

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 O.N. Moon 1-27-3-2		
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') Orven Neil Moon and Urma Jean Halstead Moon				14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-646-3174		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 9360 Pleasant Valley Road, Pleasant Valley, UT				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	2367 FNL 2219 FEL	SWNE	27	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	2367 FNL 2219 FEL	SWNE	27	3.0 S	2.0 W	U
At Total Depth	2367 FNL 2219 FEL	SWNE	27	3.0 S	2.0 W	U
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 2219		23. NUMBER OF ACRES IN DRILLING UNIT 40		
		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 5114		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 07/16/2010	EMAIL starpoint@etv.net
API NUMBER ASSIGNED 43013504030000	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)		
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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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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T3S, R2W, U.S.B.&M.

HARVEST (US) HOLDINGS, INC.

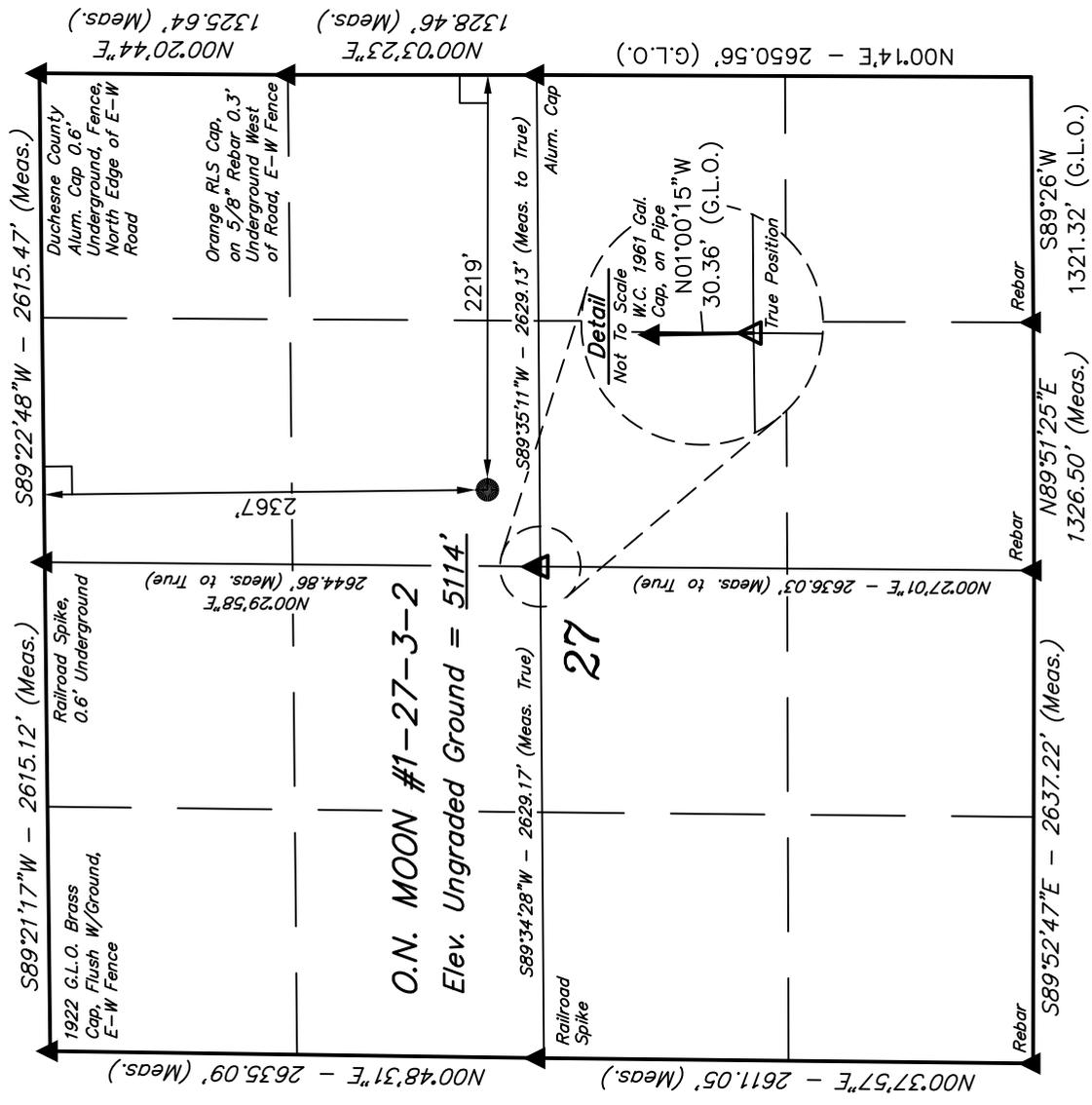
Well location, O.N. MOON #1-27-3-2, located as shown in the SW 1/4 NE 1/4 of Section 27, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

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.



(NAD 83)
 LATITUDE = 40°11'38.01" (40.193892)
 LONGITUDE = 110°05'38.06" (110.093906)
 (NAD 27)
 LATITUDE = 40°11'38.16" (40.193933)
 LONGITUDE = 110°05'35.52" (110.093200)

LEGEND:

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



S C A L E

C E R T I F I C A T E

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: 07-13-10

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-22-10	DATE DRAWN: 06-30-10
PARTY M.A. B.A. C.C.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE	

HARVEST (US) HOLDINGS, INC.

CONFIDENTIAL STATUS

HARVEST (US) HOLDINGS, INC.

O. N. Moon #1-27-3-2

Section 27-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'	-	4,580'
GREEN RIVER	4,580'	-	4,744'
UTELAND BUTTE	8,080'	-	8,530'
WASATCH	8,530'	-	10,000'
TD	10,500'		

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

Wasatch (Oil & Gas) 8,530' – 10,000'

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 3.38 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	6000' to surface	Light Premium w/ 2% gel, 6 lbs/sk light weight additive, 0.125 lb/sk lost circulation additive	610	30%*	11.5	2.77
			1690			
Production casing 5 ½" Tail	7800' to 6000'	50/50 Poz Premium w/ 2% expander, 0.3% fluid loss control, 0.3% retarder	420	30%*	14.3	1.29
			542			

*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.

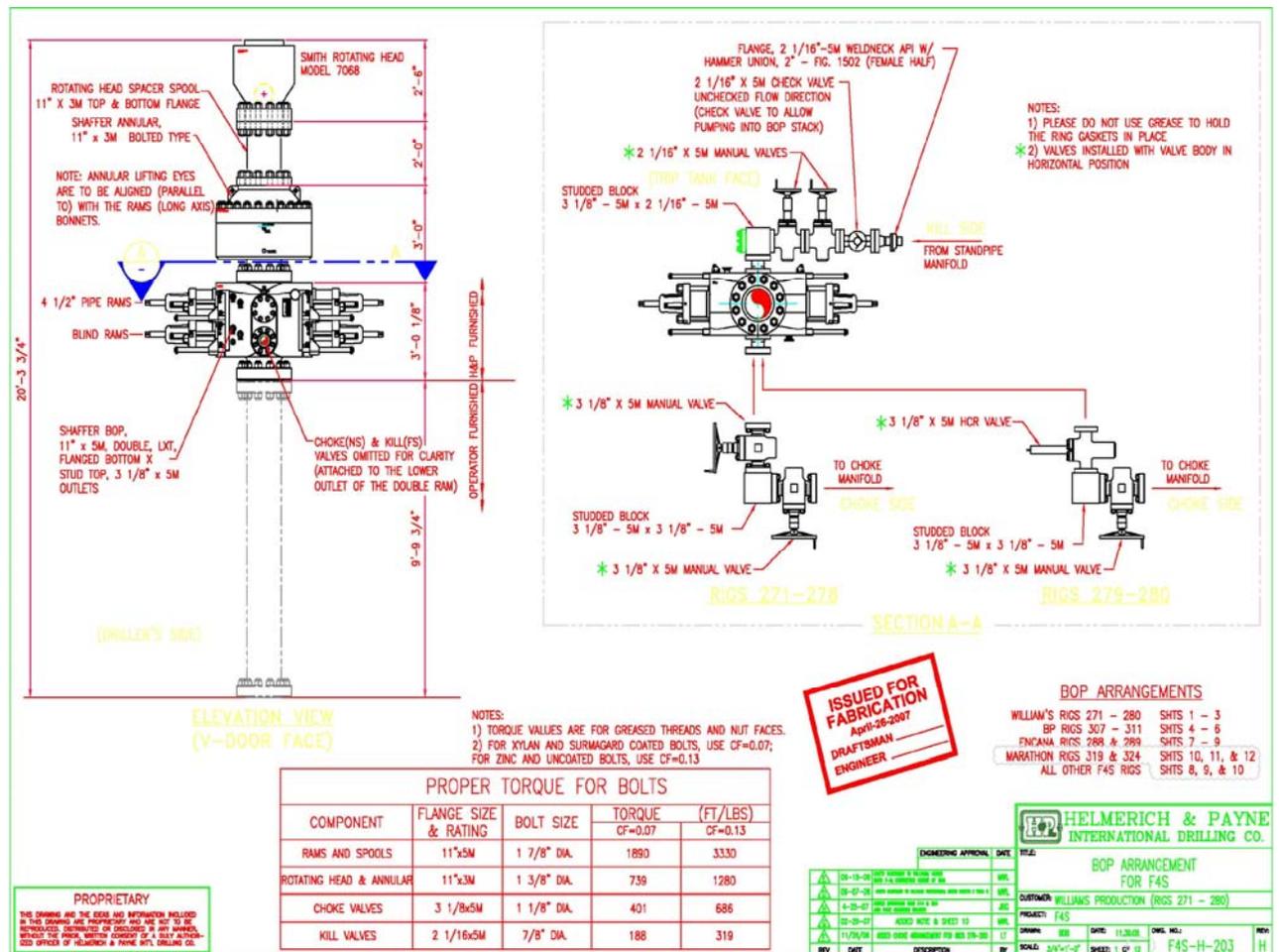
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

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: 60' core taken 8,300'-8,360' (estimated depth interval)

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:

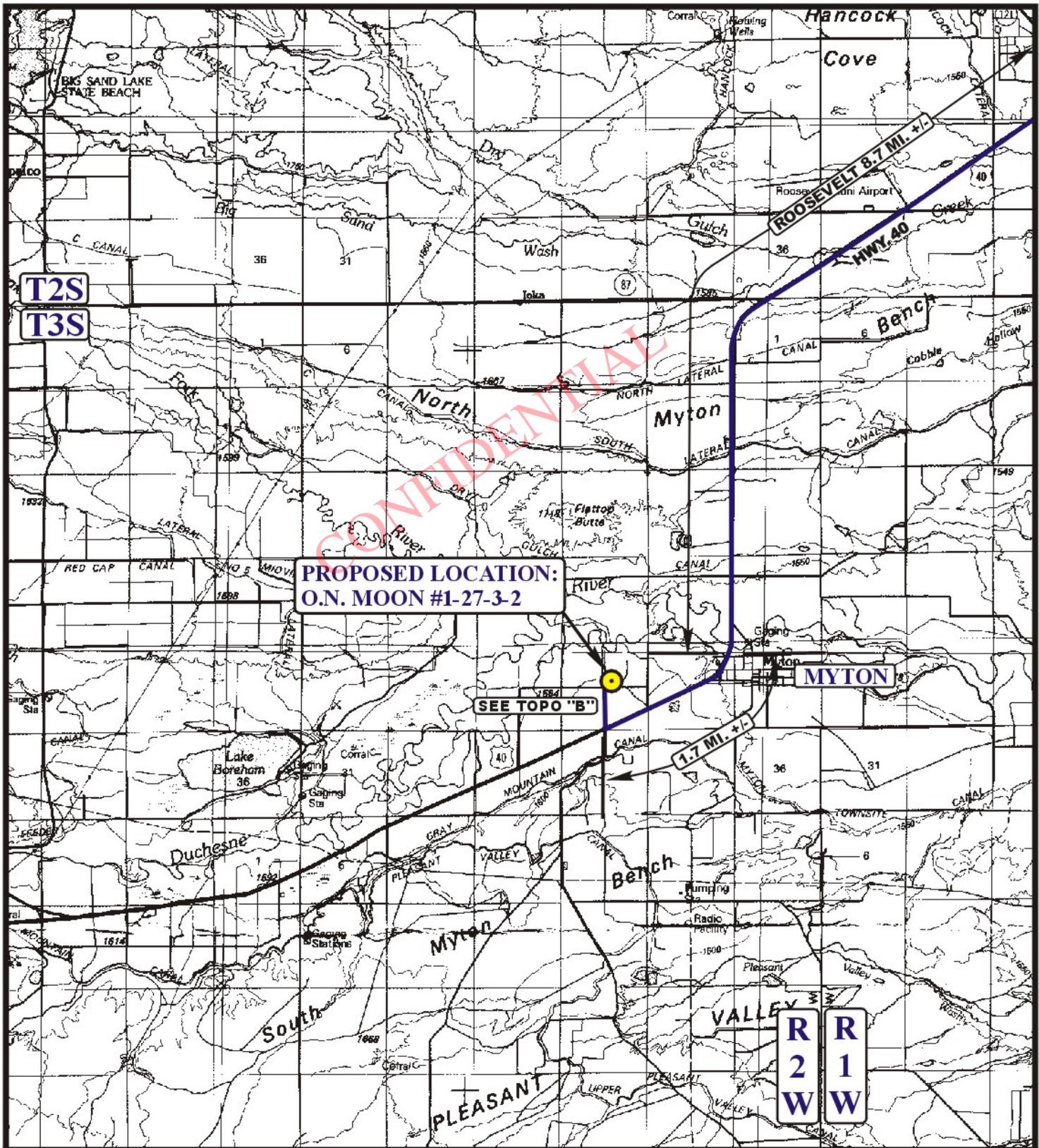
Anticipated Commencement Date:	15 August 2010
Drilling Days:	Approximately 40
Completion Days:	Approximately 21

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
Cosulting Drilling Manager
281-899-5776 Office
713-231-8319 Cell
bberry@harvestnr.com



**PROPOSED LOCATION:
O.N. MOON #1-27-3-2**

SEE TOPO "B"

MYTON

**R R
2 1
W W**

LEGEND:

PROPOSED LOCATION

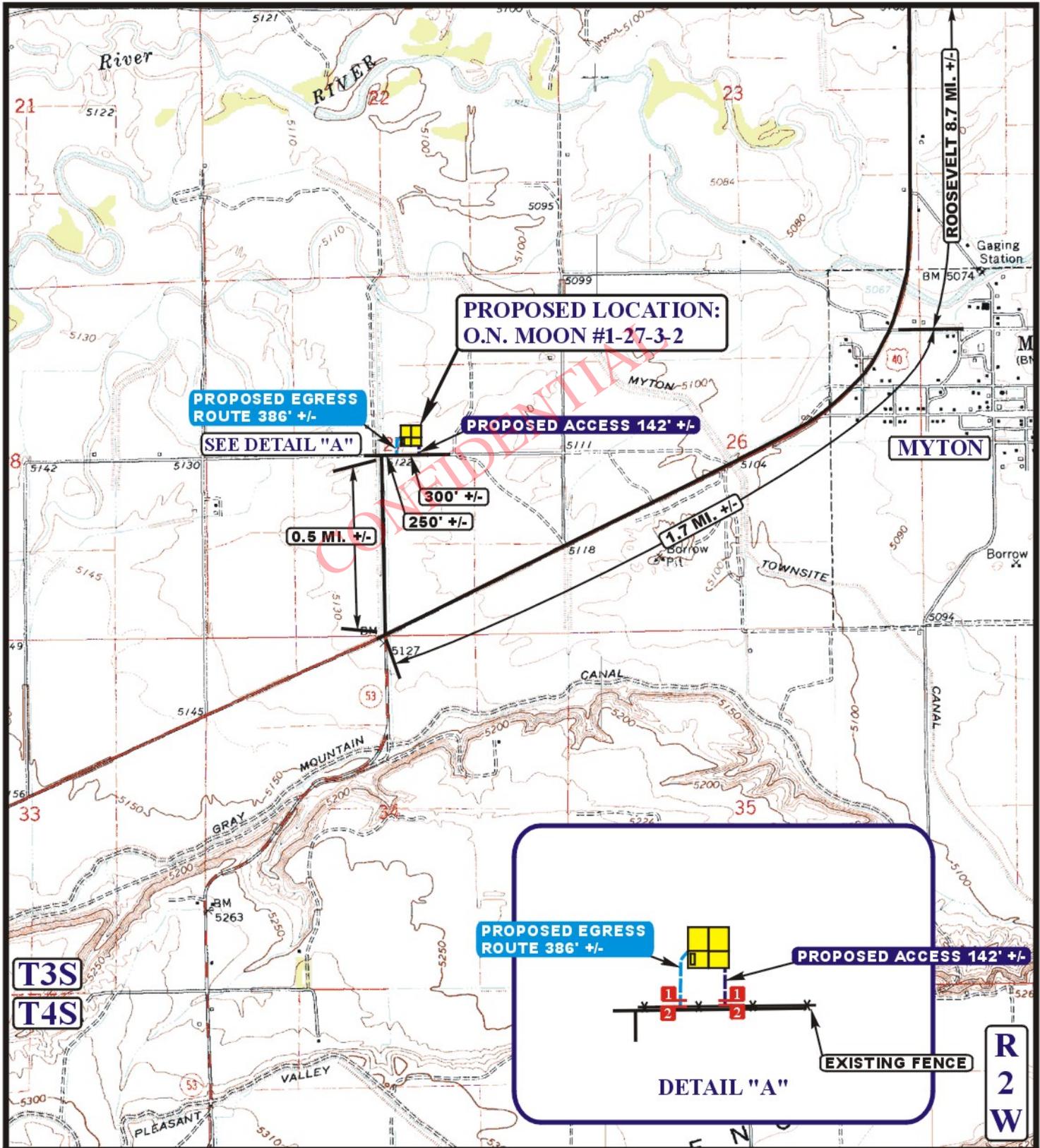
HARVEST (US) HOLDINGS, INC.

