

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Giles #1-19-3-2			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT WILDCAT			
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME			
6. NAME OF OPERATOR HARVEST (US) HOLDINGS, INC				7. OPERATOR PHONE 281 899-5722			
8. ADDRESS OF OPERATOR 1177 Enclave Parkway, Houston, TX, 77077				9. OPERATOR E-MAIL jmckee@harvestnr.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Lavon R. Giles				14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-823-4161			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 65 Box 50, Altamont, UT 84001				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	701 FNL 1203 FEL	NENE	19	3.0 S	2.0 W	U	
Top of Uppermost Producing Zone	701 FNL 1203 FEL	NENE	19	3.0 S	2.0 W	U	
At Total Depth	701 FNL 1203 FEL	NENE	19	3.0 S	2.0 W	U	
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 701		23. NUMBER OF ACRES IN DRILLING UNIT 160			
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0		26. PROPOSED DEPTH MD: 10500 TVD: 10500			
27. ELEVATION - GROUND LEVEL 5155		28. BOND NUMBER B004657		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 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

NAME Don Hamilton	TITLE Permitting Agent (Buys & Associates, Inc)	PHONE 435 719-2018
SIGNATURE	DATE 08/26/2010	EMAIL starpoint@etv.net
API NUMBER ASSIGNED 43013504260000	APPROVAL  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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Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	8.5	5.5	0	10500		
Pipe	Grade	Length	Weight			
	Grade P-110 LT&C	10500	23.0			

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

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HARVEST (US) HOLDINGS, INC.

Giles #1-19-3-2
 Section 19-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 3,626'
 UTELAND BUTTE 8,301'
 WASATCH 8,739'
 TD 10,500'

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

Wasatch (Oil & Gas) 8,301' – 10,500'

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'	10,500'	23	P-110	LTC	13,580 psi 1.26 SF	14,540 psi 2.10 SF	643,000 lbf 2.66 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 ³ /sk)
			ft ³			
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	7800' to surface	Light Premium w/ 2% gel, 6 lbs/sk light weight additive, 0.125 lb/sk lost circulation additive	793	30%*	11.5	2.77
			2197			
Production casing 5 ½" Tail	10500' to 7800'	50/50 Poz Premium w/ 2% expander, 0.3% fluid loss control, 0.3% retarder	630	30%*	14.3	1.29
			914			

*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

CONFIDENTIAL STATUS

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'-10,500'	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.

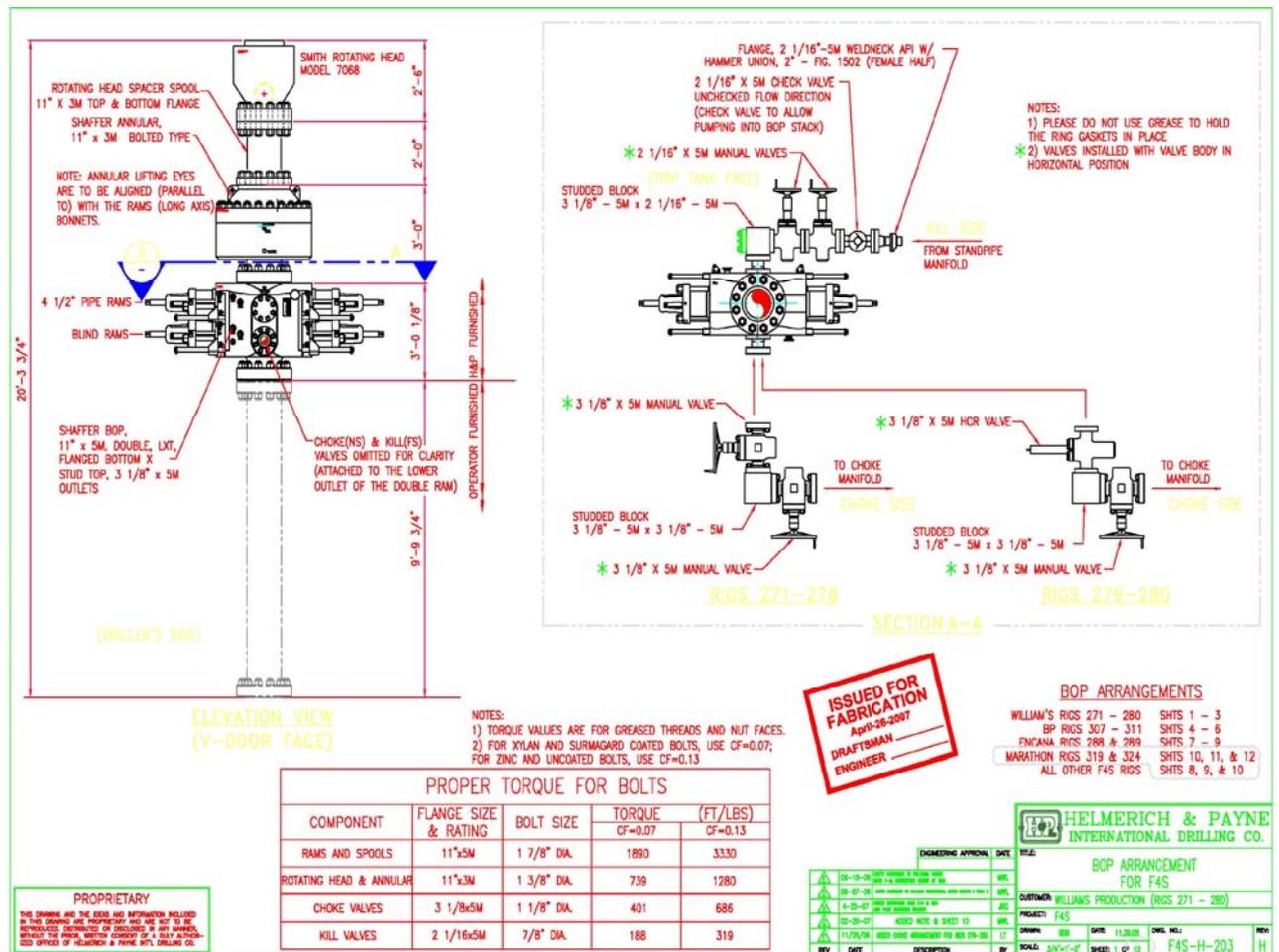
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

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 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
435-650-1886 Cell
starpoint@etv.net

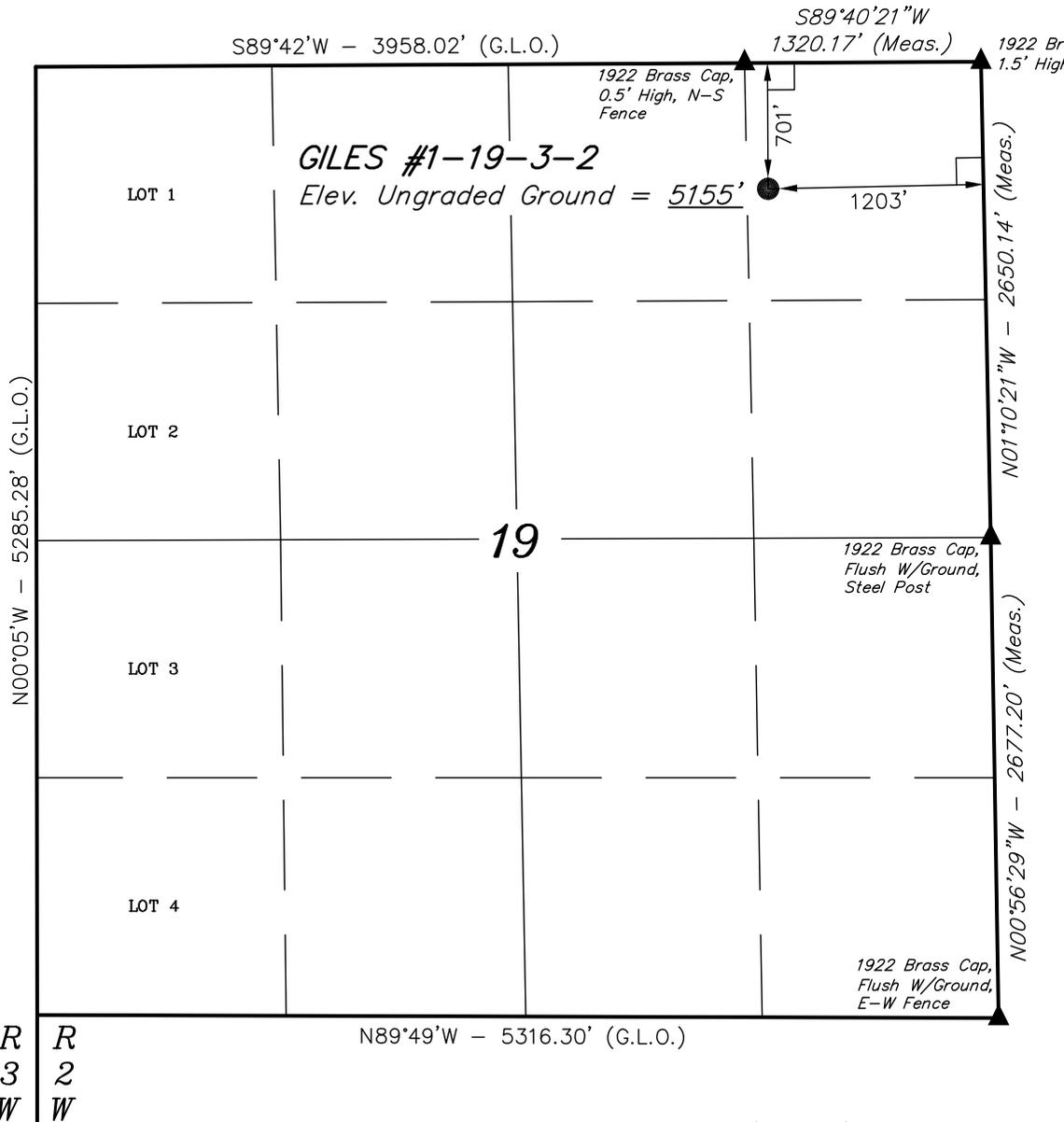
Please use the above mentioned contact for any questions or concerns regarding the Form 3 Application for Permit to Drill, Drilling Plan or scheduling the onsite inspection. If the above mentioned contact is not available you may reach the following person:

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

T3S, R2W, U.S.B.&M.

HARVEST (US) HOLDINGS, INC.

Well location, GILES #1-19-3-2, located as shown in the NE 1/4 NE 1/4 of Section 19, T3S, R2W, U.S.B.&M., Duchesne County, Utah.



BASIS OF ELEVATION

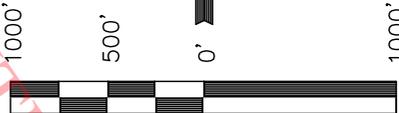
SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

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

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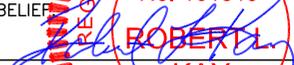




SCALE

CERTIFICATE

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



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

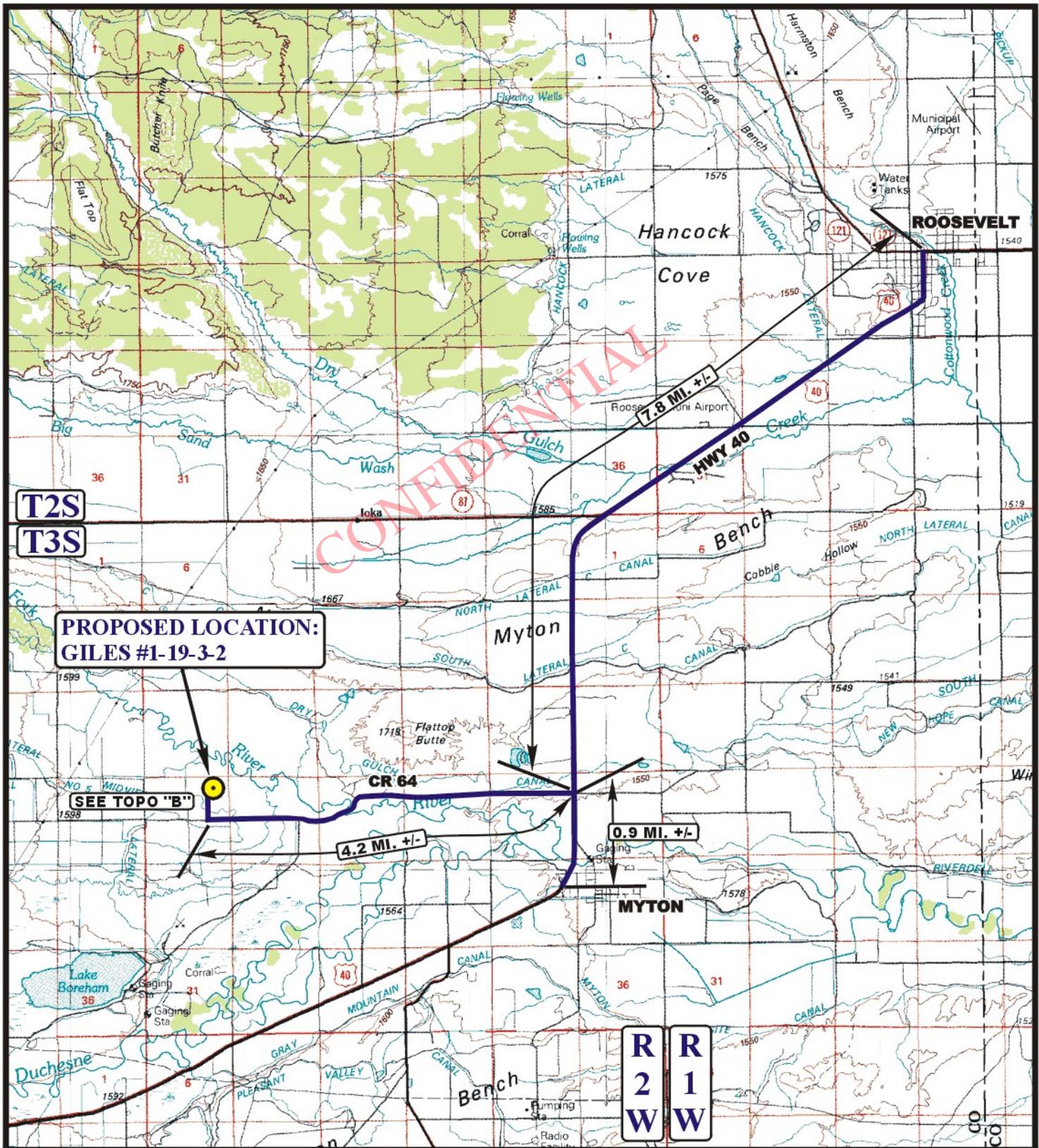
Revised: 08-10-10

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

LEGEND:

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

(NAD 83)
 LATITUDE = 40°12'46.35" (40.212875)
 LONGITUDE = 110°08'49.97" (110.147214)
 (NAD 27)
 LATITUDE = 40°12'46.50" (40.212917)
 LONGITUDE = 110°08'47.72" (110.146589)



**PROPOSED LOCATION:
GILES #1-19-3-2**

SEE TOPO "B"

4.2 MI. +/-

0.9 MI. +/-

7.8 MI. +/-

LEGEND:

PROPOSED LOCATION

HARVEST (US) HOLDINGS, INC.

**GILES #1-19-3-2
SECTION 19, T3S, R2W, U.S.B.&M.
701' FNL 1203' FEL**



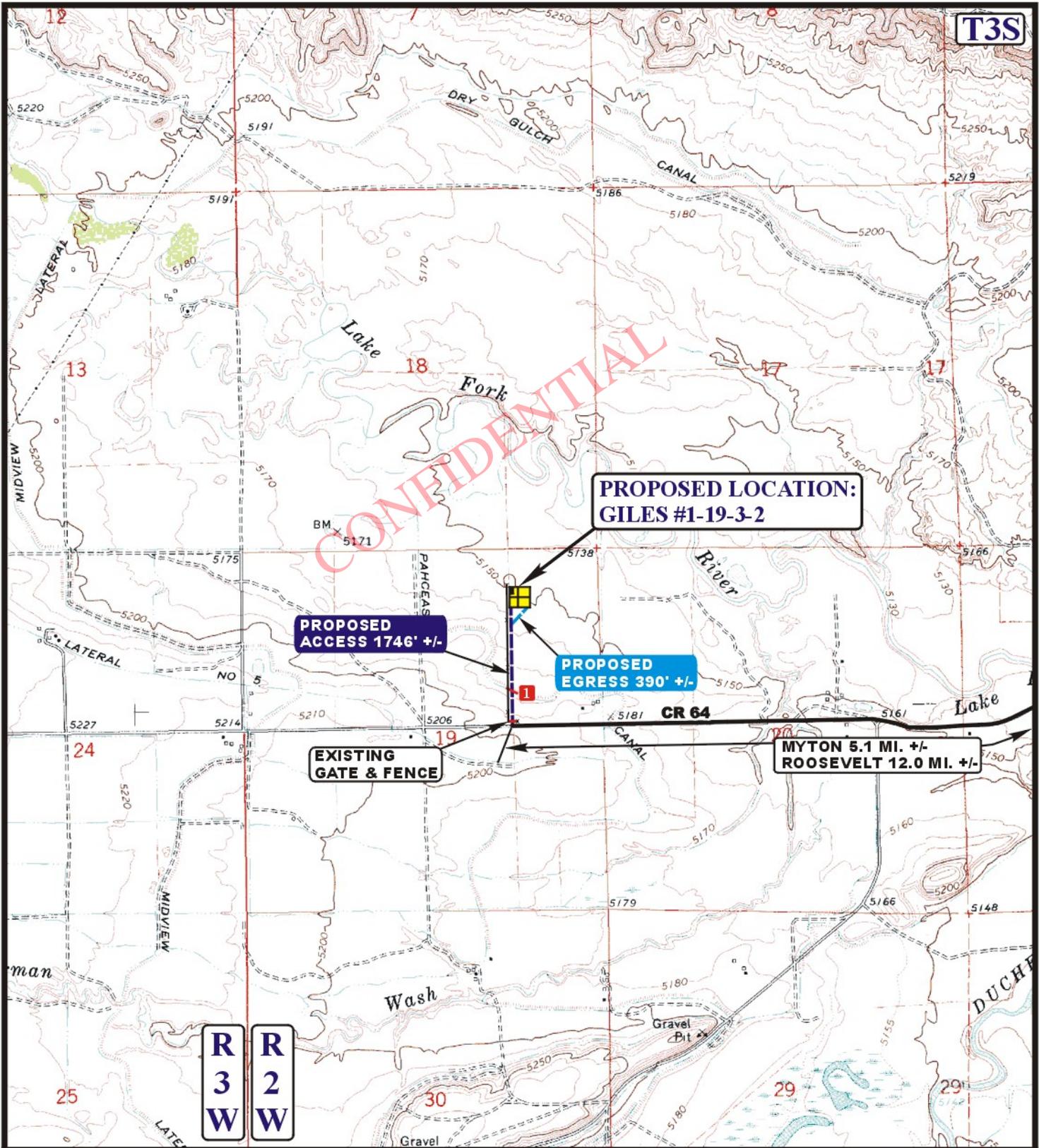
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP 08 09 10
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- PROPOSED EGRESS ROUTE
- EXISTING FENCE
- 18" CMP REQUIRED

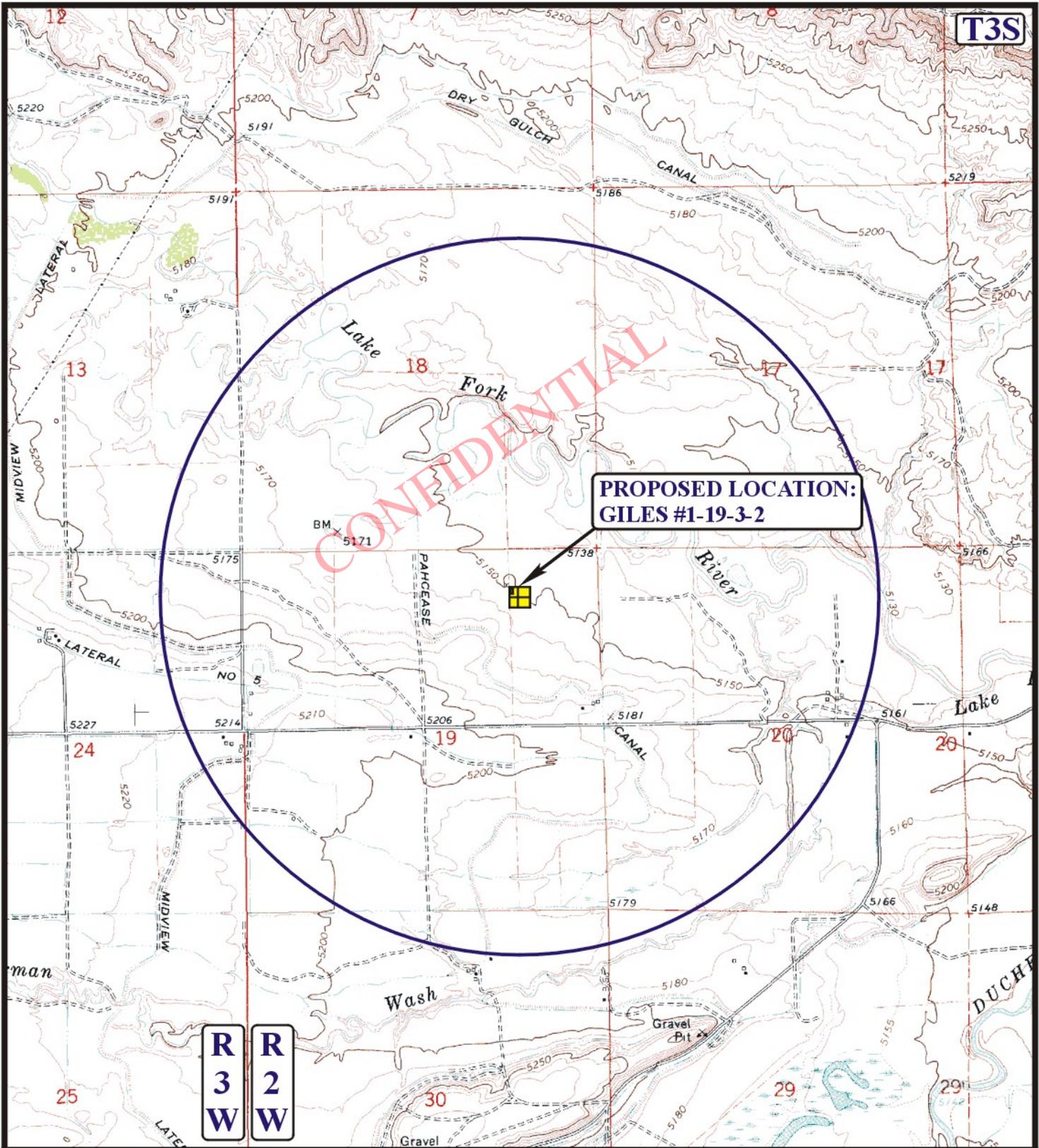
HARVEST (US) HOLDINGS, INC.

GILES #1-19-3-2
SECTION 19, T3S, R2W, U.S.B.&M.
701' FNL 1203' FEL

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



TOPOGRAPHIC MAP **08 09 10**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00 **B TOPO**



**PROPOSED LOCATION:
GILES #1-19-3-2**

R 3 W
R 2 W

LEGEND:

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

HARVEST (US) HOLDINGS, INC.

GILES #1-19-3-2
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701' FNL 1203' FEL

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TOPOGRAPHIC MAP 08 09 10
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

C
TOPO



MEMORANDUM OF SURFACE DAMAGE RELEASE

State of Utah)(
County of Duchesne)(

For Ten Dollars (\$10.00) and other adequate consideration, Lavon R. Giles, Diane M. Giles and Shannon L. Giles of HC 65 Box 50, Altamont, UT 84001, 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 August 9, 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 Oil & Gas Well on the following lands (the "Lands") in Duchesne County Utah: Township 3 South-Range 2 West, USM, Section 19: NE/4NE/4 Duchesne County, see attached Plat for well locations:

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 9 day of August, 2010.

SURFACE OWNER:

Lavon R. Giles (with signature)

Diane M. Giles (with signature)

Shannon L. Giles (with signature)

ACKNOWLEDGEMENT

STATE OF UTAH }
} :SS
COUNTY OF DUCHESNE }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 9 day of August, 2010, personally appeared Lavon R. Giles 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.

J. Cameron Moos
Notary Public

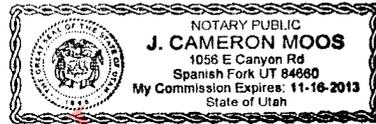


ACKNOWLEDGEMENT

STATE OF UTAH }
 } :SS
COUNTY OF DUCHESNE }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 9 day of August, 2010, personally appeared **Diane M. Giles** 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.

J. Cameron Moos
Notary Public



ACKNOWLEDGEMENT

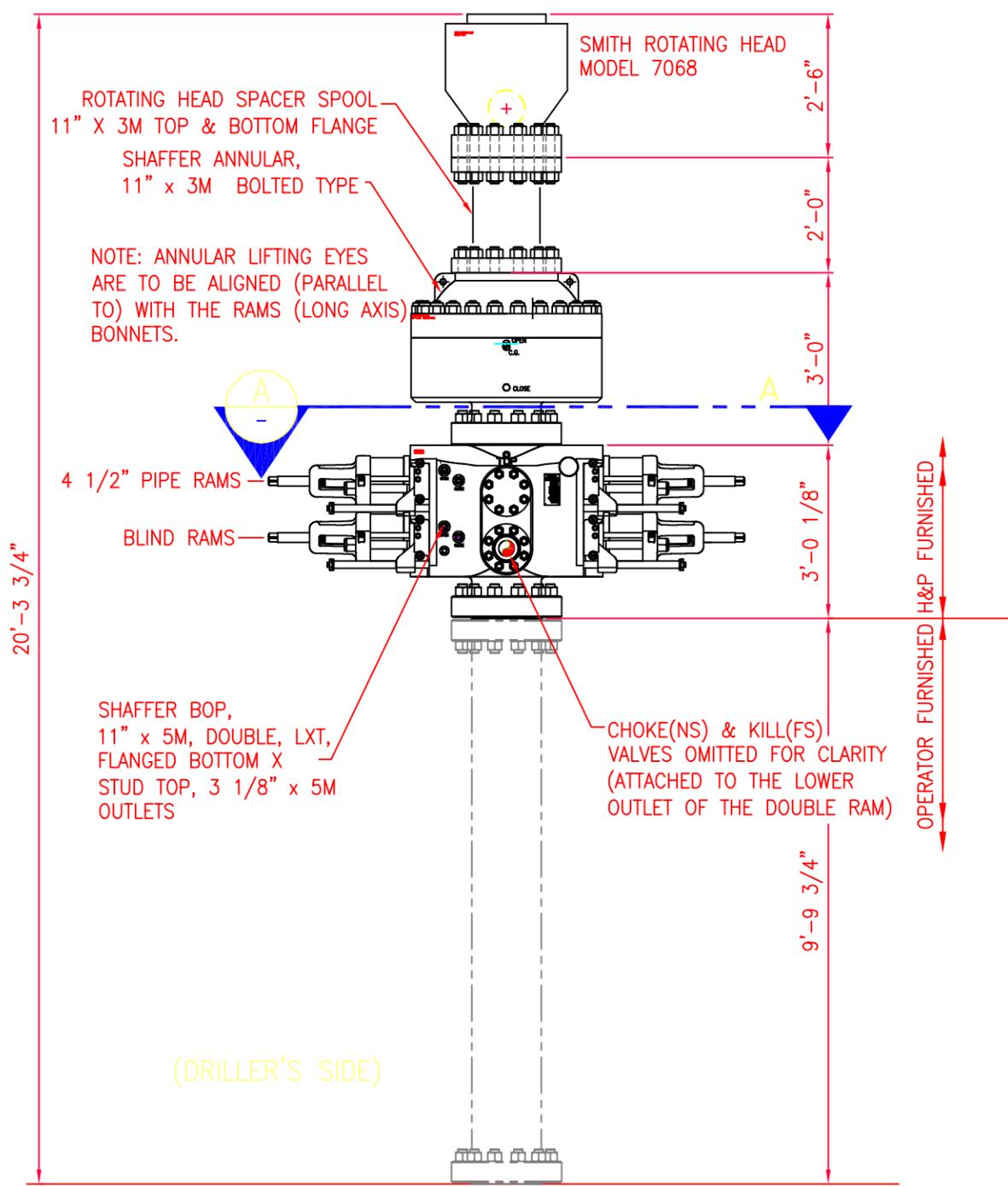
STATE OF UTAH }
 } :SS
COUNTY OF DUCHESNE }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 9 day of August, 2010, personally appeared **Shannon L. Giles** 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.

