210.60	0.00	
5	31-Oct	Drilling	13:15	13:30	0.25	7846	7852	6	16	24.0	70	0	490	2480		2.60	210.60	0.00	
5	31-Oct	Sliding	13:30	14:10	0.67	7852	7862	10	16	15.0	70	0	490	2480	30	2.60	210.60	0.00	
5	31-Oct	Drilling	14:10	15:20	1.17	7862	7915	53	16	45.4	70	0	490	2480		2.60	210.60	0.00	
5	31-Oct	Sliding	15:25	15:55	0.50	7915	7925	10	16	20.0	70	0	490	2480	30	2.00	226.30	0.00	
5	31-Oct	Drilling	15:55	17:45	1.83	7925	8010	85	16	46.4	70	0	490	2480		2.00	226.30	0.00	
5	31-Oct	Sliding	17:50	18:40	0.83	8010	8020	10	16	12.0	70	0	490	2480	30	2.50	238.50	0.00	

# Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	31-Oct	Drilling	18:40	19:15	0.58	8020	8041	21	16	36.0	70	0	490	2480		2.50	238.50	0.00	
5	31-Oct	Sliding	19:15	19:50	0.58	8041	8049	8	16	13.7	70	0	490	2480	30	2.50	238.50	0.00	
5	31-Oct	Drilling	19:50	21:00	1.17	8049	8080	31	16	26.6	70	0	490	2480		2.50	238.50	0.00	
5	31-Oct	Sliding	21:00	21:30	0.50	8080	8092	12	16	24.0	70	0	490	2480	60	2.50	238.50	0.00	
5	31-Oct	Drilling	21:30	21:50	0.33	8092	8107	15	16	45.0	70	0	490	2480		2.50	238.50	0.00	
5	31-Oct	Drilling	21:55	22:45	0.83	8107	8139	32	16	38.4	70	0	490	2480		2.70	248.90	0.00	
5	31-Oct	Sliding	22:45	23:20	0.58	8139	8149	10	16	17.1	70	0	490	2480	60	2.70	248.90	0.00	
5	31-Oct	Drilling	23:20	24:00	0.67	8149	8167	18	16	27.0	70	0	490	2480		2.70	248.90	0.00	
5	1-Nov	Sliding	00:00	00:15	0.25	8167	8177	10	16	40.0	70	0	490	2480	60	2.70	248.90	0.00	
5	1-Nov	Drilling	00:15	00:55	0.67	8177	8198	21	16	31.5	70	0	490	2480		2.70	248.90	0.00	
5	1-Nov	Drilling	01:00	01:45	0.75	8198	8230	32	16	42.7	70	0	490	2480		2.50	229.60	0.00	
5	1-Nov	Sliding	01:45	03:00	1.25	8230	8256	26	16	20.8	70	0	490	2480	45	2.50	229.60	0.00	
5	1-Nov	Drilling	03:00	03:20	0.33	8256	8265	9	16	27.0	70	0	490	2480		2.50	229.60	0.00	
5	1-Nov	Sliding	03:20	04:00	0.67	8265	8293	28	16	42.0	70	0	490	2480	55	2.50	229.60	0.00	
5	1-Nov	Sliding	04:05	04:55	0.83	8293	8313	20	16	24.0	70	0	490	2480	30	3.50	207.90	0.00	
5	1-Nov	Drilling	04:55	05:10	0.25	8313	8320	7	16	28.0	70	0	490	2480		3.50	207.90	0.00	
5	1-Nov	Sliding	05:10	06:15	1.08	8320	8340	20	16	18.5	70	0	490	2480	20	3.50	207.90	0.00	
5	1-Nov	Drilling	06:15	07:00	0.75	8340	8387	47	16	62.7	70	0	490	2480		3.50	207.90	0.00	
5	1-Nov	Sliding	07:05	08:00	0.92	8387	8407	20	16	21.8	70	0	490	2480	20	3.40	197.20	0.00	
5	1-Nov	Drilling	08:00	09:00	1.00	8407	8481	74	16	74.0	70	0	490	2480		3.40	197.20	0.00	
5	1-Nov	Sliding	09:05	09:50	0.75	8481	8501	20	16	26.7	70	0	490	2480	20	3.00	177.80	0.00	
5	1-Nov	Drilling	09:50	10:00	0.17	8501	8513	12	16	72.0	70	0	490	2480		3.00	177.80	0.00	
5	1-Nov	Sliding	10:00	10:35	0.58	8513	8525	12	16	20.6	70	0	490	2480	20	3.00	177.80	0.00	
5	1-Nov	Drilling	10:35	11:25	0.83	8525	8576	51	16	61.2	70	0	490	2480		3.00	177.80	0.00	
5	1-Nov	Sliding	11:30	12:40	1.17	8576	8596	20	16	17.1	70	0	490	2480	20	3.10	162.80	0.00	
5	1-Nov	Drilling	12:40	13:55	1.25	8596	8670	74	16	59.2	70	0	490	2480		3.10	162.80	0.00	
5	1-Nov	Drilling	14:00	15:55	1.92	8670	8764	94	16	49.0	70	0	490	2480		2.90	168.10	0.00	
5	1-Nov	Sliding	16:00	17:05	1.08	8764	8779	15	16	13.8	70	0	490	2480	20	3.10	161.20	0.00	
5	1-Nov	Drilling	17:05	17:25	0.33	8779	8796	17	16	51.0	70	0	490	2480		3.10	161.20	0.00	
5	1-Nov	Sliding	17:25	18:30	1.08	8796	8811	15	16	13.8	70	0	490	2480	20	3.10	161.20	0.00	
5	1-Nov	Drilling	18:30	18:40	0.17	8811	8827	16	16	96.0	70	0	490	2480		3.10	161.20	0.00	
5	1-Nov	Sliding	18:45	19:40	0.92	8827	8842	15	16	16.4	70	0	490	2480	20	3.50	159.60	0.65	
5	1-Nov	Drilling	19:40	20:05	0.42	8842	8858	16	16	38.4	70	0	490	2480	20	3.50	159.60	0.65	
5	1-Nov	Sliding	20:10	21:00	0.83	8858	8873	15	16	18.0	70	0	490	2480	20	3.30	160.90	0.21	
5	1-Nov	Drilling	21:00	21:30	0.50	8873	8890	17	16	34.0	70	0	490	2480		3.30	160.90	0.21	

# Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	1-Nov	Sliding	21:30	22:30	1.00	8890	8905	15	16	15.0	70	0	490	2480	20	3.30	160.90	0.21	
5	1-Nov	Drilling	22:30	23:00	0.50	8905	8921	16	16	32.0	70	0	490	2480		3.30	160.90	0.21	
5	1-Nov	Sliding	23:00	23:40	0.67	8921	8936	15	16	22.5	70	0	490	2480	20	3.30	160.90	0.21	
5	1-Nov	Drilling	23:40	23:55	0.25	8936	8953	17	16	68.0	70	0	490	2480		3.30	160.90	0.21	
5	2-Nov	Sliding	00:00	00:35	0.58	8953	8968	15	18	25.7	70	0	490	2480	20	2.80	166.60	0.61	
5	2-Nov	Drilling	00:35	00:55	0.33	8968	8984	16	16	48.0	70	0	490	2480		2.80	166.60	0.61	
5	2-Nov	Sliding	00:55	01:30	0.58	8984	8994	10	18	17.1	70	0	490	2480	20	2.80	166.60	0.61	
5	2-Nov	Drilling	01:30	01:50	0.33	8994	9015	21	16	63.0	70	0	490	2480		2.80	166.60	0.61	
5	2-Nov	Sliding	01:50	03:10	1.33	9015	9035	20	18	15.0	70	0	490	2480	20	2.80	166.60	0.61	
5	2-Nov	Drilling	03:10	03:30	0.33	9035	9047	12	16	36.0	70	0	490	2480		2.80	166.60	0.61	
5	2-Nov	Sliding	03:35	04:20	0.75	9047	9055	8	18	10.7	70	0	490	2480	20	2.50	171.70	0.41	
5	2-Nov	Drilling	04:20	04:55	0.58	9055	9078	23	18	39.4	70	0	490	2480		2.50	171.70	0.41	
5	2-Nov	Sliding	04:55	05:45	0.83	9078	9088	10	18	12.0	70	0	490	2480	20	2.50	171.70	0.41	
5	2-Nov	Drilling	05:45	06:30	0.75	9088	9141	53	18	70.7	70	0	490	2480		2.50	171.70	0.41	
5	2-Nov	Sliding	06:35	07:50	1.25	9141	9162	21	18	16.8	70	0	490	2480		2.90	173.10	0.41	
5	2-Nov	Drilling	07:50	08:05	0.25	9162	9173	11	18	44.0	70	0	490	2480		2.90	173.10	0.41	
5	2-Nov	Sliding	08:05	09:10	1.08	9173	9188	15	18	13.8	70	0	490	2480		2.90	173.10	0.41	
5	2-Nov	Drilling	09:10	10:00	0.83	9188	9235	47	18	56.4	70	0	490	2675		2.90	173.10	0.41	
5	2-Nov	Sliding	10:05	11:00	0.92	9235	9260	25	18	27.3	70	0	490	2675		3.60	174.00	0.41	
5	2-Nov	Drilling	11:00	12:55	1.92	9260	9330	70	18	36.5	70	0	490	2675		3.60	174.00	0.41	
5	2-Nov	Sliding	13:00	14:35	1.58	9330	9346	16	18	10.1	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Drilling	14:35	14:50	0.25	9346	9361	15	18	60.0	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Sliding	14:50	16:25	1.58	9361	9377	16	18	10.1	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Drilling	16:25	17:30	1.08	9377	9393	16	18	14.8	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Sliding	17:30	18:15	0.75	9393	9407	14	18	18.7	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Drilling	18:15	18:50	0.58	9407	9424	17	18	29.1	70	0	490	2675		4.20	175.60	0.41	
5	2-Nov	Sliding	18:55	20:00	1.08	9424	9444	20	18	18.5	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Drilling	20:00	20:20	0.33	9444	9455	11	18	33.0	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Sliding	20:20	21:35	1.25	9455	9465	10	18	8.0	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Drilling	21:35	22:00	0.42	9465	9487	22	18	52.8	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Sliding	22:00	22:40	0.67	9487	9502	15	18	22.5	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Sliding	22:40	22:55	0.25	9502	9519	17	18	68.0	70	0	490	2675		3.90	172.60	0.34	
5	2-Nov	Sliding	23:00	24:00	1.00	9519	9524	5	18	5.0	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Sliding	01:00	02:30	1.50	9524	9534	10	18	6.7	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Drilling	02:30	03:00	0.50	9534	9550	16	18	32.0	70	0	490	2675		3.40	173.50	0.53	

# Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	3-Nov	Sliding	03:00	03:55	0.92	9550	9565	15	18	16.4	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Drilling	03:55	04:15	0.33	9565	9581	16	18	48.0	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Sliding	04:15	04:50	0.58	9581	9596	15	18	25.7	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Drilling	04:50	05:20	0.50	9596	9613	17	18	34.0	70	0	490	2675		3.40	173.50	0.53	
5	3-Nov	Sliding	05:25	05:55	0.50	9613	9628	15	18	30.0	70	0	490	2675		3.20	172.40	0.22	
5	3-Nov	Drilling	05:55	06:30	0.58	9628	9644	16	18	27.4	70	0	490	2675		3.20	172.40	0.22	
5	3-Nov	Sliding	06:30	06:45	0.25	9644	9646	2	18	8.0	70	0	490	2675		3.20	172.40	0.22	
5	3-Nov	Drilling	06:45	08:00	1.25	9646	9707	61	18	48.8	70	0	490	2675		3.20	172.40	0.22	

<b>Total Drilled:</b>	2767	<b>Avg. Total ROP:</b>	30.27	<b>DEPTH% - TIME %</b>	
<b>Total Rotary Drilled:</b>	2005	<b>Avg. Rotary ROP:</b>	43.75	<b>Percent Rotary:</b>	72.46 - 50.14
<b>Total Drilled Sliding:</b>	762	<b>Avg. Slide ROP:</b>	16.72	<b>Percent Slide:</b>	27.54 - 49.86

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**November 2010**  
**Decollement Consulting, Inc**

**Dennis Springer**

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## Well Data Summary

Well Name	DART #1-12-3-2
Operator	Harvest (US) Holdings, Inc.
Surface Location	SW/NW Sec.12, T3S, R2W
API #	43-013-50418
Well Classification	Wildcat
Drilling Contractor	H & P Rig #319
Elevation-Ground level	5308
Kelly Bushing	5332
Spud Date	10-7-2010
TD Date	11/16/2010
TD Depth	10795
Surface Casing	9 5/8" Sat @ 3055'
Intermediate Csg	7" Sat @ 9168'
Liner	4 1/2' @
Hole Size	8 3/4, 6
Sample Interval	3055'
Gas Detection	3055'
Open Hole Logs	GR, SP. Cal., Triple Combo, Sonic
Mud Type	Terra-Max
Well Status	Run Liner

**Formation Tops**

**DART #1-12-3-2**

**Kelly Bushing 5332**

Formation	Prognosis	Spl Top (md)	Spl Top (tvd)	Log Top (md)	Log (tvd)	Sub Sea
Uinta	Surface					
Green River 1		4048	4048	4084	4084	1248
Green River 2		5536	5534	5534	5532	(-200)
Smith	5678	5664	5662	5720	5718	(-386)
Mahogeny Bench	5784	5764	5762	5824	5822	(-490)
DJ	6149	6220	6217	6148	6145	(-813)
DJ1	6406	6469	6466	6402	6399	(-1067)
Garden Gulch J Marker		6740	6736	6722	6718	(-1386)
Green River 3		7036	7032	7040	7036	(-1704)
HI Marker		7194	7190	7212	7208	(-1876)
I Marker	7577	7524	7520	7610	7606	(-2274)
K Marker (Douglas Creek)		7908	7904	7940	7936	(-2604)
Castle Peak		8528	8523	8546	8541	(-3209)
Control Point 80	8657	8606	8601	8656	8651	(-3319)
Bar "F" Unconformity	8686	8650	8645	8682	8677	(-3345)
UB1	8802	8756	8751	8772	8767	(-3435)
Ute Land Butte CP 90		8940	8934	8946	8940	(-3608)
Wasatch		9168	9162	9190	9184	(-3852)
Red Beds		10158		10158	10158	(-4826)
CP190				10135	10135	(-4803)
CP 200	Not Present			10209	10209	(-4877)
CP210	Not Present			10253	10253	(-4921)
Massive Red Beds						

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**Formation Evaluation**  
**Harvest (US) Holdings, Inc.**  
**Dart #1-12-3-2**

Decollement Consulting rigged up on Helmerich & Payne Rig #319, Oct 20, 2010. Total depth of 10795' was reached on November 16, 2010. Gas detection and lagged samples started under 3055' of 9 5/8" surface casing and were collected and logged to total depth (10795'). Under surface we drilled 8 3/4" hole. The well took a gas kick during show #12 at 9626 thru 9644 requiring 12.7 mud to control and intermediate (7") casing was set at 9168. The mud weight was raised to 13.1 #/gallon after casing. The hole was drilled out 6" to total depth 10795. Open hole E-logs (Triple-Combo) were run from 9718 to surface before (7") casing was set at 9168 and again from 10690 above fish to 9165 bottom 7" casing. Four and one half inch liner was set following TD at 10795 leaving DC, stabilizers and bit in hole.

Shows 1-9 were in fractured oil shales containing black asphaltic oil.

The Bar F sandstone contained 38 feet of possible pay with 13% average matrix porosity but logs indicate low resistivity possibly due to some wash out and clay fill.

Shows 10-12 were in the Wasatch Sandstones with fair porosity and good gas but no fluorescence, stain or cut. Show 13 was in an Oil Shale with slow streaming yellow cut in the Red Bed section. The Wasatch has 46 feet of pay with an average of 13% matrix porosity and was drilled with 8' to 12' flares while going through gas buster before casing and weighting up to 13.1. The open hole logs indicated a minimum of 148' of pay in the open hole with 14% average porosity and over 30 ohm resistivity.

Shows in log indicate a well that is to be completed successfully.

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## Bit Record Harvest (US) Holdings, Inc. Dart #1-12-3-2

BIT	SIZE	MAKE	TYPE	SERIAL#	JETS	OUT
1	12 1/4	Ultrerra	MS1666BCU	8404	6x11	3055
2	8 3/4	Ultrerra	MS1666DU	5623	6x11	5319
3	8 3/4	Verel	VTD616PG	6031	6x11	6940
4	8 3/4	Uterra	MS1666DU	5514	6x11	9718
5	8 3/4	FDS	Rock	PS1258	3x22	9718
6	6	Reed	DSX513M-A1	108403	4x16	10774
7	6	Ultrerra	MS1655CD	7578	5x15	10795

BIT	FT	HRS	TOT HRS	WT	RPM	PP	MUD WT	VIS	DEV
1	2002	28 1/2	28 1/2	20	140	1630	9.4	43	.94
2	2264	43	71 1/2	20	70/80	2100	9.7	45	3.9
3	1621	57	128 1/2	25	70/80	2500	9.8	40	2.1
4	2777	93 1/2	222	20	70/80	3400	12.2	40	3.5
5	0	0	0	0	0	0	12.8	39	NA
6	1056	43 3/4	265 3/4	23	115	2800	13.1	40	NA
7	21	3	268 3/4	15	90	2200	13.1	39	3.0

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**Daily Drilling Summary**  
**Harvest (US) Holdings, Inc.**  
**Dart #1-12-3-2**

<u>DATE</u>	<u>DEPTH</u>	<u>PROG</u>	<u>HRS</u>	<u>MUD</u>	<u>VIS</u>	<u>WL</u>	<u>PH</u>	<u>ACTIVITY</u>
10-20	2238	817	13	9.4	43	15.8	8.3	Drill TOH Surf Csg
10-21	3055	0	0	9.5	44	15.8	8.3	Run 9 5/8 Csg Cemt
10-22	3055	0	0	9.5	45	16.0	8.3	Nipple up test bops
10-23	3055	391	5 ½	9.5	35	19.0	9.0	Trip for MWD, drill
10-24	3454	1163	23 ½	9.6	40	12.4	8.8	Drill
10-25	4617	660	23 ½	9.8	45	8.6	8.3	Drill
10-26	5277	134	6	9.75	40	8.0	8.3	Trip Drill
10-27	5411	366	12	9.7	37	10.0	8.3	Trip for mwd, Drill
10-28	5777	850	23 ½	9.75	38	8.0	8.8	Drill
10-29	6627	313	17 ½	9.8	38	7.0	8.8	Drill, TOH for Bit
10-30	6940	630	20 ½	10.0	39	5.1	8.8	TIH, Drill
10-31	7570	769	23 ½	9.95	40	5.0	8.9	Drill
11-1	8339	771	23 ½	10.0	40	4.6	8.8	Drill
11-2	9110	513	22	11.5	40	5.2	8.8	Drill, Raise MW
11-3	9623	95	3	12.2	40	6.0	8.6	Drill, Raise MW
11-4	9718	0	0	12.7	40	6.0	8.6	Cond for E logs Lost Circ
11-5	9718	0	0	12.75	43	6.2	8.5	Trip Cond Hole
11-6	9718	0	0	12.7	39	5.2	8.6	Run E Logs, Trip
11-7	9718	0	0	12.8	39	6.0	8.1	Cond mud Trip
11-8	9718	0	0	12.8	41	6.0	8.6	Run 7" Csg
11-9	9718	0	0	12.8	40	5.2	8.8	Cement
11-10	9718	0	0	12.8	38	5.2	8.8	Finish Cement, Chng BOP
11-11	9718	0	0	12.8	38	5.2	8.8	Test BOPs, PU 3 ½ DP
11-12	9718	0	0	12.8	40	5.6	9.0	TIH
11-13	10251	533	21 ¾	13.1	39	6.2	10.2	Leak off test, Drill
11-14	10775	524	22	13.1	40	6.2	9.5	Drill, TOH for Bit
11-15	10795	20	3	13.1	39	5.4	9.3	Trip, Drill, Stuck Free Pt
11-16	10795	0	0	13.1	40	5.8	9.3	TOH left DC, 2 Rmrs, Bit
11-17	10795	0	0	13.1	39	5.8	9.3	Trip, Run E Logs
11-18	10795	0	0	13.1	39	5.8	9.3	Finish Sidwall Cores TIH
11-19	10795	0	0	13.1	38	5.8	9.1	TOH Run Liner
11-20	10795	0	0	13.1	40	5.8	9.0	Run 4 ½" Liner