**O.N. MOON #1-27-3-2
SECTION 27, T3S, R2W, U.S.B.&M.
2367' FNL 2219' FEL**

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



TOPOGRAPHIC MAP **06 28 10**
MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: J.J. REVISED: 07-15-10 **A TOPO**



LEGEND:

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

HARVEST (US) HOLDINGS, INC.

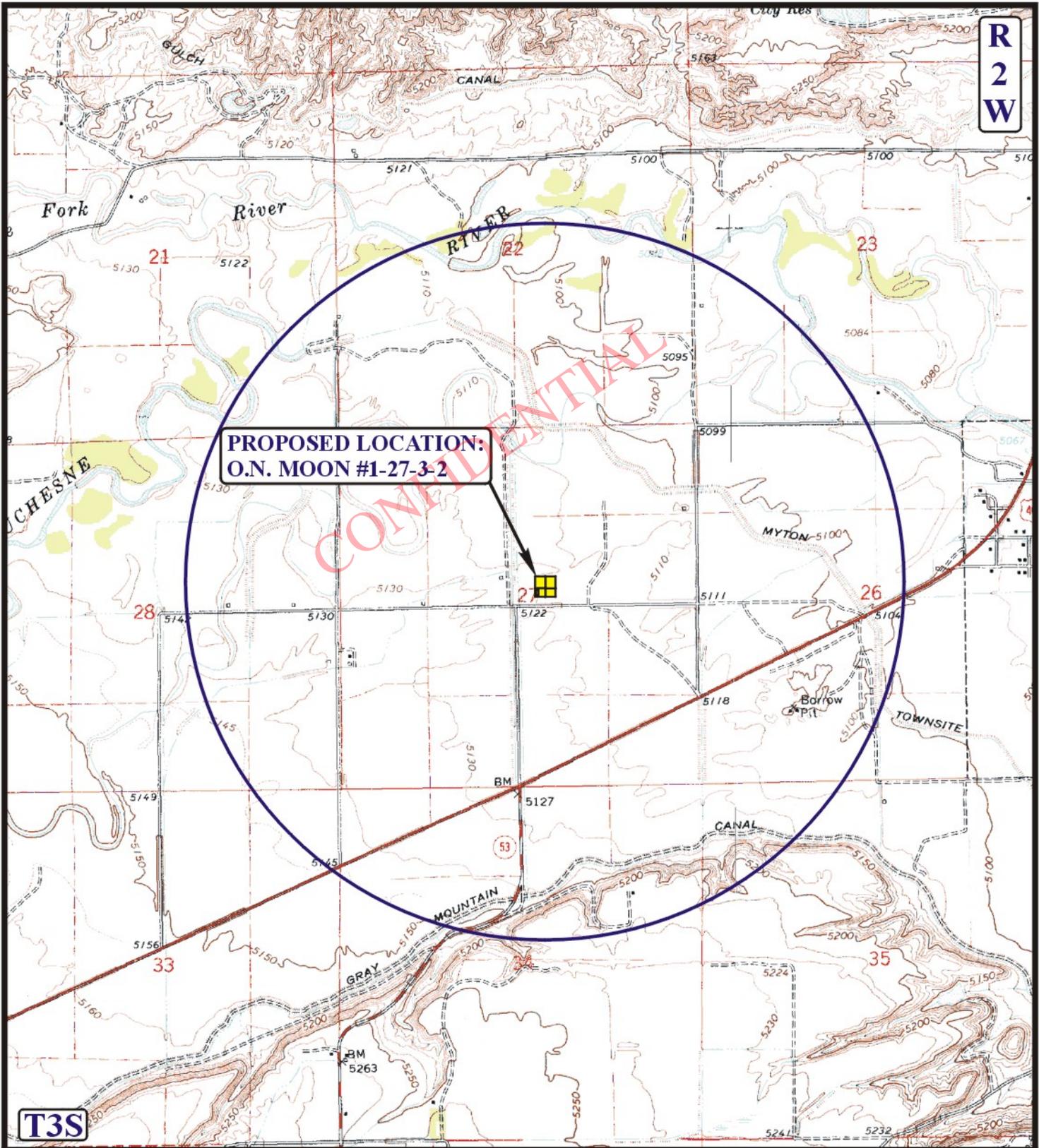
O.N. MOON #1-27-3-2
 SECTION 27, T3S, R2W, U.S.B.&M.
 2367' FNL 2219' FEL



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



TOPOGRAPHIC MAP	06	28	10	B TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: J.J.		REVISED: 07-15-10	



**PROPOSED LOCATION:
O.N. MOON #1-27-3-2**

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LEGEND:

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

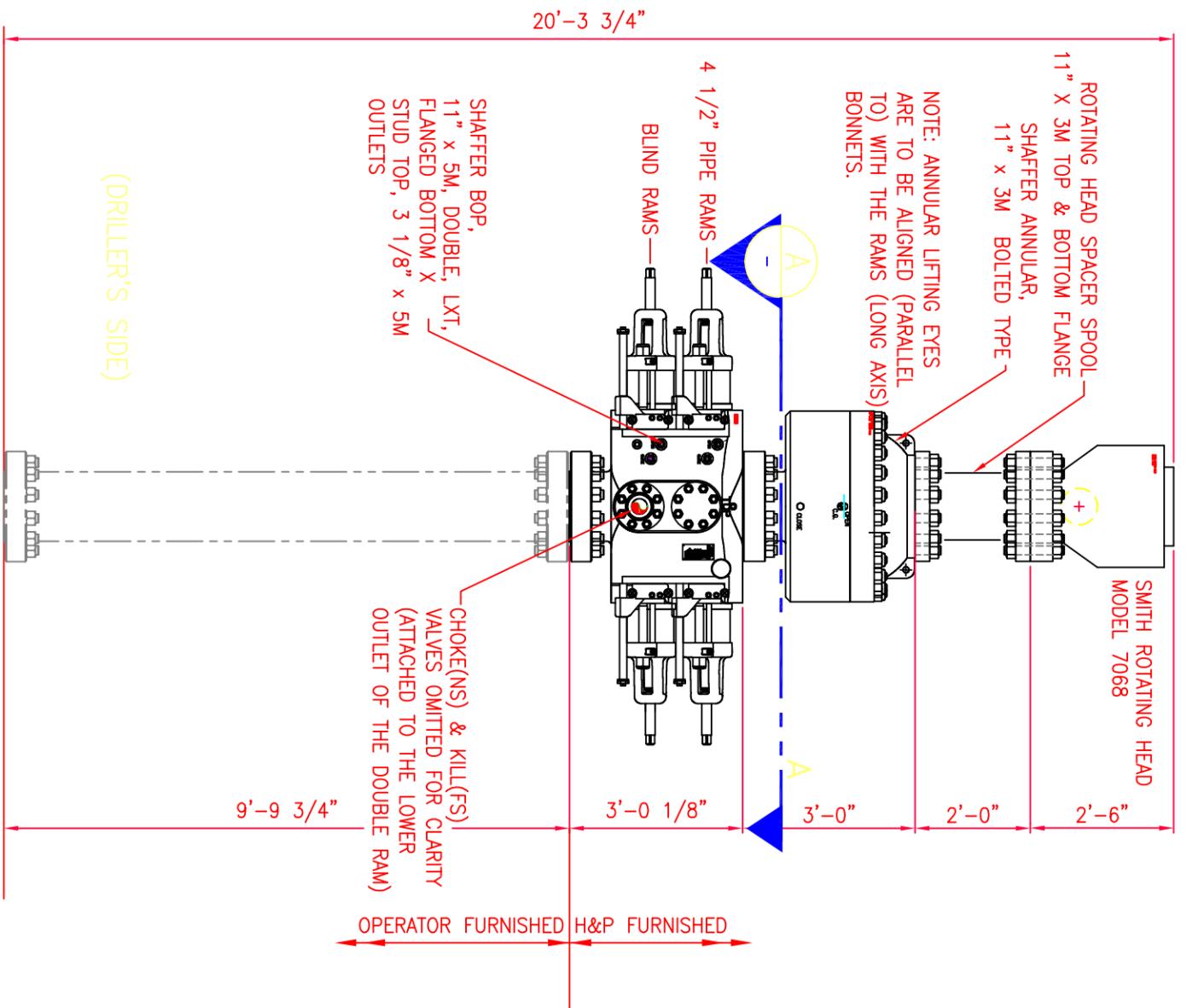
HARVEST (US) HOLDINGS, INC.

**O.N. MOON #1-27-3-2
SECTION 27, T3S, R2W, U.S.B.&M.
2367' FNL 2219' FEL**

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



TOPOGRAPHIC MAP 06 28 10
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 07-15-10 **C TOPO**

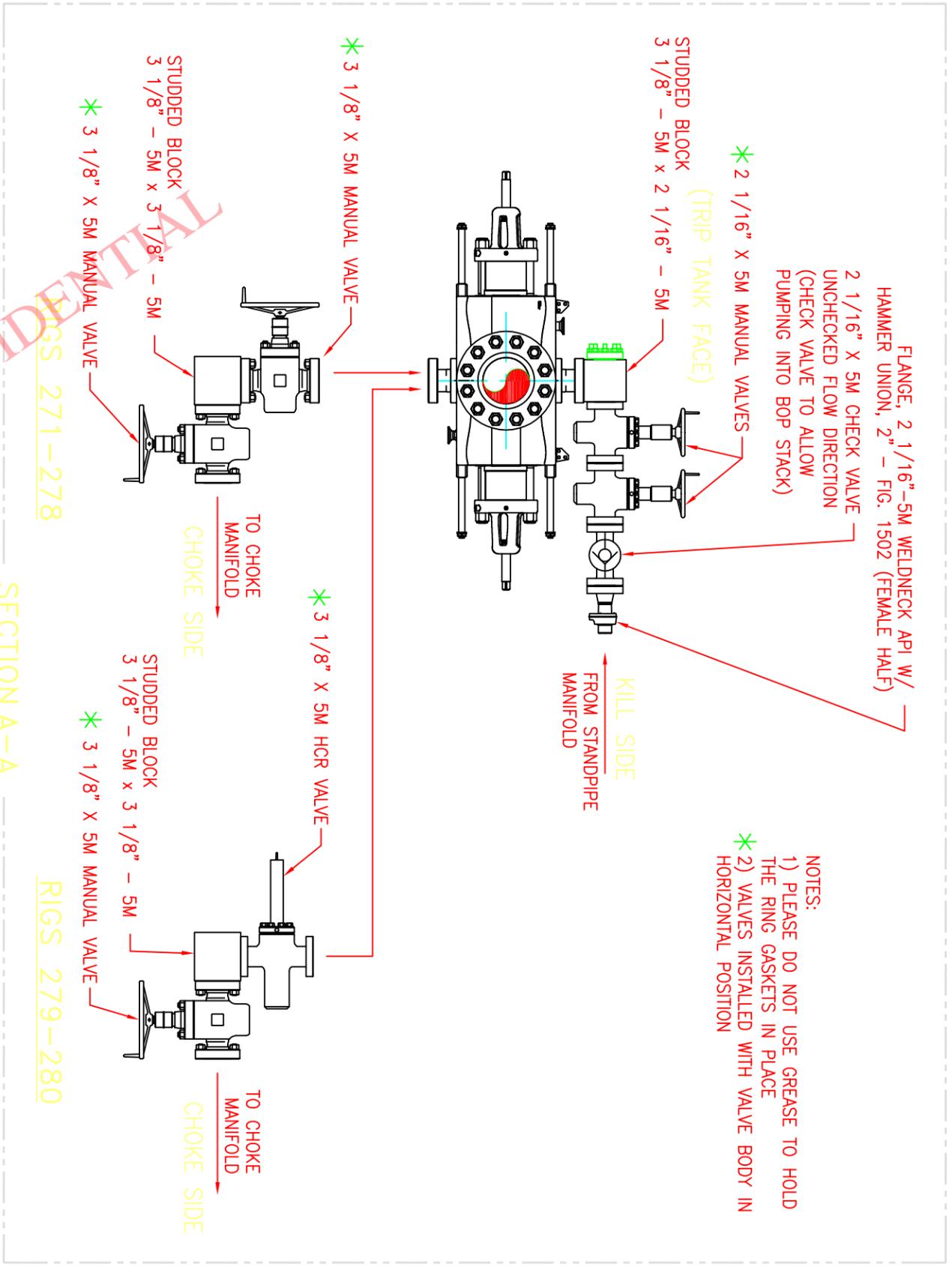


ELEVATION VIEW
(V-DOOR FACE)

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

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



SECTION A-A

BOP ARRANGEMENTS

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

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

BOP ARRANGEMENT FOR F4S

ENGINEERING APPROVAL	DATE
MWL	09-18-06
MWL	09-07-06
JBC	4-25-07
MWL	02-26-07
LT	11/29/06

TITLE:	BOP ARRANGEMENT
CUSTOMER:	WILLIAMS PRODUCTION (RIGS 271 - 280)
PROJECT:	F4S
DRAWN:	BOB
DATE:	11.30.05
SCALE:	3/4"=1'-0"
SHEET:	1 OF 12
REV:	H

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 DULUTH AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.



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

July 15, 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. – **O.N. Moon 1-27-3-2**
2367' FNL & 2,219' FEL, SW/4 NE/4, Section 27, T3S, R2W, SLB&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,

A handwritten signature in cursive script that reads 'Don Hamilton'.

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

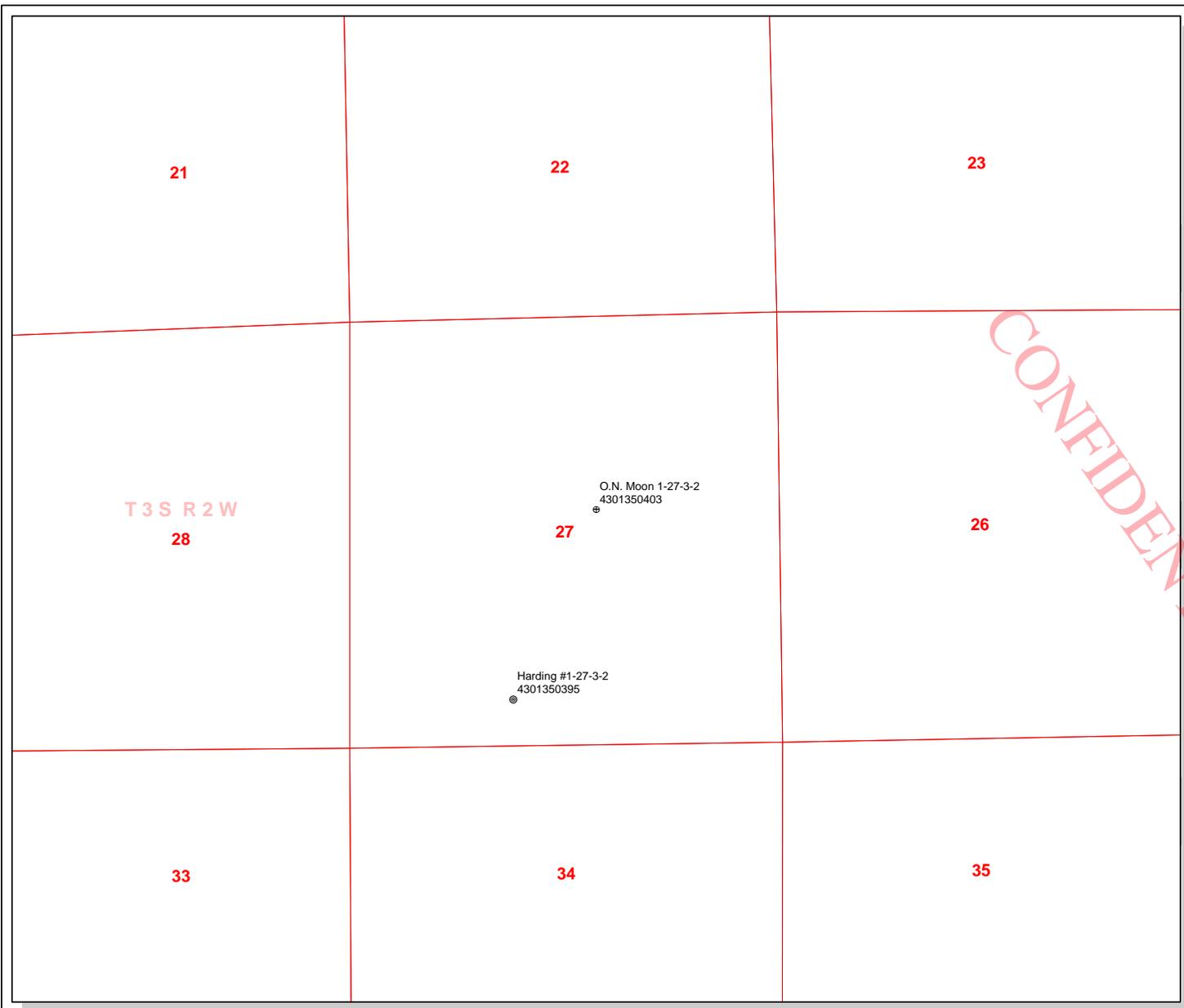
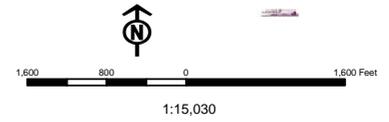
cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.
Bob B. Berry, PE, Harvest (US) Holdings, Inc.