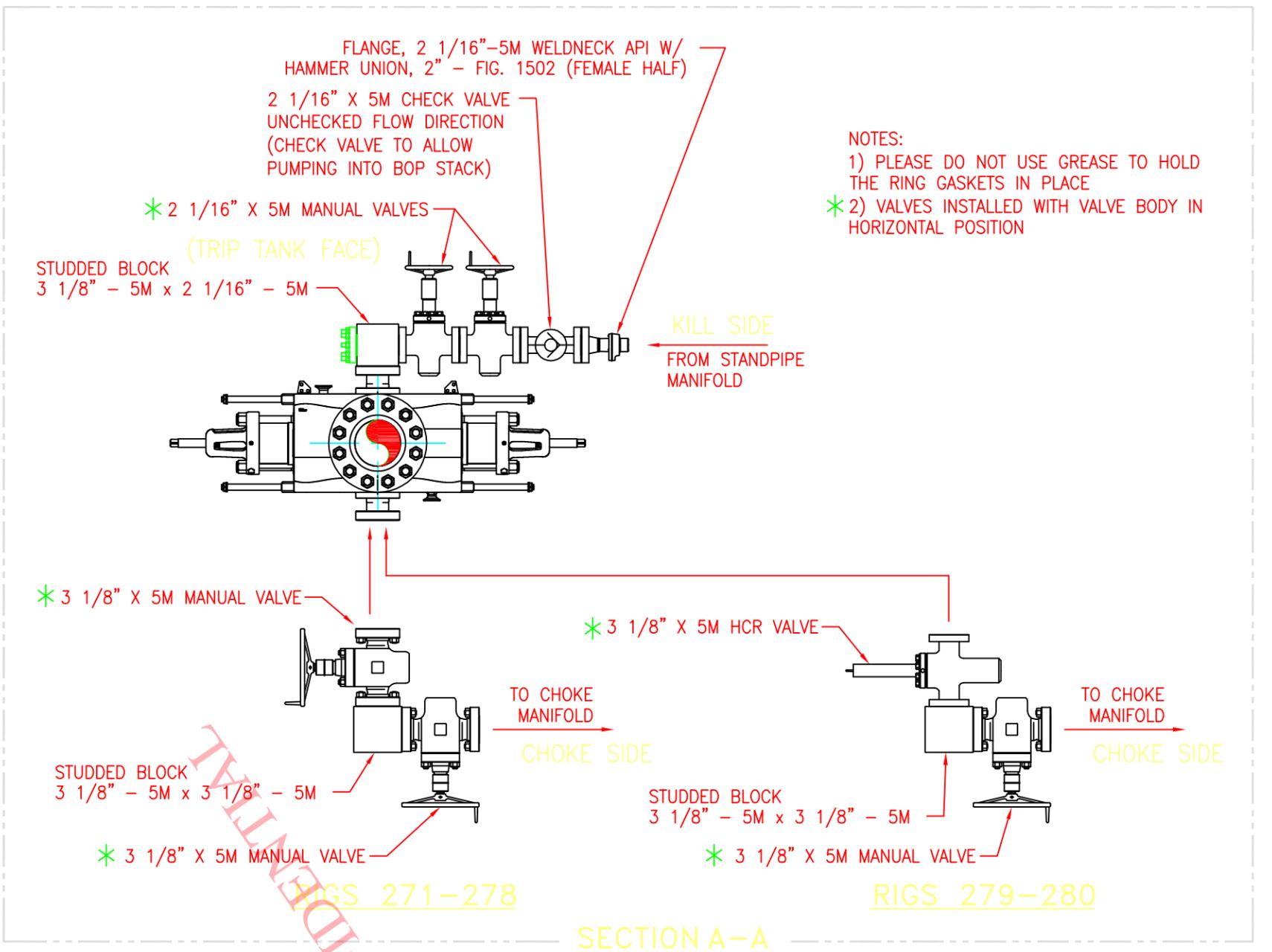
J. Cameron Moos
Notary Public



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ELEVATION VIEW
(V-DOOR FACE)



- NOTES:
- PLEASE DO NOT USE GREASE TO HOLD THE RING GASKETS IN PLACE
 - VALVES INSTALLED WITH VALVE BODY IN HORIZONTAL POSITION

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

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

PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE (FT/LBS)	
			CF=0.07	CF=0.13
RAMS AND SPOOLS	11"x5M	1 7/8" DIA.	1890	3330
ROTATING HEAD & ANNULAR	11"x3M	1 3/8" DIA.	739	1280
CHOKE VALVES	3 1/8"x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16"x5M	7/8" DIA.	188	319

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	BY
A	09-18-06	CHFD CUSTOMER TO WILLIAMS; ADDED SHTS 7-9; CORRECTED HEIGHT OF RAM	MWL
B	09-07-06	CHFD CUSTOMER TO WILLIAMS PRODUCTION; ADDED SHEETS 2 THRU 6	MWL
C	4-25-07	ADDED MARATHON RIGS 314 & 324 AND PAGE NUMBERS REVISED	JBG
D	02-26-07	ADDED NOTE & SHEET 10	MWL
E	11/28/06	ADDED CHOKE ARRANGEMENT FOR RIGS 279-280	LT

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: **BOP ARRANGEMENT FOR F4S**

CUSTOMER: WILLIAMS PRODUCTION (RIGS 271 - 280)

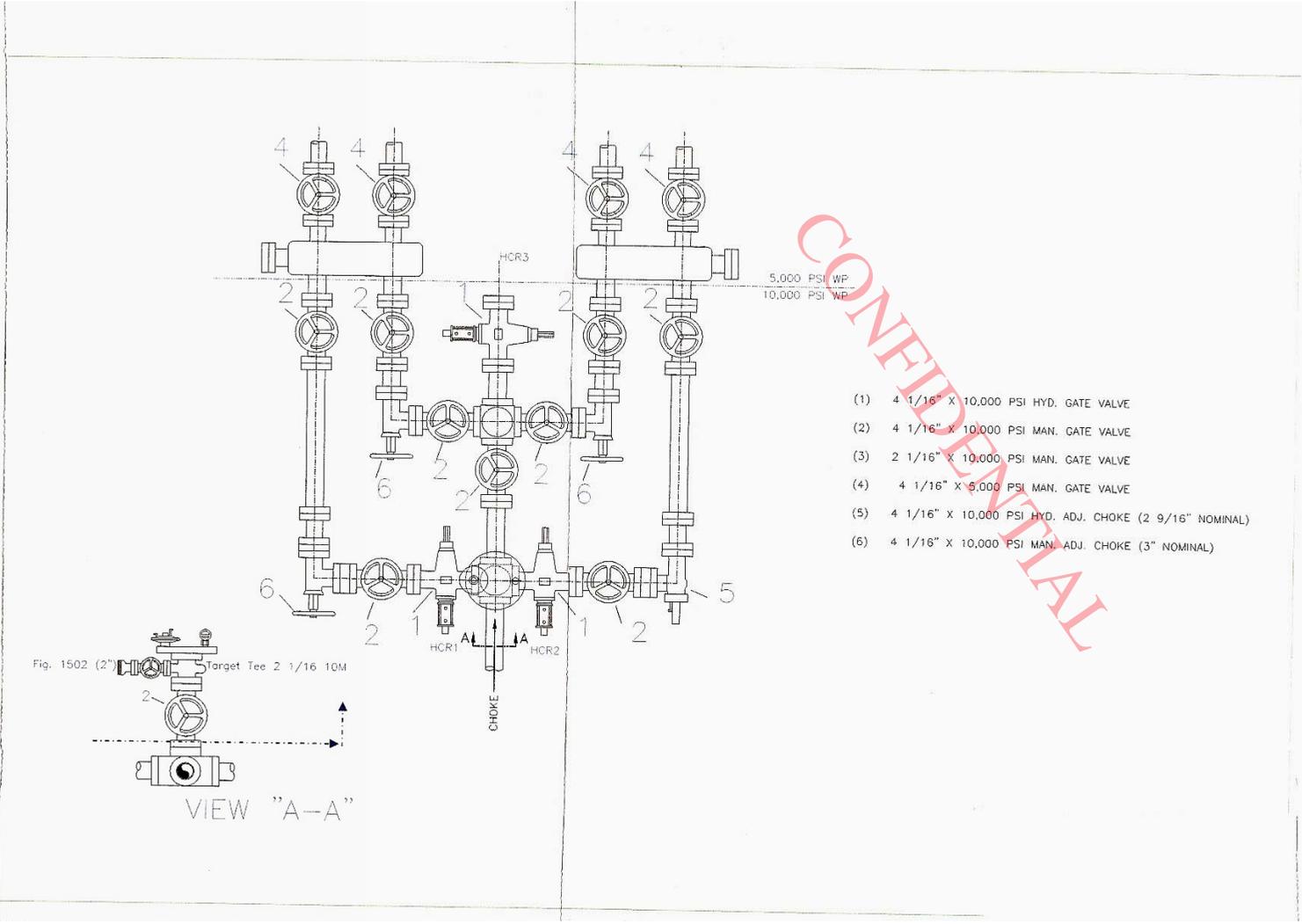
PROJECT: F4S

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

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

APIWellNo:43013504260000

CONFIDENTIAL STATUS





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

August 26, 2010

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

RE: Request for Exception to Spacing – Harvest (US) Holdings, Inc. – **Giles #1-19-3-2**
701' FNL, 1203' FEL, NE/4 NE/4, Section 19, T3S, R2W, USB&M
Duchesne County, Utah

Dear Diana:

Harvest (US) Holdings, Inc. respectfully submits this request for exception to spacing (R649-3-2) based on topography since the well is located less than 460' to the drilling unit boundary. 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 are not within 460 feet of any uncommitted tracts or a unit boundary.

Thank you very much for your timely consideration of this application. Please feel free to contact 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.

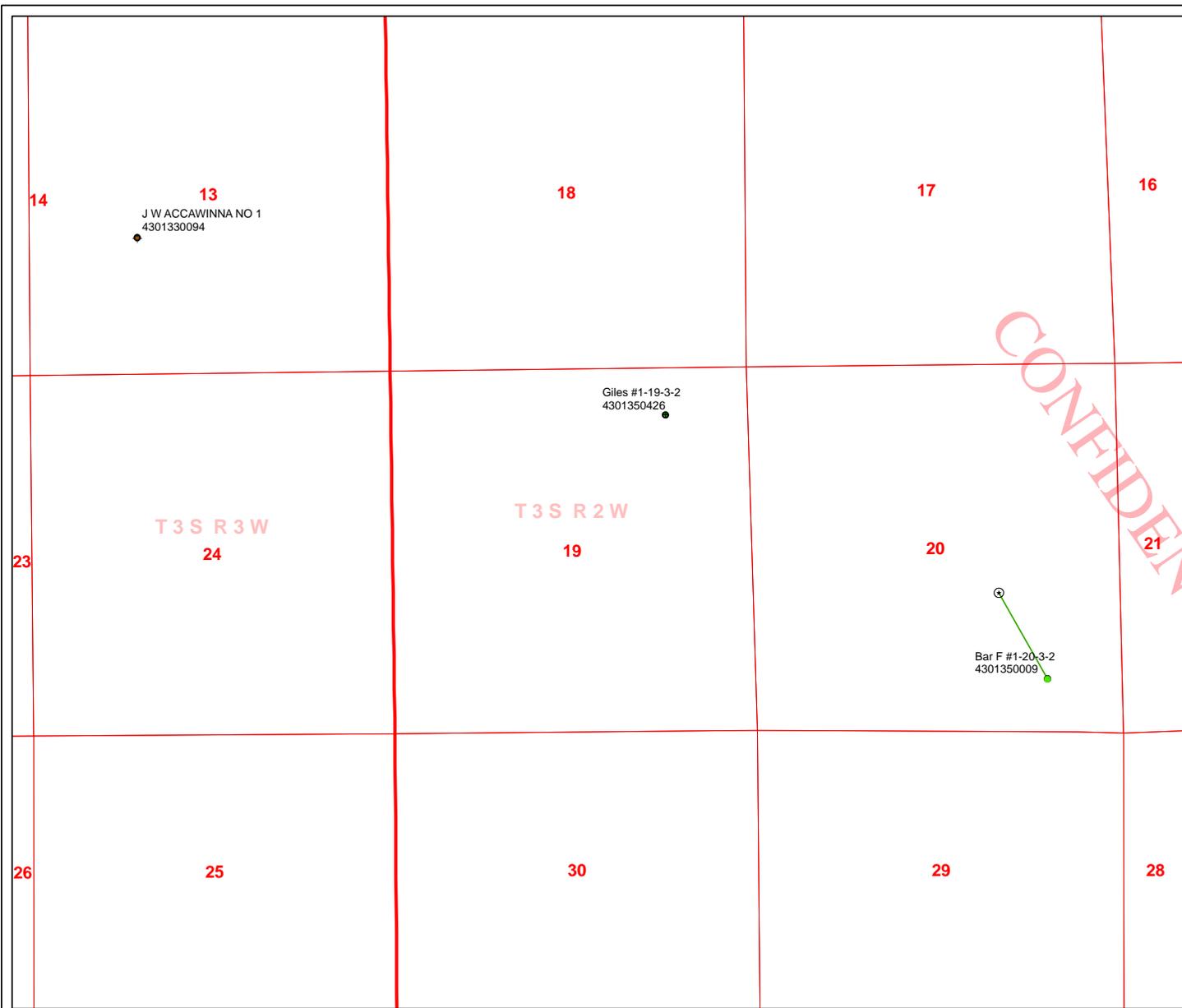
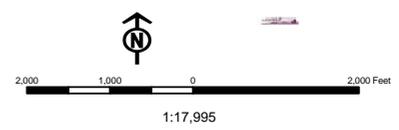
cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.
Bob B. Berry, PE, Harvest (US) Holdings, Inc.

CONFIDENTIAL

API Number: 4301350426
Well Name: Giles #1-19-3-2
Township 03.0 S Range 02.0 W Section 19
Meridian: UBM
 Operator: HARVEST (US) HOLDINGS, INC

Map Prepared:
 Map Produced by Diana Mason

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



CONFIDENTIAL

Well Name	HARVEST (US) HOLDINGS, INC Giles #1-19-3-2 43013504260000			
String	Cond	Surf	I1	Prod
Casing Size(")	20.000	13.375	9.625	5.500
Setting Depth (TVD)	60	500	3000	10500
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	500	500	5000
Casing Internal Yield (psi)	500	1730	3520	13580
Operators Max Anticipated Pressure (psi)	6280			11.5

Calculations	Cond String	20.000	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO <input type="text" value="OK"/>
Required Casing/BOPE Test Pressure=		60	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

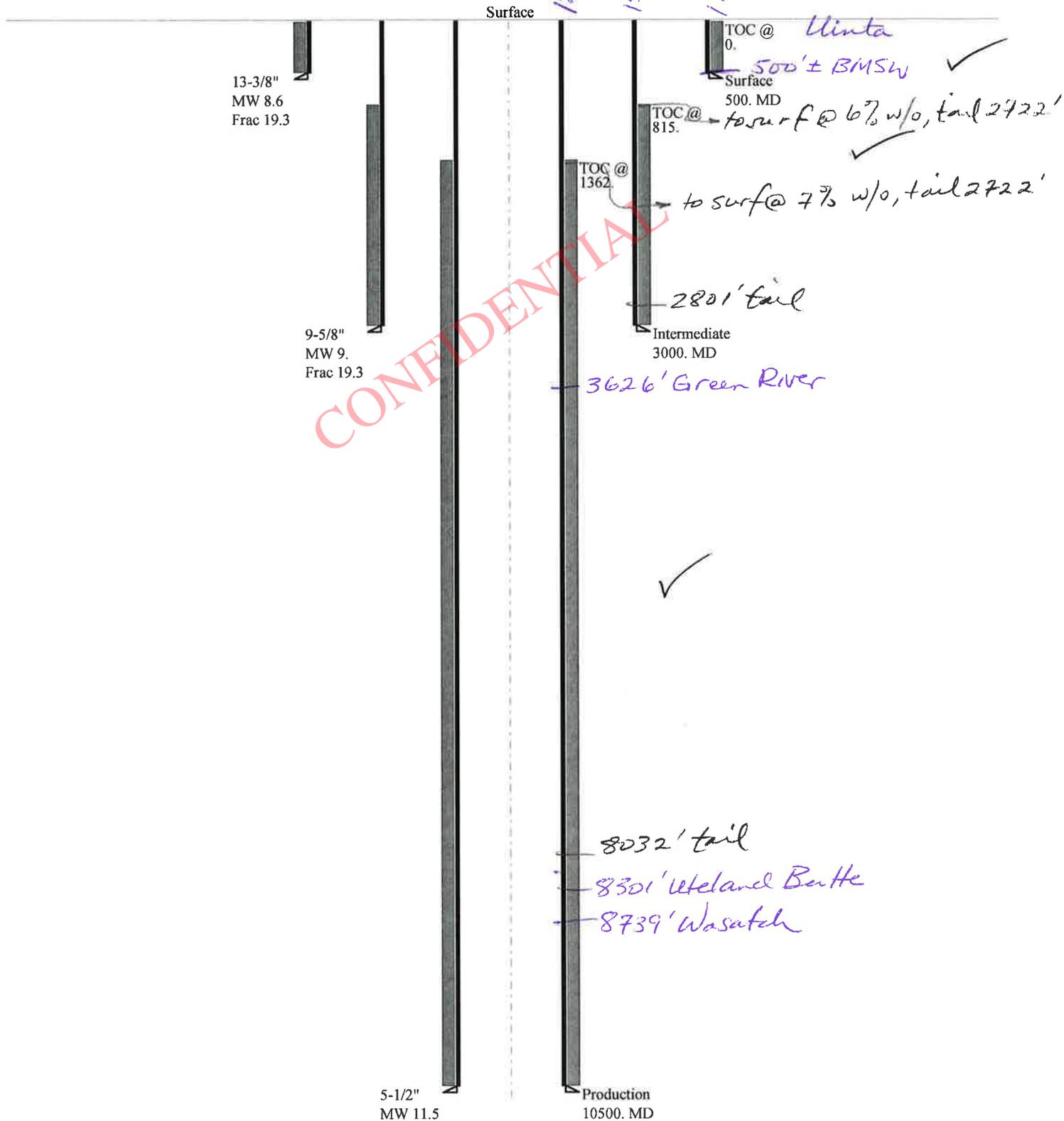
Calculations	Surf String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	224	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	164	YES <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	114	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	127	NO <input type="text" value="OK"/>
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	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1044	NO <input type="text" value="possible air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	744	NO <input type="text" value="No expected pressures, reasonable depth"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	854	NO <input type="text" value=""/>
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=	6279	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5019	NO <input type="text" value=""/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3969	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4629	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3000	psi *Assumes 1psi/ft frac gradient

43013504260000 Giles #1-19-3-2

Casing Schematic



Well name:	43013504260000 Giles #1-19-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Surface	Project ID:	43-013-50426
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.600 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: 437 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	223	740	3.313	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: October 12, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.6 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:	43013504260000 Giles #1-19-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Intermediate	Project ID:	43-013-50426
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: 2,340 psi
 Internal gradient: 0.220 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: 10,500 ft
 Next mud weight: 11,500 ppg
 Next setting BHP: 6,273 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: October 12, 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:	43013504260000 Giles #1-19-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Production	Project ID:	43-013-50426
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: 221 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,362 ft

Burst

Max anticipated surface pressure: 3,963 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,273 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: 8,692 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	10500	5.5	23.00	P-110	LT&C	10500	10500	4.545	93623
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	6273	14540	2.318	6273	13580	2.16	241.5	643	2.66 J

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

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

Date: October 12, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10500 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 Giles #1-19-3-2
API Number 43013504260000 **APD No** 2994 **Field/Unit** WILDCAT
Location: 1/4,1/4 NENE **Sec** 19 **Tw** 3.0S **Rng** 2.0W 701 FNL 1203 FEL
GPS Coord (UTM) 572631 4451530 **Surface Owner** Lavon R. Giles

Participants

Bob Berry (Harvest Natural Resources); Bryan Reynolds (landman); McCoy Anderson (Uintah Engineering); Zander McLantgre (dirt contractor); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

Proposed wellsite was staked 7.8 miles south of Roosevelt Utah along U.S. Highway 40, then west along county road 64 for 4.2 miles, then north 0.33 miles into wellsite. The topography surrounding this wellsite is relatively flat, river bottom country, with the Lake Fork River Drainage 0.7 miles to the north, then beyond that the Dry Gulch Canal also flows in a southeasterly direction. The surface rises further to the north onto North Myton Bench and is located approximately 2.0 miles north from the wellsite. To the east is Flattop Butte, much of this surface is upper river bottom, arid greasewood or desert habitat between the Duchesne River Bottom located 2.25 miles south and the proposed project. To the west this type habitat continues as rangeland or developed croplands for another 5.0 miles into Arcadia then rises onto lower cedar bench habitat. The surface immediately around the wellsite slopes north and east, and is open, undeveloped pasture for cattle.

Surface Use Plan

Current Surface Use
 Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.33	Width 250 Length 274	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Greasewood, rabbit brush, Tamarix, Salt Cedar; mule deer, coyote, fox, raccoon, rabbit and other smaller mammals native to region, birds of prey and others typical of region.

Soil Type and Characteristics

Tan, sandy loam with clays present and alkali patches

Erosion Issues N

Sedimentation Issues N

Site Stability Issues Y

Will bring in six inches or more of 1 1/2 inch road base and compact to stabilize surface

Drainage Diverson Required? N

Berm Required? N

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, plan a shallow pit for dry shale and cutting along northwest corner of location, approximately 80' long by 30' wide.

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

Other Observations / Comments

Access in from the south, irrigation ditch will require culvert and should be addressed in landowner agreement, alkali areas on surface of north and eastern location, surface slopes to northwest and east and is undeveloped rangeland.

Dennis Ingram

Evaluator

9/7/2010

Date / Time

Application for Permit to Drill Statement of Basis

10/19/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2994	43013504260000	LOCKED	OW	P	No
Operator	HARVEST (US) HOLDINGS, INC		Surface Owner-APD	Lavon R. Giles	
Well Name	Giles #1-19-3-2		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	NENE 19 3S 2W U 701 FNL 1203 FEL GPS Coord (UTM) 572626E 4451519N				

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 500'. A search of Division of Water Rights records shows 10 water wells within a 10,000 foot radius of the center of Section 19. All wells are privately owned. Depth is listed as ranging from 31 to 400 feet. Depth is not listed for 1 well. Water use is listed as irrigation, stock watering, and domestic use. The nearest well is approximately 1/2 mile south of the proposed location and produces water from a depth of 80 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 proposed casing and cement program should adequately protect usable ground water in the area.

Brad Hill
APD Evaluator

10/5/2010
Date / Time

Surface Statement of Basis

A presite meeting was conducted on September 9, 2010 with the operator and interested parties to take comments and address issues regarding the construction of this well pad. Levon Giles was given as the landowner of record and therefore invited by telephone to attend the meeting. Mr. Giles explained that he did have a written surface agreement Harvest and if the operator abides by that agreement he didn't have any problems with the wellsite.

The proposed access road into site crosses an irrigation ditch and the operator needs to install a culvert and crossing adequate to accommodate (and not restrict) any water flow along that ditch. There was numerous places along the access road and location where white, alkali soil indicated it might not provide a stable construction surface unless road base similar to what Harvest has used is brought in from an outside source and worked until the that surface is solid. A closed loop system has once again been proposed by Harvest and the well will be drilled without a reserve pit. A small solids pit is planned for the northwest corner of this pad, measuring 80' x 30' and will be utilized for storing dry cutting and cement returns from surface casing jobs. There weren't any diversions or drainage problems noted for the site unless the operator finds ground water issues while constructing this well pad. However Tamarix was observed on the northeastern portion of location and if shallow water becomes an issue the operator shall develop a plan to drain off any water problems and stabilize the location surface as mentioned above. No other issues were noted.

Dennis Ingram
Onsite Evaluator

9/7/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
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.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/26/2010

API NO. ASSIGNED: 43013504260000

WELL NAME: Giles #1-19-3-2

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

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NENE 19 030S 020W

Permit Tech Review:

SURFACE: 0701 FNL 1203 FEL

Engineering Review:

BOTTOM: 0701 FNL 1203 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.21284

LONGITUDE: -110.14655

UTM SURF EASTINGS: 572626.00

NORTHINGS: 4451519.00

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: 2010-10-19 00:00:00.0
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-3
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
5 - Statement of Basis - bhll
23 - Spacing - dmason

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

FORM 6

ENTITY ACTION FORM

Operator: Harvest (US) Holdings, Inc.
Address: 1177 Enclave Parkway
city Houston
state TX zip 77077

Operator Account Number: N 3520

Phone Number: (281) 899-5722

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4301350426	Giles #1-19-3-2	NENE	19	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number		Spud Date		Entity Assignment Effective Date
A	99999	17839		10/15/2010		10/28/10
Comments: The well was spud utilizing Craigs at 0930 hrs. Conductor was set at 70' <i>WSTC</i>						CONFIDENTIAL

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

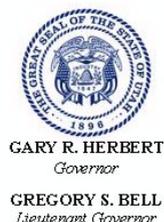
10/15/2010

Title

Date

RECEIVED

OCT 18 2010



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: Giles #1-19-3-2
API Well Number: 43013504260000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 10/19/2010

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 R649-3-3. 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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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:

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

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

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

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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Giles #1-19-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504260000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0701 FNL 1203 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 19 Township: 03.0S Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHESNE
	STATE: UTAH

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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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/15/2010	<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
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	<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.

The Giles #1-19-3-2 was spud at 0930 hours on October 15, 2010 by Craigs.