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Well DART 1-12-3-2

Target Inc. \_\_\_\_\_

Field \_\_\_\_\_

Target TVD \_\_\_\_\_

Rig H&P 319

Target Az. \_\_\_\_\_

Great White  
D.D. BRIAN OUTLAW

Tgt. Coord. \_\_\_\_\_

No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	Walk
1							0.00 N	0.00 E			
2	3152	0.66	164.71	3152	3151.93	-17.51	17.51 S	4.79 E	0.02	0.02	5.23
3	3246	0.53	132.46	94	3245.93	-18.33	18.33 S	5.25 E	0.38	-0.14	-34.31
4	3341	0.70	132.02	95	3340.92	-19.01	19.01 S	6.01 E	0.18	0.18	-0.46
5	3455	1.01	139.93	114	3454.91	-20.25	20.25 S	7.17 E	0.29	0.27	6.94
6	3529	1.23	82.36	74	3528.90	-20.64	20.64 S	8.38 E	1.48	0.30	-77.80
7	3622	1.10	169.72	93	3621.88	-21.39	21.39 S	9.53 E	1.73	-0.14	93.94
8	3718	2.15	212.79	96	3717.85	-23.81	23.81 S	8.72 E	1.61	1.09	44.86
9	3813	1.58	156.72	95	3812.80	-26.51	26.51 S	8.27 E	1.92	-0.60	-59.02
10	3907	1.85	164.62	94	3906.76	-29.16	29.16 S	9.18 E	0.38	0.29	8.40
11	4001	2.55	167.00	94	4000.69	-32.66	32.66 S	10.05 E	0.75	0.74	2.53
12	4095	1.85	188.09	94	4094.62	-36.20	36.20 S	10.31 E	1.13	-0.74	22.44
13	4190	1.80	192.48	95	4189.57	-39.18	39.18 S	9.77 E	0.16	-0.05	4.62
14	4285	1.89	185.63	95	4284.52	-42.19	42.19 S	9.30 E	0.25	0.09	-7.21
15	4379	2.15	194.15	94	4378.47	-45.45	45.45 S	8.71 E	0.42	0.28	9.06
16	4473	2.15	188.79	94	4472.40	-48.90	48.90 S	8.01 E	0.21		-5.70
17	4567	2.20	188.97	94	4566.33	-52.42	52.42 S	7.46 E	0.05	0.05	0.19
18	4661	2.30	191.34	94	4660.26	-56.05	56.05 S	6.81 E	0.15	0.11	2.52
19	4756	2.41	191.25	95	4755.18	-59.88	59.88 S	6.05 E	0.12	0.12	-0.09
20	4850	2.00	192.43	94	4849.11	-63.42	63.42 S	5.31 E	0.44	-0.44	1.26
21	4943	3.30	194.33	93	4942.01	-67.60	67.60 S	4.30 E	1.40	1.40	2.04
22	5038	3.96	203.03	95	5036.82	-73.27	73.27 S	2.34 E	0.90	0.69	9.16
23	5133	3.91	203.65	95	5131.59	-79.25	79.25 S	0.25 W	0.07	-0.05	0.65
24	5227	3.43	206.90	94	5225.40	-84.70	84.70 S	2.80 W	0.56	-0.51	3.46
25	5321	3.40	209.00	94	5319.23	-89.64	89.64 S	5.43 W	0.14	-0.03	2.23
26	5414	3.80	207.60	93	5412.05	-94.79	94.79 S	8.19 W	0.44	0.43	-1.51
27	5508	2.90	206.00	94	5505.89	-99.68	99.68 S	10.68 W	0.96	-0.96	-1.70
28	5602	1.90	208.30	94	5599.81	-103.19	103.19 S	12.46 W	1.07	-1.06	2.45
29	5697	2.00	200.00	95	5694.75	-106.14	106.14 S	13.77 W	0.32	0.11	-8.74
30	5791	1.70	193.50	94	5788.70	-109.04	109.04 S	14.66 W	0.39	-0.32	-6.91
31	5885	2.40	189.70	94	5882.64	-112.33	112.33 S	15.32 W	0.76	0.74	-4.04
32	5979	2.20	194.30	94	5976.56	-116.02	116.02 S	16.09 W	0.29	-0.21	4.89
33	6074	1.50	202.90	95	6071.51	-118.93	118.93 S	17.03 W	0.79	-0.74	9.05
34	6168	2.40	197.60	94	6165.46	-121.94	121.94 S	18.10 W	0.98	0.96	-5.64
35	6261	2.10	194.00	93	6258.39	-125.45	125.45 S	19.10 W	0.36	-0.32	-3.87
36	6357	1.40	197.00	96	6354.34	-128.28	128.28 S	19.87 W	0.74	-0.73	3.13

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37	6451	2.00	195.30	94	6448.30	-130.96	130.96 S	20.64 W	0.64	0.64	-1.81
38	6545	3.00	190.50	94	6542.21	-134.96	134.96 S	21.52 W	1.09	1.06	-5.11
39	6639	2.70	187.70	94	6636.09	-139.57	139.57 S	22.27 W	0.35	-0.32	-2.98
40	6734	2.70	190.40	95	6730.99	-143.99	143.99 S	22.97 W	0.13		2.84
41	6828	2.10	187.30	94	6824.91	-147.88	147.88 S	23.59 W	0.65	-0.64	-3.30
42	6922	1.80	186.70	94	6918.85	-151.05	151.05 S	23.98 W	0.32	-0.32	-0.64
43	7017	1.50	194.50	95	7013.81	-153.74	153.74 S	24.46 W	0.39	-0.32	8.21
44	7111	2.00	197.50	94	7107.77	-156.49	156.49 S	25.27 W	0.54	0.53	3.19
45	7206	2.50	194.80	95	7202.69	-160.08	160.08 S	26.29 W	0.54	0.53	-2.84
46	7300	2.30	187.20	94	7296.61	-163.93	163.93 S	27.05 W	0.40	-0.21	-8.09
47	7394	1.80	183.90	94	7390.55	-167.27	167.27 S	27.39 W	0.55	-0.53	-3.51
48	7488	2.10	181.70	94	7484.50	-170.47	170.47 S	27.54 W	0.33	0.32	-2.34
49	7583	2.50	186.50	95	7579.42	-174.27	174.27 S	27.83 W	0.47	0.42	5.05
50	7677	2.10	208.60	94	7673.35	-177.82	177.82 S	28.89 W	1.03	-0.43	23.51
51	7771	2.60	210.60	94	7767.27	-181.16	181.16 S	30.79 W	0.54	0.53	2.13
52	7865	2.00	226.30	94	7861.19	-184.13	184.13 S	33.07 W	0.92	-0.64	16.70
53	7960	2.50	238.50	95	7956.12	-186.36	186.36 S	36.03 W	0.73	0.53	12.84
54	8057	2.70	248.90	97	8053.02	-188.29	188.29 S	39.97 W	0.53	0.21	10.72
55	8148	2.50	229.60	91	8143.93	-190.35	190.35 S	43.48 W	0.98	-0.22	-21.21
56	8243	3.50	207.90	95	8238.80	-194.25	194.25 S	46.41 W	1.58	1.05	-22.84
57	8337	3.40	197.20	94	8332.63	-199.45	199.45 S	48.58 W	0.69	-0.11	-11.38
58	8431	3.00	177.80	94	8426.49	-204.57	204.57 S	49.31 W	1.22	-0.43	-20.64
59	8526	3.10	162.80	95	8521.35	-209.51	209.51 S	48.45 W	0.84	0.11	-15.79
60	8620	2.90	168.10	94	8615.22	-214.26	214.26 S	47.21 W	0.36	-0.21	5.64
61	8714	3.10	161.20	94	8709.09	-219.00	219.00 S	45.90 W	0.44	0.21	-7.34
62	8808	3.30	160.90	94	8802.95	-223.96	223.96 S	44.20 W	0.21	0.21	-0.32
63	8903	2.80	166.60	95	8897.81	-228.80	228.80 S	42.77 W	0.61	-0.53	6.00
64	8997	2.50	171.70	94	8991.71	-233.06	233.06 S	41.94 W	0.41	-0.32	5.43
65	9091	2.90	173.10	94	9085.61	-237.45	237.45 S	41.36 W	0.43	0.43	1.49
66	9185	3.60	174.00	94	9179.46	-242.75	242.75 S	40.76 W	0.75	0.74	0.96
67	9280	4.20	174.00	95	9274.24	-249.17	249.17 S	40.09 W	0.63	0.63	
68	9374	3.90	172.60	94	9368.00	-255.77	255.77 S	39.32 W	0.34	-0.32	-1.49
69	9469	3.40	173.50	95	9462.81	-261.77	261.77 S	38.58 W	0.53	-0.53	0.95
70	9563	3.20	172.40	94	9556.65	-267.14	267.14 S	37.92 W	0.22	-0.21	-1.17
71	9657	2.50	167.50	94	9650.54	-271.74	271.74 S	37.13 W	0.79	-0.74	-5.21

Sample Descriptions

Harvest (US) Holdings, Inc.  
Dart #1-12-3-2

- 3050-80**      **SHALE-60%** Light to medium gray (60%), light to medium brown (40%), slightly calcareous, blocky, abundant cement.
- SANDSTONE-20%** White, light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, tight, calcareous cement, firm, no show
- CEMENT-20 %**
- 3080-3110**      **SHALE-60%** Light to medium gray (80%), light to medium brown (20%), blocky to platy, earthy to sub waxy, soft, calcareous
- SANDSTONE-20%** Light to medium gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, tight, calcareous cement, firm, no show
- 3110-40**      **SHALE-100%** Light to medium gray (90%), light to medium brown (10%), blocky to platy, earthy to sub waxy, soft, calcareous
- 3140-70**      **SHALE-80%** Light to medium gray (90%), light to medium brown (10%), blocky to platy, earthy to sub waxy, soft, calcareous
- SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to medium(upper) grained, sub angular, poorly sorted, unconsolidated in part, friable, slightly calcareous cement, no show

- 3170-3200**      **SHALE-70%** Light to medium gray (90%), light to medium brown (10%), blocky to platy, earthy to sub waxy, soft, calcareous
- SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to medium(upper) grained, sub angular, poorly sorted, unconsolidated in part, friable, slightly calcareous cement, no show
- 3200-30**      **SHALE-90%** Light to medium gray (30%), tan off white (70%), blocky to platy, earthy, soft, very calcareous, bentonitic
- SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to medium(upper) grained, sub angular, poorly sorted, unconsolidated in part, friable, slightly calcareous cement, no show
- 3230-60**      **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy to sub waxy, soft, slightly calcareous
- SANDSTONE-20%** Light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, moderately sorted, carbonaceous inclusions, clay matrix, tight, friable, calcareous cement, no show
- 3260-90**      **SHALE-80%** Light to medium gray white (100%), blocky to platy, earthy to sub waxy, soft, slightly calcareous, bentonitic
- SANDSTONE-20%** Light gray salt and pepper, very fine(lower) to medium(lower) grained, sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, tight, friable, slightly calcareous cement, no show
- 3290-3320**      **SHALE-100%** Medium to dark gray, blocky to platy, earthy, soft to firm, slightly calcareous

- 3320-50**      **SHALE-20%** Medium to dark gray, blocky to platy, earthy, soft to firm, slightly calcareous
- SANDSTONE-80%** Clear white gray, very fine(lower) to medium (upper) grained, sub angular, poorly sorted, carbonaceous inclusions, unconsolidated in part, friable, slightly calcareous, no show
- 3350-80**      **SHALE-30%** Medium to dark gray, blocky to platy, earthy, soft to firm, slightly calcareous
- SANDSTONE-70%** Clear white gray, very fine(lower) to medium (upper) grained, sub angular, poorly sorted, carbonaceous inclusions, unconsolidated in part, friable, slightly calcareous, no show
- 3380-3410**      **SHALE-10%** Medium to dark gray, blocky to platy, earthy, soft to firm, slightly calcareous
- SANDSTONE-90%** White light to medium gray, very fine(lower) to fine(lower) grained, sub angular, well sorted, clay matrix, micaceous, glauconitic, unconsolidated in part, friable, slightly calcareous, no show
- 3410-40**      **SHALE-50%** Light to medium gray, blocky , earthy to sub waxy, soft, slightly calcareous
- SANDSTONE-50%** White light to medium gray, very fine(lower) to medium(lower) grained, sub angular, moderately sorted, clay matrix, micaceous, carbonaceous inclusions, unconsolidated in part, friable, calcareous cement, no show
- 3440-70**      **SHALE-80%** Light to medium gray, blocky , earthy to sub waxy, soft, slightly calcareous
- SANDSTONE-20%** White light to medium gray, very fine(lower) to medium(lower) grained, sub angular, moderately sorted, clay matrix, micaceous, carbonaceous inclusions, unconsolidated in part, friable, calcareous cement, no show

**3470-3500**     **SHALE-80%** Gray brown medium gray, blocky to platy, earthy, soft, calcareous

**SANDSTONE-20%** White light to medium gray, very fine(lower) to medium(lower) grained, sub angular, moderately sorted, clay matrix, micaceous, carbonaceous inclusions, unconsolidated in part, friable, calcareous cement, no show

**3500-30**     **SHALE-10%** Gray brown medium gray, blocky to platy, earthy, soft, calcareous

**SANDSTONE-90%** White light gray salt and pepper, very fine(lower) to medium(upper) grained, sub angular, moderately sorted, clay matrix, micaceous, carbonaceous inclusions, glauconitic, unconsolidated in part, friable, calcareous cement, no show

**3530-60**     **SHALE-50%** Light to medium gray(90%) dark brown(10%), blocky to platy, earthy, soft, calcareous

**SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, calcareous

**SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to medium(upper) grained, sub angular, moderately sorted, clay matrix, micaceous, carbonaceous inclusions, glauconitic, unconsolidated in part, friable, calcareous cement, no show

**LIMESTONE-10%**Light brown tan, cryptocrystalline, mudstone, argillaceous, firm

- 3560-90**      **SHALE-20%** Light to medium gray gray brown (60%) dark brown (40%), blocky to platy, earthy, soft, calcareous
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, calcareous
- SANDSTONE-60%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, clay matrix, micaceous, carbonaceous inclusions, firm, calcareous cement, no show
- LIMESTONE-10%**Light brown tan, cryptocrystalline, mudstone, argillaceous, firm
- 3590-3620**      **SHALE-70%** Light to medium gray gray brown (90%) dark brown (10%), blocky to platy, earthy to sub waxy, soft, calcareous
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, calcareous
- SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, clay matrix, micaceous, carbonaceous inclusions, firm, calcareous cement, no show
- 3620-50**      **SHALE-50%** Light to medium gray gray brown (90%) dark brown (10%), blocky to platy, earthy to sub waxy, soft, calcareous
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, calcareous
- SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, clay matrix, micaceous, carbonaceous inclusions, firm, calcareous cement, no show
- 3650-80**      **SANDSTONE-100%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, micaceous, glauconitic, carbonaceous inclusions, tight, firm, calcareous cement, no show

- 3680-3710**     **SHALE-70%** Light to medium gray gray brown (100%), blocky, earthy, firm, limy
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, dolomitic
- 3710-40**     **SHALE-30%** Light to medium gray gray brown (100%), blocky, earthy, firm, limy
- SANDSTONE-70%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, micaceous, glauconitic, carbonaceous inclusions, tight, firm, calcareous cement, no show
- 3740-70**     **SHALE-50%** Light to medium gray gray brown (100%), blocky, earthy, silty, firm, dolomitic
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, dolomitic
- SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, micaceous, glauconitic, carbonaceous inclusions, tight, firm, calcareous cement, no show
- 3770-3800**     **SHALE-70%** Medium to dark gray black (100%), blocky, earthy to sub waxy, carbonaceous, firm, dolomitic
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, dolomitic
- SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, micaceous, glauconitic, carbonaceous inclusions, tight, firm, calcareous cement, no show

- 3800-30**      **SHALE-60%** Medium to dark gray black (100%), blocky, earthy to sub waxy, carbonaceous, firm, dolomitic
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, dolomitic
- SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, micaceous, carbonaceous inclusions, tight, firm, very calcareous cement, no show
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- 3830-60**      **SHALE-70%** Medium to dark brown red brown(70%) light to medium gray(30%), blocky, earthy, firm, limy
- SANDSTONE-20%** White light gray tan, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, carbonaceous inclusions, tight, very calcareous cement, trace pale yellow florescence, slow streaming yellow cut
- LIMESTONE-10%** Tan light brown, cryptocrystalline, argillaceous, mudstone, firm
- 
- 3860-90**      **SHALE-30%** Light to medium gray, blocky, earthy, firm, dolomitic
- SILTSTONE-20%** Light to medium gray, arenaceous, argillaceous, dolomitic
- SANDSTONE-20%** White light gray tan, very fine(lower) to fine(lower) grained, sub rounded, well sorted, clay matrix, carbonaceous inclusions, tight, very calcareous cement
- DOLOMITE-30%** Gray, cryptocrystalline, dense, firm to hard, no show
- 
- 3890-3920**    **SHALE-100%** Gray brown dark gray, blocky, micaceous, earthy, firm, limy

- 3920-50**      **SHALE-60%** Medium to dark gray gray brown, blocky, earthy, micaceous, firm, limy
- SILTSTONE-30%** Light to medium gray, arenaceous, argillaceous, firm, limy
- LIMESTONE-10%** Light brown, cryptocrystalline, argillaceous, mudstone, firm, no show
- 3950-80**      **SHALE-100%** Dark gray brown black, blocky to platy, earthy, silty, micaceous, firm, limy, no show
- 3980-4010**    **SHALE-100%** Dark gray brown black, blocky to platy, earthy, silty, micaceous, firm, limy, no show
- 4010-40**      **SHALE-100%** Medium to dark brown, blocky to platy, earthy, soft, limy, no show
- 4040-70**      **SHALE-100%** Dark gray brown black(80%) dark brown(20%), blocky to platy, earthy, soft to firm, limy, no show
- 4070-4100**    **SHALE-100%** Light to dark brown(100%), blocky, earthy, soft, limy, streaming yellow cut
- 4100-30**      **SHALE-100%** Light to dark brown(100%), blocky, earthy, soft, limy, streaming yellow cut
- 4130-60**      **SHALE-100%** Light to dark brown, blocky, earthy, soft, limy, trace calcite fracture fill, slow streaming yellow cut
- 4160-90**      **SHALE-100%** Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut
- 4190-4220**    **SHALE-100%** Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut