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API Number: 4301350403
Well Name: O.N. Moon 1-27-3-2
Township 03.0 S Range 02.0 W Section 27
Meridian: UBM
Operator: HARVEST (US) HOLDINGS, INC

Map Prepared:
Map Produced by Diana Mason

- | | |
|---------------|--------------------------------------|
| Units | Wells Query |
| STATUS | Status |
| ACTIVE | ✕ -all other values- |
| EXPLORATORY | ◆ APD - Approved Permit |
| GAS STORAGE | ⊙ DRL - Spudded (Drilling Commenced) |
| NF PP OIL | ⊙ GW - 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 | ⊕ POW - Producing Oil Well |
| Fields | ⊕ RET - Returned APD |
| Sections | ⊕ SGW - Shut-in Gas Well |
| Township | ⊕ SOW - Shut-in Oil Well |
| | ⊕ TA - Temp. Abandoned |
| | ⊕ TW - Test Well |
| | ⊕ WDW - Water Disposal |
| | ⊕ WW - Water Injection Well |
| | ⊕ WSW - Water Supply Well |



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State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Office of the Governor
PUBLIC LANDS POLICY COORDINATION

JOHN HARJA
Director

August 2, 2010

Diana Mason
Petroleum Specialist
Department of Natural Resources, Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Subject: Harvest Holding APD in Duchesne County
RDCC Project No. 22121

Dear Ms. Mason:

The State of Utah, through the Public Lands Policy Coordination Office (PLPCO), has reviewed this project. Utah Code (Section 63J-4-601, *et. seq.*) designates PLPCO as the entity responsible to coordinate the review of technical and policy actions that may affect the physical resources of the state, and to facilitate the exchange of information on those actions among federal, state, and local government agencies. As part of this process, PLPCO makes use of the Resource Development Coordinating Committee (RDCC). The RDCC includes representatives from the state agencies that are generally involved or impacted by public lands management.

Division of Air Quality

The proposed well drilling project may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah 84116 for review according to R307-401: Permit: Notice of Intent and Approval Order, of the Utah Air Quality Rules. A copy of the rules can be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The Utah Division of Air Quality (DAQ) encourages the use of Best Management Processes in protecting air quality in Utah. The state recommends emission standards for stationary reciprocating internal combustion engines. These standards are 2 g/bhp-hr for engines less than 300 HP and 1 g/bhp-hr for engines over 300 HP.

The proposed project is subject to R307-205-5: Fugitive Dust, of the Utah Air Quality Rules, due to the fugitive dust that will be generated during the excavation of the roadway for the project and possibly the pad (based on pad size). These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules can be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The State of Utah appreciates the opportunity to review this proposal and we look forward to working with you on future projects. Please direct any other written questions regarding this correspondence to the Public Lands Policy Coordination Office at the address below, or call Judy Edwards at (801) 537-9023.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Harja', is written over a large, diagonal, red watermark that says 'CONFIDENTIAL'.

John Harja
Director

Well Name	HARVEST (US) HOLDINGS, INC O.N. Moon 1-27-3-2 43013504030000			
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	0	0	5000
Casing Internal Yield (psi)	1000	1730	3520	13580
Operators Max Anticipated Pressure (psi)	6279			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
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		0	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

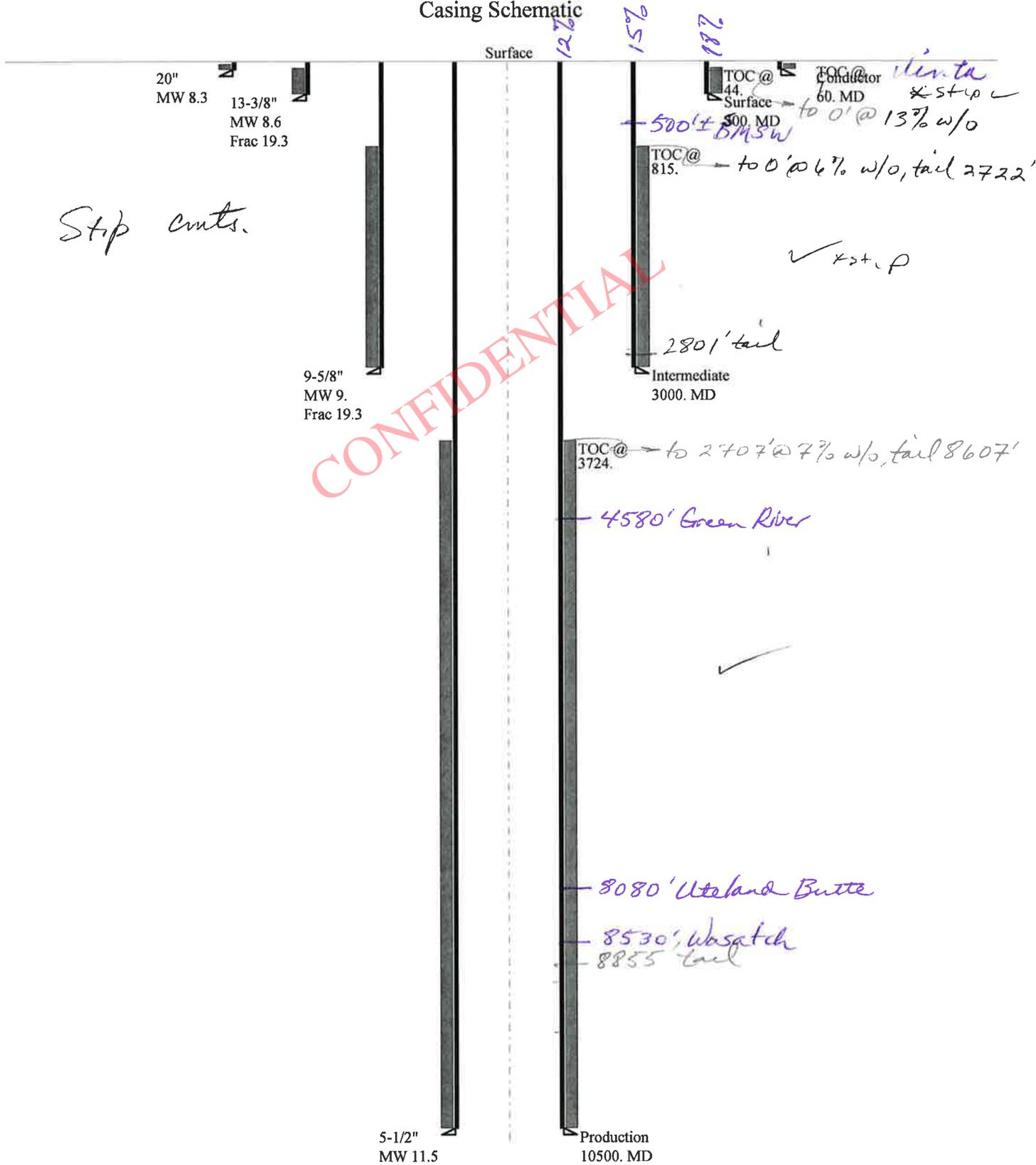
Calculations	Surf String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	224	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	164	NO fresh water and gel sweeps
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	114	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	127	NO
Required Casing/BOPE Test Pressure=		0	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 fresh water - gel system mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	744	NO No expected pressure - Divertor
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	854	NO
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 Water-based mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3969	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4629	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3000	psi *Assumes 1psi/ft frac gradient

43013504030000 O.N. Moon 1-27-3-2

Casing Schematic



Strip cuts.

CONFIDENTIAL

✓ x-stop

5-1/2" MW 11.5

Production 10500. MD

Well name:	43013504030000 O.N. Moon 1-27-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Surface	Project ID:	43-013-50403
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: August 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:	43013504030000 O.N. Moon 1-27-3-2	
Operator:	HARVEST (US) HOLDINGS, INC	
String type:	Intermediate	Project ID: 43-013-50403
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: August 9, 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:	43013504030000 O.N. Moon 1-27-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Production	Project ID:	43-013-50403
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: 3,724 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: August 5, 2010
 Salt Lake City, Utah

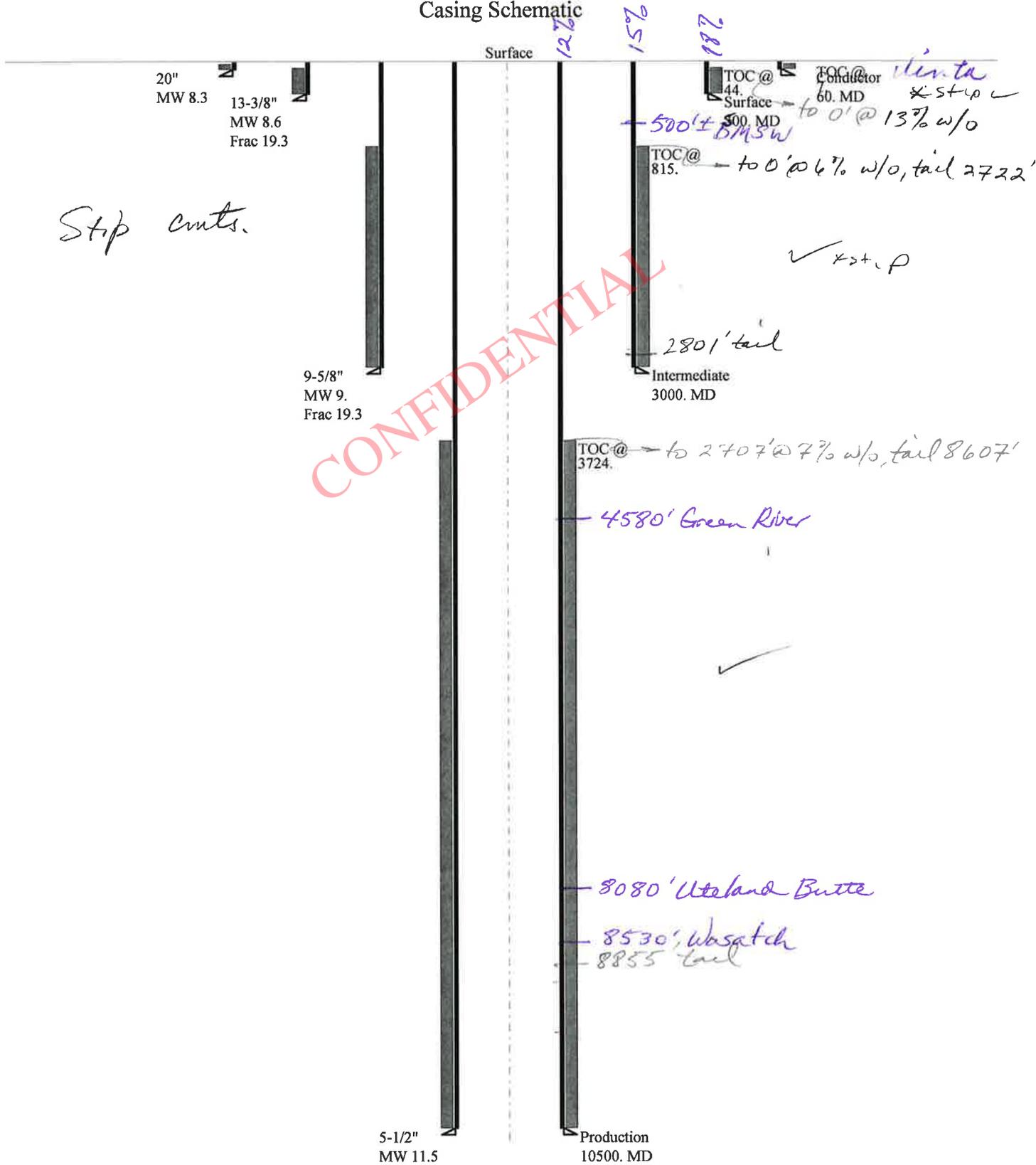
Remarks:

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.

43013504030000 O.N. Moon 1-27-3-2

Casing Schematic



Stop cuts.

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Well name:	43013504030000 O.N. Moon 1-27-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Surface	Project ID:	43-013-50403
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: August 12, 2010
Salt Lake City, Utah

Remarks:

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Burst strength is not adjusted for tension.

Well name:	43013504030000 O.N. Moon 1-27-3-2	
Operator:	HARVEST (US) HOLDINGS, INC	
String type:	Intermediate	Project ID: 43-013-50403
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:

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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: August 9, 2010
Salt Lake City, Utah

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Burst strength is not adjusted for tension.

Well name:	43013504030000 O.N. Moon 1-27-3-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Production	Project ID:	43-013-50403
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

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Burst:

Design factor 1.00

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 Surface temperature: 74 °F
 Bottom hole temperature: 221 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 3,724 ft

Burst

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 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,273 psi

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 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
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Date: August 5, 2010
 Salt Lake City, Utah

Remarks:

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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 O.N. Moon 1-27-3-2
API Number 43013504030000 **APD No** 2815 **Field/Unit** WILDCAT
Location: 1/4,1/4 SWNE **Sec** 27 **Tw** 3.0S **Rng** 2.0W 2367 FNL 2219 FEL
GPS Coord (UTM) 577189 4449468 **Surface Owner** Orven Neil Moon and Urma Jean Halstead Moon

Participants

Floyd Bartlett (DOGM), Bob Berry, Mark Brewer (Harvest Holdings), Zander McIntyre (6G Management Services), McCoy Anderson (UELS) and Neil Moon Surface Owner.

Regional/Local Setting & Topography

The general area is approximately 2.0 road miles southwest of Myton, Duchesne County, Utah. Site is within the historic bottomlands formed by the Duchesne River, which is located approximately 2 miles north to the location. General topography is broad bottomlands bordered by gentle to steep sloping side-hills. Much of the bottomlands are used for agriculture or sub-irrigated grazing lands. Access is by State, County and a planned oil field development road. Approximately 142 feet of new construction extending north from a Duchesne County Road across Moon's private land will be required to reach the location.

The proposed O.N. Moon #1-27-3-2 oil well location is on property owned by the Orven Neil Moon Family Trust. Neil Moon, a trustee, attended the pre-site. The minerals are FEE owned by another party. The site is 1.0 mile north of Highway 40. Topography is essentially flat with a subtle slope to the east and north. The area was previously used as an old surface gravel removal site which has been left nearly flat. Two test holes were dug and the water table was determined to be down about 3 feet. Surface drain ditches parallel the site on west and north. An old French drain transects the location north of the proposed well bore. This drain will be relocated around the west and north side of the proposed pad. The site is composed of typical river bottoms gravel down to the depth the test holes were dug. It was discussed and determined at the pre-site that stability under the rig scheduled to drill the well should not be a problem. As an added measure up to 6-inches of crushed road base would be added for leveling and as support to the foot print to be occupied by the rig, pipe racks and tanks. The remainder of the pad will be graded level and only have added gravel to facilitate the trailers and driving surface. A berm will be constructed around the east and north sides of the location as they are the only sides that fluids could leave the pad. The well will be drilled using a closed loop mud circulation system. An above ground containment will be constructed for the cuttings. Following well completion, the cuttings will be scattered on the surface of the area. The selected site with the planned surface hardening and support under the rig should be suitable for drilling and operating the well. The location will be fenced.

Surface Use Plan

Current Surface Use

Grazing
 Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.01	Width 300 Length 300	Onsite	DUCHR

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

The site is poorly vegetated. Species include yellow sweet clover, kochia weed, tamarix, Russian olive trees, whitetop and annuals.

Cattle antelope, deer, small mammals and birds.

Soil Type and Characteristics

Deep gravel. No topsoil exists.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

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

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Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)		20
Distance to Surface Water (feet)	100 to 200	15
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	50 1 Sensitivity Level

Characteristics / Requirements

The well will be drilled using a closed loop mud circulation system. An above ground containment will be constructed for the cuttings. Following well completion, the cuttings will be scattered on the surface of the area.

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

Other Observations / Comments

Floyd Bartlett
Evaluator

7/19/2010
Date / Time

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Application for Permit to Drill Statement of Basis

8/18/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2815	43013504030000	LOCKED	OW	P	No
Operator	HARVEST (US) HOLDINGS, INC		Surface Owner-APD	Orven Neil Moon and Urma Jean Halstead Moon	
Well Name	O.N. Moon 1-27-3-2		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	SWNE 27 3S 2W U 2367 FNL 2219 FEL GPS Coord (UTM) 577192E 4449458N				

Geologic Statement of Basis

Harvest proposes to set 60' of conductor and 300' 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 27. All wells are privately owned. Depth is listed as ranging from 30 to 300 feet. Depths are not listed for 3 wells. Average depth is less than 100 feet. Water use is listed as irrigation, stock watering, and domestic use. 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 surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill
APD Evaluator

8/4/2010
Date / Time

Surface Statement of Basis

The general area is approximately 2.0 road miles southwest of Myton, Duchesne County, Utah. Site is within the historic bottomlands formed by the Duchesne River, which is located approximately 2 miles north to the location. General topography is broad bottomlands bordered by gentle to steep sloping side-hills. Much of the bottomlands are used for agriculture or sub-irrigated grazing lands. Access is by State, County and a planned oil field development road. Approximately 142 feet of new construction extending north from a Duchesne County Road across Moon's private land will be required to reach the location.

The proposed O.N. Moon #1-27-3-2 oil well location is on property owned by the Orven Neil Moon Family Trust. Neil Moon, a trustee, attended the pre-site. The minerals are FEE owned by another party. The site is 1.0 mile north of Highway 40. Topography is essentially flat with a subtle slope to the east and north. The area was previously used as an old surface gravel removal site which has been left nearly flat. Two test holes were dug and the water table was determined to be down about 3 feet. Surface drain ditches parallel the site on west and north. An old French drain transects the location north of the proposed well bore. This drain will be relocated around the west and north side of the proposed pad. The site is composed of typical river bottoms gravel down to the depth the test holes were dug. It was discussed and determined at the pre-site that stability under the rig scheduled to drill the well should not be a problem. As an added measure up to 6-inches of crushed road base would be added for leveling and as support to the foot print to be occupied by the rig, pipe racks and tanks. The remainder of the pad will be graded level and only have added gravel to facilitate the trailers and driving surface. A berm will be constructed around the east and north sides of the location as they are the only sides that fluids could leave the pad. The well will be drilled using a closed loop mud circulation system. An above ground containment will be constructed for the cuttings. Following well completion, the cuttings will be scattered on the surface of the area. The selected site with the planned surface hardening and support under the rig should be suitable for drilling and operating the well. The location will be fenced.