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

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 10/19/2010

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077	7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: 281 899-5722 Ext	8. WELL NAME and NUMBER: Giles # 1-19-3-2
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	COUNTY: DUCHESTER
	STATE: UTAH

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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

CONFIDENTIAL - TIGHT HOLE

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

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

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	18-Oct-10	Current Operation:	NU & drill 12 1/4" hole on air/mist	Depth @ Midnight:	520 '
				Depth @ 06:00:	520 '
Spud Date:	15-Oct-10	Days Since Spud:	3	Footage last 24 hrs:	180 '

Time Breakdown:		
From:	To:	Description
0:00	6:00	Idle Operations
6:00	6:30	Service Rig & Equipment
6:30	7:00	GIH to 340' and clean wellbore
7:00	10:00	Drill 12 3/8" hole w/ air hammer assy. On Air/Mist system to 520'
10:00	10:30	Circulate hole clean.
10:30	12:00	POOH w/ Drill Pipe and BHA
12:00	12:30	RU to run 13-3/8" casing
12:30	14:30	Run 507.03' of 13-3/8" Casing
14:30	15:30	Cement casing w/ 90 bbls of Glass "G" cement. 10 bbls of cement returns. Floats held.
15:30	0:00	SWFN & WOC

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

RECEIVED October 25, 2010

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

FORM 9

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Attached please find the drilling reports ending 10-30-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 11/2/2010

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

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

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NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 11/2/2010

**Accepted by the
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November 02, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request is hereby made to change our approved drilling plan program to now run 3500' of 9 5/8" surface casing to understand what increases in the FIT we see by running an extra 500' of pipe. The safety factors and cement have been changed accordingly. Please note the top of the Green River is anticipated at 3626'. Plans are to begin drilling mid-day Friday and anticipate TD of the 12 1/4" surface hole Saturday morning.

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

Date: 11/24/2010
By: *Don Hamilton*

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A	DATE 11/24/2010	

Well name: **43013504260000 Giles #1-19-3-2**
 Operator: **HARVEST (US) HOLDINGS, INC**
 String type: **Intermediate** Project ID: **43-013-50426**
 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: 123 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top:

642 ft → w/128 w.o
 surface shoe @ 500'
 Propose to surface
 ✓ ok.

Burst

Max anticipated surface pressure: 2,730 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 3,500 psi

→ Diverter system
 No expected flow or pressures
 Used in area ✓
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)

Non-directional string.

No backup mud specified.

Tension is based on air weight.
 Neutral point: 3,034 ft

Re subsequent strings:

Next setting depth: 10,500 ft
 Next mud weight: 11.500 ppg
 Next setting BHP: 6,273 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 3,500 ft
 Injection pressure: 3,500 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	3500	9.625	36.00	J-55	LT&C	3500	3500	8.796	28621
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	1636	2020	1.234	3500	3520	1.01	126	453	3.60 J

Approved by the Utah Division of Oil, Gas and Mining

Date: 11/24/2010
 By: Derek Duff

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

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

Date: November 24, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3500 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.

CONFIDENTIAL STATUS

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 ³ /sk)
			ft ³			
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	3000' to surface	Premium Type V w/ 16% gel, 10 lbs/sk gilsonite, 3% salt, 3 lbs/sk GR 3, ¼ lb/sk Flocele	360 1375	40%	11.0	3.82
Intermediate casing 9 5/8" Tail	3500' to 3000'	Premium G w/ 2% CaCl, ¼ lb/sk Flocele	100	50%	15.8	1.15
			115			
Production casing 5 ½" Lead	7800' to surface	Light Premium w/ 2% gel, 6 lbs/sk light weight additive, 0.125 lb/sk lost circulation additive	793	30%*	11.5	2.77
			2197			
Production casing 5 ½" Tail	10500' to 7800'	50/50 Poz Premium w/ 2% expander, 0.3% fluid loss control, 0.3% retarder	630	30%*	14.3	1.29
			914			

- *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

CONFIDENTIAL STATUS

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'-3,500'	Gel w/ fluid loss ctl	8.8-9.0	45-60	8-10
3,500'-10,500'	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'-**3,500'**, when hole conditions dictate, air or a fresh water gel system will be utilized. From **3,500'** 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:

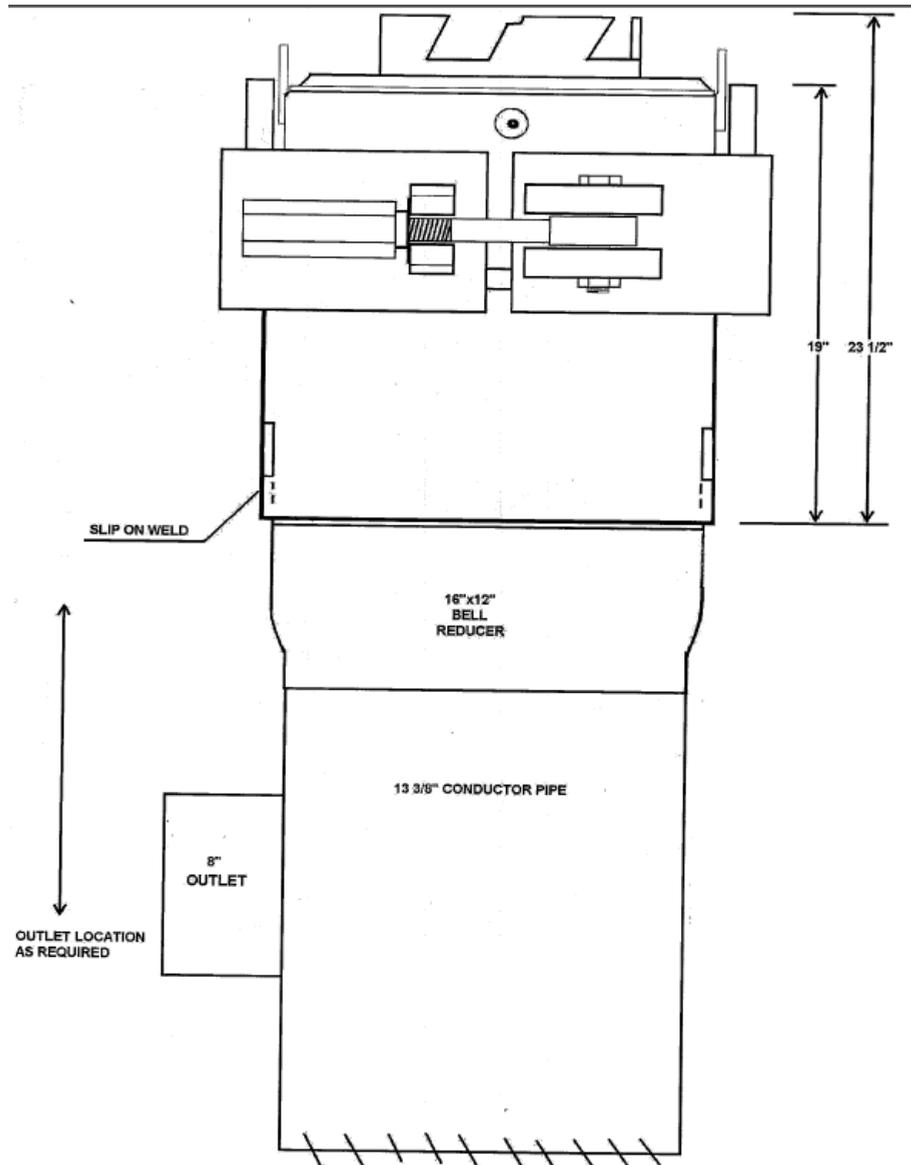
12-1/4" hole: 500' – 3500'.

A diverter system will be used with a minimum diameter of 8" flow line being plumbed to the cuttings pit if on air/mist system or directly to the mud system if it is necessary to convert to a fluid system if air volumes are insufficient.

CONFIDENTIAL STATUS

Connections – All connections on the riser to the diverter will be welded. Flow line will be saddled to the riser with connections downstream being either welded or screwed.

Working pressure of the diverter element will exceed the friction pressure of any fluid in the 8” line to the open mud system pumping a flowrate sufficient to clean the hole.



8 3/4" Hole: 3,500 - PTD

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.

CONFIDENTIAL STATUS

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.

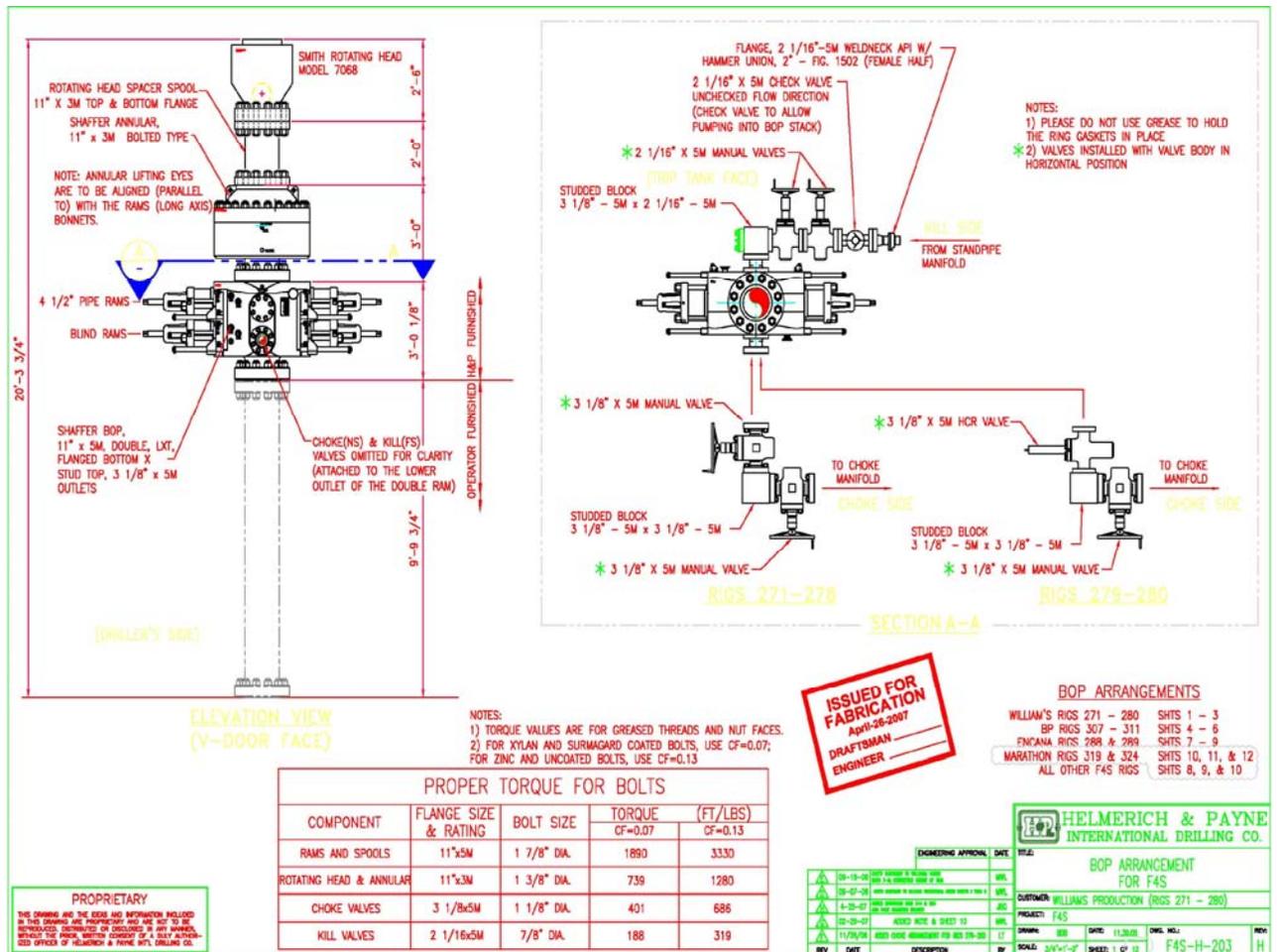
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

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 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.

CONFIDENTIAL STATUS

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
435-650-3886 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.
Bob Berry
Drilling & Completion Manager
281-899-5776 Office
713-231-8319 Cell
bberry@harvestnr.com

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.

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PHONE NUMBER: 281 899-5722 Ext.	8. WELL NAME and NUMBER: GILES #1-19-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0701 FNL 1203 FSL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 19 Township: 03.05 Range: 02.0W Meridian: U	9. API NUMBER: 43013504260000
	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHEсне
	STATE: 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 type="checkbox"/> SUBSEQUENT REPORT 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"/> SPUD REPORT 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"/> DRILLING REPORT Report Date: 11/27/2010	<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
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	<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 11-27-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 11/29/2010

**Accepted by the
Utah Division of
Oil, Gas and Mining
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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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PHONE NUMBER: 281 899-5722 Ext.	8. WELL NAME and NUMBER: GILES #1-19-3-2
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	COUNTY: DUCHEсне
	STATE: UTAH

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<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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/4/2010	<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
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	<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 12-4-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 12/7/2010

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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	COUNTY: DUCHEсне
	STATE: UTAH

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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/11/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Attached please find the drilling reports ending 12-11-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 12/13/2010

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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FORM 9

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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/18/2010	<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
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Attached please find the drilling reports ending 12-18-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 12/20/2010

**Accepted by the
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Oil, Gas and Mining
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GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	13-Dec-10	Current Operation:	Continue to rotate and slide drill 8 3/4" hole	Depth @ Midnight:	7,161 '
				Depth @ 06:00:	6,467 ' Footage last 24 hrs: 303 '
Spud Date:	15-Oct-10	Days Since Spud:	43		

Time Breakdown:		
From:	To:	Description:
0:00	0:00	Drill 8-3/4" hole from 6858' to 6944'. Backream/ream 90' before each connection to prevent drag.
5:00	5:45	Circulate bottoms up while mixing slug.
5:45	6:00	Blow down top drive and mud lines to prevent freezing.
6:00	9:30	POH for new bit #6 & BH motor. Lay down roller reamer, break off bit, lay down pony DC and IB stab. Bit #5 condition: 2-2-WT-S-X-I-WT-BHA. 2 cutters in cone worn & 4 on shoulder worn. No junk damage.
9:30	11:30	PU 1.5 deg BH motor (o.16 revs/gal, make up new bit #6 (HTC, Q506FX, SN 7019922 w/6 x 12 jets). Scribe UBHO to motor bend, PU 8-3/4" IB stab. RIH with BHA.
11:30	13:15	RIH w/new bit #6 and BH motor. Fill string and break circulation at shoe & 5000', install rotating rubber. String stood up at 5320'.
13:15	17:30	Make up top drive & wash/ream to TD.
17:30	18:15	Break in bit and rotate drill 6944' to 6956'.
18:15	19:15	Slide drill 8-3/4" hole 6956' to 6969' to reduce hole inclination.
19:15	20:30	Rotate drill 8-3/4" hole 6969' to 7032'.
20:30	21:30	Slide drill 8-3/4" hole 7032' to 7047' to reduce hole inclination.
21:30	0:00	Rotate drill 8-3/4" hole 7047' to 7161'.

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

RECEIVED December 20, 2010

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	16-Dec-10	Current Operation:	Continue to rotate and slide drill 8 3/4" hole	Depth @ Midnight:	8,954 '
				Depth @ 06:00:	8,954 '
Spud Date:	15-Oct-10	Days Since Spud:	46	Footage last 24 hrs:	85 '

Time Breakdown:		
From:	To:	Description:
0:00	5:00	Rotate drill 8-3/4" hole f/ 8869' to 8954'. MW 11.0 ppg. Observed decrease in SPR's/pump press even w/ higher MW.
5:00	6:30	Circulate while mixing slug, pump slug.
6:30	7:45	Blow down top drive & POH slowly checking string for washout. Encountered tight hole at 7550'.
7:45	9:15	Tight hole at 7550'. Attempted to work string thru w/o success. MU top drive, break circulation and backream 7550' to 7533', 7531' to 7523' and 7455' to 7440'. Not difficult backreaming.
9:15	13:15	Continue POH w/wet string (pumped out slug) looking for washout. Encountered 60K overpull at 5215', backreamed 5215' to 5185'. Continue POH to shoe.
13:15	13:45	Routine rig service.
13:45	18:00	POH, inspect motor & bit. Bit balled up with 1 middle jet plugged. Clean up bit and remake Bit #6 (now Bit #7). Bit #6 condition: 0-0-BU-A-X-I-PN-PR.
18:00	0:00	RIH w/Bit #7, filling string every 2000'. Precautionary wash/ream thru tight spot at 7440' to 7550'. Bit at 7550' at midnight.

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

RECEIVED December 20, 2010

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	17-Dec-10	Current Operation:	Continue to rotate and slide drill 8 3/4" hole	Depth @ Midnight:	9,012'
Spud Date:	15-Oct-10	Days Since Spud:	47	Depth @ 06:00:	9,050'
				Footage last 24 hrs:	58'

Time Breakdown:		
From:	To:	Description:
0:00	1:30	Continue to RIH from 7550' to 8874'. Precautionary wash/ream from 8874' to TD.
1:30	7:30	Rotate drill 8-3/4" hole from 8954' to 8985'. Attempt to make bit drill (appears to be balled up again) by reaming up and down, pumping nut plug sweeps & varying WOB, RPM and pump rate. Bit drilled ~30-35 fph for ~20 mins, made connection and balled up immediately on sitting back on bottom.
7:30	11:00	Pump slug and POH to change bit and motor. Blew down top drive. POH to shoe.
11:00	11:30	Routine rig service.
11:30	14:30	Continue to POH. Remove rotating rubber and install trip nipple. Pull BHA. Break off bit & lay down motor. Bit #7 condition: 0-0-BU-A-X-I-NO-PR.
14:30	18:30	Pick up new motor and bit #8 (Ulterra MS 1666DU, SN 7451). RIH to 3873'.
18:30	19:15	Fill string and test MWD/motor. Circulate out 8100 U gas.
19:15	21:30	RIH w/Bit #8 filling string every 2000' to 8918'.
21:30	22:00	Make up top drive and precautionary wash/ream 8918' to TD.
22:00	0:00	Rotate drill 8-3/4" hole from 8985' to 9012'. Indications are that the bit is still balling. Pump Nut Plug sweep, vary drilling parameters.

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

RECEIVED December 20, 2010

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

FORM 9

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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/25/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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Attached please find the drilling reports ending 12-25-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 12/26/2010

**Accepted by the
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FOR RECORD ONLY**

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	20-Dec-10	Current Operation:	Drill to 9753', lost returns & stuck pipe. Spot pills/work pipe.	Depth @ Midnight:	9,753'
				Depth @ 06:00:	9,753'
Spud Date:	15-Oct-10	Days Since Spud:	50	Footage last 24 hrs:	3'

Time Breakdown:		
From:	To:	Description:
0:00	0:30	Rotate drill 8-3/4" hole from 9750' to 9753'. Lost returns while increasing mud wt to 12.0 ppg (130 bbls lost to hole).
0:30	1:45	PU off btm to 9738', slowed pump to 40 spm from 95 and mix LCM pill. Pumped LCM and regained partial returns at 01:40. String stuck just as full returns regained and while rotating string.
1:45	7:00	Work & torque stuck string down. No jar action. Stretch calcs indicate stuck pt 7050' to 7600' (sand show at that depth).
7:00	11:45	Clean slug tank of mud & mix 25 bbls Pipe Lax pill. Work/torque string down 230K to 50K. Reduced MW to 11.7 ppg.
11:45	12:30	Pump in Pipe Lax pill and pump top of pill to 7400'.
12:30	17:30	Soak Pipe Lax pill across sand from 7400 to 7480'. Simultaneously work/torque string moving 1/2 bbl / every 15 minutes.
17:30	18:30	Circ out Pipe Lax pill. 8400 U gas when pill came over shakers, but gas dropped out. Continue to work pipe (230 / 50K).
18:30	0:00	Spot 47 bbls of 11.7 ppg Black Magic pill with top at 7400' and bottom at 8259'. Pump 0.875 bbls / 15 minutes moving pill up the hole. Continue simultaneously work/torque string from 230K to 50K. No movement at midnight.

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

RECEIVED December 26, 2010

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	25-Dec-10	Current Operation:	POOH to Log well.	Depth @ Midnight:	9,753 '	
				Depth @ 06:00:	9,753 '	Footage last 24 hrs: 0 '
Spud Date:	15-Oct-10	Days Since Spud:	55			

Time Breakdown:		
From:	To:	
0:00	0:15	Circulate out Gas until stable
0:15	0:45	RIH to 9615'.
0:45	4:00	Wash & Ream to btm. Circ. Out gas max 8000 units. Spot 25 bbl. Pill across sand @ 7400'
4:00	10:00	POOH to log.
10:00	10:30	Rig Service
10:30	16:15	RU Log well RD
16:15	21:00	GIH to TD
21:00	23:00	Circulate hole clean.
23:00	0:00	Pump slug POOH to run casing.

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

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Page 1 of 1

Carol Daniels - Notice of 5 1/2 Casing Cement Job

T035 ROW 5-19 43-013-50426

From: "Field Supervisor"
To: "Carol Daniels" , "Chrissy Vance" , "Dan Jarvis" , "Dennis Ingram" , "Don Hamilton" ,
"Dustin Doucet" , "Jeff Schrutka" , "Victor King"
Date: 12/27/2010 6:40 AM
Subject: Notice of 5 1/2 Casing Cement Job
CC: "Jeff Schrutka"

Ladies and Gentlemen:

Please be advised that Harvest Natural Resources will commence cementing the 5 ½ long string on Giles #1-19-3-2 at approximately 11:00 AM today.

Regards,
Glenn Randel
HNR Rep
H & P 319

This E-mail has been scanned by HNR Content Security and is believed to be clean.

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DEC 27 2010

DIV. OF OIL, GAS & MINING

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	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077	7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: 281 899-5722 Ext.	8. WELL NAME and NUMBER: GILES #1-19-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0701 FNL 1203 FSL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 19 Township: 03.05 Range: 02.0W Meridian: U	9. API NUMBER: 43013504260000
	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHEсне
	STATE: 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 type="checkbox"/> SUBSEQUENT REPORT 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"/> SPUD REPORT 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"/> DRILLING REPORT Report Date: 1/1/2011	<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 1-1-2011

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 1/3/2011

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

GILES #1-19-3-2 DAILY OPERATIONS SUMMARY

Date:	27-Dec-10	Current Operation:	Skid Rig & LD DP	Depth @ Midnight:	9,753 '	
				Depth @ 06:00:	9,548 '	Footage last 24 hrs: 0 '
Spud Date:	15-Oct-10	Days Since Spud:	57			

Time Breakdown:		
From:	To:	
0:00	2:45	Run casing to 9642'
2:45	11:00	Circulate w/ rig.
11:00		MI & RU Halliburton
		Pump 20 bbls Mud Flush III
		50 bbls tuned spacer III
		1475 sxs - Econocem w/ Boral Craig Pozmix+Bentonite+Silicate+KCl+Halad-322+FWCA+HR-5+0.25 pps Polyflake
		460 sxs - Bondcem w/ SSA-1+Halad-344+0.2% BWOC+0.25 pps Polyflake
		Displaced w/ 198.5 bbls of FW w/ Clayfix Bumped plug with 4600 psi (1400 psi above FPP)
	15:30	RD Halliburton'
15:30	16:30	LD Landing jt.
16:30	22:00	ND BOPs
22:00	0:00	RD CRT

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:
Total AFE w/ Comp.:

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STATE OF UTAH
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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER vertical		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR: Harvest (US) Holdings, Inc.		7. UNIT or CA AGREEMENT NAME N/A
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway CITY Houston STATE TX ZIP 77077		8. WELL NAME and NUMBER: Giles #1-19-3-2
PHONE NUMBER: (281) 899-5722		9. API NUMBER: 4301350426
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 701 FNL 1203 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 701 FNL 1203 FWL AT TOTAL DEPTH: 701 FNL 1203 FWL		10. UNIT AND POOL, OR WILDCAT Wildcat
14. DATE SPUNNED: 10/15/2010		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 19 3S 2W U
15. DATE T.D. REACHED: 12/19/2010		12. COUNTY Duchesne
16. DATE COMPLETED: 3/15/2011 ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5,155' GL		

18. TOTAL DEPTH: MD 9,752 TVD 9,752	19. PLUG BACK T.D.: MD 9,548 TVD 9,548	20. IF MULTIPLE COMPLETIONS, HOW MANY? * 10	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		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

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

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
17.5	13-3/8 H-40	48.5	0	500		G 425	90	0-CIR	
12.25	9-5/8 J-55	36	0	3,160		G 780	323	0-CIR	
8-3/4	5.5 P-1	23	0	9,635		G 1,935	527	0-CIR	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	7,393	7,373						

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) GR	7,250	8,713			7,454 8,657		432	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) Wasatch	8,713				8,737 9,352		256	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7454-8559	419,600 lb 20/40 Sand; 135,400 lb 20/40 Resin sand; 3,500 lb 100 mesh
8645-9352	571,160 lb 20/40 sand; 113,380 lb 20/40 Resin sand, 14,900 lb 100 mesh

29. ENCLOSED ATTACHMENTS: <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input checked="" type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	30. WELL STATUS: Producing
--	---	--	--------------------------------------

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31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 2/24/2011		TEST DATE: 3/21/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 1,211	GAS - MCF: 699	WATER - BBL: 453	PROD. METHOD: flowing
CHOKE SIZE: 23/64	TBG. PRESS. 1,250	CSG. PRESS. 0	API GRAVITY	BTU - GAS 1,436	GAS/OIL RATIO 677	24 HR PRODUCTION RATES: →		OIL - BBL: 1,211	GAS - MCF: 699	WATER - BBL: 453	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.)

sold

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	7,250
				Castle Peak	8,065
				Uteland Butte	8,248
				Wasatch	8,713

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 Don Hamilton

DATE March 25, 2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- 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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

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GEOLOGIC REPORT

Provided by
Decollement Consulting Inc.