- 4220-50** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4250-80** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4280-4310** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4310-40** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4340-70** SHALE-100% Medium to dark brown, blocky to platy, earthy, silty, soft, limy, slow streaming yellow cut
- 4370-4400** SHALE-100% Medium to dark brown, blocky to platy, earthy, silty, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4400-30** SHALE-100% Medium to dark brown, blocky to platy, earthy, silty, soft, limy, increasing calcite filled fractures, slow streaming yellow cut
- 4430-60** SHALE-100% Medium gray gray brown(60%), medium to dark brown(40%), blocky, earthy, soft, calcareous
- 4460-90** SHALE-100% Medium to dark brown(90%), gray gray brown(10%), blocky to platy, earthy, silty, soft, limy, slow streaming yellow cut
- 4490-4520** SHALE-100% Light to dark brown, blocky to platy, earthy, silty, soft, limy, slow streaming yellow cut
- 4520-50** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut

- 4550-80** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut
- 4580-4610** SHALE-100% Medium gray gray brown(70%), light to dark brown(30%), blocky, earthy, soft, calcareous
- 4610-40** SHALE-100% Light to dark brown(80%) gray gray brown(20%), blocky, earthy, soft, limy, slow streaming yellow cut
- 4640-70** SHALE-100% Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut
- 4670-4700** SHALE-70% Light to dark brown, blocky, earthy, soft, limy, slow streaming yellow cut  
 DOLOMITE-30% Dark red brown, cryptocrystalline, argillaceous, dense, tight, hard, slow streaming yellow cut
- 4700-30** SHALE-100% Medium to dark brown, blocky, earthy, silty, carbonaceous, trace micaceous, soft, limy, slow streaming yellow cut
- 4730-60** SHALE-100% Medium to dark brown, blocky, earthy, silty, carbonaceous, trace micaceous, soft, limy, trace calcite filled fractures, slow streaming yellow cut
- 4760-90** SHALE-100% Medium to dark brown, blocky, earthy, silty, carbonaceous, trace micaceous, soft, limy, occasional calcite filled fractures, slow streaming yellow cut
- 4790-4820** SHALE-100% Medium to dark brown, blocky, earthy, silty, carbonaceous, trace micaceous, soft, limy, decreasing calcite filled fractures, slow streaming yellow cut

- 4820-50**      **SHALE-80%** Medium to dark brown, blocky, earthy, silty, carbonaceous, trace micaceous, soft, limy, slow streaming yellow cut
- LIMESTONE-20%** Dark gray brown, cryptocrystalline, argillaceous, silty, hard, slow streaming yellow cut
- 4850-80**      **SHALE-80%** Gray brown dark gray(60%) medium to dark brown(40%), blocky, earthy, silty, carbonaceous, soft, limy, slow streaming yellow cut
- LIMESTONE-20%** Dark gray brown, cryptocrystalline, argillaceous, silty, hard, slow streaming yellow cut
- 4880-4910**    **SHALE-100%** Dark brown dark gray brown(100%), blocky, earthy, soft, limy, slow streaming yellow cut
- 4910-40**      **SHALE-100%** Dark brown dark gray brown(100%), blocky, earthy, soft, limy, slow streaming yellow cut
- 4940-70**      **SHALE-80%** Dark brown dark gray brown(100%), blocky, earthy, soft, limy, slow streaming yellow cut
- LIMESTONE-20%** Dark brown, cryptocrystalline, argillaceous, firm, slow streaming yellow cut
- 4970-5000**    **Depth Correction Slide 33 feet down hole**
- 5000-30**      **SHALE-100%** Medium to dark gray(60%) medium to dark brown(40%), blocky, earthy, silty, soft, limy, slow streaming yellow cut
- 5030-60**      **SHALE-100%** Light gray(100%), blocky to platy, sub waxy to earthy, soft, limy, no show

- 5060-90**      **SHALE-40% Light gray (100%), blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-60% Off white tan light gray, cryptocrystalline, sucrosic in part, argillaceous, firm, no show**
- 
- 5090-5120**      **SHALE-80% Light gray(100%), blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-20% Off white tan light gray, cryptocrystalline, sucrosic in part, argillaceous, firm, no show**
- 
- 5120-50**      **SHALE-90% Light gray gray brown (100%), blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-10% Off white tan light gray, cryptocrystalline, sucrosic in part, argillaceous, firm, no show**
- 
- 5150-80**      **SHALE-100% Light gray gray brown (90%) dark brown(10%), blocky to platy, sub waxy to earthy, soft, limy, no show**
- 
- 5180-5210**      **SHALE-100% Light gray gray brown (90%) dark brown(10%), blocky to platy, sub waxy to earthy, soft, limy, no show**
- Abundant LCM from sweep ground Limestone, “ Bio Carb”**
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- 5210-40**      **SHALE-100% Light to dark gray gray brown (80%) dark brown(20%), blocky to platy, earthy, soft, limy, no show**
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- 5240-70**      **SHALE-100% Dark brown dark gray brown (100%), blocky, earthy, carbonaceous, soft to firm, slow streaming yellow cut**

- 5270-5300** SHALE-100% Dark brown dark gray brown (100%), blocky, earthy, carbonaceous, soft to firm, slow streaming yellow cut
- 5300-30** SHALE-100% Dark brown dark gray brown(100%), blocky, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5330-60** SHALE-100% Dark brown dark gray brown(100%), blocky, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5360-90** SHALE-100% Dark brown dark gray brown(100%), blocky, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5390-5420** SHALE-100% Dark brown dark gray brown(100%), blocky, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5420-50** SHALE-100% Dark brown dark gray brown(100%), blocky, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5450-80** SHALE-100% Dark brown dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5480-5510** SHALE-60% Light to medium gray (100%), blocky to sub platy, earthy, soft, limy, no show  
LIMESTONE-40% Light gray, chalky, argillaceous, soft, no show
- 5510-40** SHALE-100% Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, streaming yellow cut

- 5540-70**      **SHALE-100%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, streaming yellow cut
- 5570-5600**    **SHALE-100%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, streaming yellow cut
- 5600-30**      **SHALE-100%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5630-60**      **SHALE-100%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 5660-90**      **SHALE-80%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- DOLOMITE-10%** Dark gray brown black, cryptocrystalline, argillaceous, dense, firm to hard, limy, slow streaming yellow cut
- LIMESTONE-10%** Medium brown, chalky, argillaceous, soft
- 5690-5720**    **SHALE-60%** Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- DOLOMITE-30%** Dark gray brown black, cryptocrystalline, argillaceous, dense, firm to hard, limy, streaming yellow cut
- LIMESTONE-10%** Medium brown, chalky, argillaceous, soft

- 5720-50**      **SHALE-100% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, streaming yellow cut**
- 5750-80**      **SHALE-90% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, streaming yellow cut**
- DOLOMITE-30% Dark gray brown black, cryptocrystalline, argillaceous, dense, firm to hard, limy, streaming yellow cut**
- 5780-5810**      **SHALE-100% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, immediate streaming yellow cut**
- 5810-40**      **SHALE-100% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, immediate streaming yellow cut**
- 5840-70**      **SHALE-90% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, immediate streaming yellow cut**
- DOLOMITE-10% Black dark gray, cryptocrystalline, argillaceous, limy, firm to hard, streaming yellow cut**
- 5870-5900**      **SHALE-100% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- 5900-30**      **SHALE-50% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- DOLOMITE-40% Brown medium to dark gray brown, cryptocrystalline to microcrystalline, argillaceous, tight, limy, firm to hard, streaming yellow cut**
- LIMESTONE-Light brown, chalky, argillaceous, mud stone, soft**

- 5930-60**      **SHALE-50%** Medium to dark gray(100%) blocky to sub platy, earthy to sub waxy, trace pyrite, firm, calcareous
- SILTSTONE-10%** Light to medium gray, arenaceous, argillaceous, dolomitic, firm
- SANDSTONE-20%** Light to medium gray, very fine (lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, clay matrix, tight, calcareous cement, no show
- DOLOMITE-20%** Gray brown, cryptocrystalline to microcrystalline, argillaceous, tight, limy, firm to hard, streaming yellow cut
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- 5960-90**      **SHALE-30%** Medium to dark gray (40%) light to dark brown (60%), blocky to sub platy, earthy, silty, soft to firm, calcareous
- SANDSTONE-70%** Tan light brown, very fine (lower) to medium (lower) grained, sub angular, moderately sorted, white clay matrix, tight, friable to firm, calcareous cement, streaming yellow cut
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- 5990-6020**    **SHALE-30%** Gray gray brown, blocky to sub platy, earthy, soft, calcareous
- SANDSTONE-20%** Tan light brown, very fine (lower) to medium (lower) grained, sub angular, moderately sorted, white clay matrix, tight, friable to firm, calcareous cement, streaming yellow cut
- DOLOMITE-50%** Gray brown brown, cryptocrystalline to microcrystalline, arenaceous, argillaceous, firm, limy, no show
- 
- 6020-50**      **SHALE-60%** Dark gray gray brown (100%), blocky to sub platy, earthy, soft, calcareous
- DOLOMITE-40%** Gray brown brown, cryptocrystalline to microcrystalline, argillaceous, pyretic, firm to hard, limy, slow streaming yellow cut

- 6050-80**      **SHALE-70%** Dark gray gray brown (100%), blocky to sub platy, earthy, soft, calcareous
- DOLOMITE-20%** Gray brown brown, cryptocrystalline to microcrystalline, argillaceous, pyretic, firm to hard, limy, slow streaming yellow cut
- LIMESTONE-10%**Light to medium brown, chalky, argillaceous, mudstone, soft, slow streaming yellow cut
- 
- 6080-6110**      **SHALE-100%** Dark brown dark gray brown black (100%), blocky to sub platy, earthy, very carbonaceous, soft, limy, streaming yellow cut
- 
- 6110-40**      **SHALE-60%** Dark brown dark gray brown black (100%), blocky to sub platy, earthy, very carbonaceous, soft, limy, streaming yellow cut
- DOLOMITE-40%** Gray brown dark gray, cryptocrystalline, argillaceous, firm-hard, streaming yellow cut
- 
- 6140-70**      **SHALE-40%** Gray brown (100%), blocky to sub platy, earthy, soft, limy, streaming yellow cut
- DOLOMITE-20%** Gray brown dark gray, cryptocrystalline, argillaceous, firm-hard, streaming yellow cut
- LIMESTONE-30%** Light to medium brown, cryptocrystalline, chalky in part, argillaceous, arenaceous, soft to firm, slow streaming yellow cut
- SANDSTONE-10%** Tan, very fine(lower) to fine (lower) grained, sub angular, well sorted, clay matrix, calcareous cement, tight, firm, no show
- 
- 6170-6200**      **SHALE- 100%** Dark brown dark gray brown black (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut

- 6200-30** SHALE- 100% Dark brown dark gray brown black (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut
- 6230-60** SHALE- 100% Dark gray (70%) dark gray brown (30%),sub blocky to platy, earthy to sub waxy, firm, limy, no show
- 6260-90** SHALE- 100% Dark gray (40%), gray brown medium to dark brown (60%),sub blocky to platy, earthy, carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- 6290-6320** SHALE-100% Dark brown black (80%) dark gray (20%), platy to blocky, earthy , carbonaceous, soft, limy, immediate streaming yellow cut
- 6320-50** SHALE-60% Dark brown black (30%) light to medium gray (70%), platy to blocky, earthy, soft, limy, no show
- LIMESTONE-40% Gray gray brown, cryptocrystalline, chalky in part, argillaceous, soft to firm, no show
- 6350-80** SHALE-100% Dark brown black (80%) dark gray (20%), platy to blocky, earthy , carbonaceous, soft, limy, immediate streaming yellow cut
- 6380-6410** SHALE-100% Dark brown black (40%) dark gray (60%), platy to blocky, earthy, carbonaceous in part, soft, limy, immediate streaming yellow cut
- 6410-40** SHALE-100% Dark gray brown dark brown (70%) dark gray (30%), platy to blocky, earthy, carbonaceous, firm, limy, immediate streaming yellow cut

- 6440-70** SHALE-100% Dark brown black (90%) dark gray (10%), sub platy to blocky, earthy, carbonaceous, soft, limy, immediate streaming yellow cut
- 6470-6500** SHALE-100% Dark brown black (10%) dark gray (90%), sub platy to blocky, earthy, soft, limy, slow streaming yellow cut
- 6500-30** SHALE-100% Dark gray gray brown (100%), platy to blocky, earthy to sub waxy, firm, limy, slow streaming yellow cut
- 6530-60** SHALE-100% Medium to dark gray gray brown (70%) dark brown black (30%), platy to blocky, earthy to sub waxy, carbonaceous in part firm, limy, slow streaming yellow cut
- 6560-90** SHALE-100% Medium to dark gray gray brown (30%) dark brown black (70%), sub platy to blocky, earthy to sub waxy, carbonaceous in part firm, limy, slow streaming yellow cut
- 6590-6620** SHALE-100% Dark brown black (90%) medium to dark gray (10%) blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut
- 6620-50** SHALE-100% Dark brown black (100%),blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut
- 6650-80** SHALE-100% Dark brown black (100%),blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut

- 6680-6710** SHALE-100% Dark brown black (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, immediate streaming yellow cut
- 6710-40** SHALE-100% Dark gray brown black dark brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, predominately limy, occasionally dolomitic
- 6740-70** SHALE-100% Dark brown black dark gray brown(100%), blocky to sub platy, earthy, carbonaceous, soft to firm, predominately limy, occasionally dolomitic
- 6770-6800** SHALE-100% Dark brown black dark gray brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, predominately limy, occasionally dolomitic
- 6800-30** SHALE-100% Dark brown black dark gray brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, predominately limy, occasionally dolomitic
- 6830-60** SHALE-100% Dark brown black dark gray brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, predominately limy, occasionally dolomitic
- 6860-90** SHALE-(100%) Medium to light gray (80%) dark brown (20%), sub blocky to platy, sub waxy to earth, soft, limy, slow streaming yellow cut

- 6890-6920**      **SHALE- 60% Light gray light gray brown (100%) blocky to sub platy, earthy, soft, limy, no show**
- LIMESTONE-40% Light gray, chalky, argillaceous, marlstone, very soft, no show**
- 
- 6920-50**            **SHALE-100% Medium gray green gray, sub blocky to sub platy, sub waxy, soft to firm, limy, no show**
- 
- 6950-80**            **SHALE-80% Medium gray green gray gray brown, sub blocky to sub platy, sub waxy to earthy, soft to firm, limy, no show**
- LIMESTONE-20% Light gray, chalky, argillaceous, marlstone, soft, no show**
- 
- 6980-7010**        **SHALE-60% Light to medium gray gray brown, sub blocky to sub platy, sub waxy to earthy, soft to firm, limy, no show**
- SANDSTONE-20% Light to medium gray white, very fine(upper) grained, well sorted, clay matrix, trace pyrite, tight, firm, calcareous cement, no show**
- LIMESTONE-20% Tan light gray, cryptocrystalline, chalky in part, sandy in part, soft to firm, no show**
- 
- 7010-40**            **SHALE-40% Light to medium gray ( 50%) dark brown (50%), sub blocky to sub platy, sub waxy to earthy, soft to firm, limy, no show**
- LIMESTONE-60% Tan light to dark brown, cryptocrystalline to microcrystalline, argillaceous, occasional chalky, soft to firm, no show**

- 7040-70**      **SHALE 20% Dark brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, slow streaming yellow cut**
- LIMESTONE-80% Tan light brown, cryptocrystalline to microcrystalline, increasing chalky, argillaceous, soft, no show**
- 
- 7070-7100**      **SHALE-70% Light gray green gray (80%), dark brown gray brown (20%), blocky to sub platy, sub waxy to earthy, soft to firm, limy, no show**
- LIMESTONE-30% Tan light brown, cryptocrystalline to microcrystalline, increasing chalky, argillaceous, soft, no show**
- 
- 7100-30**      **SHALE-40% Light to medium gray (80%), blocky to sub platy, sub waxy to earthy, soft to firm, limy, no show**
- SANDSTONE-50% Light to medium gray white, very fine (lower) to very fine (upper) grained, sub angular, well sorted, clay matrix, tight, firm, grading to arenaceous Siltstone, no show**
- LIMESTONE-10% Tan light brown, cryptocrystalline to microcrystalline, chalky in part, argillaceous, soft, no show**
- 
- 7130-60**      **SHALE-90% Light to dark gray gray brown, sub blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-10% Light gray, chalky, argillaceous, mudstone, very soft**
- 
- 7160-90**      **SHALE- 90% Medium to dark gray green gray, sub blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-10% Light gray tan, chalky, argillaceous, mudstone, very soft**

- 7190-7220**      **SHALE- 50% Medium to dark gray green gray (50%), dark brown black (50%)sub blocky to platy, sub waxy to earthy, soft, limy, no show**
- LIMESTONE-10% Light to dark brown, cryptocrystalline to microcrystalline, argillaceous, mudstone in part, soft to hard, slow weak streaming yellow cut**
- 7220-50**      **SHALE-100% Dark brown black (80%) gray gray green (20%), sub blocky to platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- 7250-80**      **SHALE-100% Dark brown black (90%) gray gray green (10%), sub blocky to platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- 7280-7310**    **SHALE-100% Dark brown black (40%) gray gray green (60%), sub blocky to platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- 7310-40**      **SHALE- 70% Medium to dark gray green gray (90%), dark brown black (10%)sub blocky to platy, sub waxy to earthy, soft, limy, no show**
- SANDSTONE-30% White tan, very fine (lower) grained, sub angular, well sorted, clay matrix, tight, firm, calcareous cement, no show grading to Siltstone**
- 7340-70**      **SHALE-100% Dark brown black(100%), sub blocky to platy, earthy, carbonaceous, soft, limy, slow streaming yellow cut**
- 7370-7400**    **SHALE- 100%Light to dark gray black (90%) dark brown (10%), sub blocky to platy, earthy, carbonaceous, soft, limy, no show**

- 7400-30**      **SHALE- 80%Light to medium gray gray green gray brown (100%) ,  
sub blocky to platy, earthy, soft, limy, no show**
- LIMESTONE-20% Light gray brown tan, chalky, argillaceous,  
mudstone, soft, no show**
- 
- 7430-60**      **SHALE- 60% Light to medium gray green gray (70%), dark brown  
(30%)sub blocky to platy, sub waxy to earthy, carbonaceous, soft,  
limy, no show**
- SANDSTONE-40% White tan, very fine (lower) grained, sub angular,  
well sorted, clay matrix, tight, firm, calcareous cement, no show**
- 
- 7460-90**      **SHALE- 80%Light to medium gray (100%) , sub blocky to sub platy,  
earthy to sub waxy, soft, limy**
- LIMESTONE-20% Light gray, chalky, argillaceous, mudstone, soft,  
no show**
- 
- 7490-7520**      **SHALE- 80% Light to medium gray (80%), dark brown  
(20%)sub blocky to platy, sub waxy to earthy, carbonaceous in part,  
soft, limy, no show**
- SANDSTONE-20% White tan, very fine (lower) grained, sub angular,  
well sorted, clay matrix, tight, firm, calcareous cement, no show**
- 
- 7520-50**      **SHALE- 100% Medium to dark gray gray brown (100%), blocky to  
sub platy, earthy to sub waxy, soft, limy**
- 
- 7550-80**      **SHALE- 100% Medium to dark brown black (60%) medium to dark  
gray(40%), blocky to sub platy, earthy, carbonaceous, soft to firm,  
limy, slow streaming yellow cut**