Floyd Bartlett
Onsite Evaluator

7/19/2010
Date / Time

Application for Permit to Drill Statement of Basis

8/18/2010

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 7/16/2010

API NO. ASSIGNED: 43013504030000

WELL NAME: O.N. Moon 1-27-3-2

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

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: SWNE 27 030S 020W

Permit Tech Review:

SURFACE: 2367 FNL 2219 FEL

Engineering Review:

BOTTOM: 2367 FNL 2219 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.19386

LONGITUDE: -110.09315

UTM SURF EASTINGS: 577192.00

NORTHINGS: 4449458.00

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:** 2010-08-12 00:00:00.0
- Fee Surface Agreement**
- Intent to Commingle**

Commingle Approved

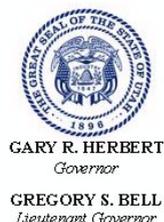
LOCATION AND SITING:

- 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 - bhill
- 5 - Statement of Basis - bhill
- 9 - Cement casing to Surface - ddoucet
- 12 - Cement Volume (3) - hmacdonald
- 21 - RDCC - dmason
- 23 - Spacing - dmason



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: O.N. Moon 1-27-3-2
API Well Number: 43013504030000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 8/18/2010

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:

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

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).

The cement volumes for the 9 5/8" and 13 3/8" casings shall be determined from actual hole conditions and the setting depth of the casing in order to place cement from the pipe setting depth back to the surface.

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2800' MD as indicated in the submitted drilling plan.

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.

A handwritten signature in black ink, appearing to read "B. D. ...", written in a cursive style.

Acting 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	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
------------------------------------	-------------------------------------------------------

2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504030000
-----------------------------------------------------------	-----------------------------------------

3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
-----------------------------------------------------------------------------	------------------------------------------	-------------------------------------------------

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/19/2010			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

The O.N. Moon 1-27-3-2 was spud at 7:00 am on August 19, 2010.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 23, 2010

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A	DATE 8/21/2010	

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FSL	9. API NUMBER: 43013504030000
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.05 Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHEсне
	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 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: 8/21/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 8-21-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 8/22/2010

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
August 23, 2010

Carol Daniels - O.N. Moon #1-27-3-2 Update *T03S R02W S-27 43-013-50403*

From: "Field Supervisor"
To: "Bob Berry" , "Carol Daniels" , "Chrissy Vance" , "Dan Jarvis" , "Dennis Ingram" , "Don Hamilton" , "Dustin Doucet" , "Victor King"
Date: 8/21/2010 8:28 AM
Subject: O.N. Moon #1-27-3-2 Update

All,
Currently this morning at report time we were drilling 17 ½" hole @ 220'. At this progress we expect to TD @ 2300 hrs and running 13 3/8" casing and cementing early tomorrow morning August 22, 2010.

Thank you.

Drilling Supervisor - Harvest Natural Resources
Office: (435) 790-2060
Co. Cell: (281) 770-4084

Jeff Schrutka

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

RECEIVED

AUG 24 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

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PHONE NUMBER: 281 899-5722 Ext.	8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FSL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.05 Range: 02.0W Meridian: U	9. API NUMBER: 43013504030000
	9. FIELD and POOL or WILDCAT: WILDCAT
	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: 8/28/2010	<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 8-28-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 8/30/2010

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
August 30, 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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2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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PHONE NUMBER: 281 899-5722 Ext	8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FSL	9. API NUMBER: 43013504030000
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.05 Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHEсне
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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: 9/4/2010	<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 9-4-2010

CONFIDENTIAL - TIGHT HOLE

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 9/6/2010

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
September 07, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	30-Aug-10	Current Operation:	Wait on H&P rig to finish Kettle	Depth @ Midnight:	3,015 '	
				Depth @ 06:00:	3,015 '	Footage last 24 hrs: 5 '
Spud Date:	19-Aug-10	Days Since Spud:	11			

Time Breakdown:		
From:	To:	
0:00	1:00	Circulate
1:00	1:30	Survey @ 3015', 1 1/4°
1:30	2:30	Circulate
2:30	6:30	POH
6:30	10:30	Run 9 5/8" casing to 3000'
10:30	12:00	RD & prepare to move
12:00	15:15	Cement 9 5/8" casing
15:15	18:00	RD/MO cement equipment & rig
18:00	0:00	WO H&P rig

Daily Cost:
Cumulative Cost:
AFE:
AFE Remaining:

RECEIVED September 06, 2010

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
4301350403	O.N. Moon 1-27-3-2		SWNE	27	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17749	8/19/2010			8/26/10	
Comments: The well was spud utilizing Craigs Rig #3 at 700 hrs. Conductor was set at 87'							CONFIDENTIAL
<i>WSTC</i>							

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

8/21/2010

Date

RECEIVED

AUG 23 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.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
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3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013504030000
		9. 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APP EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/11/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the drilling reports ending 9-11-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 9/13/2010

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 September 13, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013504030000
		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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/18/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the drilling reports ending 9-18-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 9/20/2010

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		
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: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013504030000
		9. 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
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<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/24/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the drilling reports ending 9-25-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 9/27/2010

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 September 28, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
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2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		8. WELL NAME and NUMBER: O.N. Moon 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013504030000
		9. 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/2/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the drilling reports ending 10-2-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 10/3/2010

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**
 October 05, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	27-Sep-10	Current Operation:	Picking up 4.5" Drill Pipe	Depth @ Midnight:	3,015'	
				Depth @ 06:00:	3,015'	Footage last 24 hrs: 0'
Spud Date:	19-Aug-10	Days Since Spud:	39			

Time Breakdown:		
From:	To:	
0:00	6:00	Finish Rigging Up
6:00	9:30	RU Slickline and run Gyroscopic Survey f/ 2950 to Surface f/ tie-in
9:30	11:30	NU BOPs
11:30	17:30	Test BOPs and all associated valves and pressured lines.
17:30	20:00	Modify connection from Rotating Head to Flowline.
20:00	21:00	Run & set wear bushing.
21:00	22:30	Held PJSM w/ rig crews & Franks. RU lay down machine.
22:30	0:00	PU 4.5" DP
0:00		

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 03, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	29-Sep-10	Current Operation:	Drilling ahead w/ Semi-Packed BHA	Depth @ Midnight:	3,330 '	Footage last 24 hrs:	315 '
Spud Date:	19-Aug-10			Days Since Spud:	41		

Time Breakdown:		
From:	To:	
0:00	1:00	Drill f 3039-3056'. Btm @ 3046'
1:00	1:45	CBU, Close annular & perform LOT w/ HOWCO. 540 psi w/ 9.1 ppg mud. EMW: 12.5 ppg
1:45	4:00	Drill f 3056-3084'.
4:00	7:30	CBU, POOH f/ BHA & Bit Change
7:30	13:00	C/O BHA members & GIH, Ream slowly through collar & shoe w/ stabilizers
13:00	19:00	Drill Ahead controlling parameters while BHA is in casing f/ 3084-3219.
19:00	19:30	RS
19:30	22:00	Drill Ahead controlling parameters while BHA is in casing f/ 3219-3312.
22:00	23:30	Single Shot survey @ 3309' - 0.75 degrees
23:30	0:00	Drill ahead 3312 - 3330

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 03, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	30-Sep-10	Current Operation:	Recover Survey - Drill Ahead	Depth @ Midnight:	4,380'	Footage last 24 hrs:	1,050'
				Depth @ 06:00:	4,444'		
Spud Date:	19-Aug-10	Days Since Spud:	42				

Time Breakdown:		
From:	To:	
0:00	0:30	Drill 8 3/4" Hole from 3330 - 3407
0:30	2:00	Clean Suction Screens on mud Pumps
2:00	4:00	Drill 8 3/4" Hole from 3407 - 3595
4:00	4:30	CBU f/ Survey
4:30	5:00	Survey @ 3595' - 1.75 degrees
5:00	8:50	Drill 8 3/4" Hole from 3595 - 3881'
8:50	9:20	CBU f/ Survey
9:20	10:00	Survey @ 3879' - 2.0 degrees
10:00	15:40	Drill 8 3/4" Hole from 3881 - 4164'
15:40	16:00	CBU f/ Survey
16:00	16:30	Survey @ 4164' - 2.5 degrees
16:30	18:00	Drill 8 3/4" Hole from 4164 - 4260'
18:00	20:00	CBU & made Electrical repairs
20:00	0:00	Drill 8 3/4" Hole from 4260 - 4380'

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 03, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	1-Oct-10	Current Operation:	Drilling ahead w/ BHPDM	Depth @ Midnight:	4,700'	
				Depth @ 06:00:	5,077'	Footage last 24 hrs: 320'
Spud Date:	19-Aug-10	Days Since Spud:	43			

Time Breakdown:		
From:	To:	
0:00	2:00	Drill 8 3/4" hole from 4380 - 4440'
2:00	3:00	CBU f/ Survey
3:00	5:00	RR - Repair slickline equipment
5:00	6:00	Survey @ 4441' - 3.5 degrees
6:00	9:00	Drill 8 3/4" hole from 4440 - 4567'
9:00	9:30	CBU f/ BHA change
9:30	23:00	POOH - L/D semi-packed BHA & PU BHPDM directional assy. GIH
23:00	23:30	Orient & Slide 4664 - 4669' (Depth correction of 97')
23:30	0:00	Drill 8 3/4" hole w/ BHPDM assy. f/ 4669 - 4700'

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 03, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		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: O.N. Moon 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
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<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/9/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the drilling reports ending 10-9-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 10/10/2010

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 11, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	8-Oct-10	Current Operation:	POOH to Log	Depth @ Midnight:	10,170'	
				Depth @ 06:00:	10,170'	Footage last 24 hrs: 960'
Spud Date:	19-Aug-10	Days Since Spud:	50			

Time Breakdown:		
From:	To:	
0:00	13:45	Drill 8 1/2" hole w/ BHPDM assy. From 9210-9841'
13:45	14:00	Drill Break. PU & check f/ flow. Negative
14:00	16:00	Drill 8 1/2" hole w/ BHPDM assy. From 9841-9992'
16:00	16:30	Rig Service
16:30	18:45	Drill 8 1/2" hole w/ BHPDM assy. From 9992-10100'
18:45	19:00	Circulate
19:00	20:30	Drill 8 1/2" hole w/ BHPDM assy. From 10100-10170'
20:30	21:30	Circulate samples Up
21:30	22:15	POOH 10 stds. Correct fill
22:15	0:00	Wait off bottom to simulate logging.

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 10, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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	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 Approximate date work will start: 10/11/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<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
<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 type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached please find an updated Drilling Plan reflecting that the 5-1/2" casing will be cemented to TD. -----Verbal approval given 10/8/2010 - DKD-----

Approved by the Utah Division of Oil, Gas and Mining

Date: October 14, 2010

By: *Don Hamilton*

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

CONFIDENTIAL STATUS

HARVEST (US) HOLDINGS, INC.

O. N. Moon #1-27-3-2
Section 27-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'	-	4,580'
GREEN RIVER	4,580'	-	4,744'
UTELAND BUTTE	8,080'	-	8,530'
WASATCH	8,530'	-	10,000'
TD	10,500'		

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

Wasatch (Oil & Gas) 8,530' – 10,000'

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'	300'	48.0	H-40	STC	1,730 psi 13.33 SF	740 psi 5.70 SF	322,000 lbf 25.47 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 3.38 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	100%	15.8	1.15
			155			
Surface casing 13 3/8"	300' to surface	Premium G w/ 2%CaCl, ¼ lb/sk Flocele	300	100%	15.8	1.15
			345			
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	100%	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

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

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

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

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

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

5. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS

<i>Depth</i>	<i>Type</i>	<i>Weight</i>	<i>Vis</i>	<i>API Fluid Loss</i>
0-80'	Water	8.33	N/A	N/A
80-300'	Water/Gel Sweeps	8.4-8.6	45-55	N/C
300'-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 300' feet will be drilled with fresh water and gel sweeps. From 300'-3,000', when hole conditions dictate, 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.

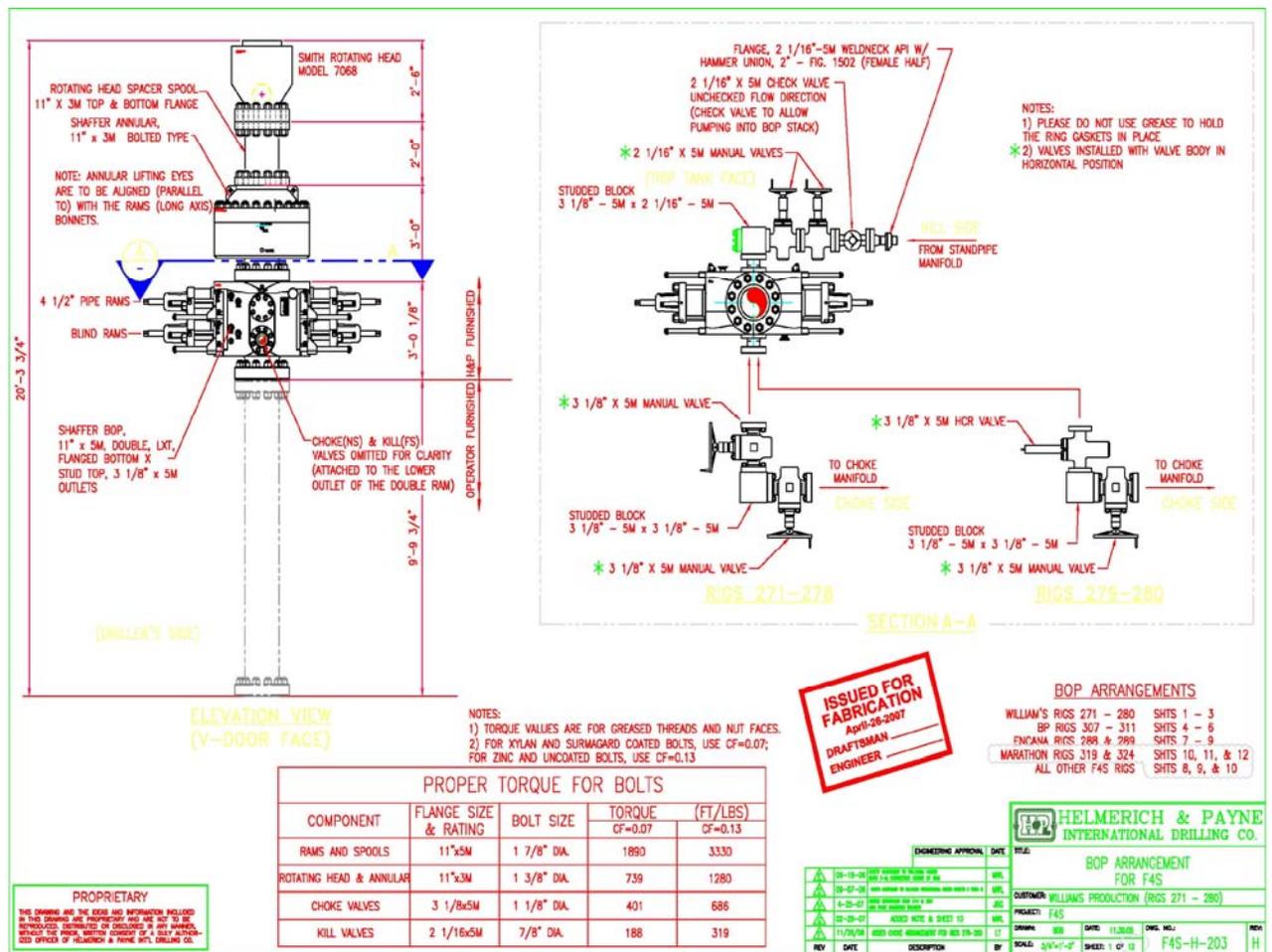
Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

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: 60’ core taken 8,300’-8,360’ (estimated depth interval)

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 August 2010
Drilling Days:	Approximately 40
Completion Days:	Approximately 21

11. CONTACT INFORMATION:

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

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

Harvest (US) Holding, Inc.
Bob Berry
Consulting Drilling 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.		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: O.N. Moon 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APP EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/16/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion reports ending 10-16-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 10/17/2010

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 21, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	10-Oct-10	Current Operation:	Logging Down @ 8500'	Depth @ Midnight:	10,170'	
Spud Date:	19-Aug-10	Days Since Spud:	52	Depth @ 06:00:	10,170'	Footage last 24 hrs: 0'

Time Breakdown:		
From:	To:	
0:00	3:30	TIH to 7850'
3:30	4:15	CBU & Condition hole
4:15	7:00	Check Flow. Well flowing. Shut well-in. Took pressures 0 psig. Controlled migrating gas to expand at surface
7:00	7:30	TIH to 8500'
7:30	10:30	CBU & Condition hole. Raising MW to 12.5 ppg
10:30	18:00	Ream f/ 8500 to 10170'. Ream each std. twice f/ safety.
18:00	19:00	CBU & Condition hole. Raising MW to 12.6 ppg
19:00	20:15	Short trip - 10 stds @ slow rate
20:15	22:15	CBU & Condition hole. Spot 100 bbl. 13.6 ppg 60 vis. Pill on bottom to accommodate lag gas.
22:15	0:00	POOH f/ logs

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 17, 2010

O.N. MOON #1-27-3-2 DAILY OPERATIONS SUMMARY

Date:	13-Oct-10	Current Operation:	Clean Mud Tanks & ND BOPs	Depth @ Midnight:	10,169'	
				Depth @ 06:00:	10,169'	Footage last 24 hrs: 10,169'
Spud Date:	19-Aug-10	Days Since Spud:	55			

Time Breakdown:		
From:	To:	
0:00	2:00	GIH w/ 5 1/2", 23 ppf, P-110, LTC casing to 3000'
2:00	3:15	Install RH & Circ. Btms. Up
3:15	8:30	Run 5 1/2" casing to 7500'.
8:30	9:30	Circulate Btms. Up
9:30	11:45	Run 5 1/2" casing to 9500'.
11:45	13:00	Circulate Btms. Up
13:00	15:30	Run 5 1/2" casing to 10170 & space out same w/ Cameron mandrel assy. BOC: 10169'
15:30	17:00	Circulate Btms. Up
17:00	21:30	Cement 5 1/2" casing
21:30	23:00	Set Packoff assy in W/H.
23:00	0:00	RD CRT & Spider.