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

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Harvest (US) Holdings Inc.
GILES #1-19-3-2
NE/NE Sec.19.T3S, R2 W.
Duchesne County, UT

December, 2010

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December 2010
Decollement Consulting, Inc

Dennis Springer
Well site Geologist

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Well Data Summary

Well Name	Giles #1-19-3-2
Operator	Harvest (US) Holdings, Inc.
Surface Location	NE/NE Sec.19, T3S, R2W
API #	43-013-5042
Well Classification	Wildcat
Drilling Contractor	H & P Rig #319
Elevation-Ground level	5153.6
Kelly Bushing	5179
Spud Date	10/15/2010
TD Date	12/20/10
TD Depth	9753
Surface Casing	9 5/8" Sat @ 3165'
Production Csg	5 1/2" Sat @ 9642'
Hole Size	8 3/4
Sample Interval	3170' to 9753' TD
Gas Detection	3170' to 9753' TD
Open Hole Logs	GR, SP. Cal., Triple Combo, Sonic
Mud Type	Terra-Max
Well Status	Run Casing

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Formation Tops

Giles #1-19-3-2

Kelly Bushing 5179

Formation	Prognosis	Spl Top (md)	Spl Top (tvd)	Log Top (md)	Log (tvd)	Sub Sea
Uinta	Surface					
Green River 1		3436	3436	3460	3460	1719
Green River 2	4831	4834	4834	4900	4900	279
Smith	4951	4954	4954	5022	5022	157
Mahogeny Bench	5039	5050	5050	5110	5110	69
DJ	5432	5492	5492	5516	5516	-337
DJ1	5694	5750	5750	5766	5766	-587
Garden Gulch J Marker	5978	6006	6006	6048	6048	-869
Green River 3	6279	6335	6335	6350	6350	-1171
HI Marker	6440	6500	6500	6503	6503	-1324
I Marker	6799	6876	6876	6842	6842	-1663
K Marker (Douglas Creek)		7254	7254	7188	7188	-2009
Castle Peak	8005	8008	8008	8056	8056	-2877
Control Point 80	8100	8102	8102	8132	8132	-2953
Bar "F" Unconformity	8130	8132	8132	8162	8162	-2983
UB1	8177	8208	8208	8247	8247	-3068
Ute Land Butte CP 90	8364	8390	8390	8434	8434	-3255
Wasatch	8605	8650	8650	8697	8697	-3518
Red Beds	9103	9435	9435	9415	9415	-4236
CP190						
CP 200	Not Present					
CP210	Not Present					
Massive Red Beds	9308	9686	9686	9646	9646	-4467

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Formation Evaluation
Harvest (US) Holdings, Inc.
Giles 1-19-3-2

Decollement Consulting arrived on Helmerich & Payne Rig #319, Dec. 5, 2010. Total depth of 9753' was reached on December 20, 2010. Gas detection and lagged samples were caught under 3165' of 9 5/8" surface casing and were collected to total depth (9753'). Under surface we drilled 8 3/4" hole. Near total depth we began raising mud weight to lower gas background. We lost circulation and became differentially stuck at 7388'. Wireline free point was ran and pipe backed off. Wash pipe was run in the hole and fish was retrieved. Open hole E-logs (Triple-Combo and Sonic) were run from 9753' to surface. Five inch production casing was run after logging. Shows 1-8 were in fractured oil shale containing black asphaltic oil. Shows 9-10 were in the Douglas Creek sandstone with show 10 having brown stain, and blue-yellow streaming cut fluorescence. Logs indicate 20' of pay in the Douglas Creek with 13% average porosity and over 40 ohm resistivity. The Bar F sandstone contained 12 feet of possible pay with 18% average matrix porosity and over 60 ohms resistivity. Shows 13-15 were in the Wasatch Sandstone having 22' of gas show but no fluorescence. The Wasatch shows 18% average porosity and over 40 ohms resistivity. Open hole logs indicated a minimum of 152' of pay in the open hole with 11% average porosity and over 30 ohms resistivity. Shows from logs indicate a well that will 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 ¼	Hughes	PDC	7016796	6x11	2628
2	12 ¼	Reed	JL1658	TD51A	3x14	3166
3	8 ¾	Ulterra	MS1666	7351	6x11	3254
4	8 ¾	Ulterra	MS1666	5514	6x11	5256
5	8 ¾	Reed	E1100-B1	125545	6x11	6944
6	8 ¾	Hughes	Q506FX	7019922	5x12	8954
7RR6	8 ¾	Hughes	Q506FX	7019922	5x12	8985
8RR3	8 ¾	Ulterra	MS1666DM	7351	3x14 3x13	9753

BIT	FT	HRS	TOT HR	WT	RPM	PP	MUD WT	VIS	DEV
1	1424	36.3	36.3	25	130	2800	10.4	42	.25
2	538	25.75	62.05	35	140	2800	10.5	40	.8
3	88	6.75	68.80	20	100	2400	9.9	39	.8
4	2002	68.3	137.1	25	130	2800	9.8	42	2.2
5	1688	46	183.1	23	120	2200	10.1	44	2.8
6	2010	55.5	238.6	24	60/80	3000	10.8	44	1.5
7RR6	31	6	244.6	18	60/80	2900	11.1	53	1.5
8RR3	768	50	294.6	22	55/80	3200	11.8	40	1.5

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Daily Drilling Summary

Harvest (US) Holdings, Inc.

Giles #1-19-3-25

DATE	DEPTH	PROG	HRS	MUD	VIS	WL	PH	ACTIVITY
12/5/10	3166	0	0					Cement Surf @ 316
12/6/10	3166	72	6 ¼	9.8	36	21.8	8.0	Nipple Up, Test Bops, Drill
12/7/10	3238	736	18 ½	9.9	39	10.0	10.8	Trip for Bit, Drill
12/8/10	3974	786	23 ½	10.0	46	10.2	11.4	Drill
12/9/10	4760	453	23 ½	9.8	47	6.8	9.5	Drill
12/10/10	5213	558	16 ½	9.8	44	6.4	9.5	Trip for Bit, Drill
12/11/10	5771	696	22 ½	10.0	47	6.2	9.0	Drill, Wash & Ream Drag
12/12/10	6467	477	22	10.1	44	6.0	9.0	Drill, TOH
12/13/10	6944	528	12	10.1	40	6.0	9.0	Trip for Mudmotor, Bit, Drill
12/14/10	7472	880	21 ½	10.2	44	6.0	9.0	Drill, Repair Swivel
12/15/10	8352	602	21 ½	10.8	44	6.0	9.0	Drill, Circ Raise MW
12/16/10	8954	8	4 ½	11.0	53	6.0	9.1	Trip RR Bit 6 Drill
12/17/10	8962	92	8	11.1	52	6.0	9.1	Trip, Drill
12/18/10	9058	412	23	11.4	52	6.0	9.0	Drill, Rig Serv
12/19/10	9470	283	18 ½	11.8	40	6.0	8.5	Drill Inc MW Lost Circ Stuck
12/20/10	9753	0	0	11.7	40	6.0	8.5	Work Stuck Pipe
12/21/10	9753	0	0	11.7	40	6.0	8.5	Work Stuck Pipe
12/22/10	9753	0	0	11.7	40	6.0	8.5	Jar Stuck Pipe
12/23/10	9753	0	0	11.7	40	6.0	8.5	Wash over Trip
12/24/10	9753	0	0	11.7	37	7.2	8.5	TOH w/ fish TIH Cond
12/25/10	9753	0	0	11.7	40	6.2	8.5	E Log Trip
12/26/10	9753	0	0	11.7	40	7.0	8.5	Trip Run casing
12/27/10	9753	0	0	11.8	44	6.8	8.0	Run casing to 9642' cement

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OPERATOR		FIELD NAME		Well name/No.		Rig Name		R No.		QDM Job No.		Calculation Method: Minimum Curvature							
Harvest		Giles		Giles 1-19-3-2		H&P		319		02517-432-21		Proposed Azimuth:							
MWD OPERATOR		DR SUPERVISOR		COUNTY		STATE		Start Date		Depth Reference:									
Chris Wilson				Duchesne		Utah		05-Dec-10		Tie Into: MWD									
Dip A:		66.01		Mag Field:		0.52450		Mag Dec:		11.44		Grid Cor.:		Giles		Job Service:		Directional	
Mag Spacing Req.		Mag Spacing Actual		Mag Spacing Req.		Mag Spacing Actual		GREAT WHITE											
Below: 5		Below: 44		Above: 9		Above: 18													
Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (°/100')	Build Rate (°/100')	Walk Rate (°/100')						
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth									
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0						
1	100.00	0.25	348.60	100.00	100.00	0.21	0.21	N	0.04	0.22	348.6	0.2	0.3	348.6					
2	200.00	0.00	0.00	100.00	200.00	0.43	0.43	N	0.09	W	0.44	348.6	0.2	-0.3	-348.6				
3	300.00	0.00	0.00	100.00	300.00	0.43	0.43	N	0.09	W	0.44	348.6	0.0	0.0	0.0				
4	400.00	0.25	32.80	100.00	400.00	0.61	0.61	N	0.03	E	0.61	3.0	0.2	0.3	32.8				
5	500.00	0.00	0.00	100.00	500.00	0.79	0.79	N	0.15	E	0.81	10.7	0.2	-0.3	-32.8				
6	600.00	0.25	81.00	100.00	600.00	0.83	0.83	N	0.37	E	0.91	23.8	0.2	0.3	81.0				
7	700.00	0.25	126.00	100.00	700.00	0.73	0.73	N	0.76	E	1.06	45.9	0.2	0.0	45.0				
8	800.00	0.00	0.00	100.00	800.00	0.61	0.61	N	0.93	E	1.11	57.0	0.2	-0.3	-126.0				
9	900.00	0.00	0.00	100.00	900.00	0.61	0.61	N	0.93	E	1.11	57.0	0.0	0.0	0.0				
10	1000.00	0.00	0.00	100.00	1000.00	0.61	0.61	N	0.93	E	1.11	57.0	0.0	0.0	0.0				
11	1100.00	0.00	0.00	100.00	1100.00	0.61	0.61	N	0.93	E	1.11	57.0	0.0	0.0	0.0				
12	1200.00	0.25	291.40	100.00	1200.00	0.69	0.69	N	0.73	E	1.00	46.8	0.2	0.3	291.4				
13	1300.00	0.25	158.40	100.00	1300.00	0.56	0.56	N	0.61	E	0.83	47.2	0.5	0.0	-133.0				
14	1400.00	0.50	170.80	100.00	1399.99	-0.07	0.07	S	0.76	E	0.76	95.3	0.3	0.3	12.4				
15	1500.00	0.50	169.90	100.00	1499.99	-0.93	0.93	S	0.90	E	1.30	135.8	0.0	0.0	-0.9				
16	1600.00	0.50	172.90	100.00	1599.99	-1.79	1.79	S	1.03	E	2.07	150.0	0.0	0.0	3.0				
17	1700.00	0.50	177.00	100.00	1699.98	-2.66	2.66	S	1.11	E	2.89	157.3	0.0	0.0	4.1				
18	1800.00	0.50	166.10	100.00	1799.98	-3.52	3.52	S	1.24	E	3.73	160.6	0.1	0.0	-10.9				
19	1900.00	0.50	165.10	100.00	1899.97	-4.37	4.37	S	1.46	E	4.60	161.6	0.0	0.0	-1.0				
20	2000.00	0.50	185.20	100.00	1999.97	-5.22	5.22	S	1.53	E	5.44	163.7	0.2	0.0	20.1				
21	2100.00	0.25	158.30	100.00	2099.97	-5.86	5.86	S	1.57	E	6.07	165.0	0.3	-0.3	-26.9				
22	2200.00	0.50	164.30	100.00	2199.97	-6.48	6.48	S	1.77	E	6.72	164.7	0.3	0.3	6.0				
23	2300.00	0.25	195.60	100.00	2299.96	-7.11	7.11	S	1.83	E	7.34	165.6	0.3	-0.3	31.3				



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24	2400.00	0.25	171.00	100.00	2390.96	-7.54	7.54	S	1.80	E	7.75	166.5	0.1	0.0	-24.6
25	2500.00	0.25	161.40	100.00	2490.96	-7.96	7.96	S	1.91	E	8.19	166.5	0.0	0.0	-9.6
26	2600.00	0.25	194.80	100.00	2590.96	-8.38	8.38	S	1.92	E	8.60	167.1	0.1	0.0	33.4
27	2700.00	0.25	149.20	100.00	2690.96	-8.78	8.78	S	1.98	E	9.00	167.3	0.2	0.0	-45.6
28	2800.00	0.25	162.60	100.00	2790.96	-9.17	9.17	S	2.15	E	9.42	166.8	0.1	0.0	13.4
29	2900.00	0.25	159.10	100.00	2890.96	-9.58	9.58	S	2.30	E	9.86	166.5	0.0	0.0	-3.5
30	3000.00	0.00	0.00	100.00	2990.96	-9.79	9.79	S	2.38	E	10.07	166.4	0.2	-0.3	-159.1
31	3100.00	0.00	0.00	100.00	3090.96	-9.79	9.79	S	2.38	E	10.07	166.4	0.0	0.0	0.0
32	3214.00	0.20	252.60	114.00	3213.96	-9.85	9.85	S	2.19	E	10.09	167.5	0.2	0.2	221.6
33	3337.00	0.40	207.20	123.00	3336.96	-10.29	10.29	S	1.78	E	10.45	170.2	0.2	0.2	-36.9
34	3494.00	0.80	192.60	157.00	3493.95	-11.85	11.85	S	1.29	E	11.92	173.8	0.3	0.3	-9.3
35	3682.00	1.30	182.90	188.00	3681.91	-15.26	15.26	S	0.90	E	15.29	176.6	0.3	0.3	-5.2
36	3871.00	1.40	178.60	189.00	3870.86	-19.71	19.71	S	0.85	E	19.73	177.5	0.1	0.1	-2.3
37	4059.00	1.50	250.60	188.00	4058.82	-22.82	22.82	S	1.42	W	22.87	183.6	0.9	0.1	38.3
38	4248.00	1.50	250.60	189.00	4247.75	-24.47	24.47	S	6.08	W	25.21	194.0	0.0	0.0	0.0
39	4436.00	1.50	192.80	188.00	4435.70	-27.69	27.69	S	8.95	W	29.10	197.9	0.8	0.0	-30.7
40	4625.00	1.60	196.80	189.00	4624.63	-32.62	32.62	S	10.26	W	34.20	197.5	0.1	0.1	2.1
41	4814.00	2.00	208.30	189.00	4813.53	-38.05	38.05	S	12.59	W	40.08	198.3	0.3	0.2	6.1
42	5002.00	2.00	187.10	188.00	5001.42	-44.20	44.20	S	14.55	W	46.53	198.2	0.4	0.0	-11.3
43	5191.00	2.20	183.00	189.00	5190.30	-51.09	51.09	S	15.14	W	53.29	196.5	0.1	0.1	-2.2
44	5379.00	2.10	187.80	188.00	5378.16	-58.11	58.11	S	15.80	W	60.22	195.2	0.1	-0.1	2.6
45	5568.00	2.10	178.00	189.00	5567.04	-65.00	65.00	S	16.15	W	66.98	194.0	0.2	0.0	-5.2
46	5757.00	2.10	184.00	189.00	5755.91	-71.92	71.92	S	16.27	W	73.73	192.7	0.1	0.0	3.2
47	5945.00	2.20	183.00	188.00	5943.78	-78.95	78.95	S	16.70	W	80.70	191.9	0.1	0.1	-0.5
48	6134.00	2.30	181.00	189.00	6132.63	-86.37	86.37	S	16.96	W	88.02	191.1	0.1	0.1	-1.1
49	6322.00	2.40	181.90	188.00	6320.47	-94.08	94.08	S	17.15	W	95.63	190.3	0.1	0.1	0.5
50	6511.00	2.50	175.80	189.00	6509.30	-102.14	102.14	S	16.98	W	103.54	189.4	0.1	0.1	-3.2
51	6699.00	2.60	176.40	188.00	6697.11	-110.49	110.49	S	16.41	W	111.70	188.4	0.1	0.1	0.3
52	6898.00	2.90	171.30	199.00	6895.89	-119.97	119.97	S	15.37	W	120.95	187.3	0.2	0.2	-2.6
53	6982.00	2.30	166.00	84.00	6979.80	-123.70	123.70	S	14.64	W	124.57	186.7	0.8	-0.7	-6.3
54	7076.00	1.40	165.20	94.00	7073.75	-126.64	126.64	S	13.89	W	127.40	186.3	1.0	-1.0	-0.9
55	7170.00	2.00	155.60	94.00	7167.71	-129.25	129.25	S	12.92	W	129.89	185.7	0.7	0.6	-10.2
56	7264.00	1.90	166.10	94.00	7261.65	-132.25	132.25	S	11.87	W	132.79	185.1	0.4	-0.1	11.2
57	7358.00	2.00	176.10	94.00	7355.60	-135.40	135.40	S	11.38	W	135.66	184.8	0.4	0.1	10.6
58	7453.00	2.20	182.10	95.00	7450.54	-138.88	138.88	S	11.34	W	139.34	184.7	0.3	0.2	6.3

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59	7547.00	2.30	176.60	94.00	7544.46	-142.57	142.57	S	11.29	W	143.01	184.5	0.3	0.1	-5.9
60	7642.00	2.10	178.10	95.00	7639.39	-146.21	146.21	S	11.12	W	146.63	184.3	0.2	-0.2	1.6
61	7736.00	0.70	222.40	94.00	7733.36	-148.35	148.35	S	11.45	W	148.79	184.4	1.8	-1.5	-47.1
62	7830.00	1.60	240.70	94.00	7827.34	-149.42	149.42	S	12.98	W	149.98	185.0	1.0	1.0	19.5
63	7924.00	1.70	240.00	94.00	7921.31	-150.76	150.76	S	15.33	W	151.54	185.8	0.1	0.1	-0.7
64	8019.00	1.90	252.80	95.00	8016.26	-151.93	151.93	S	18.06	W	153.00	186.8	0.5	0.2	13.5
65	8113.00	1.70	242.10	94.00	8110.21	-153.04	153.04	S	20.78	W	154.45	187.7	0.4	-0.2	-11.4
66	8208.00	1.40	227.20	95.00	8205.18	-154.49	154.49	S	22.87	W	156.17	188.4	0.5	-0.3	-15.7
67	8302.00	1.30	214.30	94.00	8299.15	-156.15	156.15	S	24.32	W	158.03	188.9	0.3	-0.1	-13.7
68	8397.00	1.30	196.70	95.00	8394.13	-158.07	158.07	S	25.24	W	160.06	189.1	0.4	0.0	-18.5
69	8491.00	1.40	184.40	94.00	8488.10	-160.24	160.24	S	25.63	W	162.28	189.1	0.3	0.1	-13.1
70	8585.00	1.30	186.40	94.00	8582.08	-162.44	162.44	S	25.84	W	164.49	189.0	0.1	-0.1	2.1
71	8679.00	1.50	178.10	94.00	8676.05	-164.73	164.73	S	25.91	W	166.76	188.9	0.3	0.2	-8.8
72	8774.00	1.50	178.30	95.00	8771.02	-167.22	167.22	S	25.84	W	169.20	188.8	0.0	0.0	0.2
73	8868.00	1.50	170.90	94.00	8864.98	-169.66	169.66	S	25.61	W	171.59	188.6	0.2	0.0	-7.9
74	8962.00	1.50	170.20	94.00	8958.95	-172.09	172.09	S	25.20	W	173.93	188.3	0.0	0.0	-0.7
75	9056.00	1.50	170.60	94.00	9052.92	-174.52	174.52	S	24.79	W	176.27	188.1	0.0	0.0	0.4
76	9151.00	1.50	173.70	95.00	9147.89	-176.98	176.98	S	24.45	W	178.66	187.9	0.1	0.0	3.3
77	9245.00	1.60	173.50	94.00	9241.85	-179.51	179.51	S	24.17	W	181.13	187.7	0.1	0.1	-0.2
78	9340.00	1.60	175.40	95.00	9336.82	-182.15	182.15	S	23.91	W	183.71	187.5	0.1	0.0	2.0
79	9434.00	1.90	172.70	94.00	9430.77	-185.00	185.00	S	23.61	W	186.50	187.3	0.3	0.3	-2.9
80	9528.00	2.00	174.10	94.00	9524.72	-188.18	188.18	S	23.24	W	189.61	187.0	0.1	0.1	1.5
81	9623.00	1.50	175.10	95.00	9619.67	-191.07	191.07	S	22.97	W	192.44	186.9	0.5	-0.5	1.1
82	9687.00	1.60	175.90	64.00	9683.65	-192.79	192.79	S	22.83	W	194.14	186.8	0.2	0.2	1.3
83															
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Master MWD Paperwork Workbook

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Sample Descriptions

Harvest (US) Holdings, Inc.
Giles #1-19-3-2

- 3170-3200 **SHALE-90%** -Gray brown gray, blocky to platy, earthy, firm, slightly calcareous
- SANDSTONE-10%** White, light gray salt and pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, tight, calcareous cement, firm, no show
- 3200-30 **SHALE-100%** -Gray brown gray, blocky to platy, earthy, firm, slightly calcareous
- 3230-60 **SHALE-60%** Light to medium brown (90%) gray (10%) blocky to platy, earthy, firm, calcareous to limy
- LIMESTONE-40%** tan light brown, cryptocrystalline, chalky, argillaceous, mudstone, soft to firm, no show
- 3260-90 **SHALE-70%** Light to medium gray (80%) brown(20%), blocky to platy, earthy, soft to firm, calcareous
- SANDSTONE-30%** Gray white salt & pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, calcareous cement, tight, firm, no show
- 3290-3320 **SHALE-80%** Light to medium gray (90%) brown (10%), blocky to platy, earthy, soft to firm, calcareous
- LIMESTONE-10%** tan light brown, cryptocrystalline, chalky, argillaceous, mudstone, soft to firm, no show
- SANDSTONE-10%** Gray white salt & pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, calcareous cement, tight, firm, no show

- 3320-50** **SHALE-40%** Light to medium gray (50%) brown (50%), blocky to platy, earthy, soft to firm, calcareous to limy
- LIMESTONE-10%** tan light brown, cryptocrystalline, chalky, argillaceous, mudstone, soft to firm, no show
- SANDSTONE-50%** Gray white salt & pepper, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, white clay matrix, calcareous cement, tight, firm, no show, trace black asphaltic oil in sample
- 3350-80** **SHALE-60%** Light to medium brown (80%) light to medium gray, blocky to platy, earthy, soft to firm, limy, slow weak residual yellow cut
- LIMESTONE-40%** Tan brown, cryptocrystalline, argillaceous, firm, slow weak residual yellow cut
- 3380-3410** **SHALE-100%** Light to medium gray (90%) brown (10%) blocky to platy, earthy, silty, firm, slightly calcareous
- 3410-40** **SHALE-100%** Light to medium brown (100%), blocky, earthy, soft, calcareous
- 3440-70** **SHALE-100%** Light to medium brown (90%) light gray (10%), blocky, earthy, soft, calcareous
- 3470-3500** **SHALE-100%** Light to medium brown (80%) light gray (20%), blocky, earthy, soft, calcareous
- 3500-30** **SHALE-100%** Light to medium brown (80%) light gray (20%), blocky to platy, earthy, soft, calcareous, trace calcite filled fractures, trace pyrite, slow streaming blue yellow cut
- 3530-60** **SHALE-100%** Light to medium brown (70%) gray brown gray (30%), blocky to platy, earthy, soft, limy, trace calcite filled fractures, slow streaming blue yellow cut

- 3560-90** SHALE-100% Medium to dark brown (50%) gray brown (50%), blocky to platy, earthy, soft, limy, calcite filled fractures, slow streaming blue yellow cut
- 3590-3620** SHALE-100% Medium to dark brown (70%) gray brown (30%), blocky to platy, earthy, soft, limy, calcite filled fractures, slow streaming blue yellow cut
- 3620-50** SHALE-100% Medium to dark brown (80%) gray brown gray (20%), blocky to platy, earthy, soft, limy, decreasing calcite filled fractures, slow streaming blue yellow cut
- 3650-80** SHALE-100% Medium to dark brown (80%) gray brown gray (20%), blocky to platy, earthy, soft, limy, abundant calcite filled fractures, slow streaming blue yellow cut
- 3680-3710** SHALE-100% Medium to dark brown (80%) gray brown gray (20%), blocky to platy, earthy, soft, limy, abundant calcite fill, slow streaming blue yellow cut
- 3710-40** SHALE-100% Light to medium brown (70%) gray brown gray (30%), blocky to platy, earthy, soft, limy, decreasing calcite fill, slow streaming blue yellow cut
- 3740-70** SHALE-100% Medium to dark brown (90%) gray brown gray (10%), blocky to platy, earthy, soft, limy, calcite fracture fill, slow streaming blue yellow cut
- 3770-3800** SHALE-100% Light to dark brown (100%), blocky to platy, earthy, soft, limy, calcite filled fractures, slow streaming blue yellow cut
- 3800-30** SHALE-100% Light to dark brown (100%), blocky to platy, earthy, soft, limy, calcite filled fractures, slow streaming blue yellow cut
- 3830-60** SHALE-100% Light to dark brown (100%), blocky to platy, earthy, soft, limy, slow streaming blue yellow cut

- 3860-90** SHALE-100% Light to dark brown (100%), blocky to platy, earthy, soft, limy, slow streaming blue yellow cut
- 3890-3920** SHALE-100% Light to dark brown (30%) gray brown gray (70%), blocky, earthy, soft, limy, no cut
- 3920-50** SHALE-100% Light to dark brown (20%) gray brown gray (80%), blocky, earthy, soft, limy, no cut
- 3950-80** SHALE-100% Light to dark brown (20%) gray brown gray (80%), blocky, earthy, soft, limy, no cut
- 3980-4010** SHALE-70% Light to dark brown (90%) gray brown gray (10%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-30% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4010-40** SHALE-80% Light to dark brown (90%) gray brown gray (10%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-20% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4040-70** SHALE-70% Light to dark brown (90%) gray brown gray (10%), blocky, earthy, soft, limy, trace pyrite, slow streaming blue yellow cut
- LIMESTONE-30% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4070-4100** SHALE-60% Light to dark brown (90%) gray brown gray (10%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-40% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut

- 4100-30** **SHALE-60%** Light to dark brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-40%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4130-60** **SHALE-70%** Light to dark brown (100%), blocky, earthy, soft, limy, trace calcite filled fractures, slow streaming blue yellow cut
- LIMESTONE-30%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4160-90** **SHALE-80%** Light to dark brown (100%), blocky, earthy, soft, limy, trace calcite filled fractures with pyrite, slow streaming blue yellow cut
- LIMESTONE-20%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4190-4220** **SHALE-80%** Light to dark brown gray brown (100%), blocky, earthy, soft, limy, trace calc pyrite, slow streaming blue yellow cut
- LIMESTONE-20%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4190-4220** **SHALE-80%** Light to dark brown gray brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-20%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4220-50** **SHALE-100%** Light to dark brown gray brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- 4250-80** **SHALE-80%** Light to dark brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- LIMESTONE-20%** Tan light brown, chalky, argillaceous, mudstone, very soft, no cut

- 4280-4310** SHALE-90% Light to dark brown gray brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
LIMESTONE-10% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4310-40** SHALE-100% Light to dark brown gray brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- 4340-70** SHALE-80% Light to dark brown gray brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
LIMESTONE-20% Tan light brown, chalky, argillaceous, mudstone, very soft, no cut
- 4370-4400** SHALE-100% Medium to dark brown (100%), blocky, earthy, soft, limy, slow streaming blue yellow cut
- 4400-30** SHALE-100% Light to medium gray (90%) medium to dark brown (10%), blocky to platy, earthy, firm, slightly calcareous, no show
- 4430-60** SHALE-10% Light to medium gray (90%) medium to dark brown (10%), blocky to platy, earthy, firm, slightly calcareous, no show
LIMESTONE-90% White tan light gray, cryptocrystalline to microcrystalline, arenaceous, firm, pale yellow mineral fluorescence, no show
- 4460-90** SHALE-90% Dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, limy, slow streaming blue yellow cut
LIMESTONE-10% White tan light gray, cryptocrystalline to microcrystalline, arenaceous, firm, pale yellow mineral fluorescence, no show
- 4490-4520** SHALE-100% Dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, limy, slow streaming blue yellow cut