- 7580-7610** SHALE- 100% Medium to dark brown black (50%) medium to dark gray(50%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 7610-40** SHALE- 100% Medium to dark brown black (30%) medium to dark gray(70%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 7640-70** SHALE- 100% Dark brown black dark gray brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 7670-7700** SHALE- 100% Dark brown black dark gray brown (100%), blocky to sub platy, earthy, carbonaceous, soft to firm, limy, slow streaming yellow cut
- 7700-30** SHALE- 80% Dark brown black dark gray brown (60%), light to medium gray (40%), blocky to sub platy, earthy, carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- SILTSTONE-20% Light to medium gray brown, arenaceous, argillaceous, friable, limy, no show
- 7730-60** SHALE-90% Gray gray brown (80%) dark brown (20%), blocky to sub platy, earthy, carbonaceous in part, soft to firm, limy, no show
- SILTSTONE-10% Light to medium gray brown, arenaceous, argillaceous, friable, limy, no show

- 7760-90**      **SHALE-80%** Gray gray brown (70%) dark brown (30%), blocky to sub platy, earthy, carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- LIMESTONE-20%** Tan light brown, argillaceous, mudstone, very soft
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- 7790-7820**    **SHALE-90%** Gray gray brown (70%) dark brown (30%), blocky to sub platy, earthy, carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- SILTSTONE-10%** Medium to dark gray, arenaceous, argillaceous, friable to firm, limy, no show
- 
- 7820-50**      **SHALE-80%** Light to medium gray (80%) dark gray brown dark brown (20%), blocky to sub platy, earthy, carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- SILTSTONE-20%** Medium to dark gray, arenaceous, argillaceous, friable to firm, limy, no show
- 
- 7850-80**      **SHALE- 80%** Dark brown black dark gray brown (70%), light to medium gray (30%), blocky to sub platy, earthy, very carbonaceous in part, soft to firm, limy, slow streaming yellow cut
- SILTSTONE-20%** Medium to dark gray, arenaceous, argillaceous, friable, limy, no show
- 
- 7880-7910**    **SHALE- 100%** Dark brown black dark gray brown (60%), light to medium gray (40%), blocky to sub platy, earthy, carbonaceous in part, soft, limy, slow streaming yellow cut
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- 7910-40**      **SHALE- 100%** Dark brown black dark gray brown (90%), light to medium gray (10%), blocky to sub platy, earthy, very carbonaceous , soft, limy, slow streaming yellow cut

- 7940-70**      **SHALE- 80% Dark brown black dark gray brown (80%), light to medium gray (20%), blocky to sub platy, earthy, carbonaceous in part, soft, limy, slow streaming yellow cut**
- LIMESTONE-20% Tan light gray, chalky, argillaceous, mudstone, very soft, no show**
- 
- 7970-8000**    **SHALE- 100% Dark brown black dark gray brown (60%), medium gray(40%), blocky to sub platy, earthy, carbonaceous in part, soft, limy, slow streaming yellow cut**
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- 8000-30**      **SHALE-70% Light to medium gray (100%), blocky to sub platy, earthy, silty, soft, calcareous, no show**
- SILTSTONE-30% Light to medium gray, arenaceous, argillaceous, soft, limy, no show**
- 
- 8030-60**      **SHALE-70% Light to medium gray (100%), blocky to sub platy, earthy, silty, soft, calcareous, no show**
- SILTSTONE-30% Light to medium gray, arenaceous, argillaceous, soft, limy, no show**
- 
- 8060-90**      **SHALE-80% Light to medium gray (100%), blocky to sub platy, earthy, silty, soft, calcareous, no show**
- SILTSTONE-20% Light to medium gray, arenaceous, argillaceous, soft, limy, no show**

- 8090-8120**      **SHALE-90%** Light to medium gray (100%), blocky to sub platy, earthy, silty, soft, calcareous, no show
- SILTSTONE-10%** Light to medium gray, arenaceous, argillaceous, soft, limy, no show
- 
- 8120-50**            **Very Poor Sample ran sweep abundant cavings**
- SHALE-70%** Dark gray dark brown black,(70%), light to medium gray (30%), blocky to sub platy, sub waxy to earthy, carbonaceous, soft, limey, no show
- SILTSTONE-30%** Light to medium gray, arenaceous, argillaceous, soft, limy, no show
- 
- 8150-80**            **SHALE-100%** Dark gray dark brown black,(70%), light to medium gray (30%), blocky to sub platy, sub waxy to earthy, carbonaceous, soft, limey, no show
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- 8180-8210**        **SHALE-100%** Dark gray dark brown black,(80%), light to medium gray (20%), blocky to sub platy, sub waxy to earthy, carbonaceous, soft, limey, no show
- 
- 8210-40**            **SHALE-100%** Light to medium gray (100%), blocky to sub platy, sub waxy to earthy, soft, calcareous, no show
- 
- 8240-70**            **SHALE-100%** Light to medium gray (100%), blocky to sub platy, sub waxy to earthy, soft, calcareous, no show
- 
- 8270-8300**        **SHALE-100%** Light to medium gray (80%) dark brown black (20%), blocky to sub platy, sub waxy to earthy, carbonaceous in part, soft, calcareous, no show

- 8300-30**      **SHALE-100% Dark brown dark gray brown (90%), light to medium gray (10%), blocky to sub platy, earthy, carbonaceous, trace pyrite, soft to firm, limy, no show**
- 8330-60**      **SHALE-100% Dark brown dark gray brown (90%), light to medium gray (10%), blocky to sub platy, earthy, carbonaceous, trace pyrite, soft to firm, limy, no show**
- 8360-90**      **SHALE-80% Dark brown dark gray brown (80%), light to medium gray (20%), blocky to sub platy, earthy, carbonaceous, trace pyrite, soft to firm, limy, no show**
- SANDSTONE-20% Light gray tan salt and pepper, very fine grained, sub angular, well sorted, carbonaceous inclusions, clay matrix, tight, friable, calc cement, no show**
- 8390-8420**    **SHALE-70% Dark brown black (90%), light to medium gray (10%), blocky to sub platy, earthy, carbonaceous, trace pyrite, soft to firm, limy, no show**
- LIMESTONE-30% Medium to dark brown black, chalky in part, cryptocrystalline, argillaceous, very soft to firm, no show**
- 8420-50**      **SHALE-100% Dark brown black (100%), blocky to sub platy, earthy, carbonaceous, trace pyrite, soft to firm, limy, weak residual ring cut**
- 8450-80**      **SHALE-100% Dark brown black (100%), blocky, earthy, carbonaceous, trace pyrite, soft, limy, no show**

- 8480-8510**     **SHALE-60%** Light to medium gray (60%) dark brown black (40%), blocky-sub platy, earthy, carbonaceous in part, soft, calcareous, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-30%** Light gray white, very fine (lower) grained, sub angular, well sorted, trace carbon inclusions, clay matrix, tight, friable, calcareous cement, no show
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- 8510-40**     **SHALE-30%** Dark brown black (100%), blocky, earthy, carbonaceous, trace pyrite, soft, limy, no show
- LIMESTONE-70%** brown tan, cryptocrystalline, argillaceous, fossil fragments, trace calcite filled fractures, soft to firm, slow weak blue white bleeding cut
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- 8540-70**     **SHALE-90%** Dark brown black (100%), blocky to sub platy, earthy, very carbonaceous, trace pyrite, soft, limy in part, occasionally dolomitic, no show
- LIMESTONE-10%** brown tan, cryptocrystalline, argillaceous, fossil fragments, trace calcite filled fractures, soft to firm, slow weak blue white bleeding cut
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- 8570-8600**     **SHALE-90%** Dark brown black (100%), blocky to sub platy, earthy, very carbonaceous, trace pyrite, soft, predominantly limy, occasionally dolomitic, no show
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- 8600-30**     **SHALE-40%** Dark brown black (100%), blocky to sub platy, earthy, very carbonaceous, trace pyrite, soft, limy in part, occasionally dolomitic, no show
- LIMESTONE-60%** Dark gray brown black, cryptocrystalline to microcrystalline, argillaceous, soft, trace calcite filled fractures, no show

- 8630-60**      **SHALE-60%** Dark brown black (100%), blocky to sub platy, earthy, very carbonaceous, trace pyrite, soft, very limy, no show
- LIMESTONE-40%** Dark gray brown black, cryptocrystalline to microcrystalline, argillaceous, soft, trace calcite filled fractures, no show
- 8660-90**      **SHALE-40%** Dark brown black (80%), light to medium gray (20%) blocky to sub platy, earthy, carbonaceous in part, soft, limy, no show
- LIMESTONE-20%** Dark gray brown black, cryptocrystalline to microcrystalline, argillaceous, soft, trace calcite filled fractures, no show
- SANDSTONE-40%** White tan, very fine (lower) to fine (upper) grained, sub rounded, well sorted, clay matrix, trace carbonaceous inclusions, tight, calcareous cement, trace brown stain, weak slow bleeding blue white cut
- 8690-8720**    **SHALE-40%** Light to medium gray (70%), dark gray brown black (30%), blocky to sub platy, earthy, silty in part, carbonaceous, soft to firm, calcareous, no show
- SANDSTONE-40%** White tan brown , very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, clay matrix, micaceous, trace carbonaceous inclusions, trace glauconite, 8-12 % porosity, calcareous cement, trace brown stain, weak slow bleeding blue white cut
- 8720-50**      **SHALE-40%** Light to medium gray (100%), blocky to sub platy, earthy, silty in part, soft, dolomitic, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, soft, dolomitic, no show
- SANDSTONE-40%** Light gray , very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, trace carbonaceous inclusions, trace glauconite, tight 6-10 % porosity, friable, calcareous cement, trace brown stain, weak slow bleeding blue white cut

- 8750-80**      **SHALE-30%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, limy
- LIMESTONE-60%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- SANDSTONE-10%** Light gray , very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, trace carbonaceous inclusions, trace glauconite, tight 6-10 % porosity, friable, calcareous cement, no show
- 
- 8780-8810**      **SHALE-40%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy
- LIMESTONE-60%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 8810-40**      **SHALE-50%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy
- LIMESTONE-50%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 8840-70**      **SHALE-30%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, limy
- LIMESTONE-70%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 8870-8900**      **SHALE-50%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy
- LIMESTONE-50%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

- 8900-30**      **SHALE-40% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-60% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 8930-60**      **SHALE-30% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-70% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 8960-90**      **SHALE-30% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-70% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 8990-9020**      **SHALE-40% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-60% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, trace calcite filled fractures, no show**
- 
- 9020-50**      **SHALE-40% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-60% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

- 9050-80**      **SHALE-30% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-70% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 9080-9110**      **SHALE-40% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy, trace Bentonite, white, soft**
- LIMESTONE-60% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 9110-40**      **SHALE-20% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-80% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 9140-70**      **SHALE-20% Dark gray brown black medium gray, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-80% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**
- 
- 9170-9200**      **SHALE-30% Dark gray brown black, blocky to sub platy, earthy, carbonaceous, soft, limy**
- LIMESTONE-70% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

- 9200-30**      **SHALE-40%**Light to medium gray (100%), blocky to sub platy, earthy, silty, arenaceous, soft, calc
- SANDSTONE-40%** Light gray white salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, tight 6-10% visible porosity, friable, no show
- LIMESTONE-20%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9230-60**      **SHALE-20%** Dark gray brown black, blocky to sub platy, earthy, carbonaceous, silty in part, soft, limy
- SANDSTONE-20%** Light gray white salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, tight 6-10% visible porosity, friable, no show
- LIMESTONE-60%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace fossil fragments, soft, no show
- 
- 9260-90**      **SHALE-30%** Light to medium gray (100%), blocky to sub platy, earthy, silty, arenaceous, soft, calc
- SANDSTONE-60%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, fair visible porosity 12% on E Log, friable, no show
- LIMESTONE-10%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

- 9290-9320**      **SHALE-20%** Light to medium gray (100%), blocky to sub platy, earthy, silty, arenaceous, soft, calc
- SANDSTONE-20%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, 8-12% visible porosity, friable, no show
- LIMESTONE-60%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace fossil fragments, trace calcite filled fractures, soft, no show
- 
- 9320-50**      **SHALE-20%** Light to medium gray (60%) dark gray brown black (40%), blocky to sub platy, earthy, silty, arenaceous, soft, limy, no show
- SANDSTONE-20%** Light gray white salt and pepper, very fine (lower) to fine (lower) grained, sub rounded, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, 6-10% visible porosity, friable, no show
- LIMESTONE-60%** Dark brown dark gray brown black tan, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show
- 
- 9350-80**      **SHALE-40%** Light to medium gray (70%) dark gray brown black (30%), sub blocky to sub platy, earthy, silty, soft, limy
- SANDSTONE-10%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, 8-12% visible porosity, friable, no show
- LIMESTONE-50%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show

**9380-9410**     **SHALE-20% Light to medium gray (60%) dark gray brown black (40%), sub blocky to sub platy, earthy, silty, soft, limy**

**SANDSTONE-70% Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, 6-12% visible porosity, friable, no show**

**LIMESTONE-10% Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show**

**9410-40**     **SHALE-20% Light to medium gray (40%) dark gray brown black (60%), sub blocky to sub platy, earthy, silty, soft, limy**

**SANDSTONE-70% Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, good visible porosity 15% on E Log, friable, no show**

**LIMESTONE-50% Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show**

**9440-70**     **SHALE-10% Light to medium gray (40%) dark gray brown black (60%), blocky to sub platy, earthy, silty, soft, limy**

**SANDSTONE-20% Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, 6-12% visible porosity, friable, no show**

**LIMESTONE-70% Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show**

- 9470-9500**      **SHALE-10%** Light to medium gray (40%) dark gray brown black (60%), blocky to sub platy, earthy, silty, soft, limy
- SANDSTONE-30%** Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, 6-12% visible porosity, friable, no show
- LIMESTONE-60%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show
- 
- 9500-30**      **SHALE-10%** Light to medium gray (70%) dark gray brown black (30%), blocky to sub platy, earthy, silty, soft, calcareous to limy
- SANDSTONE-40%** Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, 6-12% visible porosity, friable, no show
- LIMESTONE-10%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show
- 
- 9530-60**      **SHALE-10%** Light to medium gray (60%) dark gray brown black (40%), blocky to sub platy, earthy, silty, soft, limy
- SANDSTONE-20%** Light gray white salt and pepper, very fine (lower) to medium (lower) grained, sub rounded, moderately sorted, white clay matrix, trace carbonaceous inclusions, calcareous cement, trace glauconite, 6-12% visible porosity, friable, no show
- LIMESTONE-70%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show

- 9560-90**      **SHALE-10%** Light to medium gray (40%) dark gray brown black (60%), blocky to sub platy, earthy, silty, soft, limy
- SILTSTONE-30%** Light gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-40%** White gray salt and pepper, very fine (lower) to medium (upper) grained, sub angular, moderately sorted, white clay matrix, carbonaceous inclusions, calcareous cement, trace glauconite, good visible porosity 17 % on E log, friable, no show
- LIMESTONE-20%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show
- 
- 9590-9620**      **SHALE-10%** Light to medium gray (40%) dark gray brown black (60%), blocky to sub platy, earthy, silty, soft, limy
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-70%** White gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, calcareous cement, fair visible porosity, friable, no show
- 
- 9620-50**      **SHALE-30%** Light to medium gray (70%) dark gray brown black (30%), blocky to sub platy, earthy, silty, soft, limy
- SILTSTONE-20%** Light to medium gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-40%** White gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, calcareous cement, 6-10% visible porosity, friable, no show
- LIMESTONE-10%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show

- 9650-80**      **SHALE-20%** Light to medium gray (70%) dark gray brown black (30%), blocky to sub platy, earthy, silty, soft, limy
- SANDSTONE-70%** White gray salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, calcareous cement, predominately tight, friable, no show
- LIMESTONE-10%** Dark brown dark gray brown black, cryptocrystalline, argillaceous, marlstone, trace calcite filled fractures, soft, no show
- 
- 9680-9710**      **SHALE-50%** Light to medium gray gray green (90%) dark gray brown black(10%), blocky to sub platy, earthy to sub waxy, soft, calcareous
- SILTSTONE-20%** Gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-30%** White gray salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, calcareous cement, predominately tight, friable, no show
- 
- 9710-18 BU**      **SHALE-50%** Light to medium gray gray green (90%) dark gray brown black(10%), blocky to sub platy, earthy to sub waxy, soft, calcareous
- SILTSTONE-20%** Gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-30%** White gray salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, calcareous cement, predominately tight, friable, no show
- 
- 9718-40**      **Very Poor Sample abundant cement following casing run**

- 9740-70**      **SHALE-50%** Light to medium gray gray green, blocky to platy, earthy, soft, limy
- LIMESTONE-50%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9770-9800**    **SHALE-20%** Light to medium gray gray green, blocky to platy, earthy, soft, limy
- SANDSTONE-30%** Light to medium gray white salt and pepper, very fine (lower) to medium (lower) grained, sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, fair visible porosity, calcareous cement, no show
- LIMESTONE-50%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9800-30**      **SHALE-20%** Light to medium gray gray green, blocky to platy, earthy, soft, limy
- SANDSTONE-10%** Light to medium gray white salt and pepper, very fine (lower) to medium (lower) grained, sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, poor visible porosity, no show
- LIMESTONE-70%** Light to medium gray gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9830-60**      **SHALE-10%** Light gray red brown yellow maroon, blocky, earthy to sub waxy, soft, calcareous
- SANDSTONE-80%** Light gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, poor visible porosity, calcareous cement, no show
- LIMESTONE-10%** Light to medium gray gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

- 9860-90**      **SANDSTONE-40%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, poor visible porosity, calcareous cement, no show
- LIMESTONE-60%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9890-9920**      **SHALE-30%** Light gray gray brown trace maroon red brown, blocky to platy, earthy to sub waxy, soft, limy
- SANDSTONE-30%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, poor visible porosity, calcareous cement, no show
- LIMESTONE-40%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9920-50**      **SHALE-20%** Light gray gray green, blocky to platy, earthy to sub waxy, soft, limy
- SANDSTONE-10%** Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, poor visible porosity, no show
- LIMESTONE-70%** Gray brown gray black, cryptocrystalline, argillaceous, marlstone, soft, no show
- 
- 9950-80**      **SHALE-10%** Light gray gray brown trace maroon red brown, blocky to platy, earthy to sub waxy, soft, limy
- SANDSTONE-60%** Light gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, occasional unconsolidated, good visible matrix porosity 16%, no show
- LIMESTONE-30%** Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

**9980-10010 SHALE-10% Light gray gray brown trace maroon red brown, blocky to platy, earthy to sub waxy, soft, limy**

**SANDSTONE-60% Light to medium gray white salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, calcareous cement, fair visible porosity, no show**

**LIMESTONE-30% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10010-40 SILTSTONE-10% Light to medium gray, argillaceous, arenaceous, soft, limy**

**SANDSTONE-50% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, calcareous cement, no show**

**LIMESTONE-30% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10040-70 SILTSTONE-20% Light to medium gray, argillaceous, arenaceous, soft, limy**

**SANDSTONE-40% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, calcareous cement, no show**

**LIMESTONE-40% Dark gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10070-10100 SILTSTONE-10% Light to medium gray, argillaceous, arenaceous, soft, limy**

**SANDSTONE-20% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, calcareous cement, no show**

**LIMESTONE-70% Gray brown light brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10100-30 SILTSTONE-10% Light to medium gray, argillaceous, arenaceous, soft, limy**

**SANDSTONE-70% White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show**

**LIMESTONE-20% Gray brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10130-60 SHALE-20% Light gray trace red brown maroon, blocky to platy, earthy, soft, limy**