Daily Cost:
Cumulative Cost:
AFE left-after sfc:
AFE Remaining:

RECEIVED October 17, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
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		7. UNIT or CA AGREEMENT NAME:
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		STATE: UTAH
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<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/23/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion 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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/30/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion 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		FORM 9
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<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/6/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion reports ending 11-6-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 11/8/2010

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

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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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APP EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/30/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion 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		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: O.N. MOON 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 50px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/6/2010		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the completion reports ending 11-6-2010		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 11/8/2010

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	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: O.N. MOON 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U	9. 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 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: 11/7/2010	<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 checked="" 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: 100px;" type="text"/>

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

Harvest (US) Holdings, Inc. hereby requests that the status of the O.N. Moon #1-27-3-2 be changed to producing. First production was achieved on November, 7, 2011 at 12:01 am.

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

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 2/7/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: O.N. MOON 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U	9. 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 Approximate date work will start: 11/7/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

Harvest (US) Holdings, Inc. hereby makes application to commingle Wasatch and Green River production from the O.N. Moon 1-27-3-2. Attached please find the following supplemental information: 1. Affidavit reflecting that Harvest / Branta are the owners of 100% of the contiguous oil and gas leases or drilling units overlying the pool; 2. Supporting plat describing the location of all wells on contiguous oil and gas leases or drilling units overlying the pool; 2. Civil plat for the referenced well; Allocation should never be necessary but if it ever necessary we will based on individual formation production percentages developed during the intial testing of the well.

Approved by the Utah Division of Oil, Gas and Mining

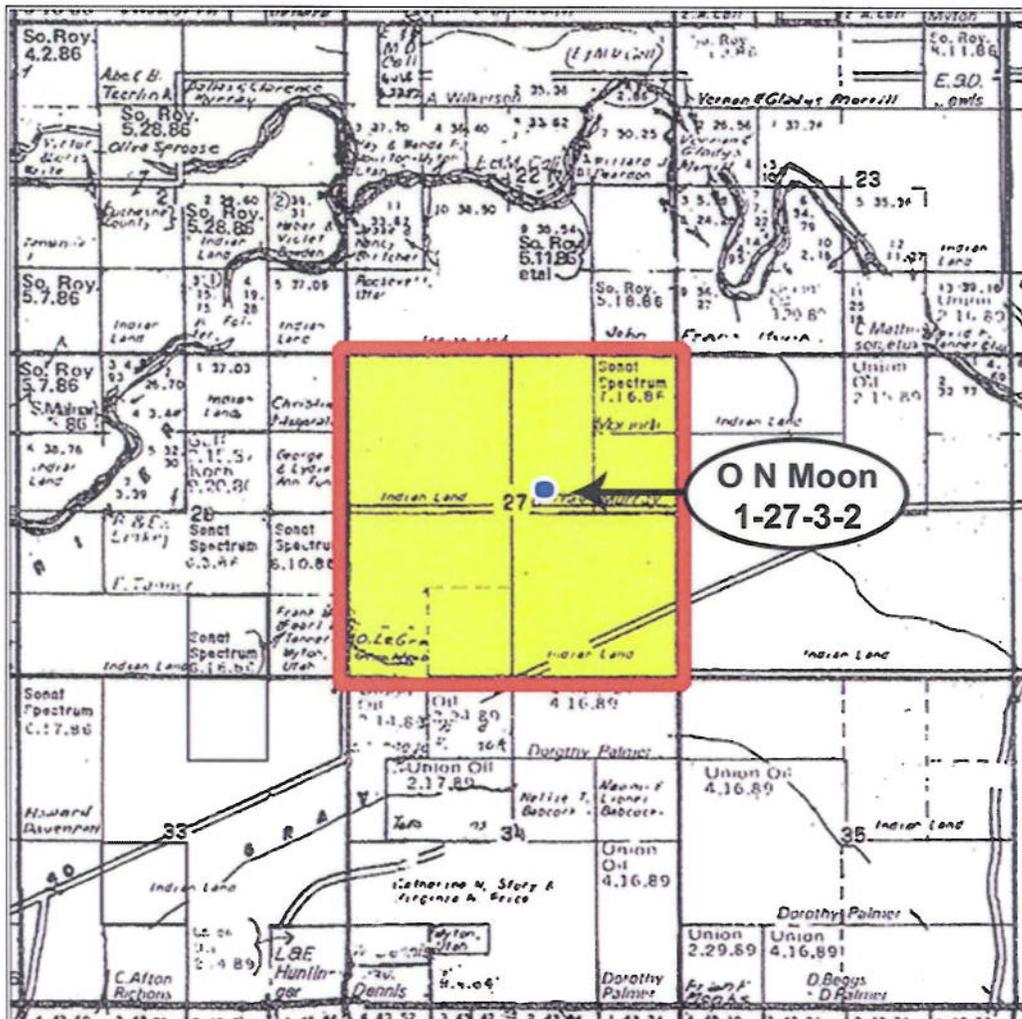
Date: 02/10/2011

By: *Dark K. Quist*

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A	DATE 1/5/2011	

O N Moon 1-27-3-2
640 ac Pooled Unit
Leasehold Estate Harvest/Branta 100%

Section 27
Township 3 South
Range 2 West
USB&M
Duchesne County, Utah



To my knowledge no other oil or gas wells have been drilled on the Contiguous leases situated within the O.N. Moon #1-27-3-2 640 acre voluntary pooled unit.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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	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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/17/2010	<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="Directional Survey"/>

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

Harvest (US) Holdings, Inc. respectfully submits the attached directional survey for your files. The well was planned vertical but ran directional tools keep it vertical as much as possible. The final MD was extrapolated to the final TD.

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

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A	DATE 3/7/2011	

Survey Station

General					Location/Elevation				
Report Date 17-Oct-2010					Coordinate System NAD_1927_StatePlane_Utah_Cent				
Field Wildcat					Elevation Reference ral_FIPS_4302				
Well Moon #1-27-3-2					Ground Elevation ft 5,114.40				
Borehole Main Borehole					Lat/Long Datum ft				
UWI/API# API #43-013-50403					Latitude 40				
Job Name Drilling from Surface to TPD					Longitude 110				
Structure					UTM Northing ft				
Slot					UTM Easting ft				
					Vertical Section Azimuth deg				
Measured Depth ft	Inclination deg	Azimuth deg	TVD ft	NS ft	EW ft	DLS deg/100ft	Build Rate deg/100ft	ToolType	Tie In?
2,950.00	0.25	123.18	2,949.99	-3.52	5.39				N
4,650.00	2.60	190.60	4,649.38	-43.46	1.40				N
4,744.00	2.10	187.30	4,743.30	-47.26	0.79				N
4,839.00	2.40	189.30	4,838.23	-50.95	0.24				N
4,933.00	1.90	200.30	4,932.16	-54.36	-0.62				N
5,028.00	2.30	211.30	5,027.10	-57.46	-2.15				N
5,126.00	2.40	205.30	5,125.02	-61.00	-4.05				N
5,216.00	2.50	197.80	5,214.93	-64.57	-5.46				N
5,310.00	1.80	199.50	5,308.87	-67.91	-6.58				N
5,410.00	1.80	196.10	5,408.82	-70.90	-7.54				N
5,505.00	2.30	195.80	5,503.76	-74.17	-8.47				N
5,593.00	2.60	192.10	5,591.68	-77.82	-9.37				N
5,687.00	2.30	192.50	5,685.59	-81.75	-10.22				N
5,781.00	1.30	197.60	5,779.54	-84.61	-10.95				N
5,875.00	0.70	211.60	5,873.53	-86.11	-11.58				N
5,970.00	1.00	191.00	5,968.52	-87.42	-12.04				N
6,065.00	1.60	171.50	6,063.49	-89.54	-12.00				N
6,157.00	1.90	178.00	6,155.45	-92.34	-11.76				N
6,252.00	2.40	178.40	6,250.38	-95.90	-11.65				N
6,347.00	1.80	178.10	6,345.32	-99.38	-11.54				N
6,440.00	1.70	181.70	6,438.28	-102.22	-11.53				N
6,535.00	1.30	155.30	6,533.24	-104.61	-11.13				N
6,619.00	1.60	134.90	6,617.22	-106.30	-9.90				N
6,723.00	1.20	93.90	6,721.19	-107.40	-7.78				N
6,818.00	1.20	121.30	6,816.17	-107.98	-5.94				N
6,912.00	2.00	144.80	6,910.13	-109.84	-4.15				N
7,007.00	2.70	151.80	7,005.05	-113.16	-2.14				N
7,101.00	2.60	144.20	7,098.95	-116.84	0.15				N
7,195.00	3.00	152.90	7,192.84	-120.76	2.52				N
7,289.00	2.90	150.80	7,286.71	-125.03	4.80				N
7,384.00	3.20	128.50	7,381.58	-128.78	8.05				N
7,478.00	3.60	125.90	7,475.42	-132.14	12.49				N
7,572.00	3.40	100.70	7,569.25	-134.39	17.62				N
7,667.00	2.40	97.40	7,664.13	-135.17	22.36				N
7,761.00	1.60	229.10	7,758.10	-136.28	23.32				N
7,869.00	2.10	244.00	7,866.04	-138.13	20.41				N
7,963.00	2.10	244.70	7,959.98	-139.63	17.30				N
8,057.00	2.20	246.50	8,053.91	-141.08	14.09				N
8,151.00	2.00	232.40	8,147.85	-142.80	11.13				N
8,246.00	1.80	233.40	8,242.80	-144.70	8.62				N
8,340.00	1.90	236.50	8,336.75	-146.44	6.14				N
8,435.00	1.60	225.40	8,431.70	-148.24	3.88				N
8,582.00	1.80	220.80	8,578.64	-151.43	0.91				N
8,622.00	2.00	224.90	8,618.62	-152.40	0.01				N
8,717.00	1.90	225.60	8,713.56	-154.68	-2.29				N

8,811.00	1.80	217.70	8,807.51	-156.94	-4.30				N
8,906.00	2.10	213.80	8,902.46	-159.56	-6.18				N
8,999.00	216.90	8,995.22	8,923.96	-227.28	-2.99				N
9,848.00	2.00	209.80	9,699.79	-314.64	-11.61				N
9,942.00	1.90	210.40	9,793.74	-317.41	-13.21				N
10,050.00	2.10	197.20	9,901.67	-320.85	-14.70				N
10,120.00	2.20	196.40	9,971.62	-323.36	-15.46				N

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
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/17/2011		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		<input type="checkbox"/> OTHER: <input type="text" value="Core data"/>
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Harvest (US) Holdings, Inc. respectfully submits the attached core data for your files.		
----- CONFIDENTIAL - TIGHT HOLE -----		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 3/8/2011

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



CMS-300 CONVENTIONAL PLUG ANALYSIS

Harvest Natural Resources

Moon 1-27-3-2

Wildcat

Duchesne County, Utah

CL File Number: HOU-101140

Date: 3/2/2011

This report is based entirely upon the core samples, soils, solids, liquids, or gases, together with related observational data, provided solely by the client. The conclusions, inferences, deductions and opinions rendered herein reflect the examination, study, and testing of these items, and represent the best judgement of Core Laboratories. Any reliance on the information contained herein concerning the profitability or productivity of any well, sand, or drilling activity is at the sole risk of the client, and Core Laboratories, neither extends nor makes any warranty or representation whatsoever with respect to same. This report has been prepared for the exclusive and confidential use of the client and no other party.



CMS-300 CONVENTIONAL PLUG ANALYSIS

Sample Number	Depth (ft)	Net Confining Stress (psig)	Porosity (%)	Permeability		b(air) psi	Beta ft(-1)	Alpha (microns)	Saturation		Grain Density (g/cm3)	Footnote
				Klinkenberg	Kair				Oil	Water		
				(md)	(md)				% Pore Volume			
2	7850.10	2450	3.01	NA	NA	NA	NA	NA	17.6	52.6	2.733	(2)
3	7852.15	2450	5.85	.001	.006	125.01	4.96E+15	2.06E+04			2.687	
4	7853.70	2450	5.08	.0003	.002	199.15	6.48E+16	6.94E+04		2.702		
5	7859.50	2450	5.56	.0005	.003	173.93	3.08E+16	4.89E+04		2.745	(1)	
7	7864.70	2450	4.26	.001	.003	168.66	2.60E+16	4.51E+04		2.701	(1)	
8	7865.75	2450	3.79	.001	.004	139.81	9.22E+15	2.76E+04		2.719	(1)	
10	7879.50	2450	4.70	.0004	.002	183.13	4.10E+16	5.59E+04		2.723		
11	7882.30	2450	6.34	.001	.005	135.02	7.59E+15	2.52E+04		2.701		
12	7883.40	2450	2.98	.0001	.001	259.60	2.68E+17	1.36E+05		2.712	(1)	
13	7888.65	2450	5.55	.001	.004	139.62	9.14E+15	2.75E+04		2.721	(1)	
14	7893.85	2450	2.60	.0001	.001	283.20	4.21E+17	1.69E+05		2.726		

Footnotes :

(1) : Denotes fractured or chipped sample. Permeability and/or porosity may be optimistic.

(2) : Sample permeability below the measurement range of CMS-300 equipment at indicated net confining stress (NCS). Data unavailable.

Shaded area denotes samples were not selected for fluid saturation analysis.

Permeability greater than 0.1 mD measured using helium gas. Permeability less than 0.1 mD measured using nitrogen gas. All b values converted to b (air)



APPENDIX A: EXPLANATION OF CMS-300 TERMS "b", "Beta, and "Alpha"

K_{∞}	=	Equivalent non-reactive liquid permeability, corrected for gas slippage, mD
K_{air}	=	Permeability to Air, calculated using K_{∞} and b, mD
b	=	Klinkenberg slip factor, psi
β (Beta)	=	Forcheimer inertial resistance factor, ft^{-1}
α (Alpha)	=	A factor equal to the product of Beta and K_{∞} . This factor is employed in determining the pore level heterogeneity index, H_i .
H_i	=	$\log_{10}(\alpha\phi/RQI)$ α , microns = $3.238E^{-9} \beta K_{\infty}$
ϕ	=	Porosity, fraction
RQI	=	Reservoir Quality Index, microns
RQI	=	$0.0314(K/\phi)^{0.5}$

For further information please refer to:

Jones, S.C.: "Two-Point Determination of Permeability and PV vs. Net Confining Stress" SPE Formation Evaluation (March 1988) 235-241.

Jones S.C.: "A Rapid Accurate Unsteady-State Klinkenberg Permeameter," Soc. Pet. Eng. J. (Oct. 1972) 383-397.

Jones, S.C.: "Using the Inertial Coefficient, β , To Characterize Heterogeneity in Reservoir Rock: SPE 16949 (September 1987).

Amaefule, J.O.; Kersey, D.G.; Marschall, D.M.; Powell, J.D.; Valencia, L.E.; Keelan, D.K.: "Reservoir Description: A Practical Synergistic Engineering and Geological Approach Based on Analysis of Core Data,": SPE Technical Conference (Oct. 1988) SPE 18167.

Harvest Natural Resources

Moon 1-27-3-2

Wildcat

Duchesne County, Utah



CL File No.: HOU-101140

Date: 3/2/2011

Analyst(s): DB

CMS-300 CONVENTIONAL PLUG ANALYSIS PROTOCOL

Sample Preparation

1.0" diameter plugs were drilled with nitrogen gas and trimmed into right cylinders with a diamond-blade trim saw. The samples were then archived.

Core Extraction

The one plug selected for fluid saturation analysis was placed in Dean Stark equipment using toluene, followed by Soxhlet extraction cycling between a chloroform / methanol (87:13) azeotrope and methanol. The remaining plugs were placed directly into Soxhlet extraction cycling between a chloroform / methanol (87:13) azeotrope and methanol.

Sample Drying

Samples were oven dried at 240° F to weight equilibrium (+/- 0.001 g).

Porosity

Porosity was determined using Boyle's Law technique by measuring grain volume at ambient conditions & pore volume at indicated net confining stresses (NCS)

Grain Density

Grain density values were calculated by direct measurement of grain volume and weight on dried plug samples. Grain volume was measured by Boyle's Law technique.

Permeability

Permeability to air was measured on each sample using unsteady-state method at indicated NCS.

Fluid Saturations

Fluid saturations were determined by the Dean Stark technique using the following fluid properties:

Brine	1.032 g/cc (50000 ppm TDS)
Oil	0.845 g/cc (36° API)

Sundry Number: 13396 API Well Number: 43013504030000

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
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		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway, Houston, TX, 77077 PHONE NUMBER: 281 899-5722 Ext		8. WELL NAME and NUMBER: O.N. MOON 1-27-3-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013504030000
		9. 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/17/2010		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input type="text" value="Geologic Report"/>
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Harvest (US) Holdings, Inc. respectfully submits the attached geologic report for your files.		
CONFIDENTIAL - TIGHT HOLE		
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 3/8/2011



GEOLOGIC REPORT

Provided by
Decollement Consulting Inc.