- 4520-50** SHALE-100% Dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, limy, trace calcite filled fractures, slow streaming blue yellow cut
- 4550-80** SHALE-100% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, abundant calcite filled fractures, slow streaming blue yellow cut
- 4580-4610** SHALE-100% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, abundant calcite filled fractures, slow streaming blue yellow cut
- 4610-40** SHALE-100% Medium to dark brown dark gray brown (100%), blocky, earthy, soft to firm, limy, occasional calcite filled fractures, slow streaming blue yellow cut
- 4640-70** SHALE-100% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, occasional calcite filled fractures, slow streaming blue yellow cut
- 4670-4700** SHALE-100% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, occasional calcite filled fractures, slow streaming blue yellow cut
- 4700-30** SHALE-80% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, trace calcite filled fractures, slow streaming blue yellow cut
- LIMESTONE-20% Dark brown dark gray brown, argillaceous, mudstone, soft, slow streaming blue yellow cut
- 4730-60** SHALE-100% Medium to dark brown dark gray brown (100%), blocky, earthy, soft to firm, limy, slow streaming blue yellow cut
- 4760-90** SHALE-70% Medium to dark brown (100%), blocky, earthy, soft to firm, limy, occasional calcite filled fractures, slow streaming blue yellow cut
- LIMESTONE-30% Tan light gray, argillaceous, mudstone, v soft, no show

- 4790-4820** **SHALE-70%** Medium to dark brown (100%), blocky, earthy, soft to firm, limy, occasional calcite filled fractures, slow streaming blue yellow cut
- LIMESTONE-30%** Tan light gray, argillaceous, mudstone, v soft, no show
- 4820-50** **SHALE-90%** Dark brown dark gray brown black (100%), blocky, earthy, carbonaceous, soft, limy, immediate streaming blue yellow cut, black asphalt balls over shaker
- LIMESTONE-10%** Gray brown light gray, cryptocrystalline, argillaceous, soft-firm, no show
- 4850-80** **SHALE-100%** Dark brown black (100%), blocky, earthy, carbonaceous, soft, limy, immediate streaming blue yellow cut, black asphalt balls over shaker
- 4880-4910** **SHALE-40%** Dark brown dark gray brown black (100%), blocky, earthy, carbonaceous, soft, limy, immediate streaming blue yellow cut
- LIMESTONE-10%** Gray brown gray, microcrystalline in part, argillaceous, mudstone in part, soft-firm, no show
- 4910-40** **SHALE-40%** Medium to dark brown (100%), blocky, earthy, carbonaceous, soft, limy, immediate streaming blue yellow cut
- LIMESTONE-60%** Gray brown gray, microcrystalline in part, argillaceous, mudstone in part, soft-firm, no show
- 4940-70** **SHALE-90%** Medium to dark brown (100%), blocky, earthy, carbonaceous, soft, limy, slow streaming blue yellow cut
- LIMESTONE-10%** Gray brown gray, microcrystalline in part, argillaceous, mudstone in part, soft-firm, no show
- 4970-5000** **SHALE-100%** Medium to dark brown (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, immediate streaming blue yellow cut

- 5000-30** SHALE-100% Dark brown dark gray brown (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, immediate streaming blue yellow cut
- 5030-60** SHALE-100% Dark brown dark gray brown (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, immediate streaming blue yellow cut
- 5060-90** SHALE-100% Dark brown dark gray brown black (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5090-5120** SHALE-100% Dark brown dark gray brown black (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5120-50** SHALE-100% Dark brown black (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5150-80** SHALE-100% Dark brown black (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5180-5210** SHALE-100% Dark brown black (100%), blocky, earthy, carbonaceous, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5210-40** SHALE-100% Medium to dark brown black (100%), blocky, earthy, carbonaceous partings, soft, limy, trace calcite fracture fill, slow streaming blue yellow cut
- 5240-70** SHALE-100% Medium to dark brown black (100%), blocky, earthy, carbonaceous partings, soft, limy, trace calcite fracture fill, slow milky blue yellow cut

- 5270-5300** **SILTSTONE-20%** Light to medium gray, arenaceous, argillaceous, firm, slightly calcareous, no show
- SANDSTONE-80%** Light gray salt & pepper, very fine (lower) to very fine (upper), sub rounded, well sorted, clay matrix, carbonaceous inclusions, silty in part, tight, slightly calcareous cement, no show
- 5300-30** **SHALE-30%** Medium to dark gray (70%) medium to dark brown (30%) blocky to platy, earthy, silty, firm, dolomitic
- SILTSTONE-40%** Medium to dark gray, arenaceous, argillaceous, micaceous, firm, dolomitic
- SANDSTONE-30%** Light gray salt & pepper, very fine (lower) to very fine (upper), sub rounded, well sorted, clay matrix, carbonaceous inclusions, silty in part, tight, slightly calcareous cement, no show
- 5330-60** **SHALE-80%** Light to medium gray brown light brown (100%) blocky to platy, earthy, soft, limy, milky blue yellow cut
- LIMESTONE-20%** Light to medium brown, argillaceous, mudstone, soft, milky blue yellow cut
- 5360-90** **SHALE-80%** Medium to dark brown (60%) medium to dark gray (40%) blocky to platy, earthy, soft, limy, milky blue yellow cut
- LIMESTONE-20%** Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut
- 5390-5420** **SHALE-90%** Medium to dark brown (70%) medium to dark gray (30%) blocky to platy, earthy to sub waxy, soft, limy, slow weak streaming blue yellow cut
- LIMESTONE-10%** Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut
- 5420-50** **SHALE-90%** Medium to dark brown (70%) medium to dark gray (30%) blocky to platy, earthy, soft, limy, weak slow streaming blue yellow cut
- LIMESTONE-10%** Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut

- 5450-80** **SHALE-90% Dark brown (70%) dark gray (30%), blocky to platy, earthy, soft, limy, weak milky blue yellow cut**
- LIMESTONE-10% Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut**
- 5480-5510** **SHALE-90% Medium brown gray brown (60%) medium to dark gray (40%) blocky to platy, earthy, soft, limy, weak slow streaming blue yellow cut**
- LIMESTONE-10% Light to medium brown , chalky, argillaceous, mudstone, soft, milky blue yellow cut**
- 5510-40** **SHALE-30% Medium to dark brown (70%) medium to dark gray (30%) blocky to platy, earthy, soft, limy, weak slow streaming blue yellow cut**
- LIMESTONE-70% Light brown tan, cryptocrystalline, argillaceous, mudstone, soft, milky blue yellow cut**
- 5540-70** **SHALE-90% Gray gray brown (90%) brown (10%), blocky to platy, earthy, soft, limy, weak milky blue yellow cut**
- LIMESTONE-10% Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut**
- 5570-5600** **SHALE-90% Gray (40%) brown gray brown (60%), blocky to platy, earthy, soft, limy, trace calcite filled fractures, weak slow streaming blue yellow cut**
- LIMESTONE-10% Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut**
- 5600-30** **SHALE-90% Gray (50%) brown gray brown (50%), blocky to platy, earthy, soft, limy, weak milky blue yellow cut**
- LIMESTONE-10% Light brown tan, chalky, argillaceous, mudstone, soft, milky blue yellow cut**

- 5630-60** **SHALE-80% Gray (50%) brown gray brown (50%), blocky to platy, earthy, trace mica, soft, limy, slow streaming blue yellow cut**
- LIMESTONE-20% Light brown tan, cryptocrystalline, argillaceous, mudstone, trace pyrite, soft, slow streaming blue yellow cut**
- 5660-90** **SHALE-30% Gray (50%) brown gray brown (50%), blocky to platy, earthy, soft, limy, weak milky blue yellow cut**
- LIMESTONE-70% Tan light gray off white, cryptocrystalline-microcrystalline, argillaceous, arenaceous in part, trace pyrite, soft to firm, dolomitic, weak milky blue yellow cut**
- 5690-5720** **SHALE-70% Light to medium brown (80%) gray (20%), blocky to platy, earthy, soft, limy, slow streaming blue yellow cut**
- LIMESTONE-30% Tan light gray off white, cryptocrystalline-microcrystalline, argillaceous, arenaceous in part, trace pyrite, soft to firm, dolomitic, weak milky blue yellow cut**
- 5720-50** **SHALE-80% Light to medium brown (80%) gray (20%), blocky to platy, earthy, soft, limy, slow streaming blue yellow cut**
- LIMESTONE-20% Tan light gray off white, cryptocrystalline-microcrystalline, argillaceous, soft to firm, weak milky blue yellow cut**
- 5750-80** **SHALE-90% Light to medium gray (80%) brown gray brown (20%), blocky to platy, earthy, soft to firm, limy, no cut**
- LIMESTONE-10% Brown tan, cryptocrystalline, argillaceous, mudstone, soft to firm, no show**
- 5780-5810** **SHALE-90% Gray (60%) medium to dark brown gray brown (40%), blocky to platy, earthy, soft to firm, limy, no cut**
- LIMESTONE-10% Brown tan, cryptocrystalline, argillaceous, mudstone, soft to firm, no show**

- 5810-40** **SHALE-20%** Light to medium gray (60%) brown gray brown (40%), blocky to platy, earthy, soft to firm, limy, no cut
- LIMESTONE-80%** Light brown tan, cryptocrystalline to microcrystalline, slightly argillaceous, trace calcite filled fractures, soft to firm, no show
- 5840-70** **SHALE-90%** Light to medium gray (90%) brown (10%), blocky to platy, earthy, silty, soft to firm, limy, no cut
- LIMESTONE-10%** Light brown tan, cryptocrystalline to microcrystalline, slightly argillaceous, trace calcite filled fractures, soft to firm, no show
- 5870-5900** **SHALE-100%** Medium to dark gray (40%) medium to dark brown (60%), blocky to platy, earthy, carbonaceous in part, soft to firm, limy, milky blue yellow cut
- 5900-30** **SHALE-20%** Medium to dark gray (40%) medium to dark brown (60%), blocky to platy, earthy, carbonaceous in part, soft to firm, limy, milky blue yellow cut
- LIMESTONE-80%** Tan light brown, cryptocrystalline to microcrystalline, slightly argillaceous, soft to firm, slow streaming blue yellow cut
- 5930-60** **SHALE-60%** Medium to dark gray (70%) medium to dark brown (30%), blocky to platy, earthy, carbonaceous in part, soft to firm, limy, no cut
- LIMESTONE-40%** Tan light brown, cryptocrystalline to microcrystalline, slightly argillaceous, soft to firm, no cut
- 5960-90** **SHALE-30%** Medium to dark gray (70%) medium to dark brown (30%), blocky to platy, earthy, carbonaceous in part, soft to firm, limy, no cut
- SANDSTONE-20%** White tan, very fine (lower) to very fine (upper) grained, sub angular, well sorted, white clay matrix, tight, friable, calcareous cement, slow streaming blue yellow cut
- LIMESTONE-50%** Tan brown, cryptocrystalline to microcrystalline, arenaceous, silty in part, soft to firm, slow streaming blue yellow cut

- 5990-6020** SHALE-80% Medium to dark gray (90%) medium to dark brown (10%), blocky to platy, earthy to sub waxy, soft to firm, limy, weak milky blue yellow cut
- LIMESTONE-20% Tan brown, cryptocrystalline to microcrystalline, arenaceous, silty in part, soft to firm, slow streaming blue yellow cut
- 6020-50** SHALE-100% Medium to dark gray (60%) medium to dark brown (40%), blocky to platy, earthy to sub waxy, soft to firm, limy, streaming blue yellow cut
- 6050-80** SHALE-100% Medium to dark gray gray brown (100%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- 6080-6110** SHALE-70% Medium to dark gray gray brown (100%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- LIMESTONE-30% Brown tan, cryptocrystalline to microcrystalline, argillaceous in part, firm, no show
- 6110-40** SHALE-90% Medium to dark gray gray brown (80%) dark brown (20%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- LIMESTONE-10% Brown tan, cryptocrystalline to microcrystalline, argillaceous in part, firm, no show
- 6140-70** SHALE-90% Medium to dark gray black (60%) dark brown (40%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- LIMESTONE-10% Brown tan, cryptocrystalline to microcrystalline, argillaceous in part, firm, no show
- 6170-6200** SHALE-10% Medium to dark gray black (60%) dark brown (40%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- LIMESTONE-90% Tan light gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show

- 6200-30** **SHALE-90%** Medium to dark gray (60%) medium to dark brown (40%), blocky to platy, earthy, firm, limy, streaming blue yellow cut
- LIMESTONE-10%** Tan light gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6230-60** **SHALE-100%** Light to medium gray (100%), blocky to platy, earthy to sub waxy, soft, limy, no show
- 6260-90** **SHALE-100%** Light to medium gray (80%) light to medium brown (20%) , blocky to platy, earthy, soft, limy, no show
- 6290-6320** **SHALE-30%** Light to medium gray (80%) light to medium brown (20%) , blocky to platy, earthy, soft, limy, no show
- SILTSTONE-30%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-40%** White tan, very fine (lower) grained, sub angular, well sorted, white clay matrix, tight, firm, calcareous cement, weak milky blue yellow cut
- 6320-50** **SHALE-100%** Light to medium brown (60%) light to medium gray (40%), blocky to platy, earthy, soft, limy, slow milky blue yellow cut
- 6350-80** **SHALE-100%** Light to medium brown (60%) light to medium gray (40%), blocky to platy, earthy, soft, limy, slow milky blue yellow cut
- 6380-6410** **SHALE-20%** Light blue green light gray (100%), platy, earthy, soft, slightly calcareous, no show
- LIMESTONE-80%** Tan light brown, cryptocrystalline to microcrystalline, predominately clean, firm, no show
- 6410-40** **SHALE-10%** Light blue green light gray (100%), platy, earthy, soft, slightly calcareous, no show
- LIMESTONE-90%** Tan light brown, cryptocrystalline to microcrystalline, predominately clean, firm, no show

- 6440-70** **SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-70%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, tight, firm, calcareous cement, no show
- LIMESTONE-10%** Tan light brown, cryptocrystalline to microcrystalline, predominately clean, firm, no show
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- 6470-6500** **SHALE-100%** Dark gray brown dark brown black (100%), blocky, earthy, carbonaceous partings, soft, weak milky blue yellow cut
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- 6500-30** **SHALE-70%** Light brown light gray brown (100%), blocky to platy, earthy, soft, limy, slow streaming blue white cut
- LIMESTONE-30%** Light gray brown tan, cryptocrystalline, chalky in part, argillaceous, soft, slow streaming blue white cut
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- 6530-60** **SHALE-40%** Light brown light gray brown (100%), blocky to platy, earthy, soft, limy, slow streaming blue white cut
- LIMESTONE-60%** Light gray brown light brown, cryptocrystalline, chalky in part, argillaceous, soft, immediate streaming blue white cut
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- 6560-90** **SHALE-70%** Light to medium gray (80%) light brown (20%) , blocky, earthy to sub waxy, firm, limy, no cut
- LIMESTONE-30%** Light gray, cryptocrystalline to microcrystalline, argillaceous, firm, no show
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- 6590-6620** **SHALE-70%** Light to medium gray (80%) light brown (20%), blocky, earthy to sub waxy, firm, limy, no cut
- LIMESTONE-30%** Light gray, cryptocrystalline to microcrystalline, argillaceous, firm, no show

- 6620-50** **SHALE-40%** Light gray brown light brown (80%) gray (20%), blocky, earthy to sub waxy, firm, limy, no cut
- LIMESTONE-60%** Light gray brown brown, cryptocrystalline to microcrystalline, argillaceous, chalky in part, soft to firm, immediate streaming blue white cut
- 6650-80** **SHALE-30%** Light gray brown light brown (60%) gray (40%), blocky, earthy to sub waxy, firm, limy, no cut
- SANDSTONE-20%** Light gray white tan, very fine (lower) grained, sub rounded, well sorted, clay matrix, tight, very calcareous cement, no show
- LIMESTONE-50%** Light gray brown brown, cryptocrystalline to microcrystalline, argillaceous, chalky in part, soft to firm, no show
- 6680-6710** **SHALE-50%** Light gray brown light brown (40%) medium to dark gray (60%), blocky, earthy to sub waxy, firm, limy, no cut
- SANDSTONE-30%** Light gray white tan, very fine (lower) grained, sub rounded, well sorted, clay matrix, tight, very calcareous cement, no show
- LIMESTONE-20%** Light gray brown brown, cryptocrystalline to microcrystalline, argillaceous, chalky in part, soft to firm, no show
- 6710-40** **SHALE-70%** Medium to dark gray black (100%) blocky to platy, earthy, silty in part, limy, soft to firm, trace calcite filled fractures, no show
- LS-30%** Medium to dark gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6740-70** **SHALE-80%** Light to medium gray gray brown (100%) blocky to platy, earthy, limy, soft to firm, no show
- LS-30%** Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show

- 6770-6800** SHALE-80% Light to medium gray (80%) medium to dark brown (20%) blocky to platy, earthy, limy, soft to firm, no show
- LS-20% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6800-30** SHALE-80% Light to medium gray (80%) medium to dark brown (20%) blocky to platy, earthy, limy, soft to firm, no show
- LS-20% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6830-60** SHALE-70% Medium to dark gray gray brown (100%),blocky to platy, earthy, limy, soft to firm, no show
- LS-30% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6860-90** SHALE-80% Medium to dark gray gray brown (100%),blocky to platy, earthy, limy, soft to firm, no show
- LS-20% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6890-6920** SHALE-90% Medium to dark gray gray brown (100%),blocky to platy, earthy, limy, soft to firm, no show
- LS-10% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
- 6920-50** SHALE-90% Light to medium gray (100%),blocky to platy, earthy, limy, soft to firm, no show
- SS-10% White light gray, very fine (lower) to very fine (upper) grained, sub angular, w sorted, clay matrix, tight, calcareous cement, no show
- 6950-80** SHALE-80% Light to medium gray gray brown (100%),blocky to platy, earthy, limy, soft to firm, no show
- LS-20% Light to medium gray gray brown, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show

- 6980-7010** **SHALE-70%** Light to dark gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- LS-30%** Gray brown brown, microcrystalline in part, chalky in part, mudstone, argillaceous, soft to firm, no show
- 7010-40** **SHALE-60%** Light to dark gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light to medium gray, arenaceous, argillaceous, firm, limy, no show
- LIMESTONE-20%** Light gray light gray brown, predominately chalky, occasional microcrystalline, argillaceous, mudstone, very soft to firm, no show
- 7040-70** **SHALE-70%** Light to dark gray black (100%), blocky to platy, earthy, carbonaceous partings, trace calcite filled fractures, limy, soft to firm, no show
- LIMESTONE-30%** Light gray light gray brown, predominately chalky, occasional microcrystalline, argillaceous, mudstone, very soft to firm, no show
- 7070-7100** **SHALE-80%** Light to dark gray black (100%), blocky to platy, earthy, carbonaceous partings, trace calcite filled fractures, limy, soft to firm, no show
- LIMESTONE-20%** Light gray gray brown, predominately chalky, occasional microcrystalline, argillaceous, mudstone, very soft to firm, no show
- 7100-30** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy, trace hairline calcite filled fractures, limy, soft to firm, no show
- LIMESTONE-20%** Light gray gray brown, predominately chalky, occasional microcrystalline, argillaceous, mudstone, very soft to firm, no show

- 7130-60** **SHALE-30%** Light to dark gray black (100%), blocky to platy, earthy, carbonaceous partings, trace calcite filled fractures, limy, soft to firm, no show
- LIMESTONE-70%** Dark gray brown dark brown, predominately chalky, argillaceous, mudstone, soft, slow streaming blue yellow cut
- 7160-90** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy to sub waxy, limy, soft to firm, no show
- LIMESTONE-20%** Dark gray brown dark brown, predominately chalky, argillaceous, mudstone, soft, weak residual blue yellow cut
- 7190-7220** **SHALE-70%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- LIMESTONE-30%** Light to dark gray, predominately chalky, occasional microcrystalline, argillaceous, mudstone, soft to firm, no show
- 7220-50** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- LIMESTONE-20%** Light to dark gray, predominately chalky, occasional microcrystalline, argillaceous, mudstone, soft to firm, no show
- 7250-80** **SHALE-50%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-30%** White light gray, very fine (lower) grained, well sorted, sub rounded, clay matrix, tight, firm, calcareous cement, no show
- 7280-7310** **SHALE-60%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- LIMESTONE-40%** Gray brown dark gray, predominately chalky, occasionally microcrystalline, argillaceous, mudstone, soft, no show

- 7310-40** **SHALE-40%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-40%** White light gray, very fine (lower) grained, well sorted, sub rounded, clay matrix, tight, firm, very calcareous cement, no show
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- 7340-70** **SHALE-70%** Light to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- LIMESTONE-30%** Light to medium gray brown , predominately chalky, occasionally microcrystalline, argillaceous, mudstone, very soft to firm, no show
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- 7370-7400** **SHALE-80%** Light to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- LIMESTONE-20%** Light to medium gray brown , predominately chalky, occasionally microcrystalline, argillaceous, mudstone, very soft to firm, no show
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- 7400-30** **SHALE-10%** Light to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SANDSTONE-90%** Light to medium brown salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, clay matrix, dolomitic cement, good porosity, friable, good blue yellow florescence, light brown stain, immediate streaming blue yellow cut, dark oil over shaker
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- 7430-60** **SHALE-10%** Light to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SANDSTONE-90%** Light to medium brown salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, clay matrix, dolomitic cement, good porosity, friable, spotty blue yellow florescence, light brown stain, slow streaming blue yellow cut, dark oil over shaker

- 7460-90** **SHALE-10%** Light to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-30%** Dark gray gray brown, arenaceous, argillaceous, soft to firm, limy, no show
- SANDSTONE-90%** Light to medium brown salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, clay matrix, dolomitic cement, good porosity, friable, spotty blue yellow florescence, light brown stain, slow streaming blue yellow cut, decreasing oil over shaker
- 7490-7520** **SHALE-20%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-70%** White light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-10%** Light brown salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, clay matrix, dolomitic cement, fair porosity, friable, no show
- 7520-50** **SHALE-70%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- LIMESTONE-10%** Light gray, chalky, argillaceous, soft, no show
- 7550-80** **SHALE-50%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-30%** Brown gray white, very fine (lower) to fine (lower) grained, sub rounded, well sorted, clay matrix, tight, firm, calcareous cement, slow weak streaming blue yellow cut

- 7580-7610** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-10%** Brown gray white, very fine (lower) to fine (lower) grained, sub rounded, well sorted, clay matrix, tight, firm, calcareous cement, no show
- 7610-40** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, firm, limy, no show
- 7640-70** **SHALE-70%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-30%** Light to medium gray gray brown, arenaceous, argillaceous, firm, limy, no show
- 7670-7700** **SHALE-80%** Light to medium gray (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, limy, no show
- LIMESTONE-10%** Gray brown tan brown, cryptocrystalline, argillaceous, firm, no show
- 7700-30** **SHALE-40%** Medium to dark gray (100%), blocky, earthy, carbonaceous, limy, occasional hairline calcite filled fractures, soft , no show
- LIMESTONE-60%** Dark gray black, cryptocrystalline, argillaceous, soft to firm, weak milky blue yellow residual cut

- 7730-60** **SHALE-60%** Dark to medium gray black gray brown (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, limy, no show
- LIMESTONE-30%** Gray brown, cryptocrystalline, argillaceous, firm, no show
-
- 7760-90** **SHALE-70%** Dark to medium gray gray brown (100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-30%** Light to medium gray, arenaceous, argillaceous, firm, limy, no show
-
- 7790-7820** **SHALE-70%** Dark to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, limy, no show
- LIMESTONE-10%** Tan light to medium brown, cryptocrystalline, argillaceous, mudstone, soft to firm, no show
-
- 7820-50** **SHALE-60%** Dark to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-30%** Light gray, arenaceous, argillaceous, firm, limy, no show
- SANDSTONE-10%** Medium to dark brown, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, clay matrix, friable, calcareous cement, tight, no show
-
- 7850-80** **SHALE-90%** Dark to medium gray gray brown(100%), blocky to platy, earthy, limy, soft to firm, no show
- SILTSTONE-10%** Light gray, arenaceous, argillaceous, firm, limy, no show

- 7880-7910** **SHALE-70%** Medium to dark gray black (100%), blocky to platy, earthy, soft to firm, limy, no show
- LIMESTONE-30%** Light gray gray brown, predominately chalky, argillaceous, very soft-firm, no show
-
- 7910-40** **SHALE-70%** Light to dark gray black (100%), blocky to platy, earthy, soft to firm, limy, no show
- LIMESTONE-30%** Light gray gray brown, predominately chalky, argillaceous, very soft-firm, no show
-
- 7940-70** **SHALE-80%** Medium to dark gray black (100%), blocky to platy, earthy, soft to firm, limy, no show
- LIMESTONE-20%** Light gray gray brown, predominately chalky, argillaceous, very soft-firm, no show
-
- 7970-8000** **SHALE-70%** Medium to dark gray black (100%), blocky to platy, earthy, soft to firm, predominately limy occasionally dolomitic, no show
- LIMESTONE-20%** Light gray gray brown, predominately chalky, argillaceous, very soft-firm, no show
- DOLOMITE-10%** Black dark gray, chalky, argillaceous, soft, no show
-
- 8000-30** **SHALE-70%** Medium to dark gray black (100%), blocky to platy, earthy, soft to firm, limy, no show
- LIMESTONE-30%** Light gray gray brown, predominately chalky, argillaceous, very soft-firm, no show
-
- 8030-60** **SHALE-60%** Black (100%), blocky, earthy, soft to firm, dolomitic, no show
- DOLOMITE-40%** Black, cryptocrystalline, firm, calcite filled fractures, residual blue white ring cut

- 8060-90** **SHALE-50% Black (100%), blocky, earthy, soft to firm, dolomitic, no show**
- LIMESTONE-20% Dark gray black, cryptocrystalline to microcrystalline, trace calcite filled fractures, no show**
- DOLOMITE-30% Black, cryptocrystalline, firm, calcite filled fractures, no show**
-
- 8090-8120** **SHALE-40% Black (100%), blocky, earthy, soft to firm, dolomitic, no show**
- LIMESTONE-40% Dark gray brown dark gray , microcrystalline, argillaceous, hairline calcite filled fractures, no show**
- DOLOMITE-20% Black, cryptocrystalline, firm, calcite filled fractures, no show**
-
- 8120-50** **SHALE-20% Black (100%), blocky, earthy, soft to firm, dolomitic, no show**
- LIMESTONE-10% Dark gray black, cryptocrystalline to microcrystalline, trace calcite filled fractures, no show**
- SANDSTONE-70% White light gray salt & pepper, very fine (lower) to fine (grained) sub rounded to sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, fair porosity, firm, calcareous cement, no stain, no fluorescence, weak residual blue yellow ring cut**
-
- 8150-80** **SHALE-10% Black (100%), blocky, earthy, soft to firm, dolomitic, no show**
- SANDSTONE-70% White light gray salt & pepper, very fine (lower) to fine (grained) sub rounded to sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, fair porosity, firm, calcareous cement, no stain, no fluorescence, weak residual blue yellow ring cut, dark brown oil over shaker**