**SANDSTONE-40% White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show**

**LIMESTONE-40% Gray brown light brown black, cryptocrystalline, argillaceous, marlstone, soft, no show**

**10160-90**      **SHALE-60%** Red brown variegated maroon light gray yellow, blocky, earthy, silty in part, soft, limy

**SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show

**LIMESTONE-10%** Gray brown light brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

**10190-220**      **SHALE-70%** Variegated red brown light gray, blocky, earthy, silty in part, soft, limy

**SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show

**LIMESTONE-10%** Gray brown light brown black, cryptocrystalline, argillaceous, marlstone, soft, no show

**10220-50**      **SHALE-70%** Variegated maroon red brown light gray, blocky, earthy, silty in part, soft, limy

**SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show

- 10250-80**      **CLAYSTONE-20%** White, chalky, arenaceous, very soft
- SHALE-40%** Variegated maroon red brown light gray, blocky, earthy, silty in part, soft, limy
- SILTSTONE-10%** Light to medium gray, argillaceous, arenaceous, soft, limy
- SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray brown dark gray black, argillaceous, marlstone, soft
- 
- 10280-310**      **SHALE-80%** Variegated light to medium gray red brown maroon, blocky to platy, earthy to sub waxy, soft, calcareous
- SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray brown dark gray black, argillaceous, marlstone, soft
- 
- 10310-40**      **SHALE-80%** Variegated light to medium gray red brown maroon, blocky to platy, earthy to sub waxy, soft, calcareous
- SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray brown dark gray black, argillaceous, marlstone, soft

- 10340-70**      **CLAYSTONE-30%** White light gray, chalky, arenaceous, very soft  
**SHALE-40%** Variegated light to medium gray red brown maroon, blocky to platy, earthy to sub waxy, soft, calcareous  
**SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- 10370-400**      **SHALE-90%** Variegated predominately red brown light to medium gray, blocky, earthy, soft, calcareous  
**SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- 10400-30**      **SHALE-80%** Variegated red brown light to medium gray, blocky, earthy, soft, calcareous  
**SANDSTONE-20%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- 10430-60**      **SHALE-90%** Variegated light to medium gray red brown, blocky to platy, earthy to sub waxy, soft, limy in part, calcareous  
**SANDSTONE-10%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show

- 10460-90**      **SHALE-60%** Variegated light to medium gray red brown, blocky to platy, earthy to sub waxy, soft, limy in part, calcareous
- SANDSTONE-30%** White light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray gray brown, microcrystalline, white clay fill, firm, no show
- 
- 10490-520**      **SHALE-70%** Variegated light to medium gray red brown, blocky to platy, earthy to sub waxy, soft, limy in part, calcareous
- SANDSTONE-20%** White light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray gray brown, microcrystalline, white clay fill, firm, no show
- 
- 10520-50**      **SHALE-20%** Variegated light to medium gray red brown, blocky to platy, earthy to sub waxy, soft, limy in part, calcareous
- SILTSTONE-10%** Light gray, argillaceous, arenaceous, soft, limy
- SANDSTONE-30%** White light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-40%** White light gray, chalky, arenaceous, soft, no show

- 10550-80**      **SHALE-40%** Variegated light to medium gray red brown, blocky to platy, earthy to sub waxy, soft, limy in part, calcareous
- SANDSTONE-20%** White light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-40%** Light gray tan, cryptocrystalline to microcrystalline, occasionally sandy, soft, no show
- 
- 10580-610**      **SHALE-80%** Dark brown (90%), variegated light to medium gray red brown(10%), blocky, earthy, carbonaceous, soft, calcareous, slow streaming yellow cut
- SANDSTONE-10%** White light to medium gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, white clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Light gray tan, cryptocrystalline to microcrystalline, occasionally sandy, soft, no show
- 
- 10610-40**      **SHALE-20%** Variegated red brown green yellow, blocky to platy, earthy, soft, calc
- DOLOMITE-80%** White light gray, cryptocrystalline, clean, dense, firm, limy, no show
- 
- 10640-70**      **SHALE-80%** Variegated maroon red brown yellow light gray, blocky to platy, earthy, soft, calcareous
- SANDSTONE-10%** White light gray green salt and pepper, very fine (lower) to fine (upper) grained, well sorted, sub angular, carbonaceous inclusions, glauconitic, clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Light gray gray brown, cryptocrystalline, argillaceous, marlstone, soft, no show

- 10670-700**      **SHALE-80%** Light to dark gray (60%) red brown variegated (40%), platy to splintery, earthy, soft, calcareous
- SANDSTONE-20%** White light gray salt and pepper, very fine (lower) to fine (lower) grained, well sorted, sub angular, carbonaceous inclusions, clay matrix, poor visible porosity, friable, calcareous cement, no show
- 
- 10700-30**      **SHALE-20%** Light to dark gray (60%) red brown variegated (40%), platy to splintery, earthy, soft, calcareous
- SANDSTONE-80%** White light gray salt and pepper, very fine (lower) to fine (lower) grained, well sorted, sub angular, carbonaceous inclusions, clay matrix, poor visible porosity, friable, calcareous cement, no show
- 
- 10730-60**      **SHALE-80%** Variegated light to medium gray red brown maroon yellow, blocky to platy, earthy, soft, calcareous
- SANDSTONE-10%** White light gray salt and pepper, very fine (lower) to fine (lower) grained, well sorted, sub angular, carbonaceous inclusions, clay matrix, poor visible porosity, friable, calcareous cement, no show
- LIMESTONE-10%** Gray brown brown, cryptocrystalline to microcrystalline, soft to firm, no show
- 
- 10760-95**      **SHALE-90%** Medium to dark gray (60%)variegated red brown  
**TD**              maroon yellow(40%), blocky to platy, earthy, soft, calcareous
- SANDSTONE-10%** White light gray salt and pepper, very fine (lower) to fine (lower) grained, well sorted, sub angular, carbonaceous inclusions, clay matrix, poor visible porosity, friable, calcareous cement, no show

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**Hydrocarbon Ratio Analysis  
DART 1-12-3-2**

**Figure 1.0a Test Data**

Show	DEPTH (feet)		Gas	Total Gas	C1 (ppm)	C2 (ppm)	C3 (ppm)	C4 (ppm)	C1/C2	C1/C3	C1/C4	Formation	Comments
1	4349	4367	Peak	1459	1096360	30219	3663	2459	80	621	418	GR	SH-lt-dk brn, blk-pty, rthy, sft, lmy, sl strmg yel cut, no flor
			BG	905	68489	17329	2007	0					
			Net	554	1027871	12890	1656	2459					
2	5884	5898	Peak	1605	122850	36600	370	752	3	337	129	GR	SHALE-dk brn, blk-pty, rthy, sft, lmy, strmg yel cut, no flor
			BG	635	34228	9557	107	67					
			Net	970	88622	27043	263	685					
3	6072	6082	Peak	995	60551	17209	1820	1	3	31	47015	GR	SH- brn, blk, rthy, frm, strmg yel cut
			BG	167	13536	2892	306	0					
			Net	828	47015	14317	1514	1					
4	6494	6520	Peak	1378	108422	28263	3151	1	3	44	77141	GR	SH- brn, blk, rthy, frm, strmg yel cut
			BG	380	31281	5316	1410	0					
			Net	998	77141	22947	1741	1					
5	7390	7406	Peak	914	70221	14236	14236	6956	5	5	10	GR	SH-dk brn, rthy, carb, sl strmg yel cut
			BG	180	13869	2812	2812	1374					
			Net	734	56352	11424	11424	5582					
6	7664	7726	Peak	1055	78281	25344	1924	1427	3	47	60	GR	SH-dk brn blk, rthy, carb, sl strmg yel cut
			BG	268	21112	5000	704	477					
			Net	787	57169	20344	1220	950					
7	7894	7883	Peak	2406	186992	44013	9660	10	4	259	17066	GR	SH-dk brn incr blk, rthy, carb, sl strmg yel cut
			BG	204	16332	3470	9002	0					
			Net	2202	170660	40543	658	10					

**Hydrocarbon Ratio Analysis  
DART 1-12-3-2**

**Figure 1.0b Test Data**

<b>8</b>	7969	7990	Peak	4406	291338	110181	22756	16380	3	12	14	GR	SH-dk brn incr blk, rthy, carb, sl strmg yel cut
			BG	896	63206	22491	3947	221					
			Net	3510	228132	87690	18809	16159					
<b>9</b>	8639	8652	Peak	2806	194639	72547	13509	10	3	13	12629	GR	LS-dk gybrn blk, crp-micxl, arg, tr calc fld fracs, no flor, no cut
			BG	959	68351	23764	3834	0					
			Net	1847	126288	48783	9675	10					
<b>10</b>	9251	9283	Peak	5122	288542	128503	51562	43610	2	5	6	Wasatch	SS-lt gy wh, vf(l)-f(u)gr, p vis port, no flor, no cut,
			BG	431	30755	8864	3542	0					
			Net	4691	257787	119639	48020	43610					
<b>11</b>	9594	9622	Peak	6555	380078	170027	50578	54908	2	16	9	Wasatch	SS-lt gy wh, vf(l)-f(u)gr, p vis port, no flor, no cut,
			BG	3303	180085	79756	38211	32269					
			Net	3252	199993	90271	12367	22639					
<b>12</b>	9626	9644	Peak	8637	398932	234236	119790	103633	1	2	3	Wasatch	SS-lt gy wh, vf(l)-f(l)gr, p vis port, no flor, no cut,
			Sat										
			BG	4968	277773	111692	48232	59140					
			Net	0	121159	122544	71558	44493					
<b>13</b>	10582	10589	Peak	3699	200908	99138	39258	30688	2	5	6	Wasatch	SH-dk brn, rthy, carb, sl strmg yel cut
			BG	170	13037	2581	863	611					
			Net	3529	187871	96557	38395	30077					

SHOW #1 4349'-4367'

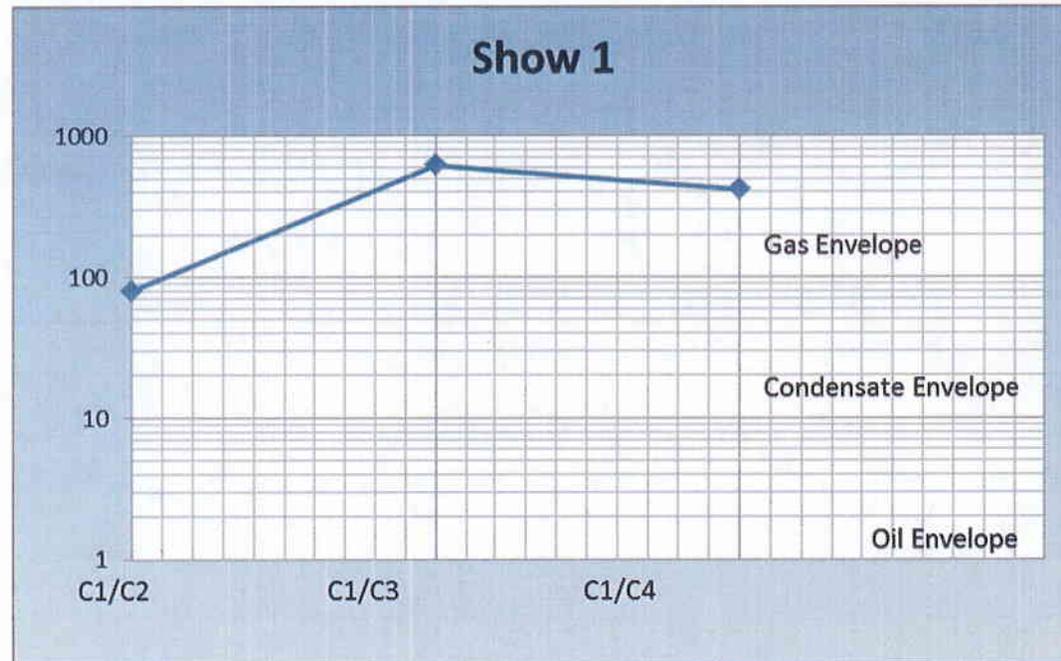
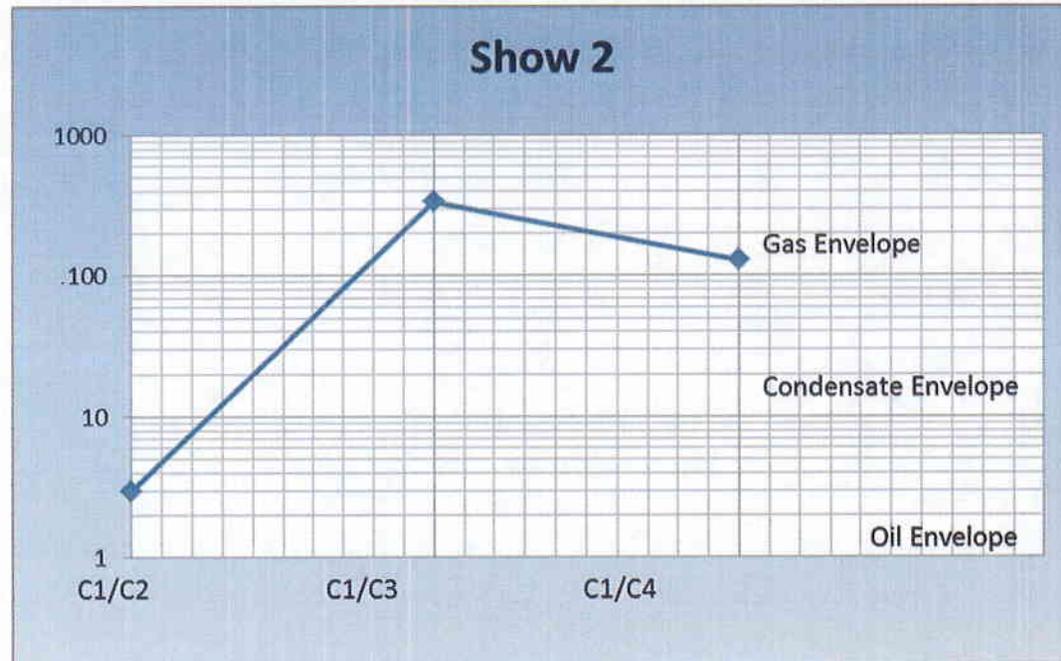


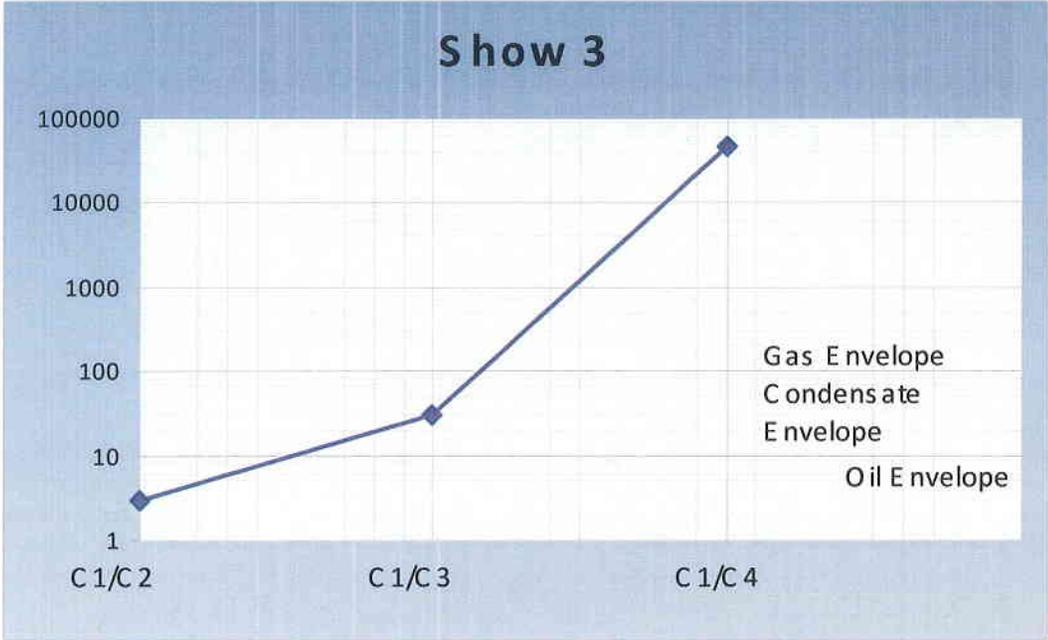
Figure 1.1 Show 1

**SHOW #2 5484'-5898'**



**Figure 1.2 Show 2**

**SHOW #3 6072-6082**



**Figure 1.3 Show 3**

# SHOW # 4 6494-6520

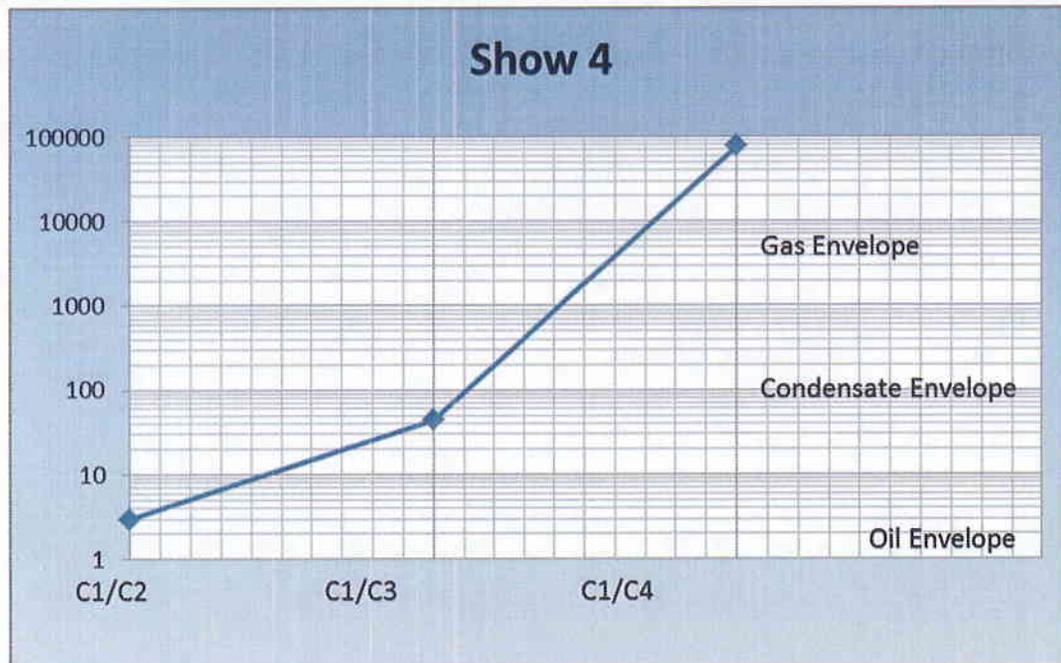
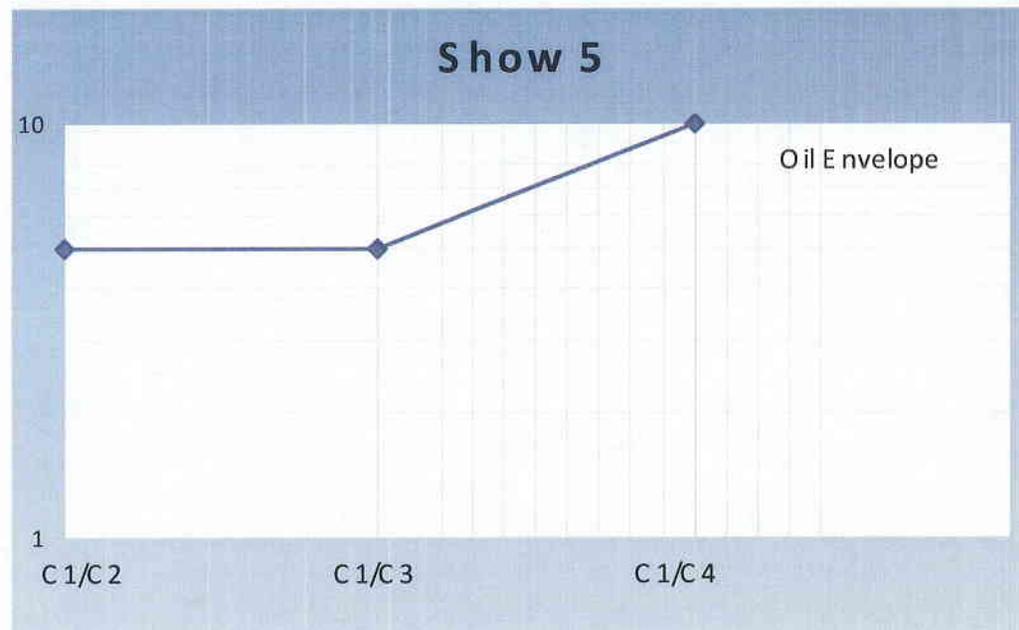