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

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

October,11 2010

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**October 2010
Decollement Consulting, Inc**

**Dennis Springer
B.Sc. Geologist**

Well Data Summary

Well Name	O. N. Moon #1-27-3-2
Operator	Harvest (US) Holdings, Inc.
Surface Location	SW/NE Sec.27, T3S, R2W
API #	43-013-50403
Well Classification	Wildcat
Drilling Contractor	H & P Rig #319
Elevation-Ground level	5116.2
Kelly Bushing	5138.6
Spud Date	8-20-2010
TD Date	10-9-2010
TD Depth	10,170
Surface Casing	9 5/8" Sat @ 3024'
Intermediate Csg	
Hole Size	8 3/4", 8 1/2"
Core	7842-7902
Sample Interval	3030'
Gas Detection	3030'
Open Hole Logs	GR, SP. Cal., Triple Combo
Mud Type	Terra-Max
Well Status	Running Casing

Formation Tops

MOON #1-27-3-12

Kelly Bushing 5138'

Formation	Prognosis	Spl Top (md)	Spl Top (tvd)	Log Top (md)	Log (tvd)	Sub Sea
Uinta	Surface					
Green River 1		3302'	3302'	3272	3272	1866
Green River 2	4430'	4618'	4618'	4670	4670	468
Smith		4751'	4750'	4808	4807	331
Mahogeny Bench		4842'	4841'	4906	4905	233
Possible Fault 60-70'						
DJ		5252'	5250'	5248	5246	(-108)
DJ1		5528'	5526'	5492	5490	(-352)
Garden Gulch	5587	5825'	5823	5760	5758	(-620)
Green River 3		6046'	6044'	6052	6050	(-912)
HI Marker		6186'	6184'	6196	6194	(-1056)
I Marker		6536'	6534'	6642	6640	(-1502)
K Marker (Douglas Creek)		6940'	6938'	6926	6924	(-1786)
Castle Peak		7716'	7713'	7716	7713	(-2575)
Control Point 80	7698	7806'	7803'	7800	7797	(-2659)
Bar "F" Unconformity		7842'	7838'	7840	7836	(-2698)
Ute Land Butte	7835'	7920	7916	7910	7906	(-2768)
CP 90		8100	8096'	8100	8096	(-2958)
Wasatch	8215'	8294'	8290'	8332	8328	(-3190)
Red Beds		8846'	8842'	8872	8868	(-3730)
CP190		8928'	8924	8954	8950	(-3812)
CP 200	Not Present					
CP210	Not Present					
Massive Red Beds	8892	9062	9058	9058	9054	(-3916)

Formation Evaluation
Harvest (US) Holdings, Inc.
Moon #1-27-3-2

Decollement Consulting rigged up on Helmerich & Payne Rig #319 September 27, 2010. Total depth of 10,170' was reached on October 8, 2010. Gas detection and lagged samples started under 3020' of 9 5/8" surface casing. We drilled 8 3/4" hole to the Top of the Bar F Unconformity (7842'). Gamma Ray was run inside drill pipe to confirm Core Point and Core #1 was cut from 7842' to 7902'. A full recovery was made and described in the core report. From top of core the well bore was drilled 8 1/2" to total depth 7902'-10170'.

The mud weight was raised increasing with depth to control mud gas to 12.6 lbs/gal after logs to run casing. Open hole E-logs (Triple-Combo) were run from total depth to surface casing (10170' to 3020'). Shows #1-5 and # 7-10 were in fractured Oil Shale and Limestone. Show 6 was in Sandstone with a brown oil stain and immediate streaming yellow cut with black to dark brown oil over shakers. Shows #11-15 were in tight Sandstone with weak oil shows(no fluorescence, slow milky cut, thin ring). Open hole E-logs indicated a total of 233' of pay with high resistivity and 6-12% log porosity. The sand at 6058'-6085' had 12-16% log porosity and the zone at 7380'-7386' had 12-15% porosity. The open hole and mud-logs indicate a well that is economic.

Bit Record
Harvest (US) Holdings, Inc.
Moon #1-27-3-2

BIT	SIZE	MAKE	TYPE	SERIAL#	JETS	OUT
1	8 ³ / ₄	STC	FDS+	PS1258	3x22	3084
2RR	8 ³ / ₄	Ulterra	MS1666DU	5514	6x10	4664
3	8 ³ / ₄	STC	MS1616	JD7228	6x11	7842
4Core	8 1/2	HTC	BHC405C	7130185	5x8	
5	8 1/2	Ulterra	MS1666D	7814	3x12 3x11	

BIT	FT	HRS	TOT HRS	WT	RPM	PP	MUD WT	VIS	DEV
1	45	2 1/2	2 1/2	20	100	850	8.9	35	
2	1570	32	34 1/2	18	100	2100	9.0	40	3 1/2
3	3178	60	94 1/2	18	65/80	2500	9.6	40	3
4	60	12 1/2	107	7	55	600	9.7	42	3
5	2268	45 1/2	152 1/2	29	60/80	3600	12.0	40	2.2

Daily Drilling Summary
Harvest (US) Holdings, Inc.
Moon #1-27-3-2

<u>DATE</u>	<u>DEPTH</u>	<u>PROG</u>	<u>HRS</u>	<u>MUD</u>	<u>VIS</u>	<u>WL</u>	<u>PH</u>	<u>ACTIVITY</u>
9-27	3039	0	0					Move In, Rig Up
9-28	3084	45	2 ½	9.0	35	15.0	9.5	PU DP, Drill
9-29	3690	606	12 ½	8.85	39	12.0	9.5	Trip, Drill, Survey
9-30	4444	754	16	9.0	40	9.2	9.8	Drill, Survey, repair wireline
10-1	5077	633	9 ½	9.1	40	7.2	9.6	Drill Trip Dirc Tools
10-2	6310	1233	23 ½	9.5	48	6.8	9.1	Drill
10-3	7582	1272	23	9.6	40	6.2	8.9	Drill, Rig Serv
10-4	7842	260	5	9.7	40	5.2	8.8	Drill, Run Gamma, Trip for Core
10-5	7902	60	12 ½	9.7	42	5.2	8.8	Core, Trip
10-6	8453	551	12	10.2	41	4.8	8.8	Trip, Drill
10-7	9458	1005	20 ½	11.35	40	5.2	8.8	Drill, Cond Mud
10-8	10170	712	13 ¾	12.2	43	5.6	8.8	Drill TD Short Trip
10-9	10170	0	0	12.0	43	5.6	8.8	TOH for E Logs
10-10	10170	0	0	12.35	42	5.8	8.7	Attempted Logs Wiper Trip
10-11	10170	0	0	12.5	42	5.6	8.6	Trip, Log Trip
10-12	10170	0	0					Cond Run Csg

Core Descriptions

Core #1 7842-7902 Cut 60 feet Recovered 60 feet

7842 SHALE-Dark gray brown, earthy, silty, firm, dolomitic to slightly calcareous, no show

7846 SHALE-Dark gray brown, earthy, silty, firm, dolomitic to slightly calcareous, no show

7849 SHALE-Dark gray, earthy, micaceous, silty, firm, dolomitic to slightly calcareous, no show

7852 SANDSTONE-Light gray, very fine (lower) to fine (upper) grained, sub rounded, well sorted, micaceous, clay matrix, calcareous cement, tight, poor visible porosity 2-6%, no stain, no florescence, faint yellow residual ring cut

7855 SANDSTONE-Light gray, very fine (lower) to fine (lower) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, clay matrix, calcareous cement, firm, tight, poor visible porosity 2- 6%, no stain, no florescence, faint yellow residual ring cut

7858 SHALE-Dark gray, earthy to waxy, micaceous, firm, dolomitic, weak yellow residual ring cut

7861 SHALE-Dark gray, earthy to waxy, micaceous, firm, dolomitic, weak yellow residual ring cut

7864 SANDSTONE-Light to dark gray, very fine (lower) to fine (upper) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, clay matrix, calcareous cement, tight, poor visible porosity 2-6%, no show

7867 SHALE-Dark gray, earthy, silty, micaceous, firm, dolomitic, weak yellow residual ring cut

7870 SILTSTONE-Dark gray, argillaceous, sandy, micaceous, firm, dolomitic, no show

- 7872 SILTSTONE-Dark gray, argillaceous, sandy, micaceous, firm, dolomitic, no show
- 7875 SHALE-Dark gray, earthy, micaceous, firm, dolomitic, weak yellow residual ring \cut
- 7878 SHALE-Dark gray, earthy, micaceous, firm, dolomitic, weak yellow residual ring cut
- 7881 SANDSTONE-White to gray, very fine (lower) to fine (upper) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, white clay matrix, calcareous cement, firm, tight, poor visible porosity 2-6%, spotty light brown stain, spotty blue yellow florescence, weak slow bleeding yellow cut
- 7874 SANDSTONE-White to gray, very fine (lower) to fine (upper) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, white clay matrix, calcareous cement, firm, tight, poor visible porosity 2-6%, spotty light brown stain, spotty blue yellow florescence, weak slow bleeding yellow cut, Contact with
SHALE-Dark gray, earthy, silty, firm, dolomitic, weak yellow residual ring cut
- 7887 SHALE-Dark gray, earthy, silty, firm, dolomitic, weak yellow residual ring cut
- 7890 SHALE-Dark gray, earthy, silty, firm, dolomitic, weak yellow residual ring cut , visible horizontal fractures
- 7893 SHALE-Dark gray, earthy to sub waxy, firm, dolomitic, no show
- 7896 SHALE-Dark gray, earthy, silty, firm, dolomitic, no show
- 7899 SHALE-Dark gray, earthy, silty, firm, dolomitic, no show
- 7901 SHALE-Dark gray gray brown, earthy, silty, micaceous, firm, dolomitic, no show

Survey Sheet

Company Harvest
 Well Moon 1-27-3-2
 Field _____
 Rig H&P
 Great White 319
 D.D. Brian Outlaw

Mag. Decl. 11.54
 Target Inc. _____
 Target TVD _____
 Target Az. 1E-07
 Tgt. Coord. _____

No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	Walk
1	2950	0.25	123.18		2949.82		21.80 S	7.95 W			
2	4650	2.60	190.60	1700	4649.21	-61.74	61.74 S	11.94 W	0.15	0.14	3.97
3	4744	2.10	187.30	94	4743.13	-65.54	65.54 S	12.55 W	0.55	-0.53	-3.51
4	4839	2.40	189.30	95	4838.06	-69.23	69.23 S	13.09 W	0.33	0.32	2.11
5	4933	1.90	200.30	94	4931.99	-72.63	72.63 S	13.95 W	0.69	-0.53	11.70
6	5028	2.30	211.30	95	5026.93	-75.74	75.74 S	15.49 W	0.60	0.42	11.58
7	5126	2.40	205.30	98	5124.85	-79.28	79.28 S	17.39 W	0.27	0.10	-6.12
8	5216	2.50	197.80	90	5214.76	-82.85	82.85 S	18.79 W	0.37	0.11	-8.33
9	5310	1.80	199.50	94	5308.70	-86.19	86.19 S	19.91 W	0.75	-0.74	1.81
10	5410	1.80	196.10	100	5408.65	-89.18	89.18 S	20.87 W	0.11		-3.40
11	5505	2.30	195.80	95	5503.59	-92.45	92.45 S	21.80 W	0.53	0.53	-0.32
12	5593	2.60	192.10	88	5591.51	-96.10	96.10 S	22.70 W	0.39	0.34	-4.20
13	5687	2.30	192.50	94	5685.42	-100.03	100.03 S	23.56 W	0.32	-0.32	0.43
14	5781	1.30	197.60	94	5779.37	-102.88	102.88 S	24.29 W	1.08	-1.06	5.43
15	5875	0.70	211.60	94	5873.36	-104.39	104.39 S	24.91 W	0.68	-0.64	14.89
16	5970	1.00	191.00	95	5968.35	-105.70	105.70 S	25.37 W	0.45	0.32	-21.68
17	6065	1.60	171.50	95	6063.32	-107.82	107.82 S	25.34 W	0.78	0.63	-20.53
18	6157	1.90	178.00	92	6155.28	-110.62	110.62 S	25.09 W	0.39	0.33	7.07
19	6252	2.40	178.40	95	6250.21	-114.18	114.18 S	24.98 W	0.53	0.53	0.42
20	6347	1.80	178.10	95	6345.15	-117.66	117.66 S	24.88 W	0.63	-0.63	-0.32
21	6440	1.70	181.70	93	6438.10	-120.50	120.50 S	24.87 W	0.16	-0.11	3.87
22	6535	1.30	155.30	95	6533.07	-122.88	122.88 S	24.46 W	0.83	-0.42	-27.79
23	6619	1.60	134.90	84	6617.05	-124.58	124.58 S	23.23 W	0.71	0.36	-24.29
24	6723	1.20	93.90	104	6721.02	-125.68	125.68 S	21.12 W	1.01	-0.38	-39.42
25	6818	1.20	121.30	95	6816.00	-126.26	126.26 S	19.28 W	0.60		28.84
26	6912	2.00	144.80	94	6909.96	-128.11	128.11 S	17.49 W	1.08	0.85	25.00
27	7007	2.70	151.80	95	7004.88	-131.44	131.44 S	15.48 W	0.80	0.74	7.37
28	7101	2.60	144.20	94	7098.78	-135.12	135.12 S	13.18 W	0.39	-0.11	-8.09
29	7195	3.00	152.90	94	7192.67	-139.04	139.04 S	10.81 W	0.62	0.43	9.26
30	7289	2.90	150.80	94	7286.54	-143.31	143.31 S	8.53 W	0.16	-0.11	-2.23

31	7384	3.20	128.50	95	7381.41	-147.05	147.05 S	5.29 W	1.28	0.32	-23.47
32	7478	3.60	125.90	94	7475.25	-150.42	150.42 S	0.84 W	0.46	0.43	-2.77
33	7572	3.40	100.70	94	7569.08	-152.67	152.67 S	4.29 E	1.64	-0.21	-26.81
34	7667	2.40	97.40	95	7663.95	-153.44	153.44 S	9.03 E	1.07	-1.05	-3.47
35	7761	1.60	229.10	94	7757.93	-154.56	154.56 S	9.99 E	3.90	-0.85	140.11
36	7869	2.10	244.00	108	7865.87	-156.41	156.41 S	7.07 E	0.64	0.46	13.80
37	7963	2.10	244.70	94	7959.81	-157.90	157.90 S	3.97 E	0.03		0.74
38	8057	2.20	246.50	94	8053.74	-159.36	159.36 S	0.75 E	0.13	0.11	1.91
39	8151	2.00	232.40	94	8147.68	-161.08	161.08 S	2.20 W	0.59	-0.21	-15.00
40	8246	1.80	233.40	95	8242.63	-162.98	162.98 S	4.71 W	0.21	-0.21	1.05
41	8340	1.90	236.50	94	8336.58	-164.72	164.72 S	7.20 W	0.15	0.11	3.30
42	8435	1.60	225.40	95	8431.53	-166.52	166.52 S	9.45 W	0.48	-0.32	-11.68
43	8582	1.80	220.80	147	8578.47	-169.71	169.71 S	12.42 W	0.16	0.14	-3.13
44	8622	2.00	224.90	40	8618.45	-170.68	170.68 S	13.33 W	0.60	0.50	10.25
45	8717	1.90	225.60	95	8713.39	-172.96	172.96 S	15.62 W	0.11	-0.11	0.74
46	8811	1.80	217.70	94	8807.34	-175.21	175.21 S	17.64 W	0.29	-0.11	-8.40
47	8906	2.10	213.80	95	8902.29	-177.84	177.84 S	19.52 W	0.35	0.32	-4.11
48	8999	2.20	216.90	93	8995.22	-180.68	180.68 S	21.54 W	0.16	0.11	3.33
49	9094	1.70	216.10	95	9090.17	-183.28	183.28 S	23.46 W	0.53	-0.53	-0.84
50	9188	1.50	213.90	94	9184.13	-185.43	185.43 S	24.97 W	0.22	-0.21	-2.34
51	9282	1.60	210.60	94	9278.10	-187.58	187.58 S	26.33 W	0.14	0.11	-3.51
52	9377	1.50	218.40	95	9373.06	-189.70	189.70 S	27.77 W	0.25	-0.11	8.21
53	9471	1.70	222.10	94	9467.03	-191.69	191.69 S	29.47 W	0.24	0.21	3.94
54	9565	1.60	215.60	94	9560.99	-193.80	193.80 S	31.17 W	0.23	-0.11	-6.91
55	9659	1.80	216.90	94	9654.94	-196.04	196.04 S	32.82 W	0.22	0.21	1.38
56	9753	1.70	210.40	94	9748.90	-198.43	198.43 S	34.41 W	0.24	-0.11	-6.91
57	9848	2.00	209.80	95	9843.85	-201.08	201.08 S	35.95 W	0.32	0.32	-0.63
58	9942	1.90	210.40	94	9937.80	-203.85	203.85 S	37.55 W	0.11	-0.11	0.64
59	10050	2.10	197.20	108	10045.73	-207.28	207.28 S	39.05 W	0.46	0.19	-12.22
60	10120	2.20	196.40	70	10115.68	-209.80	209.80 S	39.80 W	0.15	0.14	-1.14
61	10170	2.20	196.40	50	10165.65	-211.64	211.64 S	40.35 W			

Sample Descriptions

Harvest (US) Holdings, Inc.
O. N. Moon #1-27-3-2

- 3030-60** **SHALE-60% Light gray (70%), light green (30%) silty, slightly calcareous, blocky, abundant cement.**
- SANDSTONE-40% White, light gray, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, calcareous cement, firm, no show**
- 3060-90** **SHALE-80% Light gray (70%), light green (30%) silty, blocky, slightly calcareous, soft**
- SANDSTONE-40% White, light gray, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, calcareous cement, firm, no show**
- Note 94 foot Depth Correction following trip at 4664 slid samples and log down**
- 3190-3220** **SHALE-70% Light gray (80%), light-medium brown(20%), blocky to platy, earthy, silty, firm, calcareous**
- SANDSTONE-30% Light gray white salt & pepper, very fine (upper) to fine (lower) grained, sub angular, well sorted, clay matrix, tight, calcareous cement, firm, no show**

- 3220-50** **SHALE-60%** Light to medium brown (80%), light gray (20%), blocky, earthy, firm, dolomitic, slow bleeding yellow cut
- SANDSTONE-20%** Light gray white salt & pepper, very fine (upper) to fine (lower) grained, sub angular, well sorted, clay matrix, tight, calcareous cement, firm, no show
- LIMESTONE-20%** Light brown, cryptocrystalline, argillaceous, mudstone, soft to firm, dolomitic
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- 3250-80** **SHALE-60%** Light to medium brown (60%), light gray (40%), blocky, earthy, firm, dolomitic, slow bleeding yellow cut
- SANDSTONE-10%** Light gray white salt & pepper, very fine (upper) to fine (lower) grained, sub angular, well sorted, clay matrix, tight, calcareous cement, firm, no show
- LIMESTONE-30%** Light brown, cryptocrystalline, argillaceous, mudstone, soft to firm, dolomitic
-
- 3280-3310** **SHALE-100%** Light to medium gray (60%), light to dark brown (40%) blocky, earthy, firm, dolomitic, marly, slow bleeding yellow cut
-
- 3310-40** **SHALE-100%** Light to medium gray (60%), light to dark brown (40%), blocky, earthy, silty in part, calcareous, soft-firm, occasional calcite filled fractures
-
- 3340-70** **SHALE-100%** Light to dark brown (80%), light to medium gray (20%), blocky, earthy, silty in part, calcareous, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut
-
- 3370-3400** **SHALE-100%** Medium to dark brown (100%) blocky, earthy, silty in part, calcareous, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut
-
- 3400-30** **SHALE-100%** Medium to dark brown (100%) blocky, earthy, silty in part, calcareous, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