- 8180-8210** **SHALE-60%** Medium to dark gray (100%), blocky, earthy, soft, limy, no show
- SILTSTONE-White** light gray, arenaceous, argillaceous, firm, no show
- SANDSTONE-30%** White light gray salt & pepper, very fine (lower) to fine (grained) sub rounded to sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, fair porosity, firm, calcareous cement, no show
- 8210-40** **SHALE-60%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-30%** Dark gray black gray brown, cryptocrystalline, occasional chalky, argillaceous, marlstone, no show
- SANDSTONE-10%** White light gray salt & pepper, very fine (lower) to fine (grained) sub rounded to sub angular, moderately sorted, carbonaceous inclusions, white clay matrix, fair porosity, firm, calcareous cement, no show
- 8240-70** **SHALE-20%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-80%** Gray brown, cryptocrystalline, chalky, argillaceous, marlstone, soft, no show
- 8270-8300** **SHALE-30%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-70%** Gray brown, cryptocrystalline, chalky, argillaceous, marlstone, soft, immediate streaming blue white cut
- 8300-30** **SHALE-20%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-80%** Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut
- 8339-60** **SHALE-20%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-80%** Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut

- 8360-90** **SHALE-10% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-90% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, soft to firm, increase in calcite filled fractures, weak blue white residual cut**
- 8390-8420** **SHALE-20% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-80% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut**
- 8420-50** **SHALE-30% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-70% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut**
- 8450-80** **SHALE-20% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-80% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, soft to firm, trace calcite filled fractures, weak blue white residual cut**
- 8480-8510** **SHALE-20% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-80% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut**
- 8510-40** **SHALE-20% Dark gray black (100%), blocky, earthy, firm, limy, no show**
- LIMESTONE-80% Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut**

- 8540-70** **SHALE-20%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-80%** Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, calcite filled fractures, weak blue white residual cut
- 8570-8600** **SHALE-20%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- LIMESTONE-80%** Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut
- 8600-30** **SHALE-10%** Dark gray black (100%), blocky, earthy, firm, limy, no show
- SANDSTONE-70%** Gray salt & pepper, very fine(lower) to medium (lower) grained, sub rounded, moderately sorted, carbonaceous inclusions, micaceous, glauconitic, clay matrix, poor porosity, calcareous cement, no florescence, slow weak blue white cut
- LIMESTONE-20%** Dark gray brown dark gray, cryptocrystalline, chalky, argillaceous, marlstone, firm, trace calcite filled fractures, weak blue white residual cut
- 8630-60** **SHALE-30%** Medium to dark gray black, blocky, earthy, silty, firm, limy, no show
- SILTSTONE-70%** Light to medium gray, arenaceous, argillaceous, limy, no show
- 8660-90** **SHALE-40%** Medium to dark gray black, blocky, earthy, silty, firm, limy, no show
- SILTSTONE-40%** Light to medium gray, arenaceous, argillaceous, limy, no show
- SANDSTONE-10%** White gray, very fine(lower) to medium (lower) grained, sub rounded, moderately sorted, clay matrix, carbonaceous inclusions, glauconitic, micaceous, friable, tight, no show
- LIMESTONE-10%** Gray brown, predominately chalky, cryptocrystalline, marlstone, soft to firm, no show

- 86690-8720** **SHALE-20%** Medium to dark gray , blocky, earthy, silty, firm, limy, no show
- LIMESTONE-80%** Gray brown, predominately chalky, cryptocrystalline, marlstone, soft to firm, no show
- 8720-50** **SHALE-30%** Medium to dark gray black orange green, blocky to platy, earthy to sub waxy, silty in part, firm, slightly calcareous, dolomitic in part, no show
- SILTSTONE-30%** Orange brown gray, arenaceous, micaceous, firm, slightly calcareous, no show
- SANDSTONE-40%** Tan gray salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, moderately sorted, clay matrix, carbonaceous inclusions, poor porosity, friable, calcareous cement, weak blue yellow residual cut
- 8750-80** **SHALE-20%** Dark gray black, blocky, earthy, firm, slightly, dolomitic, no show
- SILTSTONE-10%** Gray, arenaceous, micaceous, firm, slightly calcareous, no show
- SANDSTONE-20%** Tan gray salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, moderately sorted, clay matrix, carbonaceous inclusions, poor porosity, friable, calcareous cement, weak blue yellow residual cut
- LIMESTONE-50%** Brown black, cryptocrystalline, chalky in part, marlstone, soft to firm, no show
- 8780-8810** **CLAYSTONE-40%** Light gray white, very soft to gummy, limy
- SANDSTONE-10%** Tan gray salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, moderately sorted, clay matrix, carbonaceous inclusions, poor porosity, friable, calcareous cement, weak blue yellow residual cut
- LIMESTONE-50%** Medium to dark gray black, cryptocrystalline, chalky in part, argillaceous, marlstone, soft to firm, no show

- 8810-40** **SHALE-20%** Dark gray black, blocky, earthy, soft to firm, limy, no show
- LIMESTONE-80%** Gray brown black, predominately chalky, marlstone, soft to firm, no show
-
- 8840-70** **SANDSTONE-20%** Light gray salt & pepper, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, clay matrix, carbonaceous inclusions, tight, firm, no show
- LIMESTONE-80%** Gray brown black, predominately chalky, marlstone, soft to firm, no show
-
- 8870-8900** **SANDSTONE-10%** Light gray salt & pepper, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, clay matrix, carbonaceous inclusions, tight, firm, no show
- LIMESTONE-90%** Gray brown black, cryptocrystalline, chalky, argillaceous, marlstone, trace calcite filled fractures, soft, no show
-
- 8900-30** **CLAYSTONE-20%** White light gray, very soft, limy
- SANDSTONE-50%** White light gray salt & pepper, very fine (lower) to fine (lower) grained, sub rounded, well sorted, white clay matrix, carbonaceous inclusions, tight, friable to firm, no show
- LIMESTONE-20%** Gray brown black, cryptocrystalline, chalky, argillaceous, marlstone, trace calcite filled fractures, soft, no show
-
- 8930-60** **SHALE-60%** Dark gray black, blocky, earthy, soft to firm, limy, no show
- SANDSTONE-20%** Light gray salt & pepper, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, clay matrix, carbonaceous inclusions, tight, firm, no show
- LIMESTONE-20%** Gray brown black, predominately chalky, marlstone, soft to firm, no show
-
- 8960-90** **SHALE-20%** Dark gray black, blocky, earthy, soft to firm, limy, no show
- LIMESTONE-20%**Dark gray gray brown black, predominately chalky, marlstone, soft to firm, no show

- 8990-9020** **CLAYSTONE-40%** White light gray, very soft, limy
- SANDSTONE-40%** Gray white salt & pepper, very fine (lower) to fine (lower) grained, well sorted, carbonaceous inclusions, white clay matrix, friable to firm, tight, pale yellow residual cut
- LIMESTONE-20%** Dark gray gray brown black, predominately chalky, marlstone, soft to firm, no show
- 9020-50** **SHALE-20%** Dark gray black dark gray brown, blocky, earthy, soft, limy, no show
- LIMESTONE-80%** Dark gray gray brown black, predominately chalky, marlstone, soft to firm, no show
- 9050-80** **CLAYSTONE-30%** White light gray, very soft, limy
- SILTSTONE-20%** Light gray white, arenaceous, soft, limy, no show
- SANDSTONE-50%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, silty, tight, friable, limy, no show
- 9080-9110** **CLAYSTONE-40%** White light gray, very soft, limy
- SILTSTONE-30%** Light gray white, arenaceous, soft, limy, no show
- SANDSTONE-50%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, silty, tight, friable, limy, no show
- 9110-40** **SHALE-40%** Light to medium gray, blocky, earthy to sub waxy, soft to firm, limy, no show
- CLAYSTONE-10%** White light gray, very soft, limy
- SILTSTONE-10%** Light gray white, arenaceous, soft, limy, no show
- SANDSTONE-20%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, silty, tight, friable, limy, no show
- LIMESTONE-20%** Light to medium gray, chalky in part, microcrystalline, soft to firm, no show

- 9140-70** **SHALE-20%** Light to medium gray, blocky, earthy to sub waxy, soft to firm, limy, no show
- SILTSTONE-40%** Light to medium gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-20%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, silty, tight, friable, limy, no show
- LIMESTONE-20%** Light to medium gray, chalky in part, microcrystalline, soft to firm, no show
-
- 9170-9200** **SILTSTONE-10%** Light gray white, arenaceous, soft, limy, no show
- SANDSTONE-10%** White light gray, very fine (lower) grained, sub rounded, well sorted, white clay matrix, silty, tight, friable, limy, no show
- LIMESTONE-80%** Gray brown light to medium gray, chalky in part, cryptocrystalline to microcrystalline, argillaceous, soft to firm, no show
-
- 9200-30** **CLAYSTONE10%**-White light gray, very soft to gummy, limy
- SHALE-20%** Light to medium gray, blocky, earthy to sub waxy, soft, limy, no show
- SILTSTONE-20%** Light to medium gray, arenaceous, argillaceous, soft, limy, no show
- SANDSTONE-30%** White light gray salt & pepper, very fine (lower) to very fine (upper) grained, well sorted, clay matrix, tight, friable, calcareous cement, no show
- LIMESTONE-20%**-Light gray, predominately chalky, occasional microcrystalline, argillaceous, soft, no show

- 9230-60** **SHALE-20%** Light to medium gray, blocky, earthy to sub waxy, soft, limy, no show
- SANDSTONE-10%** White light gray salt & pepper, very fine (lower) to very fine (upper) grained, well sorted, clay matrix, tight, friable, calcareous cement, no show
- LIMESTONE-70%**-Light to medium gray gray brown, chalky, microcrystalline, argillaceous, soft, no show
- 9260-90** **SHALE-70%** Gray green light to medium gray, blocky, earthy to sub waxy, soft, dolomitic, no show
- SANDSTONE-10%** White light gray salt & pepper, very fine (lower) to very fine (upper) grained, well sorted, clay matrix, tight, friable, calcareous cement, no show
- LIMESTONE-20%**-Light gray, predominately chalky, occasional microcrystalline, argillaceous, soft, no show
- 9290-9320** **SHALE-20%** Light to medium gray green gray, blocky, earthy to sub waxy, soft, limy, dolomitic in part, no show
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, soft, limy, no show
- LIMESTONE-60%**-Light gray, predominately chalky, occasional microcrystalline, argillaceous, marlstone, soft, no show
- 9320-50** **CLAYSTONE-10%**Light gray, very soft to gummy, limy
- SHALE-20%** Light to medium gray, blocky, earthy to sub waxy, soft, limy, no show
- LIMESTONE-20%**-Light gray, predominately chalky, occasional microcrystalline, argillaceous, soft, no show

- 9350-80** **CLAYSTONE-30%**Light gray, very soft to gummy, limy
- SHALE-10%** Light to medium gray, blocky, earthy to sub waxy, soft, limy, no show
- SANDSTONE-10%** White light gray, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, clay matrix, tight, friable, calcareous cement, no show
- LIMESTONE-50%**-Gray brown light gray, predominately chalky, occasional microcrystalline, argillaceous, very soft, no show
- 9380-9410** **CLAYSTONE-30%**Light gray, very soft to gummy, limy
- SILTSTONE-20%** Light gray, arenaceous, argillaceous, soft, limy, no show
- LIMESTONE-50%**-Gray brown light gray, predominately chalky, occasional microcrystalline, argillaceous, very soft, no show
- 9410-40** **SHALE-20%** Light to medium gray (90%) maroon red brown (10%), blocky, earthy to sub waxy, soft, limy, no show
- SANDSTONE-20%** White light gray, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, clay matrix, tight, friable, calcareous cement, no show
- LIMESTONE-60%**-Gray brown light gray, predominately chalky, occasional microcrystalline, argillaceous, very soft, no show
- 9440-70** **SHALE-30%** Maroon red brown (60%) light gray (40%), blocky, earthy to sub waxy, soft, limy
- SILTSTONE-20%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-40%** Red brown gray, very fine (lower) to fine (lower) grained, sub rounded, well sorted, micaceous, glauconitic, clay matrix, calcareous cement, friable, tight, no show
- LIMESTONE-10%**-Gray brown light gray, predominately chalky, occasional microcrystalline, argillaceous, very soft, no show

- 9470-9500** **CLAYSTONE-10%** White light gray, sandy, very soft
- SHALE-40%** Maroon red brown green gray (50%) light to medium gray (50%) blocky, earthy, silty, soft, limy, no show
- SILTSTONE-20%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-30%** Brown white salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
-
- 9500-30** **CLAYSTONE-10%** White light gray, sandy, very soft
- SHALE-20%** Maroon red brown green gray (50%) light to medium gray (50%) blocky, earthy, silty, soft, limy, no show
- SILTSTONE-20%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-30%** Brown white salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
- LIMESTONE-20%** Light gray gray brown, microcrystalline, chalky in part, soft, no show
-
- 9530-60** **SHALE-30%** Maroon red brown green gray (50%) light to medium gray (50%) blocky, earthy, silty, soft, limy, no show
- SILTSTONE-10%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-30%** Brown white salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
- LIMESTONE-30%** Light gray gray brown, microcrystalline, chalky in part, soft, no show

- 9560-90** **CLAYSTONE-40%** White light gray, sandy, very soft
- SHALE-20%** Maroon red brown green gray (50%) light to medium gray (50%) blocky, earthy, silty, soft, limy, no show
- SILTSTONE-20%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-20%** Brown white salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
-
- 9590-9620** **CLAYSTONE-20%** White light gray, sandy, very soft
- SHALE-20%** Maroon red brown green gray (50%) light to medium gray (50%) blocky, earthy, silty, soft, limy, no show
- SILTSTONE-20%** Red brown light gray, arenaceous, argillaceous, friable, limy, no show
- SANDSTONE-60%** White light gray salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
-
- 9620-50** **CLAYSTONE-30%** White light gray, sandy, very soft
- SHALE-20%** Light to medium gray (100%) blocky, earthy, silty, soft, limy, no show
- SANDSTONE-10%** White light gray salt & pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, glauconitic, clay matrix, calcareous cement, friable, tight, no show
- LIMESTONE-40%** Light to dark gray, predominately chalky, occasional microcrystalline, marlstone, soft, no show
-
- 9650-80** **SHALE-40%** Variegated red brown green maroon, blocky, earthy, soft, limy
- SANDSTONE-60%** White red brown salt & pepper, very fine (lower) to fine (upper) grained, well sorted, sub rounded, clay matrix, carbonaceous inclusions, poor visible porosity, calcareous cement, no show

- 9680-9710** **SHALE-90%** Red brown maroon light gray, blocky, earthy, soft, limy
- SANDSTONE-10%** White red brown salt & pepper, very fine (lower) to fine (upper) grained, well sorted, sub rounded, clay matrix, carbonaceous inclusions, poor visible porosity, calcareous cement, no show
-
- 9710-40** **SHALE-90%** Red brown maroon light gray, blocky, earthy, soft, limy
- SANDSTONE-10%** White red brown salt & pepper, very fine (lower) to fine (upper) grained, well sorted, sub rounded, clay matrix, carbonaceous inclusions, poor visible porosity, calcareous cement, no show
-
- 9740-53** **No Sample Lost Circulation Stuck Pipe**
TD

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MAR 28 2011

DIV. OF OIL, GAS & MINING

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc
Lease: Giles 1-19-3-2
Location: NE/NE Sec.19,T3S,R2W
County/State: Duchesne Co., Utah

Date: Dec 6, 2010
G.L. 5155' to be surveyed
K.B. 5179'
Geologist: Dennis Springer

6:00a.m. Depth 3166 Progress: 0

Operation: Nipple Up

NB# 3 8 3/4"

Mud Ck 3166 Wt 10.4 Vis 40 PV 8 YP 13 PH 8.2 F 17.2 Chl 30000

Survey at deg azm

Formation: Green River Tops

24 Hr. Lithology:

Sample Quality: Good

Smpl @

Mud Gas Trip Gas NA Mud Wt in Mud Wt out No Flare
Conn Gas Mud Wt in 10.0 Mud Wt out 10.0 No Flare
BG Mud Wt in 10.0 Mud Wt out 10.0... No Flare
FG

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 7, 2010
Lease: Giles 1-19-3-2 **G.L.:** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.:** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 3238 Progress: 72 Operation: Drilling
NB# 3 8 3/4", Ultrerra, MS1666, PDC, MWD, no motor in at 3166

Mud Ck 3166 Wt 9.8 Vis 36 PV 6 YP 9 PH 8.0 F 21.8 Chl 30000

Survey at deg azm

Formation: Green River Tops

24 Hr. Lithology: SH, SS

Sample Quality: Good

Smpl @ 3200 90% SH-gybrn gy, blkly-plty, rthy, frm, sl calc

10% SS wh gy s&p vf(l)-f(u)gr, sbang, w srt, cly mtX, tt, frm, sl calc cmt, no show

Mud Gas Trip Gas 464 Mud Wt in 9.6 Mud Wt out 9.6 Flare
Conn Gas 35 Mud Wt in 9.6 Mud Wt out 9.6 Flare
BG 5 Mud Wt in 9.6 Mud Wt out 9.6...Flare
FG

SHOW

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

Note; Leak off test 18.23 eq.

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc Date: Dec 8, 2010
Lease: Giles 1-19-3-2 G.L. 5153.6'
Location: NE/NE Sec.19,T3S,R2W K.B. 5179'
County/State: Duchesne Co., Utah Geologist: Dennis Springer

6:00a.m. Depth 3974 Progress: 736 Operation: Drilling
NB# 4 8 3/4", Ulterra, MS1666, PDC, MWD, no motor in at 3254
Bit #3 drilled 88' in 6 3/4 hrs

Mud Ck 3313 Wt 9.9 Vis 39 PV 10 YP 10 PH 10.8 F 10.0 Chl 32000

Survey at 3889 deg 1.4 azm 178.4

Formation: Green River Tops GR1 @ 3436

24 Hr. Lithology: SH, LS, SS

Sample Quality: Good

Smpl @ 3890 100% SH-gybrn gy (70%) lt-dk brn (30%), blk-y-pty, rthy, sft, lmy, occ calc frac
fil, sl strmg bl yel cut

Mud Gas Trip Gas nil Mud Wt in 9.6 Mud Wt out 9.6 No Flare
Conn Gas 867 Mud Wt in 9.67 Mud Wt out 9.6 No Flare
BG 70 Mud Wt in 9.6 Mud Wt out 9.6 No Flare
FG

SHOW

Table with 10 columns: INTERVAL, Gross, P/Rate, Peak, Flare, MW In/Out, Porosity, Flor, Stain, Lith. The table contains two empty rows.

Note

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 9, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 4760 Progress: 786 Operation: Drilling
NB# 4 8 3/4", Ulterra, MS1666, PDC, MWD, no motor in at 3254
Bit #3 drilled 88' in 6 3/4 hrs

Mud Ck 3997 Wt 10.0 Vis 46 PV 15 YP 19 PH 11.4 F 10.2 Chl 40000

Survey at 4643 deg 1.6 azm 196.8

Formation: Green River Tops GR1 @ 3436

24 Hr. Lithology: SH, LS

Sample Quality: Good

Smpl @ 4700 100% SH-m-dk brn (100%), blk-y-plty, rthy, sft, lmy, occ calc frac fil, sl strmg bl yel cut

Mud Gas	Trip Gas	na	Mud Wt in	Mud Wt out	No	Flare
	Conn Gas	476	Mud Wt in 10.1	Mud Wt out 10.0	Flare	
	BG	110	Mud Wt in 9.9	Mud Wt out 9.9...	Flare	
	FG					

SHOW

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

Note

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc
Lease: Giles 1-19-3-2
Location: NE/NE Sec.19,T3S,R2W
County/State: Duchesne Co., Utah

Date: Dec 10, 2010
G.L. 5153.6'
K.B. 5179'
Geologist: Dennis Springer

6:00a.m. Depth 5213 Progress: 453 Operation: Drilling
NB# 4 8 3/4", Ulterra, MS1666, PDC, MWD, no motor in at 3254
Bit #3 drilled 88' in 6 3/4 hrs

Mud Ck 4960 Wt 9.8.0 Vis 47 PV 15 YP 15 PH 9.5 F 6.8 Chl 42000

Survey at 5020 deg 2.0 azm 187.1

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany Bench @ 5013

24 Hr. Lithology: SH, LS

Sample Quality: Good

Smpl @ 5180 100% SH-dk brn blk (100%), blk, rthy, carb, sft, lmy, occ calc frac fil, strmg bl yel cut

Mud Gas Trip Gas na Mud Wt in Mud Wt out No Flare
Conn Gas 690 Mud Wt in 9.8 Mud Wt out 9.8 No Flare
BG 120 Mud Wt in 9.8 Mud Wt out 9.8...No Flare
FG

SHOW 1

Table with 10 columns: INTERVAL, Gross, P/Rate, Peak, Flare, MW In/Out, Porosity, Flor, Stain, Lith. Row 1: 4841-4858, 17, 1.08-.85-1.65, 466, NO, 9.9/9.9, Frac, nil, SH-dk brn, occ calc fld frac, immd strmg bl yel cut

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc Date: Dec 11, 2010
Lease: Giles 1-19-3-2 G.L. 5153.6'
Location: NE/NE Sec.19,T3S,R2W K.B. 5179'
County/State: Duchesne Co., Utah Geologist: Dennis Springer

6:00a.m. Depth 5771 Progress: 558 Operation: Drilling
NB# 5 8 3/4", Reed, E1100-B1, PDC, MWD, no motor in at 5256
Bit #4 drilled 2002' in 68.3 hrs

Mud Ck 5256 Wt 9.8 Vis 44 PV 16 YP 13 PH 9.5 F 6.4 Chl 42000

Survey at 5587 deg 2.1 azm 178

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany Bench @ 5013

24 Hr. Lithology: SH, LS,SS

Sample Quality: Good

Smpl @ 5600 70% SH-gy (40%) m brn gybrn (60%), blk-ply, rthy, sft, lmy, occ calc frac fil, no cut

30% LS-tn brn, crpxln, arg, mudstn, sft, no show

Mud Gas Trip Gas 414 Mud Wt in 9.9 Mud Wt out 9.9 No Flare
Conn Gas 928 Mud Wt in 9.9 Mud Wt out 9.8 No Flare
BG 260 Mud Wt in 9.9 Mud Wt out 9.9...No Flare
FG

SHOW

Table with 10 columns: INTERVAL, Gross, P/Rate, Peak, Flare, MW In/Out, Porosity, Flor, Stain, Lith. The table is currently empty.

Note

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc
Lease: Giles 1-19-3-2
Location: NE/NE Sec.19,T3S,R2W
County/State: Duchesne Co., Utah

Date: Dec 12, 2010
G.L. 5153.6'
K.B. 5179'
Geologist: Dennis Springer

6:00a.m. Depth 6467 Progress: 696 Operations: Wash & Ream Drag
NB# 5 8 3/4", Reed, E1100-B1, PDC, MWD, no motor in at 5256
Bit #4 drilled 2002' in 68.3 hrs

Mud Ck 6110 Wt 10.1 Vis 47 PV 16 YP 13 PH 9.0 F 6.2 Chl 42000

Survey at 6341 deg 2.4 azm 181.9

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J Marker @ 6006 H @ 6335 HI @ 6500

24 Hr. Lithology: SH, LS,SS

Sample Quality: Good

Smpl @ 6440 10% SH-lt gy lt grn (100%), blk-y-plty, rthy, sft, lmy, occ calc frac fil, no cut
90% LS-tn lt brn, crp-micxln, sft, no show

Mud Gas	Trip Gas	na	Mud Wt in	Mud Wt out	No	Flare
	Conn Gas	735	Mud Wt in 10.0	Mud Wt out 10.0	No	Flare
	BG	55	Mud Wt in 10.0	Mud Wt out 10.0	No	Flare
	FG	1209 max				

SHOW 2, 3, 4

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
5631-5657	26	.7-.53-1.7	1209	no	10.0/ 10.0		no	no	SH-brn, lmy, sl strmg blyel cut
5910-5919	9	1.3-.87- 1.4	950	no	10.1/ 10.1		No	no	LS-tn lt brn, crp-micxln, sl arg, sl strmg bl yel cut
6057-6080	23	.8-.95-1.1	1016	no	10.1/ 10.1		no	no	SH-lt-m gy, blk-y, rthy, calc, sl strmg bl yel cut

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 13, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 6944 Progress: 477 Operations: TOH for mudmotor and bit
NB# 5 8 3/4", Reed, E1100-B1, PDC, MWD, no motor in at 5256
Bit #5 drilled 1688' in 46 hrs

Mud Ck 6706 Wt 10.1 Vis 44 PV 12 YP 10 PH 9.0 F 6.0 Chl 44000

Survey at 6807 deg 2.8 azm 172.5

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany
Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J Marker @ 6006 H @ 6335
HI @ 6500

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

Sample Quality: Good

Smpl @ 6920 90% SH-m-dk gy gybrn (100%), blk-y-plty, rthy, sft-frm, lmy, occ calc frac fil,
no cut

10% LS-lt-m gy gybrn, crp-micxln, sft-frm, no show

Mud Gas Trip Gas na Mud Wt in Mud Wt out No Flare
Conn Gas 567 Mud Wt in 10.0 Mud Wt out 10.0 No Flare
BG 253 Mud Wt in 10.0 Mud Wt out 10.0...No Flare
FG 1209 max

SHOW 5, 6, 7

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
6536-6544	8	1.58-1.1-1.3	562	no	10.0/10.0	Poss frac	no	Lt brn	LS-lt gybrn lt brn, crpxln, arg chlky ip, immd strmg blwh cut
6570-6580	10	.88-1.2-1.6	1145	no	10.0/10.0	Poss frac	no	Lt brn	LS-lt gybrn lt brn, crp-micxln, chlky ip, immd strmg blwh cut
6898-6904	6	2.8-1.7-3.2	1840	no	10.1/10.0	Poss frac	no	no	SH-lt-mgy blk, rthy, lmy, sl mlky blyel cut, oit/tar over shaker

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MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 14, 2010
Lease: Giles 1-19-3-2 **G.L.:** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.:** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 7472 Progress: 528 Operations: Drill
NB# 6 8 3/4", Hughes, Q506FX, PDC, MWD, mud motor in at 6944
Bit #5 drilled 1688' in 46 hrs

Mud Ck 6944 Wt 10.1 Vis 40 PV 12 YP 10 PH 9.0 F 6.0 Chl 44000

Survey at 7265 deg 1.9 azm 66.1

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany
Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J Marker @ 6006 H @ 6335
HI @ 6500

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

Sample Quality: Good

Smpl @ 7250 80% SH-lt-m gy (100%), blk-pty, rthy, sft-frm, lmy, occ calc frac fil, no cut
 20% LS-lt-dk gy gybrn, pred chlky, occ micxln, mudstn, arg, sft-frm, no show

Mud Gas Trip Gas 245 Mud Wt in 10.2 Mud Wt out 10.2 No Flare
Conn Gas 419 Mud Wt in 10.2 Mud Wt out 10.2 No Flare
BG 253 Mud Wt in 10.2 Mud Wt out 10.2...No Flare
FG 1774 max

SHOW 8

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
7176-7202	26	.9-.8-.8	1774	no	10.2/ 10.2	no	no	no	LS-dk gybrn dk brn, pred chlky, mudstn, arg, sl strmg bl yel cut

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 15, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 8352 Progress: 880 Operations: Drill
NB# 6 8 3/4", Hughes, Q506FX, PDC, MWD, mud motor in at 6944
Bit #5 drilled 1688' in 46 hrs

Mud Ck 7753 Wt 10.2 Vis 44 PV 15 YP 12 PH 9.0 F 6.0 Chl 44000

Survey at 8208 deg 1.4 azm 272.2

Formation: Green River Smpl Tops GR1 @ 3436 GR2 @ 4834, Smith @ 4954, Mahogany
Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J Marker @ 6006 H @ 6335
HI @ 6500 I @ 6876 K @ 7254

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

Sample Quality: Good
 Smpl @ 8300 30% SH-dk gy blk (100%), blkly-plty, rthy, sft frm, lmy, occ calc frac fil,
 70% LS- gybrn, pred chlky, occ micxln, marlstn, arg, sft frm, wk blyel resid ring cut

Mud Gas DT Gas 1686 Mud Wt in 10.2 Mud Wt out 10.2 No Flare
Conn Gas 1234 Mud Wt in 10.2 Mud Wt out 10.1 No Flare
BG 253 Mud Wt in 10.2 Mud Wt out 10.2...No Flare
FG 7100 max

SHOW 9,10

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
7324-7353	29	.65-.95-.75	2453	no	10.2/10.2	P intr gr	no	no	SS-wh lt gy, vf(l)gr, sbrnd, wsrt, v calc cmt, tt, frm, no show
7414-7499	85	.65-.75-.9	3952	no	10.2/10.2	Gd intr gr	Even blyel	Lt brn	SS-lt brn vf(l)-f(u) gr, sbrnd, w sort, 14-18% por, immd strmg blyel cut, dk oil over shakrer

Note: Show 10 one of the better sand packages we have seen on Harvest wells.