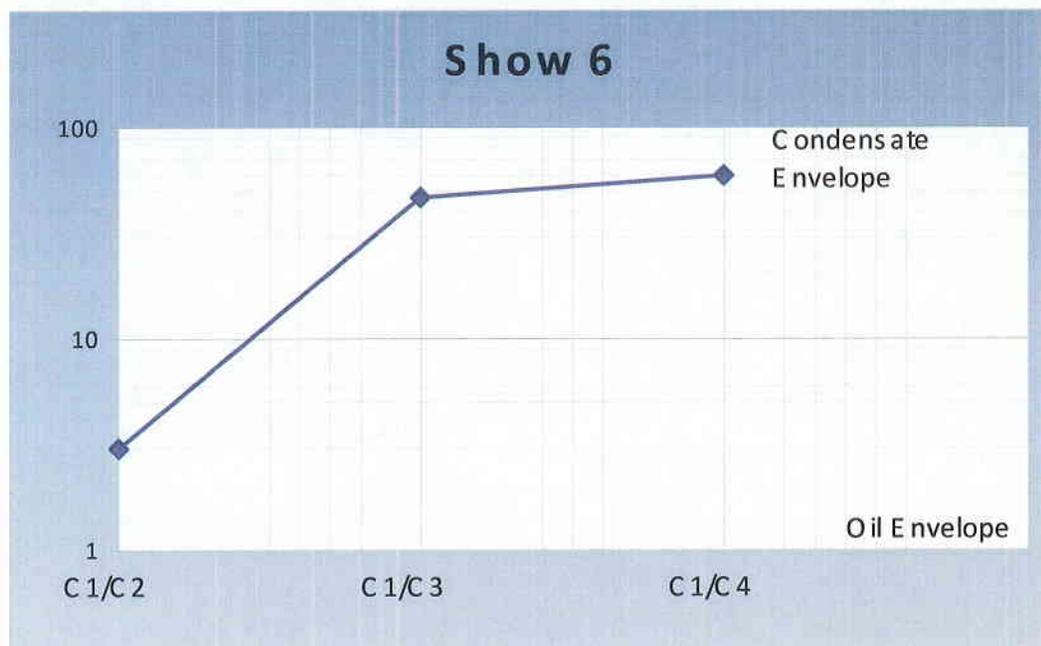
Figure 1.4 Show 4

**SHOW # 5 7390-7406**



**Figure 1.5 Show 5**

**SHOW # 6 7674-7725**



**Figure 1.6 Show 6**

SHOW 7 7868-7879

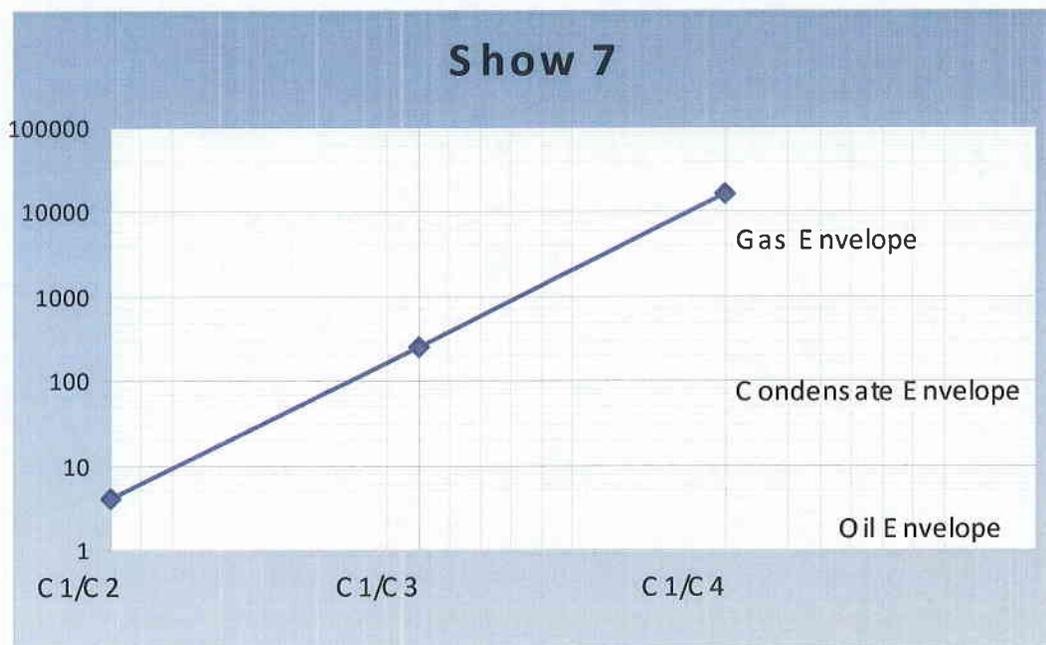


Figure 1.7 Show 7

SHOW 8 7969-7990

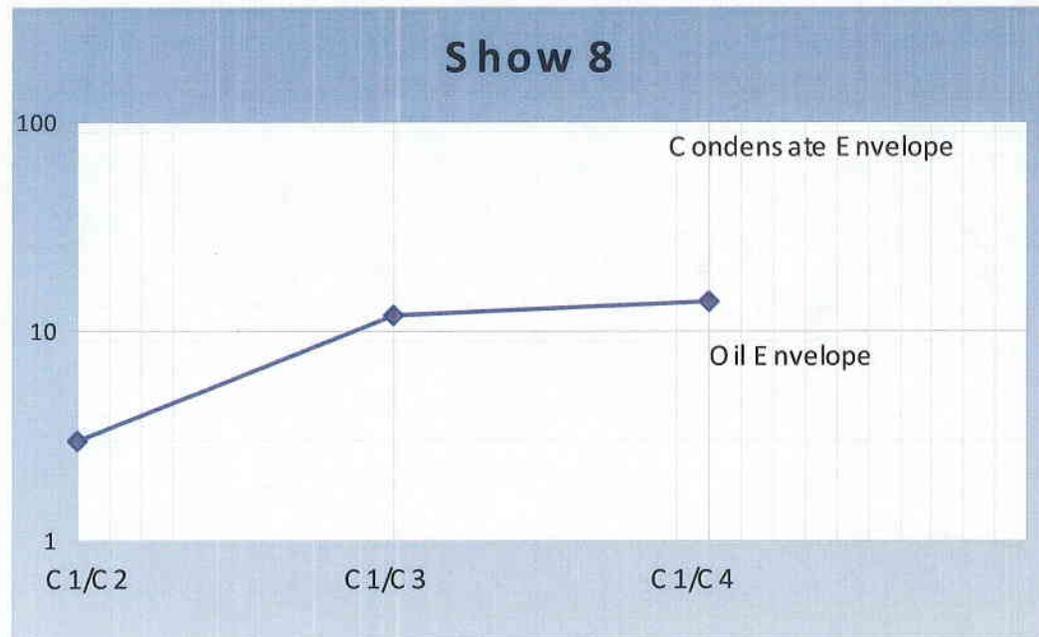
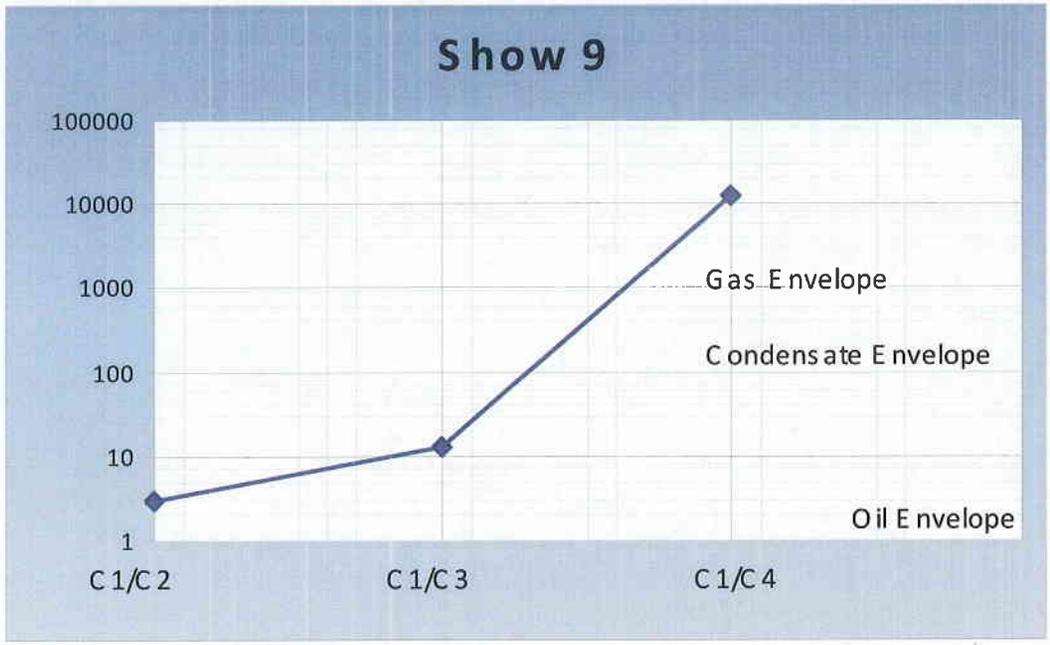


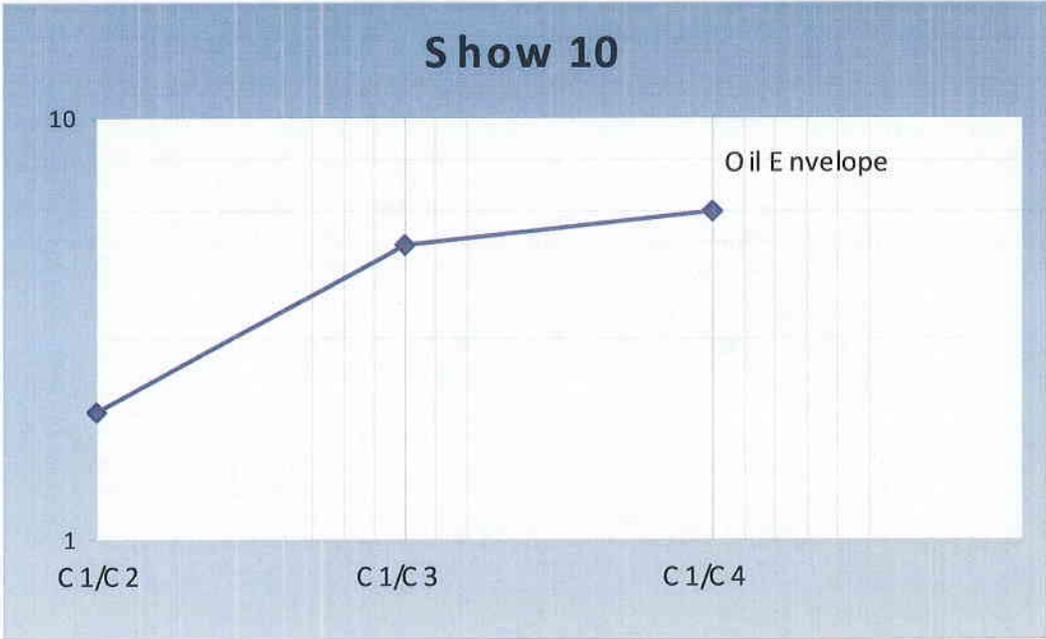
Figure 1.8 Show 8

**SHOW 9 8639-8652**



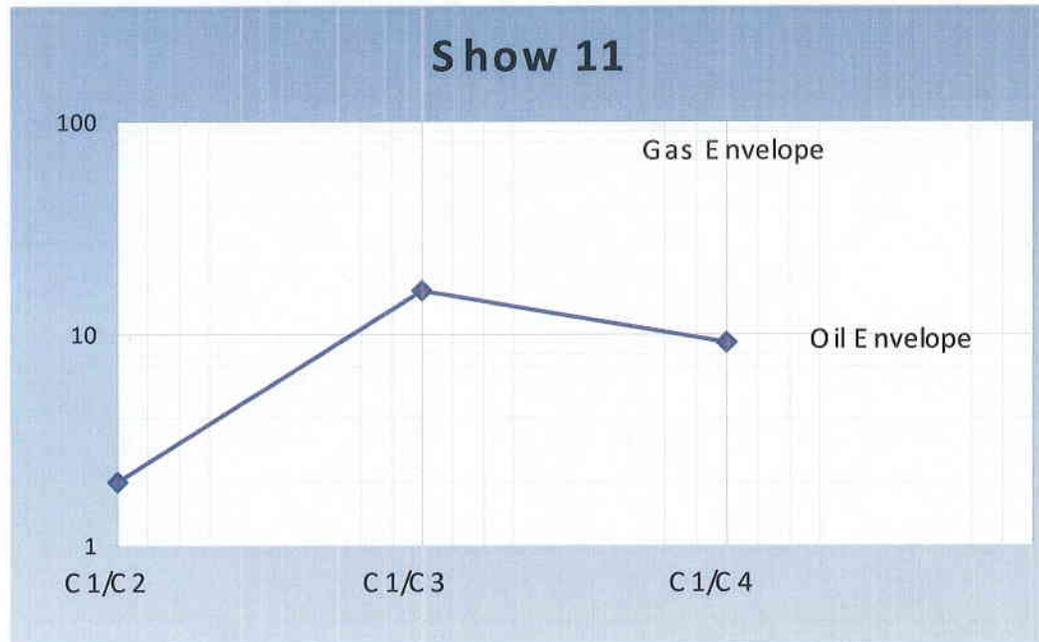
**Figure 1.9 Show 9**

**SHOW 10 9251-9283**



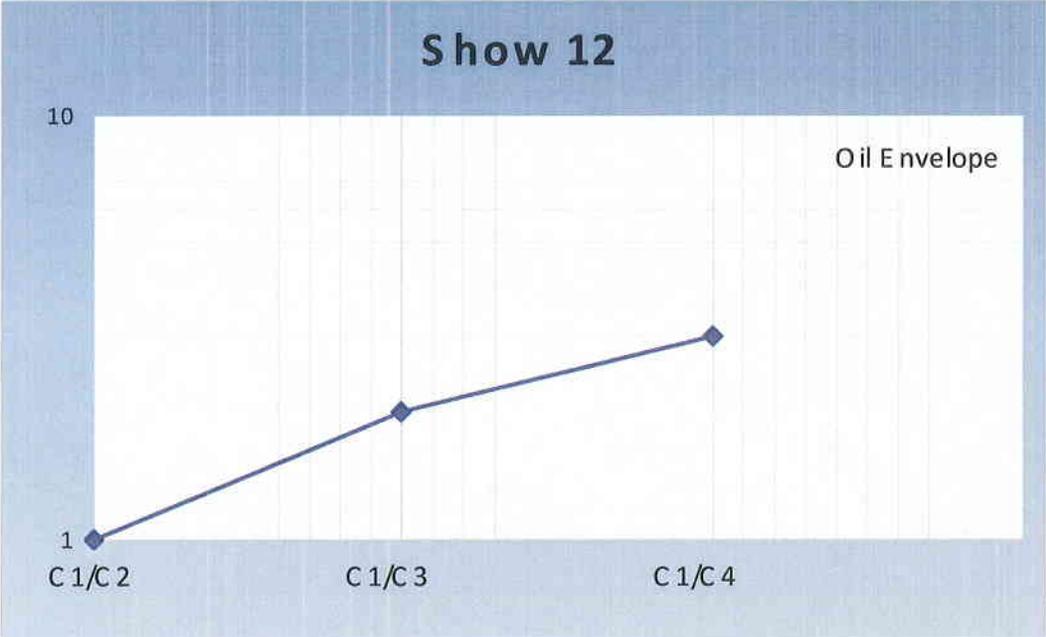
**Figure 2.0 Show 10**

**SHOW 11 9594-9622**



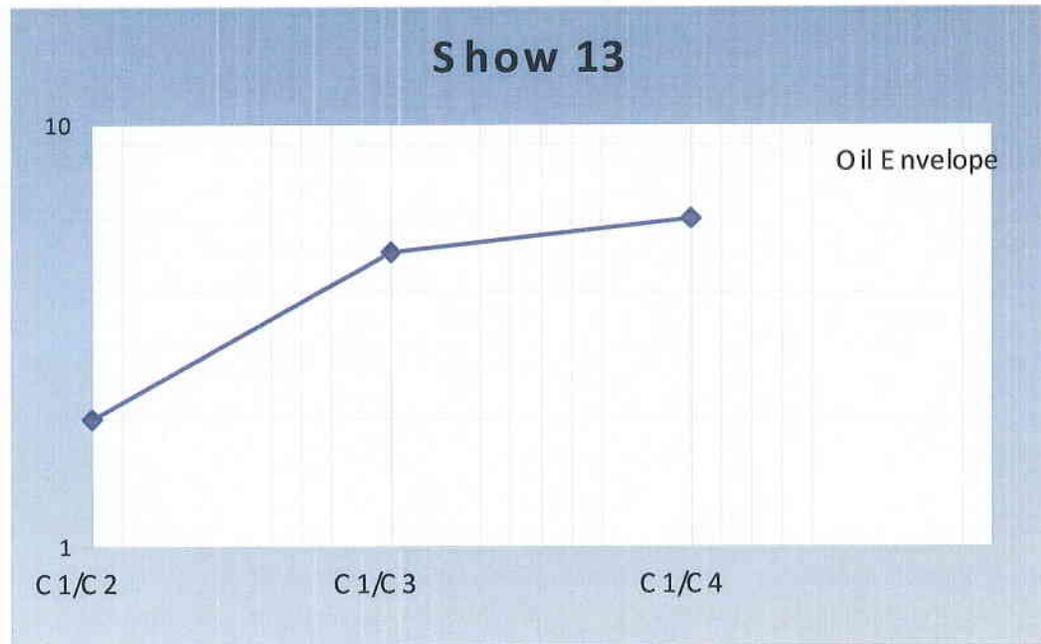
**Figure 2.1 Show 11**

**SHOW 12 9626-9644**



**Figure 2.2 Show 12**

**SHOW 13 10582-10589**



**Figure 2.3 Show 13**

# CONFIDENTIAL

## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 21, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**7:00a.m. Depth 3055 Progress: 817      Operation: TOH for 9 5/8 Surf Csg**

**NB# 1 12 1/4", Ulterra, , MS1666BCU in at 1053 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 2722 Wt 9.4 Vis 43 PV 5 YP 9 PH 8.3 F 15.8 Chl 10000**