3430-60 SHALE-100% Medium to dark brown (90%), medium to dark gray (10%) blocky to platy, earthy, silty in part, limy, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

3460-90 SHALE-100% Medium to dark brown (80%), medium to dark gray (20%) blocky to platy, earthy, silty in part, limy, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

3490-3520 SHALE-100% Medium to dark brown (80%), medium to dark gray (20%) blocky to platy, earthy, silty in part, limy, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

3520-50 SHALE-100% Medium to dark brown (80%), medium to dark gray (20%) blocky to platy, earthy, silty in part, limy, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

3550-80 SHALE-80% Medium to dark brown (80%), medium to dark gray (20%) blocky to platy, earthy, silty in part, limy, soft-firm, calcite filled fractures, trace pyrite, slow bleeding yellow cut

SANDSTONE-20%% White light gray salt and pepper, very fine(lower) to medium (lower) grained, sub angular, moderately sorted, white clay matrix, micaceous, calcareous cement, tight, firm, spotty brown oil stain, no florescence, milky yellow residual cut

3580-3610 SHALE-100% Medium to dark brown (90%), medium to dark gray (10%) blocky, earthy, silty, limy, soft-firm, decreasing calcite filled fractures, slow bleeding yellow cut

3610-40 SHALE-90% Medium to dark brown (90%), medium to dark gray (10%) blocky, earthy, silty, limy, soft-firm, decreasing calcite filled fractures, slow bleeding yellow cut

SANDSTONE-10% White light gray salt and pepper, very fine(lower) to fine (lower) grained, sub angular, well sorted, white clay matrix, micaceous, calcareous cement, tight, firm, no show

- 3640-70 SHALE-100% Medium to dark brown (80%), medium to dark gray (20%) blocky, earthy, silty, limy, soft-firm, decreasing calcite filled fractures, slow bleeding yellow cut
- 3670-3700 SHALE-100% Medium to dark brown (80%), medium to dark gray (20%) blocky, earthy, silty, limy, soft-firm, slow bleeding yellow cut
- 3700-30 SHALE-100% Light to medium brown (30%), light to medium gray (70%) blocky, earthy, silty, calcareous, soft-firm, no show
- 3730-60 SHALE-100% Light to medium gray(80%) light to medium brown(20%), blocky to platy, earthy, silty, calcareous, soft-firm, no show
- 3760-90 SHALE-100% Medium to dark brown (70%), light to medium gray (30%) blocky, earthy, silty, limy, soft-firm, slow bleeding yellow cut
- 3790-3820 SHALE-100% Light to dark brown (90%) light to medium gray (10%), blocky to platy, earthy, silty, calcite filled fractures, soft to firm, slow bleeding yellow cut
- 3820-50 SHALE-100% Light to dark brown (90%) light to medium gray (10%), blocky to platy, earthy, silty, calcite filled fractures, trace pyrite, soft to firm, slow bleeding yellow cut
- 3850-80 SHALE-100% Medium to dark brown (80%), medium to dark gray gray brown (20%), blocky to platy, earthy, silty, trace calcite filled fractures, trace pyrite, firm, slow bleeding yellow cut
- 3880-3910 SHALE-100% Medium to dark brown (80%), medium to dark gray gray brown (20%), blocky to platy, earthy, silty, trace calcite filled fractures, trace pyrite, firm, slow bleeding yellow cut

- 3910-40 SHALE-100% Medium to dark brown (90%), medium to dark gray gray brown (10%), blocky to platy, earthy, silty, trace calcite filled fractures, trace pyrite, firm, slow bleeding yellow cut
- 3940-70 SHALE-100% Medium to dark brown (100%), blocky, earthy, silty, marly, soft-firm, grading to argillaceous Limestone, mudstone, immediate streaming yellow cut, abundant black oil over shaker
- 3970-4000 SHALE-100% Medium to dark brown (100%), blocky, earthy, silty, marly, soft-firm, grading to argillaceous Limestone, mudstone, immediate streaming yellow cut, abundant black oil tar over shaker
- 4000-30 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, occasional calcite filled fractures, immediate streaming yellow cut
- 4030-60 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, occasional calcite filled fractures, immediate streaming yellow cut
- 4060-90 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, trace calcite filled fractures, trace pyrite, immediate streaming yellow cut
- 4090-4120 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, trace calcite filled fractures, trace pyrite, immediate streaming yellow cut
- 4120-50 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, trace calcite filled fractures, trace pyrite, immediate streaming yellow cut
- 4150-80 SHALE-100% Medium to dark brown gray brown (100%) blocky, earthy, marly, soft to firm, limey, trace calcite filled fractures, trace pyrite, immediate streaming yellow cut

- 4180-4210 **SHALE-100%** Light to medium gray gray brown (70%) medium to dark brown (30%), blocky, waxy to earthy, firm, limey, no show
- 4210-40 **SHALE-30%** Light to medium gray gray brown (70%) medium dark brown (30%), blocky, waxy to earthy, firm, limey, no show
- SANDSTONE-40%** Tan white light gray, very fine (lower) to fine (upper) grained, sub angular, well sorted, white clay matrix, tight, firm, very calcareous, spotty pale yellow florescence, trace light brown stain, weak residual yellow ring cut
- Limestone-30%** Tan white, cryptocrystalline to microcrystalline, argillaceous, chalky in part, sandy, soft to firm, no show
- 4240-70 **SHALE-100%** Light to medium gray light gray brown (100%) blocky to platy, earthy to waxy, soft to firm, limey
- 4270-4300 **SHALE-100%** Light to medium gray light gray brown (100%) blocky to platy, earthy to waxy, soft to firm, limey
- 4300-30 **SHALE-100%** Light to medium gray light gray brown (100%) blocky to platy, earthy to waxy, soft to firm, limey
- 4330-60 **SHALE-100%** Light to medium gray light gray brown (100%) blocky to platy, earthy to waxy, soft to firm, calcereous
- 4360-90 **SHALE-100%** Medium to dark brown (80%) light to medium gray gray brown (20%), sub blocky to platy, earthy, slightly calcareous, no florescence, slow streaming yellow cut
- 4390-4420 **SHALE-100%** Medium to dark brown (80%), sub blocky to platy, earthy, slightly calcareous, no florescence, slow streaming yellow cut, abundant Bentonite white, soft

- 4420-50 SHALE-100% Medium to dark brown (80%), blocky to platy, earthy, carbonaceous partings, calcareous, no florescence, slow streaming yellow cut, abundant Bentonite white, soft
- 4450-80 SHALE-90% Medium to dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, calcareous, no florescence, milky yellow cut, trace Bentonite
- LIMESTONE-10% Light to medium brown tan, chalky, argillaceous, mudstone, firm, no show
- 4480-4510 SHALE-100% Medium to dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, calcareous, no florescence, milky yellow cut
- 4510-40 SHALE-100% Light to dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, calcareous, no florescence, milky yellow cut
- 4540-70 SHALE-100% Light to dark brown dark gray brown (100%), blocky to platy, earthy, soft to firm, calcareous, no florescence, milky yellow cut
- 4570-4600 SHALE-100% Light to medium brown (100%) blocky, earthy, very soft, limey, slow streaming yellow cut
- 4600-30 SHALE-50% Light to medium brown (100%) blocky, earthy, very soft, limey, slow streaming yellow cut
- LIMESTONE-50% tan off white, chalky, argillaceous, mudstone, very soft, no show
- 4630-50 SHALE-100% Light to medium brown gray brown(100%), blocky, earthy, soft to firm, calcareous
- 4650-80 SHALE-100% Medium to dark brown (100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4680-4710 SHALE-100% Medium to dark brown (100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut

- 4710-40 SHALE-100% Medium to dark brown (100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4740-70 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4770-4800 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4800-30 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4830-60 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4860-90 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4890-4920 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4920-50 SHALE-100% Medium to dark brown black(100%), blocky, earthy, silty, black carbonaceous lens, firm, calcareous, no florescence, slow streaming yellow cut
- 4950-80 SHALE-80% Medium to dark gray(90%), blocky to platy, earthy, silty, firm, slightly calcareous, medium to dark brown (10%)
- SANDSTONE-20% Light to medium gray, very fine (lower) grained, sub angular, well sorted, tight, pyrite, firm, calcareous, grading to sandy Siltstone, no show

- 4980-5010 **SHALE-80% Medium to dark gray(90%), blocky to platy, earthy, silty, firm, slightly calcareous, medium to dark brown (10%)**
- SANDSTONE-20% Light to medium gray, very fine (lower) grained, sub angular, well sorted, tight, pyrite, firm, calcareous, grading to sandy Siltstone, no show**
- 5010-40 **SHALE-20% Medium to dark gray(90%), blocky to platy, earthy, silty, firm, slightly calcareous, medium to dark brown (10%)**
- SANDSTONE-80% White salt and pepper, very fine (upper) to medium (upper) grained, sub angular, moderately sorted, white clay matrix, carbonaceous inclusions, slightly calcareous, poor visible porosity, friable, no florescence, spotty brown oil stain, immediate streaming yellow cut**
- 5040-70 **SHALE-90% Medium to dark gray(100%), blocky to platy, earthy, firm, calcareous**
- SANDSTONE-10% White salt and pepper, very fine (upper) to medium (upper) grained, sub angular, moderately sorted, white clay matrix, carbonaceous inclusions, slightly calcareous, poor visible porosity, friable, no florescence, spotty brown oil stain, immediate streaming yellow cut**
- 5070-5100 **SHALE-60% Light to dark brown (70%), blocky to platy, earthy, firm, limey, slow streaming yellow cut, medium to dark gray, (30%), blocky to platy, calc**
- LIMESTONE-40% Tan light brown, chalky, argillaceous, mudstone, soft, yellow mineral florescence, weak residual yellow cut**
- 5100-30 **SHALE-70% Light to dark brown (40%), blocky to platy, earthy, firm, limey, slow streaming yellow cut, light to medium gray, (60%), blocky to platy, calc**
- LIMESTONE-30% Tan light brown, chalky, argillaceous, mudstone, soft, yellow mineral florescence, weak residual yellow cut**
- 5130-60 **SHALE-100% Medium to dark brown (80%) blocky, earthy, carbonaceous, black carbonaceous lens, firm, calcareous, streaming yellow cut, light to medium gray (20%)**

- 5160-90 SHALE-100% Light to medium gray (80%), blocky, earthy, firm, medium to dark brown (20%) no show
- 5190-5220 SHALE-70% Light to medium gray (60%), blocky, earthy, firm, medium to dark brown (40%), blocky to platy, limy, no show
- LIMESTONE-30% Tan light brown, chalky, mudstone, argillaceous, soft, no show
- 5220-50 SHALE-100% Medium to dark gray (70%), blocky, earthy, firm, calcareous, medium to dark brown (30%), blocky, limy, no show
- 5250-80 SHALE-100% Medium to dark gray (50%), blocky, earthy, firm, calcareous, medium to dark brown black, (50%), blocky to platy, limy, carbonaceous, firm, no show
- 5280-5310 SHALE-100% Light to medium gray (100%), blocky to platy, earthy to waxy, soft-firm, limey
- 5310-40 SHALE-90% Medium to dark brown gray brown(70%), blocky to platy, carbonaceous, soft to firm, limey, slow bleeding yellow cut, light to medium gray(30%), blocky to platy, earthy to waxy, soft-firm, limey
- LIMESTONE-10% Tan light brown, cryptocrystalline, argillaceous, mudstone, soft to firm, no show
- 5340-70 SHALE-100% Medium to dark brown gray brown(100%), blocky to platy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5370-5400 SHALE-90% Medium to dark brown gray brown(100%), blocky to platy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- LIMESTONE-10% Tan light brown, cryptocrystalline, argillaceous, mudstone, soft to firm, no show
- 5400-30 SHALE-100% Light to medium gray gray green (60%), blocky to platy, sub waxy to earthy, trace pyrite, firm, dolomitic, medium to dark brown (40%), blocky to platy, carbonaceous, soft to firm, limey, slow bleeding yellow cut

- 5430-60 SHALE-100% Medium to dark brown gray brown(70%) blocky to platy, carbonaceous, soft to firm, limey, slow bleeding yellow cut, light to medium gray gray green (30%), blocky to platy, sub waxy to earthy, trace pyrite, firm, dolomitic
- 5460-90 SHALE-100% Medium to dark brown gray brown(100%) blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5490-5520 SHALE-100% Medium to dark brown (100%), blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5520-50 SHALE-100% Medium to dark brown gray brown(100%) blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5550-80 SHALE-100% Medium to dark brown gray brown(100%) blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5580-5610 SHALE-100% Medium to dark brown gray brown occasional black(100%), blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5610-40 SHALE-100% Medium to dark brown gray brown occasional black(100%), blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut
- 5640-70 SHALE-100% Medium to dark brown gray brown occasional black(60%), blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut light to medium gray(40%), blocky to platy, earthy to waxy, soft to firm, slightly calcareous
- 5670-5700 SHALE-100% Medium to dark brown gray brown occasional black(70%), blocky, earthy, carbonaceous, soft to firm, limey, slow bleeding yellow cut light to medium gray(30%), blocky to platy, earthy to waxy, soft to firm, slightly calcareous
- 5700-30 SHALE-90% Light to medium gray (90%), blocky to platy, earthy-waxy, soft to firm, calcareous, no show, medium to dark brown, blocky, earthy, soft to firm, limey, slow bleeding yellow cut
- SANDSTONE-10% White light gray, very fine (lower) to fine (lower) grained, sub angular, well sorted, tight, calcareous cement, firm, no show

- 5730-60 SHALE-100% Medium to dark brown (80%), blocky to platy, carbonaceous, soft to firm, limey, light to medium gray (20%)
- 5760-90 SHALE-100% Medium to dark brown (80%), blocky to platy, carbonaceous, soft to firm, limey, light to medium gray (20%)
- 5790-5820 SHALE-100% Medium to dark brown gray brown black (100%), blocky to platy, black carbonaceous lens, soft to firm, limey, slow bleeding yellow cut
- 5820-50 SHALE-100% Medium to dark brown gray brown black (100%), blocky to platy, black carbonaceous lens, soft to firm, limey, slow bleeding yellow cut
- 5850-80 SHALE-100% Medium to dark brown gray brown black (100%), blocky to platy, black carbonaceous lens, soft to firm, limey, slow bleeding yellow cut
- 5880-5910 SHALE-100% Medium to dark brown gray brown black (100%), blocky to platy, black carbonaceous lens, soft to firm, limey, slow bleeding yellow cut
- 5910-40 SHALE-100% Medium to dark brown gray brown black (70%), blocky to platy, black carbonaceous lens, soft to firm, limey, slow bleeding yellow cut , medium to dark gray, blocky to platy, earthy to waxy, soft, calcareous
- 5940-70 SHALE- Light to medium gray(100%), blocky to platy, earthy to waxy, soft, calcareous
- 5970-6000 SHALE-30% Light to medium gray(100%), blocky to platy, earthy to waxy, soft, calcareous
- SANDSTONE-70% Brown white gray, very fine (lower) grained, sub rounded, well sorted, clay matrix, tight, dolomitic, firm, immediate streaming blue yellow cut, brown stain, no florescence
- 6000-30 SHALE-90% Medium to dark brown dark gray brown(70%), blocky to platy, earthy, silty, carbonaceous, limey, soft to firm, slow bleeding yellow cut, light to medium gray(30%)
- SANDSTONE-10% Brown white gray, very fine (lower) grained, sub rounded, well sorted, clay matrix, tight, dolomitic, firm, immediate streaming blue yellow cut, brown stain, no florescence

- 6030-60 SHALE-100% Medium to dark brown dark gray brown(100%), blocky to platy, earthy, carbonaceous, black carbonaceous lens, soft to firm, very slow weak yellow cut
- 6060-90 SHALE-100% Light to dark gray(70%), blocky to platy, waxy to earthy, soft to firm, calcareous, medium to dark brown(30%), blocky to platy, earthy, carbonaceous, black carbonaceous lens, soft to firm, very slow weak yellow cut
- 6090-6120 SHALE-100% Light to dark gray(100%), blocky to platy, waxy to earthy, soft to firm, calcareous
- 6120-50 SHALE-60% Light to dark gray(60%), blocky to platy, waxy to earthy, soft to firm, calcareous, medium to dark brown(40%), blocky to platy, earthy, carbonaceous, black carbonaceous lens, soft to firm, very slow weak yellow cut
- SANDSTONE-40% gray white brown, very fine(lower) grained, sub angular, well sorted, clay matrix, tight, firm, calcareous, brown oil stain, no florescence, slow bleeding yellow cut
- 6150-80 SHALE-70% dark brown dark gray brown black(80%), blocky, earthy, carbonaceous, firm, limey, slow bleeding yellow cut, gray green gray(20%)
- SANDSTONE-30% White light gray, very fine(lower) grained, sub angular, well sorted, clay matrix, tight, firm, brown oil stn, no florescence, slow bleeding yellow cut
- 6180-6210 SHALE-100% Light to medium gray(90%), blocky to platy, earthy to waxy, soft, calcareous, dark brown (10%)
- 6210-40 SHALE-100% Light to medium gray(90%), blocky to platy, earthy to waxy, soft, calcareous, dark brown (10%)
- 6240-70 SHALE-100% Light to medium gray(50%), blocky to platy, earthy to waxy, soft, calcareous, light to dark brown gray brown (50%), blocky to platy, earthy, carbonaceous, limey, weak residual yellow cut
- 6270-6300 SHALE-100% Medium to dark brown gray brown(70%), blocky to platy, earthy, carbonaceous, limey, weak residual yellow cut, light to medium gray gray green(30%), blocky to platy, earthy to waxy, soft, calcareous