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 16, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 8954 Progress: 602 Operations: Prepare TOH
NB# 6 8 3/4", Hughes, Q506FX, PDC, MWD, mud motor in at 6944
Bit #5 drilled 1688' in 46 hrs

Mud Ck 8657 Wt 10.8 Vis 44 PV 18 YP 15 PH 9.0 F 6.0 Chl 50000

Survey at 8868 deg 1.5 azm 170.9

Formation: Green River Smpl Tops Mahogany Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J
Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @ 7254 Castle Peak CP 70 @ 8008 CP
80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390 Wasatch @ 8650

24 Hr. Lithology: SH, LS, SS, Sltst
 Sample Quality: Fair

Smpl @ 8930 30% Clyst-wh lt gy, v sft, lmy SS-50% wh lt gr, vf(l)-f(l) gr, srbnd wsrt, tt, cly
mtx, no show 20% LS- gybrn, pred chlky, occ micxln, marlstn, arg, sft-frm, no cut

Mud Gas	DT Gas	NA	Mud Wt in	Mud Wt out	No	Flare
	Conn Gas	6744	Mud Wt in 11.0	Mud Wt out 10.8	5 ft	Flare
	BG	2331	Mud Wt in 10.2	Mud Wt out 10.2...	No	Flare
	FG	8092 max	Mud Wt in 11.0	Mud Wt out 10.8...	8 ft	Flare

SHOW 11, 12, 13, 14

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
8080-8150	70	.9-.63-.81	2935	no	10.2/ 10.2		no	no	CP 80 LS & Bar F SS -wh lt gy, vf-fg, wk blyel resid cut, dk brn oil on shaker
8273-8362	89	1.1-.89- .62	7354	no	10.2/ 10.2		no	no	LS-gybrn, crpxl, chlky, mrlst, sft, immd blwh cut
8742-8780	38	1.6-1.4- 2.4	7604	2	11.0/ 10.8	P intgr	no	no	SS-gy wh s&p brn, vf(l)-f(u)gr, sbrnd, msrt, wk resid blyel cut
8804-8828	24	.9-4.6-2.1	8056	8	11.0/ 10.8	P intgr	no	no	SS-tn gy s&p, vf(l)-f(u)gr, sbrnd, msrt, wk resid blyel cut

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 17, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 8966 Progress: 8 Operations: Prepare Drill
NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
7RR #6 drilled 1408' in 34 hrs

Mud Ck 8954 Wt 11.1 Vis 52 PV 18 YP 13 PH 9.1 F 6.0 Chl 52000

Survey at 8868 deg 1.5 azm 170.9

Formation: Green River Smpl Tops Mahogany Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J
Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @ 7254 Castle Peak CP 70 @ 8008 CP
80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390 Wasatch @ 8650

24 Hr. Lithology: SH, LS, SS, Sltst
 Sample Quality: Fair

Smpl @ 8930 30% Clyst-wh lt gy,v sft, lmy SS-50% wh lt gr, vf(l)-f(l) gr, srbnd wsrt, tt, cly
mtx, no show 20% LS- gybrn, pred chlky, occ micxln, marlstn, arg, sft-frm, no cut

Mud Gas TG Gas 5186 on Buster Mud Wt in 11.1 Mud Wt out 11.0 15 ft Flare
Conn Gas 6116 Mud Wt in 11.1 Mud Wt out 11.1 No Flare
BG 1200 Mud Wt in 11.1 Mud Wt out 11.1...No.....Flare
FG NA Mud Wt in 11.0 Mud Wt out 10.8...No Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 18, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9058 **Progress:** 92 **Operations:** Drill
NB 8 RR# 3 8 3/4", Ultrerra, MS1666DM, PDC, MWD, mud motor in at 8985
7RR #6 drilled 1408' in 34 hrs

Mud Ck 8954 Wt 11.1 Vis 52 PV 18 YP 13 PH 9.1 F 6.0 Chl 52000

Survey at 8961 deg 1.5 azm 173.2

**Formation:Green River Smpl TopsMahogany Bench @ 5013 DJ @ 5492 DJ1@ 5750 J
Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @ 7254 Castle Peak CP 70 @ 8008 CP
80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390 Wasatch @ 8650**

24 Hr. Lithology: SH, LS, SS, Clyst
Sample Quality: Fair

**Smpl @ 9020 40% Clyst-wh lt gy,v sft, lmy SS-40% wh lt gr, vf(l)-f(l) gr, srbnd wsrt, tt, cly
mtx, wk lt yel resid cut 20% LS- gybrn, pred chlky,occ micxln, marlstn, arg, sft-frm, no cut**

Mud Gas TG Gas 7750 on Buster Mud Wt in 11.1 Mud Wt out 11.0 15ft Flare
Conn Gas 3818 Mud Wt in 11.1 Mud Wt out 11.1 No Flare
BG 1290 Mud Wt in 11.1 Mud Wt out 11.1...No Flare
FG 6926 Mud Wt in 10.9 Mud Wt out 10.6...15 Flare

SHOW

INTERVAL	Gross	P/Rate	Peak	Flare	MW In/Out	Porosity	Flor	Stain	Lith
9010-9034	24	1.8-1.3-4.9	6926	15	10.9/10.6	P intgr	no	no	SS-gy wh s&p, vf(l)-f(l) gr, cly mtx, pale yel resid cut

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 19, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9470 **Progress:** 412 **Operations:** Drill
NB 8 RR# 3 8 3/4", Ultrerra, MS1666DM, PDC, MWD, mud motor in at 8985
7RR #6 drilled 1408' in 34 hrs

Mud Ck 9213 Wt 11.4 Vis 52 PV 16 YP 14 PH 9.0 F 6.0 Chl 52000

Survey at 9241 deg 1.6 azm 173.5

Formation: Green River Smpl Tops Mahogany Bench @ 5013 DJ @ 5492 DJ1 @ 5750 J
Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @ 7254 Castle Peak CP 70 @ 8008 CP
80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390 Wasatch @ 8650

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9440 20% SH-lt-m gy, blk, rthy-sbwxy, sft, lmy, SS-20% wh lt gr, vf(l)-f(l) gr, srbnd
 wsrt, tt, cly mtx, no show 20% LS- lt gy gybrn, pred chlky, occ micxln, marlstn, arg, sft-frn,
 no cut

Mud Gas	TG Gas	NA	Mud Wt in	Mud Wt out	No	Flare
	Conn Gas	7500	Mud Wt in 11.4	Mud Wt out 11.4	No	Flare
	BG	1805	Mud Wt in 11.4	Mud Wt out 11.4	No	Flare
	FG		Mud Wt in 11.4	Mud Wt out 11.4	No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 20, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 283 Operations: MW 12.1 Lost Circ Stuck @ 9739

**NB 8 RR# 3 8 3/4", Ultrerra, MS1666DM, PDC, MWD, mud motor in at 8985
 7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9608 Wt 11.8 Vis 40 PV 18 YP 12 PH 8.5 F 6.0 Chl 52000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @
 7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390
 Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

**Smpl @ 9740 90% SH-orng red brn, blkly, rthy, slty, sft, lmy, SS-10% wh lt gr, vf(l)-f(l) gr,
 srbnd wsrt, tt, cly mtx, no show**

Mud Gas	TG Gas	NA	Mud Wt in	Mud Wt out	No	Flare
	Conn Gas	7889	Mud Wt in 11.8	Mud Wt out 11.7	No	Flare
	BG	768	Mud Wt in 12.1	Mud Wt out 12.0...	No	Flare
	FG		Mud Wt in	Mud Wt out	No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 21, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Work stuck pipe

**NB 8 RR# 3 8 3/4", Ultrerra, MS1666DM, PDC, MWD, mud motor in at 8985
 7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9753 Wt 11.7 Vis 40 PV 15 YP 11 PH 8.5 F 6.0 Chl 52000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @
 7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390
 Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	DTG Gas	8415	Mud Wt in	11.8	Mud Wt out	11.8	No	Flare
	Conn Gas	na	Mud Wt in		Mud Wt out		No	Flare
	BG	490	Mud Wt in	11.8	Mud Wt out	11.8...	No	Flare
	FG		Mud Wt in		Mud Wt out		No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 22, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Jarring stuck pipe

**NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9753 Wt 11.7 Vis 40 PV 15 YP 11 PH 8.5 F 6.0 Chl 52000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @
7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390
Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	NA	Mud Wt in 11.8	Mud Wt out 11.8	No	Flare
	Conn Gas	na	Mud Wt in	Mud Wt out	No	Flare
	BG	3600	Mud Wt in 11.8	Mud Wt out 11.6...	No	Flare
	FG		Mud Wt in	Mud Wt out	No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 23, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Backed off 7388 TIH w wash over

**NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
 7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9753 Wt 11.75 Vis 37 PV 12 YP 10 PH 8.5 F 7.2 Chl 46000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @
 7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390
 Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	6629	Mud Wt in	11.7	Mud Wt out	11.6	No	Flare
	Conn Gas	na	Mud Wt in		Mud Wt out		No	Flare
	BG	1700	Mud Wt in	11.7	Mud Wt out	11.7...	No	Flare
	FG		Mud Wt in		Mud Wt out		No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 24, 2010
Lease: Giles 1-19-3-2 **G.L.:** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.:** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Trip out of hole with fish

**NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
 7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9753 Wt 11.75 Vis 40 PV 13 YP 10 PH 8.5 F 7.0 Chl 46000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @
 7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390
 Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	na	Mud Wt in 11.7	Mud Wt out 11.7	No	Flare
	Conn Gas	na	Mud Wt in	Mud Wt out	No	Flare
	BG	200	Mud Wt in 11.7	Mud Wt out 11.7...	No	Flare
	FG		Mud Wt in	Mud Wt out	No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Dec 25, 2010
Lease: Giles 1-19-3-2	G.L.: 5153.6'
Location: NE/NE Sec.19,T3S,R2W	K.B.: 5179'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Trip out of hole for E Logs NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985 7RR #6 drilled 1408' in 34 hrs

Mud Ck 9753 Wt 11.75 Vis 40 PV 13 YP 11 PH 8.0 F 7.0 Chl 46000

Survey at 9674 deg 1.5 azm 175.1

Formation: Green River Smpl Tops J Marker @ 6006 H @ 6335 HI @ 6500 I @ 6876 K @ 7254 Castle Peak CP 70 @ 8008 CP 80 @ 8102 Bar F @ 8132 UB1 @ 8208 CP 90 @ 8390 Wasatch @ 8650 Red Beds @ 9435 Massive Red Beds @ 9686

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	8266	Mud Wt in 11.7	Mud Wt out 11.7	15	Flare
	Conn Gas	na	Mud Wt in	Mud Wt out	No	Flare
	BG	900	Mud Wt in 11.7	Mud Wt out 11.7...	No	Flare
	FG		Mud Wt in	Mud Wt out	No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 26, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

6:00a.m. Depth 9753 Progress: 0 Operations: Rig up casing crew
NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
7RR #6 drilled 1408' in 34 hrs

Mud Ck 9753 Wt 11.75 Vis 40 PV 13 YP 11 PH 8.0 F 7.0 Chl 46000

Survey at 9674 deg 1.5 azm 175.1

Formation: Green River E Log Tops J Marker @ 6048 H @ 6350 HI @ 6503 I @ 6842 K
@ 7188 Castle Peak CP 70 @ 8056 CP 80 @ 8132 Bar F @ 8162 UB1 @ 8247 CP 90 @
8434 Wasatch @ 8697 Red Beds @ 9415 Massive Red Beds @ 9646

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	4506	Mud Wt in	11.8	Mud Wt out	11.8	5	Flare
	Conn Gas	na	Mud Wt in		Mud Wt out		No	Flare
	BG	255	Mud Wt in	11.8	Mud Wt out	11.8...	No	Flare
	FG		Mud Wt in		Mud Wt out		No	Flare

SHOW

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc **Date:** Dec 27, 2010
Lease: Giles 1-19-3-2 **G.L.** 5153.6'
Location: NE/NE Sec.19,T3S,R2W **K.B.** 5179'
County/State: Duchesne Co., Utah **Geologist:** Dennis Springer

**6:00a.m. Depth 9753 Progress: 0 Operations: Circ csg for cement
 NB 8 RR# 3 8 3/4", Ulterra, MS1666DM, PDC, MWD, mud motor in at 8985
 7RR #6 drilled 1408' in 34 hrs**

Mud Ck 9753 Wt 11.8 Vis 39 PV 14 YP 10 PH 8.0 F 6.8 Chl 44000

Survey at 9674 deg 1.5 azm 175.1

**Formation: Green River E Log Tops J Marker @ 6048 H @ 6350 HI @ 6503 I @ 6842 K
 @ 7188 Castle Peak CP 70 @ 8056 CP 80 @ 8132 Bar F @ 8162 UB1 @ 8247 CP 90 @
 8434 Wasatch @ 8697 Red Beds @ 9415 Massive Red Beds @ 9646**

24 Hr. Lithology: SH, LS, SS, Sltst, Clyst
 Sample Quality: Fair

Smpl @ 9740 90% NO NEW SMPLS

Mud Gas	TG Gas	7530	Mud Wt in	11.8	Mud Wt out	11.8	NO	Flare
	Conn Gas	na	Mud Wt in		Mud Wt out		No	Flare
	BG	255	Mud Wt in	11.8	Mud Wt out	11.8...	No	Flare
	FG		Mud Wt in		Mud Wt out		No	Flare

SHOW

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

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GAS SHOWS DATA RECORD
Giles 1-19-3-2

Show	DEPTH (feet)		Gas	Total Gas	C1 (ppm)	C2 (ppm)	C3 (ppm)	C4 (ppm)	C1/C2	C1/C3	C1/C4	Formation	Comments
1	4841	4858	Peak	466	37199	6806	1746	934	5	24	57	GR	SH- dk brn,occ calc fld fracs, lmy, immd strmg bl yel cut
			BG	144	11351	1978	657	481					
			Net	322	25848	4828	1089	453					
2	5631	5652	Peak	1206	93732	26835	402	2	3	390	36302	GR	LS-lt brn lt gy, crp-micxln, arg, aren ip, tr pyr, sft frm, wk mlky blyel cut
			BG	221	21129	821	216	0					
			Net	985	72603	26014	186	2					
3	5910	5919	Peak	950	69958	19312	3705	2029	4	18	40	GR	LS-tn, lt brn, crp-micxln, are nip, sft, tr pyr, sl doloic, wk mlky blyel cut
			BG	317	23140	6571	1161	855					
			Net	633	46818	12741	2544	1174					
4	6057	6080	Peak	1016	76885	19963	2723	2088	3	38	34	GR	SH-lt-m gy, sl silty, frm, sl strmg blyel cut
			BG	388	31262	5281	1516	748					
			Net	628	45623	14682	1207	1340					
5	6536	6544	Peak	562	43970	9234	2034	997	5	22	44	GR	LS-lt grbrn lt brn, crpxln, chlky ip, arg, sft, immd strmg bl wh cut, no flor
			BG	225	17611	3698	814	399					
			Net	337	26359	5536	1220	598					
6	6570	6580	Peak	1145	88195	16653	7247	2422	5	11	34	GR	LS-lt grbrn lt brn, crp-micxln, chlky ip, arg, sft, immd strmg bl wh cut, no flor
			BG	111	9282	1422	325	78					
			Net	1034	78913	15231	6922	2344					
7	6898	6904	Peak	1840	133218	41464	7339	1196	3	16	115	GR	SH-lt-m gy,rthy, blk, lmy, sl mlky blyl cut, oil/tar over shaker
			BG	440	32983	9556	1137	325					
			Net	1400	100235	31908	6202	871					

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8	7176	7202	Peak	1280	96709	28576	2779	10	3	32	7361	GR	LS-dkgybrn, pred chlky, mudstn, arg, sl strmy blyel cut
			BG	302	23100	6601	509	0					
			Net	978	73609	21975	2270	10					
9	7324	7353	Peak	2453	179923	56039	7811	1546	3	22	102	GR	SS-wh lt gy, vf(l)gr, cly mtz, tt, frm, calc cmt, no show
			BG	285	21760	6184	570	0					
			Net	2168	158163	49855	7241	1546					
10	7414	7499	Peak	3952	321128	48164	14807	11118	7	21	26	GR	SS-lt brn, vf(l)-f(u)gr, m sort, gd por, even blyel flor, lt brn stn, immd strmg blyel cut
			BG	442	36116	7082	1088	180					
			Net	3510	285012	41082	13719	10938					
11	8080	8150	Peak	2935	218286	66457	8381	429	3	24	533	GR	SH & SS CP80-Bar F SS- wh lt gy s&p, vf(l)-f(u)gr, f por, wk blyel cut, dk brn oil on shaker
			BG	645	53100	10124	1353	119					
			Net	2290	165186	56333	7028	310					
12	8273	8362	Peak	7354	412232	202977	70434	49824	2	5	7	GR	LS-gybrn, crpxl, arg, mrlstn, sft, immd blwh cut
			BG	714	56268	13055	2100	50					
			Net	6640	355964	189922	68334	49774					
13	8742	8780	Peak	7604	408822	210469	86777	54398	2	3	5	Wasatch	SS-tn gy, p por, wk blwh resid cut
			BG	2500	171660	60911	12091	5422					
			Net	5104	237162	149558	74686	48976					
14	8804	8828	Peak	8056	512499	212716	51036	29435	2	10	16	Wasatch	SS-tn gy, vf(l)-f(u)gr, cly mtz, p por, calc cmt, no smp show
			BG	2699	183130	62168	16427	8196					
			Net	5357	329369	150548	34609	21239					
15	9010	9034	Peak	6966	455963	173092	35127	32534	3	15	15	Wasatch	SS-gy wh s&p, vf(l)-f(l)gr, p por, cly mtz, calc cmt, wk yel resid cut
			BG	1560	103799	32253	11787	8287					
			Net	5406	352164	140839	23340	24247					

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Show Report

Show 1 4841-4858'

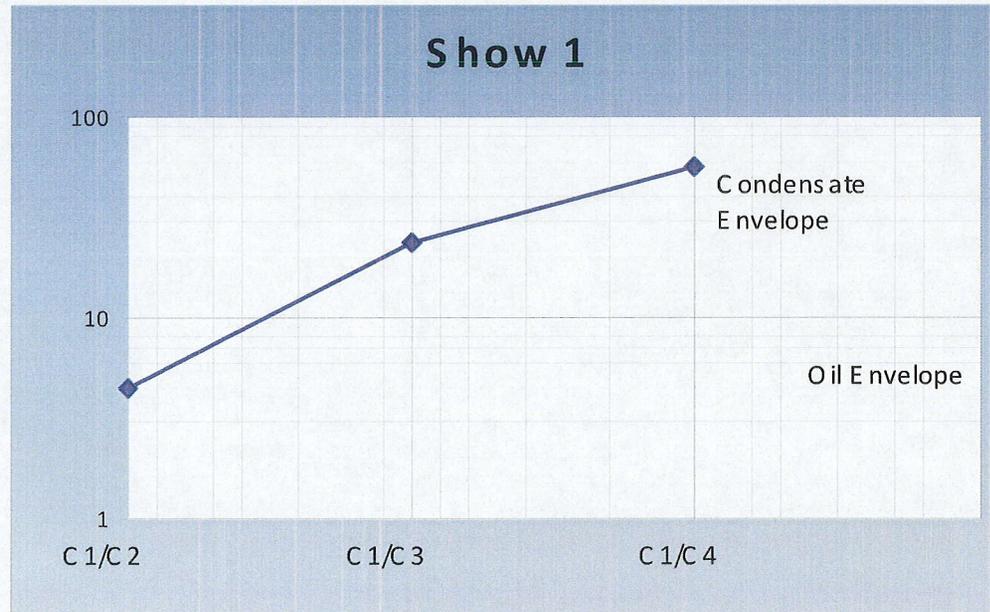


Figure 1.1 Show 1

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Show 2 5631-5652'

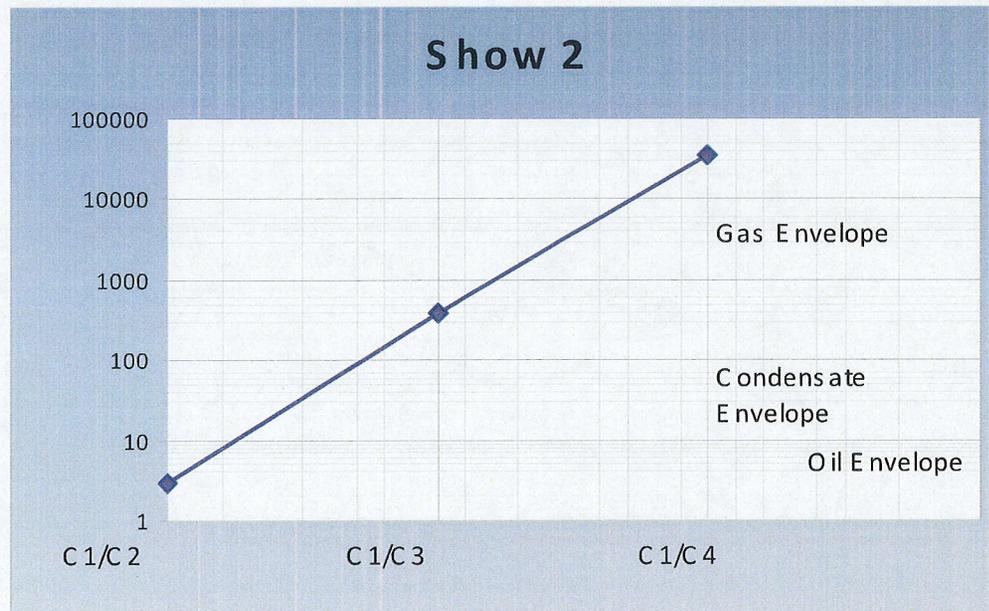


Figure 1.2 Show 2

Show 3 5910-5919'

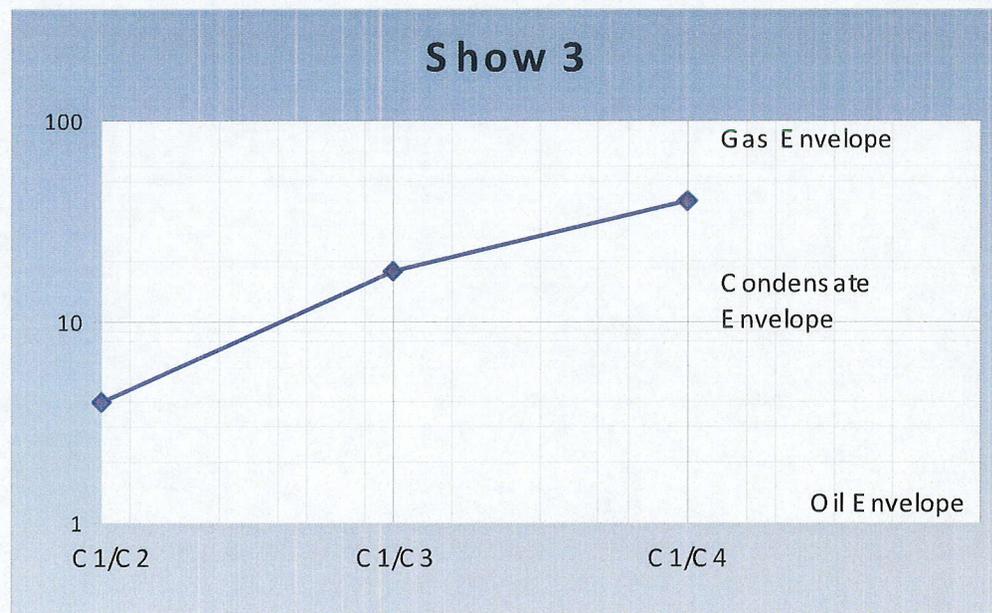


Figure 1.3 Show 3

Show 4 6057-6080'

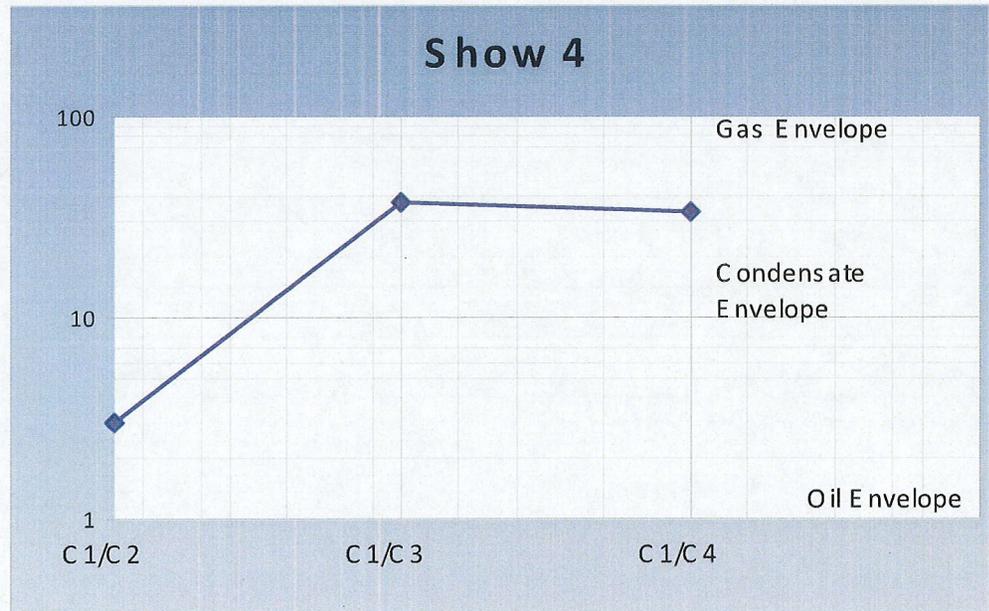


Figure 1.4 Show 4

Show 5 6536-6544'