**Dev at 2769 .45 deg**

**Formation:      Tops:**  
**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @ NA

<b>Mud Gas</b>	<b>Trip Gas</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>Conn Gas</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>BG</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>FG</b>	<b>NA</b>			

### SHOWS

INTERVAL	Gross	P/Rate	Peak	Flare	Mud in/out	Porosity	Flor	Stain	Lith

CONFIDENTIAL

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 22, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**7:00a.m. Depth 3055 Progress: 0 Operation: Set 9 5/8 Surf Csg @ 2995 W/O Cmt**

**NB# 1 12 1/4", Ultrerra, , MS1666BCU in at 1053 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 3055 Wt 9.5 Vis 44 PV 6 YP 7PH 8.3 F 15.8 Chl 10000**

**Dev at 2769 .45 deg**

**Formation:      Tops:**

**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @ NA

<b>Mud Gas</b>	<b>Trip Gas</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>Conn Gas</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>BG</b>		<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>FG</b>	<b>NA</b>			

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 23, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**7:00a.m. Depth 3055 Progress: 0 Operation: Nipple Up Test BOPs**

**NB# 1 12 1/4",Ulterra, , MS1666BCU in at 1053 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 3055 Wt 9.5 Vis 45 PV 5 YP 9 PH 8.3 F 16.0 Chl 10000**

**Dev at 2769 .45 deg**

**Formation:      Tops:**  
**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @ NA

<b>Mud Gas</b>	<b>Trip Gas</b>		Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>		Mud Wt in	Mud Wt out	Flare
	<b>BG</b>		Mud Wt in	Mud Wt out	Flare
	<b>FG</b>	<b>NA</b>			

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Oct 24, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 3454 Progress: 391 Operation: Drilling 8.75 hole**

**NB# 2 8 3/4",Ulterra, , MS1666DU in at 3055 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 3063 Wt 9.5 Vis 35 PV 7 YP 4 PH 9.0 F 19.0 Chl 10000**

**Dev at 2769 .45 deg**

**Formation:                      Tops:**  
**24 Hr. Lithology: SS, SH**

Sample Quality: Good

Smpl @ 3410 90% SS wh lt-m gy, vf(l)-f(l)gr, sbang, w srt, cly mtx, mic, glau, carb  
incl, tt, fri, uncon ip, sl calc, no show 10% SH m-dk gy, blk-ply, rthy, sft frm, sl calc

<b>Mud Gas</b>	<b>Trip Gas</b>	<b>49</b>	Mud Wt in	9.6	Mud Wt out	9.6	Flare
	<b>Conn Gas</b>	<b>26</b>	Mud Wt in	9.6	Mud Wt out	9.6	Flare
	<b>BG</b>	<b>13</b>	Mud Wt in	9.6	Mud Wt out	9.6....	Flare
	<b>FG</b>	<b>NA</b>					

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 25, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 4617 Progress: 1163      Operation: Drilling 8.75 hole**

**NB# 2 8 3/4",Ulterra, , MS1666DU in at 3055 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 3890 Wt 9.6 Vis 40 PV 5 YP 9 PH 8.8 F 12.4 Chl 28000**

**Dev at 4523 2.2 deg 187.8 azm**

**Formation:Green River    Tops: GR1 @ 4048**

**24 Hr. Lithology: SS, SH,LS**

Sample Quality: Good

**Smpl @ 4550 100% SH -lt-dk brn(100%), blkky-plty, rthy, sft, lmy, sl strmg yel cut**

**Mud Gas    Trip Gas    NA      Mud Wt in 9.6    Mud Wt out 9.6    Flare**  
**Conn Gas    1207/1285    Mud Wt in 9.7    Mud Wt out 9.7    Flare**  
**BG            625/835      Mud Wt in 9.7    Mud Wt out 9.7...Flare**  
**FG            1459**

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
4349-4367	18	.35-.4-.47	1459	no	9.7/9.7		no	no	SH-brn, blkky-plty,v calc, no flor, slow yel cut

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Oct 26, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 5277 Progress: 660                      Operation: Drilling 8.75 hole**

**NB# 2 8 3/4",Ulterra, , MS1666DU in at 3055 Bit # 1 cut 2002 ft in 28 1/2 hrs**

**Mud Ck 5008 Wt 9.8 Vis 45 PV 12 YP 9 PH 8.3 F 8.6 Chl 32000**

**Survey at 5181 3.9 deg 204.3 azm**

**Formation:Green River    Tops: GR1 @ 4048**

**24 Hr. Lithology: SS, SH ,LS**

Sample Quality: Good

**Smpl @ 5180 100% SH -lt gy, sbblky-sbplty, sbwxy, sft-frm, no show**

<b>Mud Gas</b>	<b>Trip Gas</b>	<b>NA</b>	<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>Conn Gas</b>	<b>105/219</b>	<b>Mud Wt in 9.8</b>	<b>Mud Wt out 9.8</b>	<b>Flare</b>
	<b>BG</b>	<b>15/85</b>	<b>Mud Wt in 9.8</b>	<b>Mud Wt out 9.8...</b>	<b>Flare</b>
	<b>FG</b>	<b>NA</b>			

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 27, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 5411 Progress: 134      Operation: TOH for MWD**

**NB# 3 8 3/4",Varel, VTD616PG, Mudmotor in at 5319 Bit # 2 cut 2264 ft in 43 hrs**

**Mud Ck 5286 Wt 9.75 Vis 40 PV 6 YP 11 PH 8.3 F 8.0 Chl 44000**

**Survey at 5339 3.4 deg 210.1 azm**

**Formation:Green River    Tops: GR1 @ 4048**

**24 Hr. Lithology: SH,LS**

Sample Quality: Good

Smpl @ 5180 100% SH -100% m-dk brn(90%) dk gy(10%), rthy, sbblky-plty, lmy, carb, calc fil frags, no flow, sl strmg yel cut

**Mud Gas    Trip Gas    549      Mud Wt in 9.8    Mud Wt out 9.8    Flare**  
**Conn Gas    337/368      Mud Wt in 9.8    Mud Wt out 9.8    Flare**  
**BG            51/128      Mud Wt in 9.8    Mud Wt out 9.8...Flare**  
**FG            NA**

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

Note: 33 feet Depth Correction Down Hole at TRIP

**CONFIDENTIAL**

**GEOLOGIC REPORT**

Provided by  
**Decollement Consulting Inc.**

For  
**Harvest (US) Holdings, Inc.**  
**1177 Enclave Pkwy**  
**Houston, TX 77077**

**Harvest (US) Holdings Inc.**  
DART #1-12-3-2  
SW/NE Sec.27.T3S, R2 W.  
Duchesne County, UT

**November, 2010**

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**RECEIVED**  
**MAR 14 2011**  
**DIV. OF OIL, GAS & MINING**

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Oct 28, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 5777 Progress: 366      Operation: Drilling**

**NB# 3 8 3/4",Varel, VTD616PG, Mudmotor in at 5319 Bit # 2 cut 2264 ft in 43 hrs**

**Mud Ck 5411 Wt 9.65+ Vis 37 PV 4 YP 11 PH 8.3 F 10.0 Chl 48000**

**Survey at 5746 2.0 deg 200.9 azm**

**Formation:Green River    Tops: GR1 @ 4048**

**24 Hr. Lithology: SH,LS, DOLO**

Sample Quality: Good

Smpl @ 5720 SH -60% m-dk brn(90%) dk gy(10%), rthy, sbblky-plty, lmy, carb, calc  
 fil frags, no flow, sl strmg yel cut Dolo-30% dk gybrn blk, crpxln, arg, dns, hd, lmy  
 LS-10% m brn, chlky, arg, mudstn, sft

**Mud Gas    Trip Gas    365      Mud Wt in 9.7    Mud Wt out 9.7    Flare**  
**Conn Gas    538/607      Mud Wt in 9.7    Mud Wt out 9.7    Flare**  
**BG            300/344      Mud Wt in 9.7    Mud Wt out 9.7...Flare**  
**FG            NA**

**SHOWS**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc                      **Date:** Oct 29, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 6627 Progress: 850                      Operation: Drilling**

**NB# 3 8 3/4",Varel, VTD616PG, Mudmotor in at 5319 Bit # 2 cut 2264 ft in 43 hrs**

**Mud Ck 6126 Wt 9.75+ Vis 38 PV 5 YP 10 PH 8.8 F 8.0 Chl 48000**

**Survey at 6450 2.0 deg 195.3 azm**

**Formation:**Green River    **Tops:** GR1 @ 4048,GR2 @ 5536, Smith @ 5664,Mahogany Bench 5764, DJ @ 6220, DJ 1 @ 6469

**24 Hr. Lithology:** SH ,LS, DOLO

Sample Quality: Good

Smpl @ 6590 SH -100% dk brn blk(70%) dk gy(30%), rthy, sbblky-plty, lmy, carb, no flor, immd strmg yel cut

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>	438/1318	Mud Wt in 9.8	Mud Wt out 9.8	Flare
	<b>BG</b>	398/421	Mud Wt in 9.8	Mud Wt out 9.8...	Flare
	<b>FG</b>	NA			

**SHOWS 2 &3**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
5874-5898	24	.82-.63-.9	1605	no	9.8/9.8		no	no	SH-dk brn, strmg yrl cut
6072-6082	10	.92-.73-1	995	no	9.8/9.8		no	no	SH-dk brn, strmg yel cut

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Oct 30, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 6940 Progress: 313                      Operation: Trip for Bit**

**NB# 4 8 3/4",Ulterra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 6792 Wt 10.0 Vis 38 PV 9 YP 10 PH 8.8 F 7.0 Chl 49000**

**Survey at 6877 2.1 deg 187.3 azm**

**Formation:Green River    Tops: GR1 @ 4048,GR2 @ 5536, Smith @ 5664,Mahogany Bench 5764, DJ @ 6220, DJ 1 @ 6469**

**24 Hr. Lithology: SH ,LS, SS**

Sample Quality: Good

**Smpl @ 6930 SH -100% m gy(80%) dk-m brn, rthy, sbblky-plty, calc, no flor, slow strmg yel cut**

<b>Mud Gas</b>	<b>Trip Gas</b>	<b>NA</b>	<b>Mud Wt in</b>	<b>Mud Wt out</b>	<b>Flare</b>
	<b>Conn Gas</b>	<b>203/247</b>	<b>Mud Wt in 10.0</b>	<b>Mud Wt out 10.0</b>	<b>Flare</b>
	<b>BG</b>	<b>87/195</b>	<b>Mud Wt in 10.0</b>	<b>Mud Wt out 10.0</b>	<b>...Flare</b>
	<b>FG</b>	<b>NA</b>			

**SHOWS 4**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
6494-6520	26	.82-.62-.73	1378	no	9.7/9.7		no	no	SH-dk brn, immd strmy yel cut



## MORNING GEOLOGIC REPORT

<b>Company:</b> Harvest (US) Holdings, Inc	<b>Date:</b> Nov 1, 2010
<b>Lease:</b> Dart #1-12-3-2	<b>G.L.:</b> 5308'
<b>Location:</b> SE/NW Sec.12,T3S,R2W	<b>K.B.:</b> 5330'
<b>County/State:</b> Duchesne Co., Utah	<b>Geologist:</b> Dennis Springer

**6:00a.m. Depth 8339 Progress: 769      Operation: Drilling**

**NB# 4 8 3/4", Ultrerra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 7858 Wt 9.95 Vis 40 PV 12 YP 10 PH 8.9 F 5.0 Chl 45000**

**Survey at 8250 3.5 deg NA azm**

**Formation: Green River Tops: GR1 @ 4048, GR2 @ 5536, Smith @ 5664, Mahogany Bench 5764, DJ @ 6220, DJ 1 @ 6469, J @ 6740, H @ 7036, HI @ 7194, I @ 7524, K @ 7908**

**24 Hr. Lithology: SH, LS, SS**

Sample Quality: Good

Smpl @ 8270-8300 SH -100% lt-m gy (80%), dk brn blk(20%), rthy-sbwxy, sbblky-plty, lmy, no show

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>	286/448	Mud Wt in 10.0	Mud Wt out 10.0	Flare
	<b>BG</b>	118/160	Mud Wt in 10.0	Mud Wt out 10.0	...Flare
	<b>FG</b>	NA			

**SHOW 6, 7, 8**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
7674-7726	52	.85-.77-.92	1055	no	10.0/ 10.0		no	no	SH-dkbrn blk, carb, sl wk strmg yel cut
7868-7879	11	.53-.42-.68	2406	no	10.0/ 10.0		no	no	SH-dkbrn blk, carb, sl wk strmg yel cut
7969-7990	21	1.1-.77-.85	4406	no	10.0/ 10.0		no	no	SH-dkbrn blk, carb, sl wk strmg yel cut

## MORNING GEOLOGIC REPORT

<b>Company:</b> Harvest (US) Holdings, Inc	<b>Date:</b> Nov 2, 2010
<b>Lease:</b> Dart #1-12-3-2	<b>G.L.:</b> 5308'
<b>Location:</b> SE/NW Sec.12,T3S,R2W	<b>K.B.:</b> 5330'
<b>County/State:</b> Duchesne Co., Utah	<b>Geologist:</b> Dennis Springer

**6:00a.m. Depth 9110 Progress: 771      Operation: Drilling**

**NB# 4 8 3/4", Ulterra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 8661 Wt 10.0 Vis 40 PV 12 YP 13 PH 8.8 F 4.6 Chl 45000**

**Survey at 8997 2.5 deg 171.7 azm**

**Formation: Green River Tops: DJ 1 @ 6469, J @ 6740, H @ 7036, HI @ 7194, I @ 7524, K @ 7908, CP 70 @ 8528, CP 80 @ 8606, Bar F @ 8650, UB 1 @ 8756**

**24 Hr. Lithology: SH, LS, SS**

Sample Quality: Good

Smpl @ 8990-9020 SH -30% dk gybrn blk, blkly-sbplty, rthy, carb, sft, lmy

LS- 70% dk gybrn blk, crpxln, marlstn, arg, no show

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>	1125/3135	Mud Wt in 10.0	Mud Wt out 10.0	Flare
	<b>BG</b>	410/480	Mud Wt in 10.0	Mud Wt out 10.0...	Flare
	<b>FG</b>	<b>2806</b>			

**SHOW 9**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
8639-8652	13	.4--.43-.28	2806	no	10.0/ 10.0	Prob fractures	no	no	LS-dk grbrn blk, tr calc filled fracs, no cut

## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 3, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 9623 Progress: 513                      Operation: Drilling**

**NB# 4 8 3/4",Ulterra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 9340 Wt 14.5 Vis 40 PV 13 YP 13 PH 8.8 F 5.2 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:Green River Tops: DJ 1 @ 6469, J @ 6740, H @ 7036, HI @7194, I @ 7524, K @ 7908, CP 70 @ 8528, CP 80 @ 8606, Bar F @ 8650, UB 1 @ 8764,Uteland Butte CP 90 @ 8940, Wasatch @ 9168**

**24 Hr. Lithology: SH ,LS, SS**

Sample Quality: Good

Smpl @ 9530 SH -10% lt- m gy dk gybrn blk, blkly-sbplty, rthy, carb ip, sft,lmy

SS-20% wh lt gy s&p, vf(l)-f(l) gr, sbrnd, w srt, tt, no cut

LS- 70% dk gybrn blk, crpxln, marlstn, arg, no show

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>	3835/4306	Mud Wt in 11.3	Mud Wt out 11.2	Flare 10'
	<b>BG</b>	3007/3378	MudWt in.11.4	Mud Wt out 11.4..	Flare 8
	<b>FG</b>	<b>5122</b>			

**SHOW 10**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
9251-9283	32	2.78-.98-1.35	5122	NO	10.2+/-10.2	8-10% VIS	NO	NO	SS-wh lt gy, vf(l)-f(u)gr, cly mtx, no cut

## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 4, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 9718 Progress: 95 Operation: Cond hole for logs**

**NB# 4 8 3/4",Ulterra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 9718 Wt 12.2 Vis 40 PV 17 YP 15 PH 8.6 F 6.0 Chl 38000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:Green River Tops: DJ 1 @ 6469, J @ 6740, H @ 7036, HI @7194, I @ 7524, K @ 7908, CP 70 @ 8528, CP 80 @ 8606, Bar F @ 8650, UB 1 @ 8764,Uteland Butte CP 90 @ 8940, Wasatch @ 9168**

**24 Hr. Lithology: SH,LS,SS**

Sample Quality: Good

Smpl @ 9718 SH -50% lt- m gy gygrn, blk- sbplty, rthy-wxy, sft, calc

SS-30% wh lt gy s&p, vf(1)-f(1) gr, sbrnd, w srt, tt, no vis cut

SLTST-lt gy, aren, arg, sft, calc, no cut

**Mud Gas Trip Gas NA Mud Wt in Mud Wt out Flare**  
**Conn Gas 3351/5299 Mud Wt in 11.7 Mud Wt out 11.5 Flare 10'**  
**BG 420/2794. MudWt in.12.7 Mud Wt out 12.5 ..Flare 8**  
**FG 8637 saturated**

**SHOW 11, 12**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
9594-9622	28	1.77-1.0-1.2	6555	8 ft	11.5 /11.2	8-12 %	no	no	SS-vf-fgr ,cly fil mtx, no cut
9626-9644	18	.9-.55-.9	8637 saturated	Not on buster	11.6/ 11.4	6-10%	no	no	SS-vfgr,cly fil mtx, no cut

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 5, 2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 1 Operation: Cond hole for logs**

**NB# 4 8 3/4",Ulterra, MS1666DU, Mudmotor in at 6940 Bit # 3 cut 1621 ft in 57 hrs**

**Mud Ck 9718 Wt 12.75 Vis 43 PV 15 YP 14 PH 8.5 F 6.2 Chl 43000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:Green River Tops: DJ 1 @ 6469, J @ 6740, H @ 7036, HI @7194, I @ 7524, K @ 7908, CP 70 @ 8528, CP 80 @ 8606, Bar F @ 8650, UB 1 @ 8764,Uteland Butte CP 90 @ 8940, Wasatch @ 9168**

**24 Hr. Lithology: SH ,LS, SS**

Sample Quality: Good

Smpl @ 9718 SH -50% lt- m gy gygrn, blk- sbply, rthy-wxy, sft, calc

SS-30% wh lt gy s&p, vf(l)-f(l) gr, sbrnd, w srt, tt, no vis cut

SLTST-lt gy, aren, arg, sft, calc, no cut

**Mud Gas Trip Gas NA Mud Wt in Mud Wt out Flare**  
**Conn Gas NA Mud Wt in 11.7 Mud Wt out 11.5 Flare**  
**BG 5200 MudWt in.12.9 Mud Wt out 12.6 ..Flare NA**  
**FG**

**SHOW 11, 12**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith





**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 8, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: Run 7" csg**

**NB# 5 8 3/4",FDS, ROCK, in at 9719 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 41 PV 15 YP 12 PH 8.6 F 6.0 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:** Wasatch E Log Tops: GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny  
 Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @ 7212, I @  
 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771, Uteland  
 Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 5702 Mud Wt in 12.7 Mud Wt out 12.6 Flare**  
**Conn Gas NA Mud Wt in 12.7 Mud Wt out 12.5 Flare**  
**BG 700 MudWt in.12.8 Mud Wt out 12.8 ..Flare NA**  
**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

## MORNING GEOLOGIC REPORT

<b>Company:</b> Harvest (US) Holdings, Inc	<b>Date:</b> Nov 9,2010
<b>Lease:</b> Dart #1-12-3-2	<b>G.L.:</b> 5308'
<b>Location:</b> SE/NW Sec.12,T3S,R2W	<b>K.B.:</b> 5330'
<b>County/State:</b> Duchesne Co., Utah	<b>Geologist:</b> Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: Run 7" csg**

**NB# 5 8 3/4",FDS, ROCK, in at 9719 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 41 PV 16 YP 12 PH 8.4 F 5.5 Chl 37000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:** Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

<b>Mud Gas</b>	<b>Trip Gas</b>	<b>5263</b>	<b>Mud Wt in 12.8</b>	<b>Mud Wt out 12.6</b>	<b>Flare</b>
	<b>Conn Gas</b>	<b>NA</b>	<b>Mud Wt in 12.7</b>	<b>Mud Wt out 12.5</b>	<b>Flare</b>
	<b>BG</b>	<b>5100</b>	<b>MudWt in.12.8</b>	<b>Mud Wt out 12.6</b>	<b>..Flare NA</b>
	<b>FG</b>				

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 10,2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: Finish Cementing**

**NB# 5 8 3/4",FDS, ROCK, in at 9719 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 38 PV 15 YP 11 PH 8.8 F 5.2 Chl 32000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 8785 Mud Wt in 12.8 Mud Wt out 12.6 Flare**  
**Conn Gas NA Mud Wt in 12.7 Mud Wt out 12.5 Flare**  
**BG 2750 MudWt in.12.8 Mud Wt out 12.8 ..Flare NA**  
**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 11, 2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: Chng BOPs**

**NB# 5 8 3/4",FDS, ROCK, in at 9719 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 38 PV 15 YP 11 PH 8.8 F 5.2 Chl 32000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 8785 Mud Wt in 12.8 Mud Wt out 12.6 Flare**  
**Conn Gas NA Mud Wt in 12.7 Mud Wt out 12.5 Flare**  
**BG 2750 MudWt in.12.8 Mud Wt out 12.8 ..Flare NA**  
**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 12,2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: PU 3 ½ DP**

**NB# 5 8 3/4",FDS, ROCK, in at 9719 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 38 PV 15 YP 11 PH 8.8 F 5.2 Chl 32000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 8785 Mud Wt in 12.8 Mud Wt out 12.6 Flare**  
**Conn Gas NA Mud Wt in 12.7 Mud Wt out 12.5 Flare**  
**BG 2750 MudWt in.12.8 Mud Wt out 12.8 ..Flare NA**  
**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 13,2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 9719 Progress: 0 Operation: Wash & Ream to Bottom**

**NB# 6 6" Ulterra, DSX513M-A1, PDC,No Motor in at 9720 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9719 Wt 12.8 Vis 40 PV 14 YP 12 PH 9.0 F 5.6 Chl 39000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190

**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 12086 Mud Wt in 13.1 Mud Wt out 12.8+ Flare NA**  
 not on gas buster

**Conn Gas NA Mud Wt in 12.7 Mud Wt out 12.5 Flare**

**BG 3500 MudWt in.13.1 Mud Wt out 12.8+ ..Flare NA not on gas buster**

**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 14,2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 10251 Progress: 533      Operation: Drilling**

**NB# 6 6" Reed, DSX513M-A1, PDC,No Motor in at 9720 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 9862 Wt 13.1 Vis 39 PV 16 YP 12 PH 10.2 F 6.2 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:** Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology: NA**

Sample Quality: Good

Smpl @ 10220 SH-70% rdbrn variegated lt gy orng,blky, rthy, sft, limy

SS- 20% wh s&p vfgr, sbang, w srt, tt, no show

LS-10% gybrn brn, crpxln, arg, mrlstn, sft, no show

**Mud Gas Trip Gas NA Mud Wt in Mud Wt out Flare**  
**Conn Gas 6000/7000 Mud Wt in 13.1 Mud Wt out 13.0 Flare no**  
**BG 200 MudWt in.13.1 Mud Wt out 13.0 ..Flare NA**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 15,2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 10775 Progress: 524      Operation: TOH for Bit**

**NB# 6 6" Reed, DSX513M-A1, PDC,No Motor in at 9720 Bit # 5 cut 0 ft in 5 hrs out at 9719**

**Mud Ck 10486 Wt 13.1   Vis 40   PV 16   YP 11   PH 9.5   F 6.2   Chl 42000**

**Survey at 9468 3.4 deg   173.5 azm**

**Formation:** Wasatch E Log Tops: GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771, Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @ 10760 SH-80% variegated lt gy rd brn orng,blky, rthy, sft, limy

SS- 10% wh s&p vfgr, sbang, w srt, tt, no show

LS-10% gybrn brn, crpxln-micxln, arg, sft-frm, no show

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in	Mud Wt out	Flare
	<b>Conn Gas</b>	2000/4000	Mud Wt in 13.1	Mud Wt out 13.0	Flare no
	<b>BG</b>	170	MudWt in.13.1	Mud Wt out 13.0	..Flare NA

**FG  
SHOW 13**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
10582-10589	7	1.43-.73-1.85	3699	no	13.1/13.0		no	yes	SH-dk brn carb,immd mlky bl cut

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc      **Date:** Nov 16,2010  
**Lease:** Dart #1-12-3-2      **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W      **K.B.** 5330'  
**County/State:** Duchesne Co., Utah      **Geologist:** Dennis Springer

**6:00a.m. Depth 10795 Progress: 20      Operation: Stuck @10795 TOH after free point at 10739**

**NB# 7 6" Ulterra, MS1655CD, PDC,No Motor in at 10775 Bit # 6 cut 1056 ft in 43 3/4 hrs out at 10775**

**Mud Ck 10775 Wt 13.1 Vis 39 PV 15 YP 12 PH 9.3 F 5.4 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @ 10790 SH-90% m-dk gy (60%) variegated lt gy rd brn orng(40%),blky, rthy, sft, calc

SS- 10% wh s&p vfgr, sbang, w srt, tt, no show

**Mud Gas Trip Gas 7875      Mud Wt in 13.1      Mud Wt out 13.0      Flare**

**Down Time @10797 Gas 5450      Mud Wt in 13.1      Mud Wt out 13.0      Flare no**

**BG 150      MudWt in.13.1      Mud Wt out 13.0      ..Flare NA**

**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

**MORNING GEOLOGIC REPORT**

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 17,2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 10795 Progress: 0 Operation: TOH for E Logs @ 2480**

**NB# 7 6" Ulterra, MS1655CD, PDC,No Motor in at 10775 Bit # 7cut 20 ft in 3 hrs stuck at 10795**

**Mud Ck 10795 Wt 13.1 Vis 40 PV 15 YP 12 PH 9.3 F 5.8 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:**Wasatch E Log Tops:GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771,Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

**Mud Gas Trip Gas 900 thru gas buster Mud Wt in 13.1 Mud Wt out**

13.1 Flare no

**Down Time Gas Mud Wt in 13.1 Mud Wt out 13.0 Flare no**

**BG 250 MudWt in.13.1 Mud Wt out 13.1 ..Flare NA**

**FG**

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith



## MORNING GEOLOGIC REPORT

**Company:** Harvest (US) Holdings, Inc                      **Date:** Nov 19,2010  
**Lease:** Dart #1-12-3-2    **G.L.** 5308'  
**Location:** SE/NW Sec.12,T3S,R2W                              **K.B.** 5330'  
**County/State:** Duchesne Co., Utah                              **Geologist:** Dennis Springer

**6:00a.m. Depth 10795 Progress: 0 Operation: TOH for Liner**

**NB# 7 6" Ulterra, MS1655CD, PDC,No Motor in at 10775 Bit # 7cut 20 ft in 3 hrs stuck at 10795**

**Mud Ck 10795 Wt 13.1 Vis 40 PV 16 YP 11 PH 9.3 F 5.8 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:** Wasatch E Log Tops: GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @ 7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771, Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

<b>Mud Gas</b>	<b>Trip Gas</b>	<b>7409</b>	Mud Wt in 13.1	Mud Wt out 12.8	Flare no
	<b>Conn Gas</b>	<b>6400</b>	Mud Wt in 13.1	Mud Wt out 12.8	Flare no
	<b>BG</b>	<b>250/700</b>	MudWt in.13.1	Mud Wt out 13.1	..Flare NA

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith

## MORNING GEOLOGIC REPORT

<b>Company:</b> Harvest (US) Holdings, Inc	<b>Date:</b> Nov 20,2010
<b>Lease:</b> Dart #1-12-3-2	<b>G.L.:</b> 5308'
<b>Location:</b> SE/NW Sec.12,T3S,R2W	<b>K.B.:</b> 5330'
<b>County/State:</b> Duchesne Co., Utah	<b>Geologist:</b> Dennis Springer

**6:00a.m. Depth 10795 Progress: 0 Operation: Run 4 1/2" Liner**

**NB# 7 6" Ulterra, MS1655CD, PDC,No Motor in at 10775 Bit # 7cut 20 ft in 3 hrs stuck at 10795**

**Mud Ck 10795 Wt 13.1 Vis 40 PV 16 YP 9 PH 9.0 F 5.8 Chl 42000**

**Survey at 9468 3.4 deg 173.5 azm**

**Formation:** Wasatch E Log Tops: GR1 @ 4084, GR2 @ 5534 Smith @ 5720 Mohogeny Bench @ 5824, DJ Marker 6148 DJ 1 @ 6402, J @ 6722, H @ 7040, HI @ 7212, I @ 7610, K @ 7940, CP 70 @ 8546, CP 80 @ 8656, Bar F @ 8682, UB 1 @ 8771, Uteland Butte CP 90 @ 8946, Wasatch @ 9190 Red Beds @ 10158

**24 Hr. Lithology:** NA

Sample Quality: Good

Smpl @

<b>Mud Gas</b>	<b>Trip Gas</b>	NA	Mud Wt in 13.1	Mud Wt out 12.8	Flare no
	<b>Conn Gas</b>		Mud Wt in 13.1	Mud Wt out 12.8	Flare no
	<b>BG</b>	100	MudWt in.13.1	Mud Wt out 13.1	..Flare NA

**SHOW**

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith



2580 Creekview Road  
Moab, Utah 84532  
435/719-2018

RECEIVED  
MAY 12 2011  
DIV. OF OIL, GAS & MINING  
43 013 50418  
3S 2W 12

May 12, 2011

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

RE: Exception to Spacing Request – Harvest (US) Holdings, Inc. – **Dart #1-12-3-2**  
*As-Drilled Surface:* 1510' FNL & 1342' FWL, SE/4 NW/4,  
*As-Drilled Bottom Hole:* 1784' FNL & 1305' FWL, SE/4 NW/4,  
Section 12, T3S, R2W, USB&M, Duchesne County, Utah

Dear Helen:

Harvest (US) Holdings, Inc. respectfully submits this request for exception to spacing. The referenced well is located with the as-drilled surface and bottom hole locations within Cause No. 131-51 as described above. Drilling of the well resulted in the unintended deviation of 276 feet into the SW/4 NW/4 and is within 1,320 feet of the boundary of a governmental section. Harvest (US) Holdings, Inc. remains the only owner and operator within 1,320' of the surface and bottom-hole location as well as all points along the intended well bore path and is not within 1,320 feet of any uncommitted tracts or the 640 acre voluntary pooled unit boundary. Furthermore mineral ownership did not change as a result of the deviation and we feel that correlative rights have been protected, as originally planned.

Thank you very much for your timely consideration of this request. Please feel free to contact me at 435-719-2018 if you have any questions or need additional information.

Sincerely,

Don Hamilton  
Agent for Harvest (US) Holdings, Inc.

cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

I. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective

**5/17/2011**

<b>FROM: (Old Operator):</b> N3520-Harvest (US) Holdings, Inc 1177 Enclave Parkway, Suite 300 Houston, TX 77077 Phone: 1 (281) 899-5700	<b>TO: (New Operator):</b> N2695-Newfield Production Company 1001 17th St, Suite 2000 Denver, CO 80202 Phone: 1 (303) 893-0102
---	--

**CA No.**

**Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE 10 ATTACHED SUNDRIES								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on 6/22/2011
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/22/2011
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/22/2011
- Is the new operator registered in the State of Utah: yes Business Number: 755627-0143
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete or n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA n/a
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2011
- Bond information entered in RBDMS on: 6/30/2011
- Fee/State wells attached to bond in RBDMS on: 6/30/2011
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: WY000483
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001834
- The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/12/2011

**COMMENTS:**

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

FORM 9

**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.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY <i>N2695</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 1001 17TH ST, SUITE 2000 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1510 FNL & 1342 FWL QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 12 3S 2W		8. WELL NAME and NUMBER: DART #1-12-3-2
		9. API NUMBER: 4301350418
		10. FIELD AND POOL, OR WILDCAT: WILDCAT
		COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>5/17/2011</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Effective 05/17/2011, Newfield Production Company will take over operations of the referenced well.

The previous owner/operator was:

Harvest (US) Holdings, Inc.  
1177 Enclave Parkway  
Houston, TX 77077

Effective 05/17/2011, Newfield Production Company is responsible under the terms and conditions of the leases for operations conducted on the leases lands or a portion thereof under BLM Bond No. RLB0010466 B001834

Harvest (US) Holdings, Inc.  
Print Name: Patrick R. Oenbring *N3520* Title: President and CEO

Seller Signature: *Patrick R. Oenbring* Date: 05/17/2011

NAME (PLEASE PRINT) KELLY DONOHOU TITLE RM LAND MANAGER  
SIGNATURE *Kelly Donohou* DATE 5/17/2011

(This space for State use only)

APPROVED 6/30/2011  
(5/2000) Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED  
JUN 22 2011  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> DART #1-12-3-2
<b>3. ADDRESS OF OPERATOR:</b> 1001 17th Street, Suite 2000 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013504180000
<b>PHONE NUMBER:</b> 303 382-4443 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NORTH MYTON BENCH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1510 FNL 1342 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 12 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/7/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Site Facility/Site Security"/>

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

SEE ATTACHED REVISED SITE FACILITY DIAGRAM

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
February 14, 2013**

<b>NAME (PLEASE PRINT)</b> Jill L Loyle	<b>PHONE NUMBER</b> 303 383-4135	<b>TITLE</b> Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/25/2013	

NEWFIELD PRODUCTION COMPANY

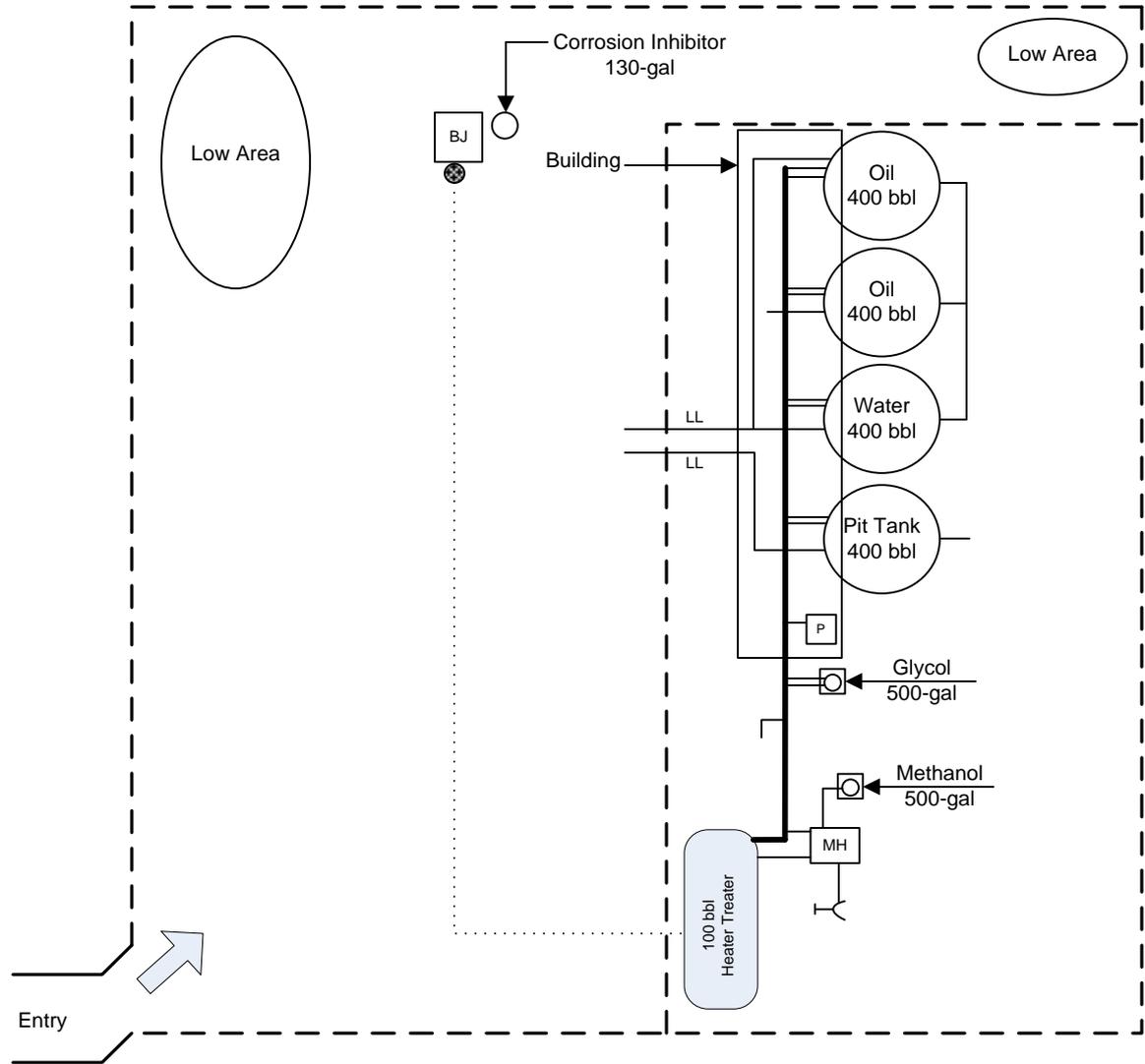
DART 1-12-3-2  
SEC. 12 T3S R2W  
DUCHESNE COUNTY, UTAH



### LEGEND

- - - - - FENCE
- - - - - BERM
- ABOVEGROUND PIPING
- ..... UNDERGROUND PIPING (LOCATION APPROXIMATE)
- [ MH ] METER HOUSE
- [ ← ] DIRECTION OF FLOW
- bbbl BARREL(S)
- LL LOAD LINE
- ⊗ WELL HEAD
- [ BJ ] BELT JACK
- [ P ] PUMP
- PIPING CONDUIT

↑  
Unnamed Irrigation Ditch  
500 ft



ALL UNDERGROUND PIPING IS FOR  
PROCESS FLOW DEMONSTRATION ONLY



**Carol Daniels - Cement 4 1/2" liner**

*T039 Row S-12 43-013-50418*

**From:** "Field Supervisor"  
**To:** "Dennis Ingram" , "Carol Daniels" , "Chrissy Vance" , "Dan Jarvis" , "Don Hamilton" ,  
"Dustin Doucet" , "Jeff Schrutka" , "Victor King"  
**Date:** 11/19/2010 12:04 PM  
**Subject:** Cement 4 1/2" liner

We are tentatively planning to begin cement operations @ 20:00 today 11/19/10 on the Dart # 1-12-3-2. Running depth of liner is f/ 10,739' to 9500' which is inside our 7" intermediate casing. I will make contact with Dennis via cell. Thank you

Bill Calobreves  
Drilling Supervisor  
Harvest Natural Resources  
435-790-2060

This E-mail has been scanned by HNR Content Security and is believed to be clean.

RECEIVED

NOV 22 2010

DIV. OF OIL, GAS & MINING