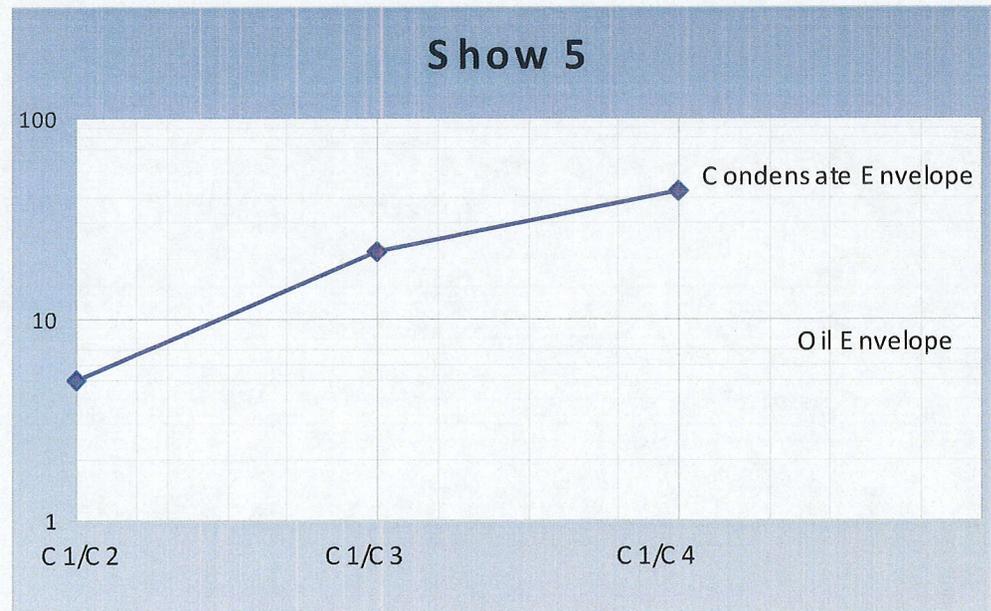


Figure 1.5 Show 5

Show 6 6570-6580'

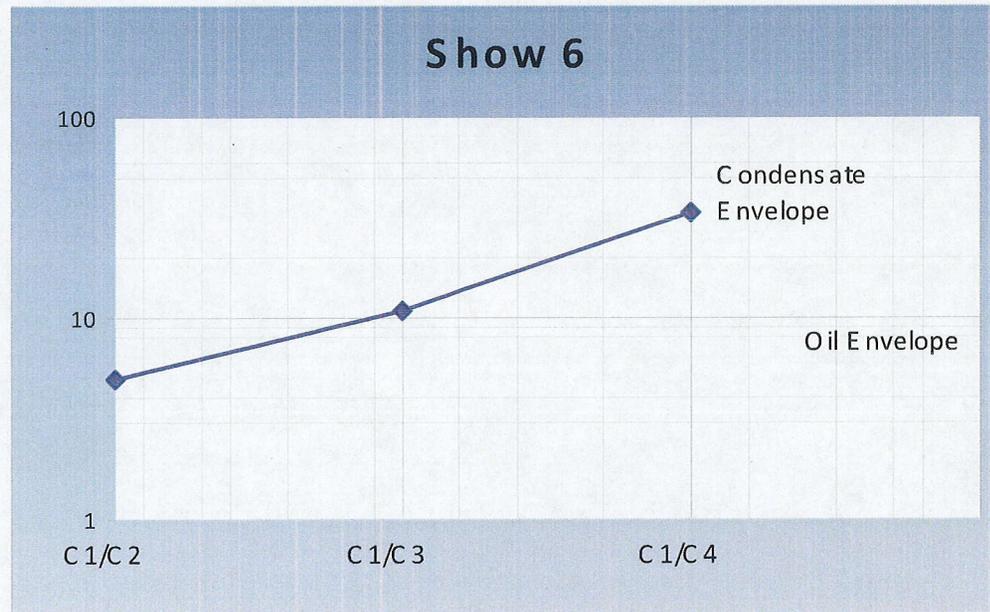


Figure 1.6 Show 6

Show 7 6898-6904'

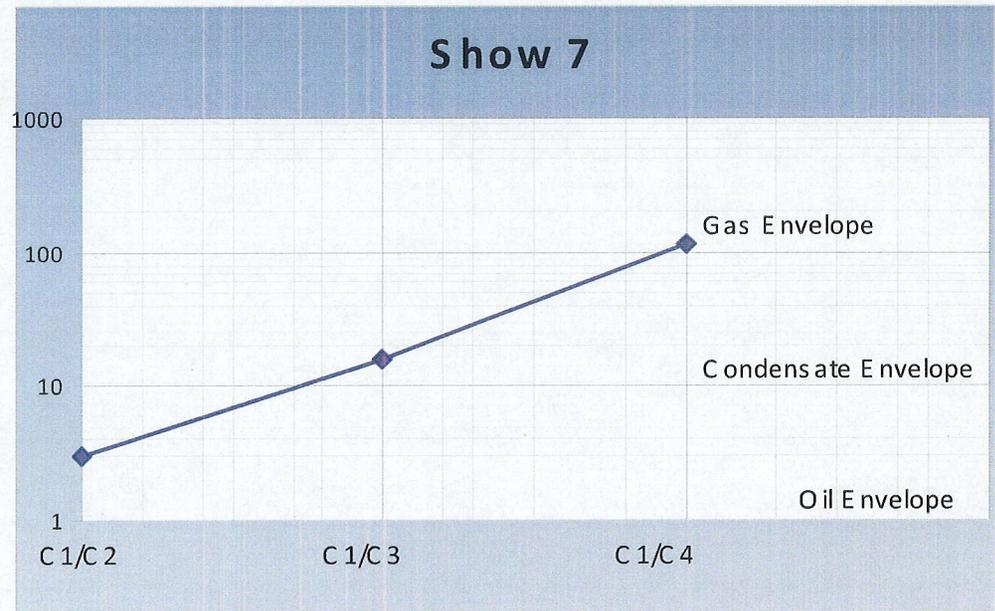


Figure 1.7 Show 7

Show 8 7176-7202

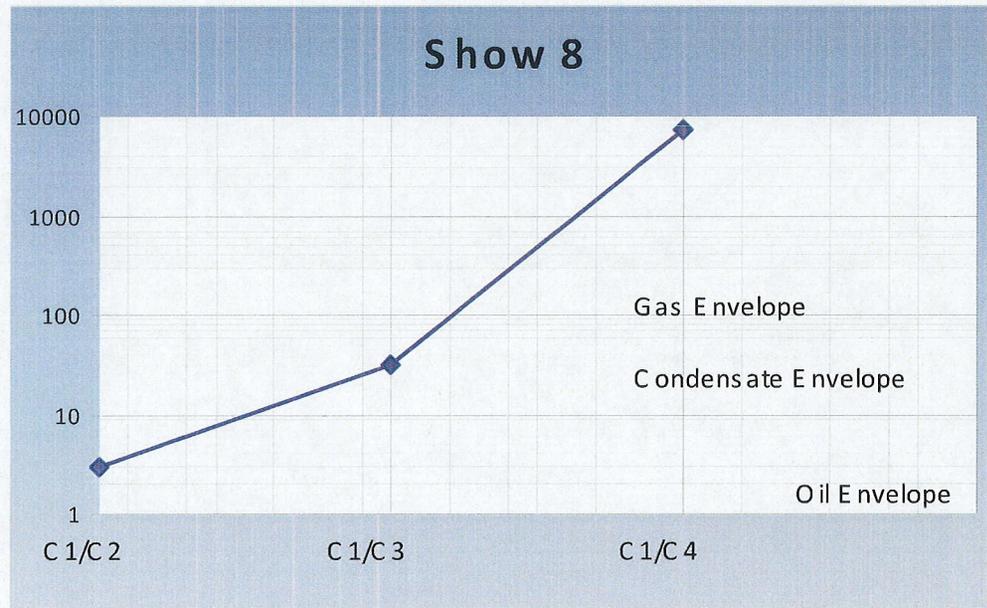


Figure 1.8 Show 8

Show 9 7324-7353

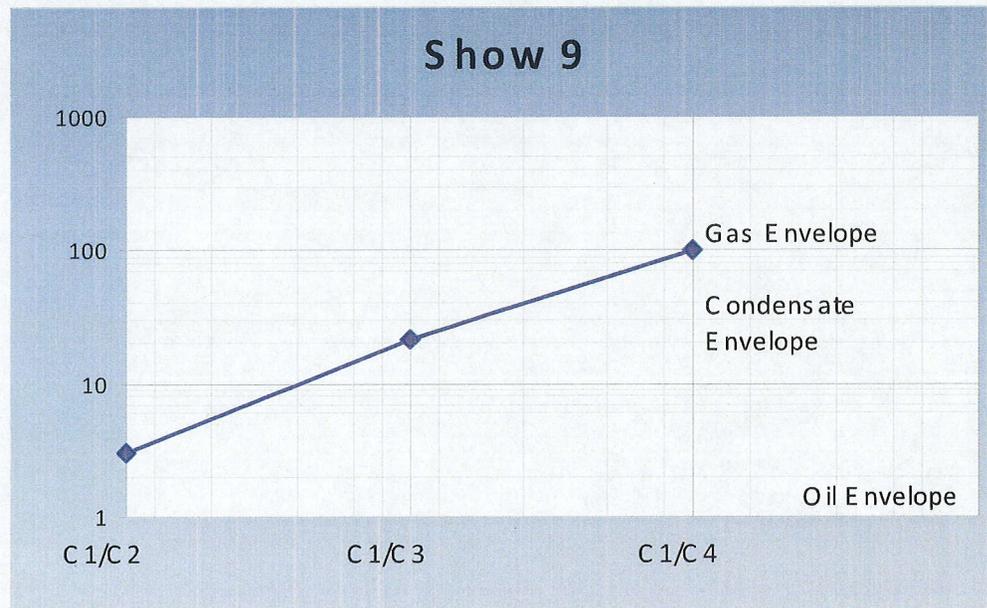


Figure 1.9 Show 9

Show 10 7414-7499

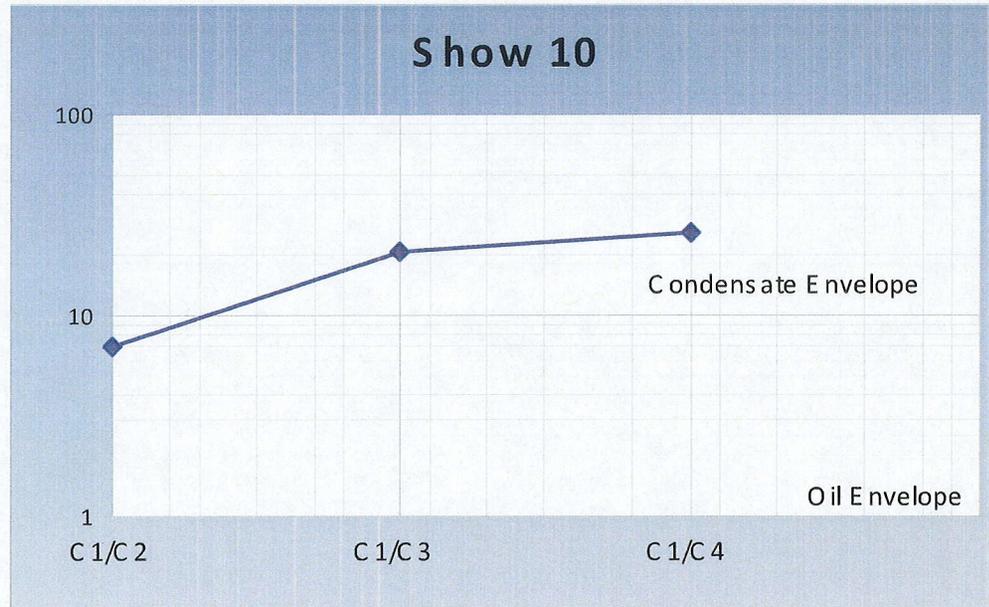


Figure 2.0 Show 10

Show 11 8080-8150

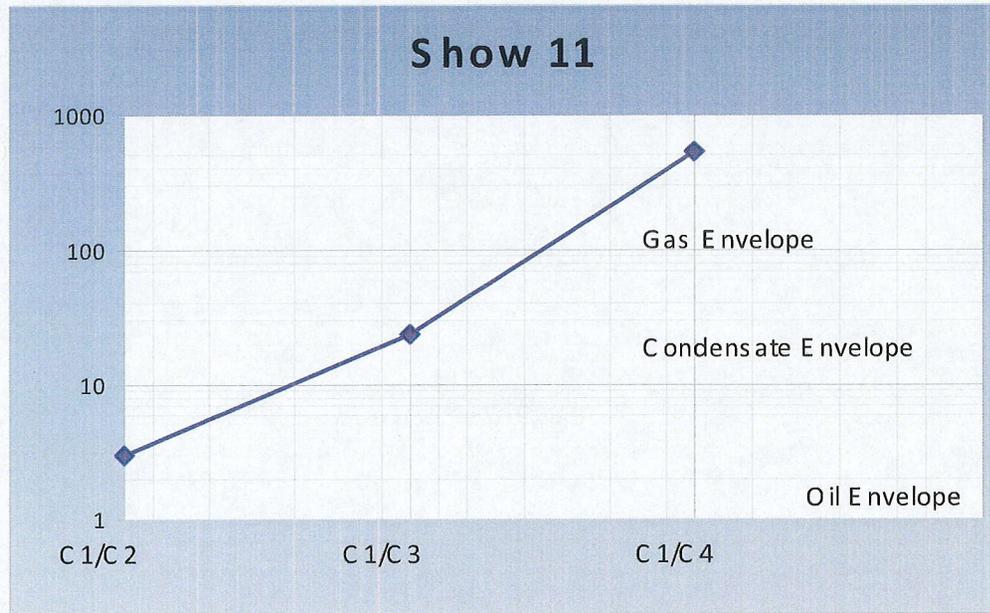


Figure 2.1 Show 11

Show 12 8273-8362

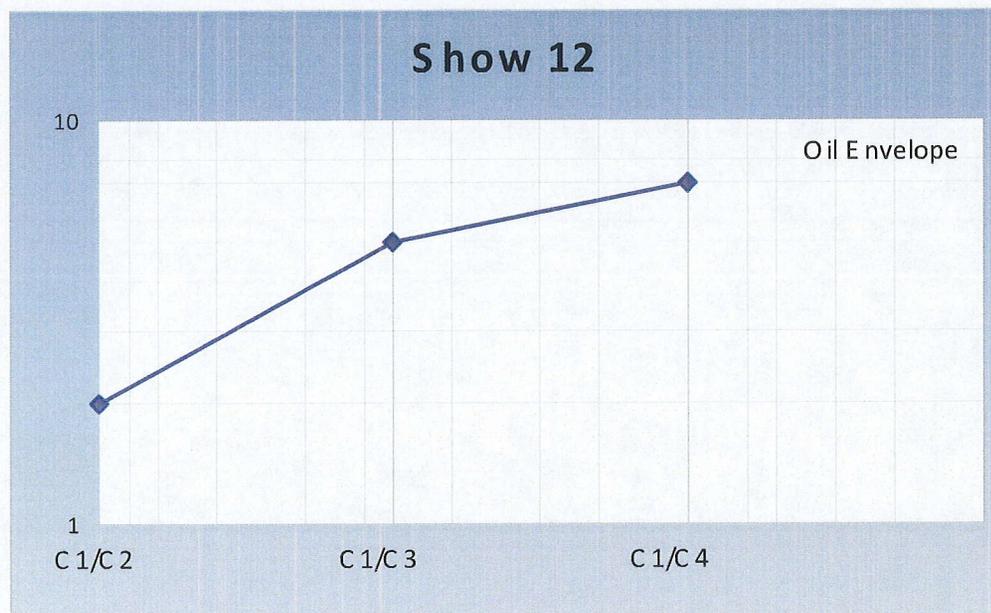


Figure 2.2 Show 12

Show 13 8742-8780

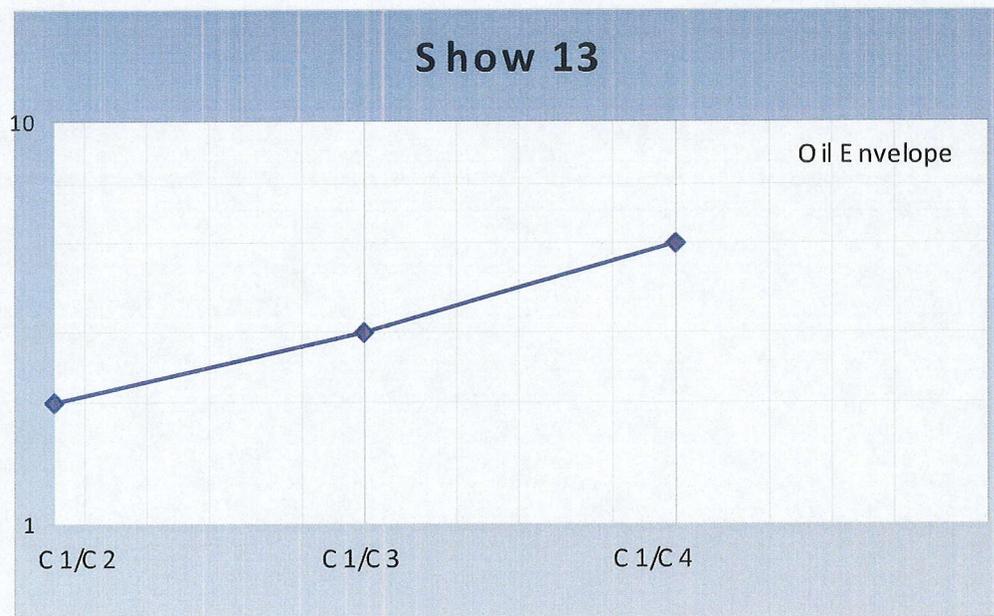


Figure 2.3 Show 13

Show 14 8804-8828

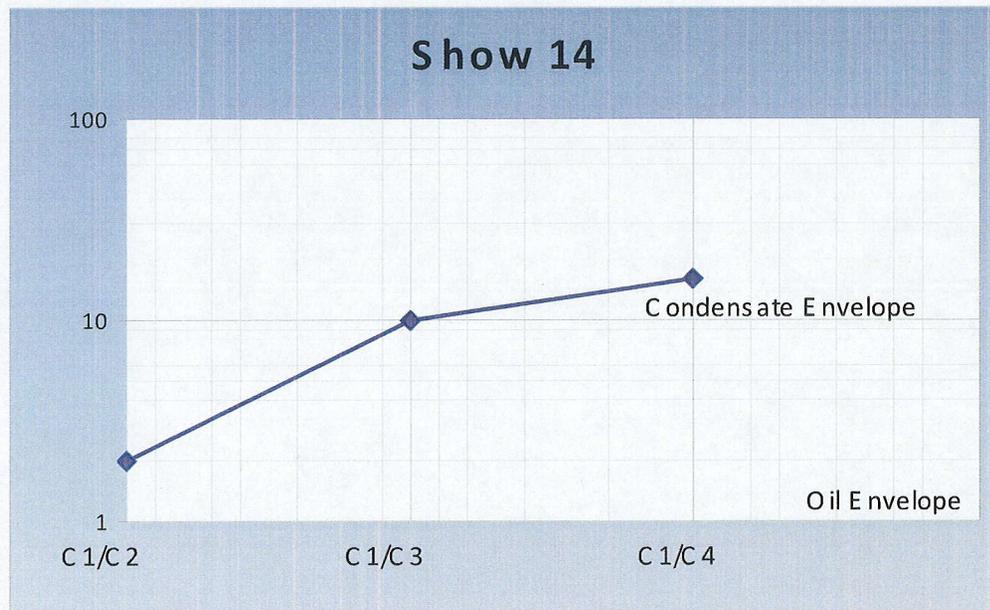


Figure 2.4 Show 14

Show 15 9010-9034

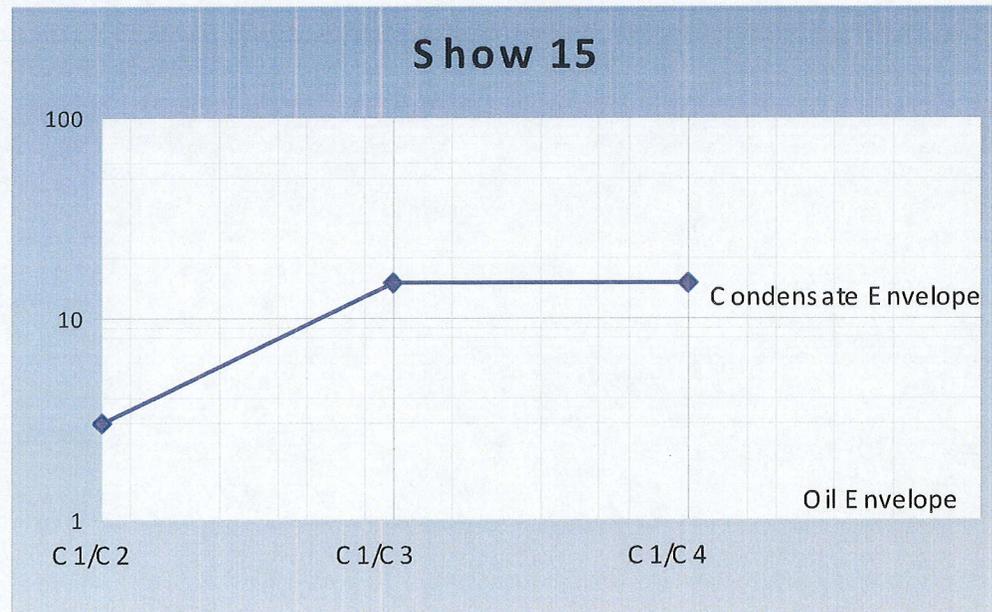


Figure 2.5 Show 15

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
4301350426	Giles #1-19-3-2		NENE	19	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>NE</i>	<i>17839</i>	17839	10/15/2010			<i>3/15/11</i>	
Comments: The well was spud utilizing Craigs at 0930 hrs. Conductor was set at 70' The referenced well was completed as <u>GR-WS</u> effective 03/15/2011. <i>4/7/11</i>							

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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	
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
Title
10/15/2010
Date

(5/2000)

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Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
 1. 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**

FROM: (Old Operator): N3520-Harvest (US) Holdings, Inc 1177 Enclave Parkway, Suite 300 Houston, TX 77077 Phone: 1 (281) 899-5700	TO: (New Operator): 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
- 4a. Is the new operator registered in the State of Utah: yes Business Number: 755627-0143
- 4b. If **NO**, the operator was contacted on:
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete or n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok
6. **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
7. **Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **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
- 2a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001834
- 2b. 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			5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
<small>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.</small>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____			7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY N2695			8. WELL NAME and NUMBER: GILES #1-19-3-2
3. ADDRESS OF OPERATOR: 1001 17TH ST. SUITE 2000 CITY DENVER STATE CO ZIP 80202		PHONE NUMBER: (303) 893-0102	9. API NUMBER: 4301350426
4. LOCATION OF WELL FOOTAGES AT SURFACE: 701 FNL & 1203 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 19 3S 2W			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: 5/17/2011	<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) <u>KELLY DONOHOUE</u>	TITLE <u>RM LAND MANAGER</u>
SIGNATURE <u><i>Kelly Donohoue</i></u>	DATE <u>5/17/2011</u>

(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

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: GILES #1-19-3-2
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013504260000
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202	PHONE NUMBER: 303 382-4443 Ext	9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0701 FNL 1203 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 19 Township: 03.0S Range: 02.0W Meridian: U		COUNTY: DUCHESNE
		STATE: 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
January 28, 2013**

NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician
SIGNATURE N/A	DATE 1/25/2013	

NEWFIELD PRODUCTION COMPANY

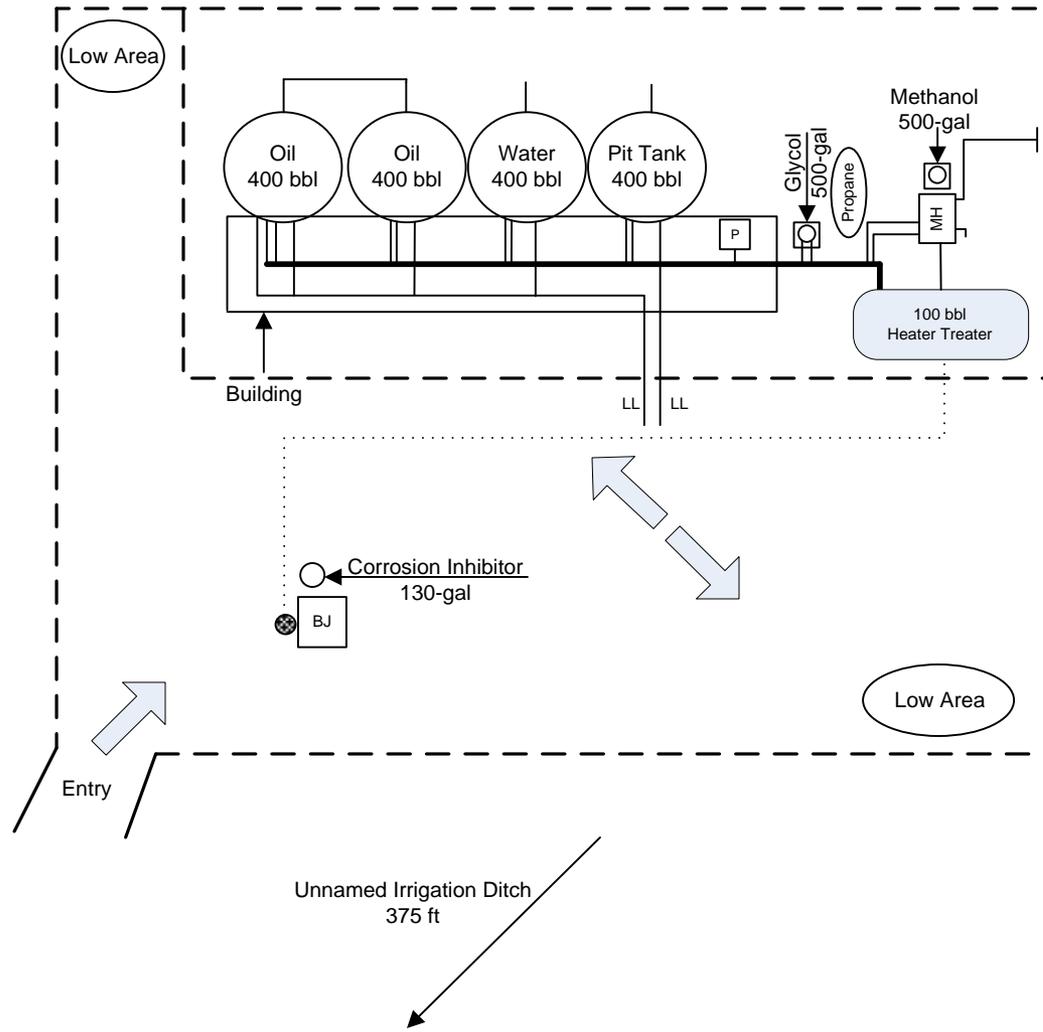
GILES 1-19-3-2W
SEC.19 T3S R2W
DUCHESNE COUNTY, UTAH



NOT TO SCALE

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



ALL UNDERGROUND PIPING IS FOR
PROCESS FLOW DEMONSTRATION ONLY