- 6300-30 SHALE-100% Medium to dark brown gray brown(70%), ` blocky to platy, earthy, carbonaceous, limey, weak residual yellow cut, light to medium gray gray green(30%), blocky to platy, earthy to waxy, soft, calcareous
- 6330-60- SHALE-100% Light to dark gray gray green(80%), blocky to platy, earthy to waxy, soft, calcareous, medium to dark brown (20%)
- 6360-90 SHALE-100% Light to dark gray gray green(40%), blocky to platy, earthy to waxy, soft, calcareous, medium to dark brown (60%)
- 6390-6420 SHALE-100% Light to dark gray gray green(100%), blocky to platy, earthy to waxy, soft, calcareous
- 6420-50 SHALE-100% Light to dark gray gray green(100%), blocky to platy, earthy to waxy, soft, calcareous
- 6450-80 SHALE-100% Light to dark gray (100%), blocky to platy, earthy to waxy, soft, calcareous
- 6480-6510 SHALE-100% Medium to dark brown black(100%), blocky to platy, earthy, carbonaceous, soft, calcareous, weak yellow residual cut
- 6510-40 SHALE-100% Medium to dark brown black(100%), blocky to platy, earthy, carbonaceous, soft, calcareous, weak yellow residual cut
- 6540-70 SHALE-100% Medium to dark brown black(100%), blocky to platy, earthy, carbonaceous, soft, calcareous, weak yellow residual cut
- 6570-6600 SHALE-100% Dark brown black(100%), blocky to platy, earthy, carbonaceous, soft to firm, calcareous, weak yellow residual cut
- 6600-30 SHALE-100% Light to medium gray gray green(100%), blocky to platy, earthy to waxy, soft to firm, calcareous, no show

- 6630-60 **SHALE-40% Light to medium gray (40%), blocky to platy, earthy to waxy, soft, calcareous, dark brown black, blocky, earthy, carbonaceous, soft, limy, weak yellow residual cut**
- SANDSTONE-60% Brown white, very fine(lower) grained, sub rounded, well sorted, clay matrix, tight, friable, calcareous cement, brown oil stain, pale yellow florescence, slow residual yellow cut**
- 6660-90 **SHALE-80% Light to dark brown gray brown(100%), blocky, earthy, silty, carbonaceous, soft, limy, slow weak yellow residual cut**
- SANDSTONE-20% Brown white, very fine(lower) grained, sub rounded, well sorted, clay matrix, tight, friable, calcareous cement, brown oil stain, pale yellow florescence, slow residual yellow cut**
- 6690-6720 **SHALE-100% Light to dark brown gray brown(80%), blocky, earthy, silty, carbonaceous, soft, limy, slow weak yellow residual cut, light to medium gray(20%)**
- 6720-50 **SHALE-100% Medium to dark brown gray brown black(100%), blocky, earthy, silty, carbonaceous, soft, limy, slow weak yellow residual cut**
- 6750-80 **SHALE-20% Light to medium gray (100%), blocky to platy, waxy to earthy, soft, calcareous**
- SANDSTONE-80% white light gray salt and pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, white clay matrix, tight, friable, calcareous cement, no show**
- 6780-6810 **SHALE-20% Light to medium gray (100%), blocky to platy, waxy to earthy, soft, calcareous**
- SANDSTONE-80% white light gray salt and pepper, very fine (lower) to fine (upper) grained, sub rounded, well sorted, white clay matrix, tight, friable, calcareous cement, no show**
- 6810-40 **SHALE-100% Medium to dark brown dark gray brown black(80%),blocky, earthy, carbonaceous, soft to firm, limy, weak residual yellow cut, light to medium gray(20%), blocky, earthy to waxy, soft**

- 6840-70 SHALE-100% Light to medium gray(100%), blocky to platy, earthy to waxy, soft to firm, calcareous
- 6870-6900 SHALE-100% Light to medium gray(60%), blocky to platy, earthy to waxy, soft to firm, calcareous, medium to dark(40%) blocky, earthy, carbonaceous, soft to firm, limy, weak residual yellow cut
- 6900-30 SHALE-100% Medium to dark brown gray brown black(80%) blocky to platy, earthy, carbonaceous, soft to firm, limey, weak residual yellow cut, light to medium gray(20%)
- 6930-60 SHALE-80% Medium to dark brown gray brown black(80%) blocky to platy, earthy, carbonaceous, soft to firm, limey, weak residual yellow cut, light to medium gray(20%)
- LIMESTONE-20% Tan light brown, cryptocrystalline, chalky, mudstone, soft, no show
- 6960-90 SHALE-100% Light to medium gray(100%), blocky to platy, waxy to earthy, soft, calcareous
- 6990-7020 SHALE-80% Light to medium gray(80%), blocky to platy, waxy to earthy, soft, calcareous, medium to dark brown(20%), blocky, earthy, carbonaceous, soft to firm, limey
- SANDSTONE-20% Light to medium gray white, very fine (lower) grained, sub angular, well sorted, clay matrix, friable, tight, calcareous cement, no show
- 7020-50 SHALE-70% Light to medium gray(80%), blocky to platy, waxy to earthy, soft, calcareous, medium to dark brown(20%), blocky, earthy, carbonaceous, soft to firm, limey
- SANDSTONE-30% Tan white, very fine(lower) to fine(lower) grained, sub angular, well sorted, clay matrix, friable, tight, calcareous cement, spotty light brown stain, no florescence, weak milky yellow cut
- 7050-80 SHALE-100% Light to medium gray(100%), blocky to platy, waxy to earthy, soft, calcareous
- 7080-7110 SHALE-100% Dark brown dark gray black (80%), blocky to platy, earthy, carbonaceous, soft, limey, slow weak bleeding yellow cut, light to medium gray(20%)

- 7110-40 SHALE-100% Dark brown dark gray black (80%), blocky to platy, earthy, carbonaceous, soft, limey, slow weak bleeding yellow cut, light to medium gray(20%)
- 7140-70 SHALE-90% Light to medium gray(60%), blocky to platy, waxy to earthy, soft, calcareous, dark brown, dark gray, black(40%), earthy, carbonaceous, soft, limey
- SANDSTONE-10% Light gray white, very fine(lower) grained, sub angular, well sorted, clay matrix, friable, calcareous, grading to sandy Siltstone, no show
- 7170-7200 SHALE-80% Light to medium gray(60%), blocky to platy, waxy to earthy, soft, calcareous, dark brown, dark gray, black(40%), earthy, carbonaceous, soft, limey
- SILTSTONE-Light gray, sandy, argillaceous, firm, calc, no show
- 7200-30 SHALE-100% Light to medium gray(100%), blocky to platy, waxy to earthy, soft, calcareous
- 7230-60 SHALE-100% Light to medium gray(100%), blocky to platy, waxy to earthy, soft, calcareous
- 7260-90 SHALE-100% Light to medium gray(100%), blocky to platy, waxy to earthy, soft, calcareous
- 7290-7320 SHALE-100% Light to medium gray(90%), blocky to platy, waxy to earthy, soft, calcareous, dark brown black(10%)
- 7320-50 SHALE-100% Dark brown black dark gray brown(100%), blocky, earthy, carbonaceous, soft, limey, weak residual cut
- 7350-80 SHALE-100% Dark brown black dark gray brown(100%), blocky, earthy, carbonaceous, soft, limey, weak residual cut
- 7380-7410 SHALE-100% Dark brown black dark gray brown(100%), blocky, earthy, carbonaceous, soft, limey, weak residual cut
- 7410-40 SHALE-100% Dark brown black dark gray brown(100%), blocky, earthy, carbonaceous, soft, limey, weak residual cut
- 7440-70 SHALE-100% Dark brown black dark gray brown(100%), blocky, earthy, carbonaceous, soft, limey, weak residual cut

- 7470-7500 SHALE-100% Light to medium gray(90%), blocky, earthy, silty, v soft, limey, dark brown, black,(10%)
- 7500-30 SHALE-100% Light to medium gray(100%), blocky, earthy, silty, v soft, limey
- 7530-60 SHALE-100% Light to medium gray(90%), blocky, earthy, silty, v soft, limey, abundant LCM from sweep
- 7560-90 SHALE-100% Black dark brown dark gray brown(60%), blocky, earthy, carbonaceous, calcareous, light to medium gray(40%), blocky, earthy, silty, soft, calcareous
- 7590-7620 SHALE-100% Black dark brown dark gray brown(90%), blocky, earthy, carbonaceous, calcareous, light to medium gray(10%), blocky, earthy, silty, soft, calcareous
- 7620-50 SHALE-80% Light to medium gray(80%), blocky, earthy, silty, v soft, calcareous, dark brown black(20%),weak residual yellow cut
- SILTSTONE-20% Light to medium gray, sandy, argillaceous, soft, calcareous
- 7650-80 SHALE-100% Light to medium gray(50%), blocky, earthy, silty, v soft, calcareous, dark brown black(50%),weak residual yellow cut
- 7680-7710 SHALE-80% Light to medium gray(100%), blocky, earthy, silty, v soft to soft, calcareous
- SILTSTONE-20% Light to medium gray, sandy, argillaceous, soft to firm, calcareous
- 7710-40 SHALE-60% Dark brown dark gray black(100%) blocky, earthy, silty, carbonaceous, soft, calc, weak residual yellow cut
- SILTSTONE-40% Dark gray gray brown, sandy, argillaceous, soft, calc

- 7740-70 **SHALE-90%** Dark brown dark gray black(100%) blocky, earthy, silty, carbonaceous, soft, calc, weak residual yellow cut
- SILTSTONE-10%** Dark gray gray brown, sandy, argillaceous, soft, calc
- 7770-90 **SHALE-100%** Black dark brown(100%) blocky, earthy, very carbonaceous, soft to firm, limey
- 7790-7800 **SHALE-100%** Black dark brown(100%) blocky, earthy, very carbonaceous, soft to firm, limey
- 7800-20 **LIMESTONE-80%** Black dark brown, argillaceous, carbonaceous, grading to limey Shale, weak pale yellow milky cut
- SHALE-20%** Black dark brown(100%) blocky, earthy, very carbonaceous, soft to firm, calc
- 7820-30 **LIMESTONE-80%** Black dark brown, argillaceous, carbonaceous, grading to limey Shale, weak pale yellow milky cut
- SILTSTONE-20%** Light gray, argillaceous, sandy, firm, dolomitic, firm
- 7830-42 **LIMESTONE-100%** Black dark brown, argillaceous, carbonaceous, grading to limey Shale, weak pale yellow milky cut
- 7842-70 See Detail Core Descriptions 7842-7902
- SHALE-30%** Dark gray, earthy, silty, carbonaceous, micaceous, firm, dolomitic, weak yellow residual ring cut
- SANDSTONE-70%** Light gray, very fine(lower) to fine(upper) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, tight, poor visible porosity 2-6%, no stain, no florescence, faint yellow residual ring cut

- 7870-7900 **SHALE-60%** Dark gray, earthy, silty, carbonaceous, micaceous, firm, dolomitic, weak yellow residual ring cut
- SANDSTONE-30%** Light gray, very fine(lower) to fine(upper) grained, sub rounded, well sorted, micaceous, carbonaceous inclusions, tight, poor visible porosity 2-6%, no stain, no florescence, faint yellow residual ring cut
- SILTSTONE10%** Dark gray, argillaceous, sandy, micaceous, firm, dolomitic
- 7900-20 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 7920-50 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 7950-80 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 7980-8010 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8010-40 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8040-70 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8070-8100 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8100-30 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8130-60 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut

- 8160-90 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8190-8220 **SHALE-90%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- SILTSTONE-10%** Light to medium gray, argillaceous, sandy, soft to firm, calc, no show
- 8220-50 **SHALE-100%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- 8250-80 **SHALE-80%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- SANDSTONE-20%** Light gray white salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, no show
- 8280-8310 **SHALE-90%** Dark gray brown, black(100%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut
- SANDSTONE-10%** Light gray white salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, no show
- 8310-40 **SHALE-100%** Medium to dark gray brown, black(80%), blocky, earthy, limey, carbonaceous, soft to firm, weak residual yellow ring cut, medium to dark gray(20%), blocky, earthy, soft, limey

- 8340-70** **SHALE-60%** Medium to dark gray brown, black(70%), blocky, earthy, limy, carbonaceous, soft to firm, weak residual yellow ring cut, medium to dark gray(30%), blocky, earthy, soft, limy
- SANDSTONE-30%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, firm, tight, calcareous, no stain, slow weak yellow residual ring cut
- SILTSTONE-10%** Light gray, argillaceous, sandy, soft to firm, calcareous
- 8370-8400** **SHALE-30%** Light to medium gray 60%), dark gray brown dark brown black, (40%) , blocky, earthy, soft to firm, limy grading to argillaceous Limestone
- SANDSTONE-40%** White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, firm, tight, calcareous, no show
- SILTSTONE-30%** Light gray, argillaceous, sandy, soft to firm, calcareous
- 8400-30** **SHALE-40%** Light to medium gray (60%), blocky, earthy, silty, soft, limy, dark gray brown (40%), blocky, earthy, carbonaceous, soft, limy
- SANDSTONE-50%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, pyrite, firm, tight, calcareous cement, no show
- SILTSTONE-10%** Light gray, argillaceous, sandy, soft to firm, calcareous
- 8430-60** **SHALE-80%** Light to medium gray (80%), blocky, earthy, silty, soft, limy, dark gray brown (20%), blocky, earthy, carbonaceous, soft, limy
- SILTSTONE-20%** Light gray, argillaceous, sandy, soft to firm, calcareous

- 8460-90 Limestone-90% Light brown gray brown, cryptocrystalline, fossiliferous, argillaceous, soft, no show**
- Shale-10% Light to medium gray (30%), blocky, earthy, silty, soft, limy, dark gray brown dark brown (70%), blocky, earthy, carbonaceous, soft, limy**
- 8490-8520 Sandstone-50% White light gray salt and pepper, very fine(lower) to very fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, firm, tight, calcareous cement, no show**
- Claystone-30% White, chalky, very soft**
- Shale-10% Light to medium gray (30%), blocky, earthy, silty, soft, limy, dark gray brown dark brown (70%), blocky, earthy, carbonaceous, soft, limy**
- Limestone-10% Light brown gray brown, cryptocrystalline, fossiliferous, argillaceous, soft, no show**
- 8520-50 Sandstone-40% White light gray salt and pepper, very fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, firm, tight, calcareous cement, no show grading to Siltstone**
- Claystone-20% White, chalky, very soft**
- Shale-20% Light gray green gray (60%), blocky, earthy, silty, soft, limy, dark gray brown dark brown (40%), blocky, earthy, carbonaceous, soft, limy**
- Limestone-20% Light brown gray brown, cryptocrystalline, fossiliferous, argillaceous, soft, no show**

- 8550-80 **SANDSTONE-90%** White salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, glauconitic, firm, tight, calcareous cement, no show
- SHALE-10%** Light gray green gray (60%), blocky, earthy, silty, soft, limy, dark gray brown dark brown (40%), blocky, earthy, carbonaceous, soft, limy
- 8580-8610 **LIMESTONE-70%** Dark gray brown, chalky, argillaceous, soft
- SHALE-20%** Dark brown black (100%), blocky, earthy, soft, limey
- SANDSTONE-10%** White salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, glauconitic, firm, tight, calcareous cement, no show
- 8610-40 **SHALE-60%** Light to medium gray (40%), dark gray brown (60%), blocky, earthy, soft, limey
- LIMESTONE-20%** Dark gray brown, chalky, argillaceous, soft
- SANDSTONE-20%** White salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, glauconitic, firm, tight, calcareous cement, no show
- Very Poor Samples abundant LCM**
- 8640-70 **SHALE-50%** Light to medium gray (40%), dark gray brown (60%), blocky, earthy, soft, limey
- LIMESTONE-30%** Dark gray brown, chalky, argillaceous, soft
- SANDSTONE-20%** White salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, micaceous, glauconitic, firm, tight, calcareous cement, no show
- 8670-8700 **SHALE-20%** Dark gray (100%), blocky, earthy, silty, soft, limey
- LIMESTONE-80%** Dark gray brown, chalky, argillaceous, soft

- 8700-30 **LIMESTONE-80%** Dark gray brown, chalky, argillaceous, soft
SHALE-20% Dark gray (100%), blocky, earthy, silty, soft, limey
- 8730-60 **SANDSTONE-60%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show
LIMESTONE-30% Dark gray brown, chalky, argillaceous, soft
SHALE-10% Light to medium gray (100%), blocky, earthy, silty, soft, calcareous
- 8760-90 **SANDSTONE-90%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show
SHALE-10% Light to medium gray (100%), blocky, earthy, silty, soft, calcareous
- 8790-8820 **SHALE-30%** Light to medium gray (100%), blocky, earthy, silty, soft, calcareous
SILTSTONE-60% Light gray, argillaceous, sandy, soft, limy
SANDSTONE-10% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show
- 8820-50 **SHALE-90%** Red brown (10%) light to medium gray (90%), blocky, earthy, silty, soft, calcareous
SANDSTONE-10% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show

- 8850-80** **SHALE-10% Red brown orange (30%) light to medium gray (70%), blocky, earthy, silty, soft, calcareous**
- SANDSTONE-80% White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show**
- CLAYSTONE-White, chalky, very soft, limy**
- 8880-8910** **SHALE-30% Red brown orange (10%) light to medium gray (90%), blocky, earthy, silty, soft, calcareous**
- SILTSTONE-20%Light to medium gray, sandy, argillaceous, soft, calcareous**
- SANDSTONE-50% White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show**
- 8910-40** **SHALE-60% Red brown maroon purple (20%) light to medium gray (80%), blocky, earthy, silty, soft, calcareous**
- SILTSTONE-10%Light to medium gray, sandy, argillaceous, soft, calcareous**
- SANDSTONE-30% White light gray salt and pepper, very fine(lower) to fine(lower) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, firm, tight, calcareous cement, no show**
- 8940-70** **SANDSTONE-90% White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub rounded, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- SHALE-10% Red brown maroon purple (20%) light to medium gray (80%), blocky, earthy, silty, soft, calcareous**

- 8970-9000 SANDSTONE-80%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub rounded, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show
- SHALE-20%** Red brown maroon purple (20%) light to medium gray (80%), blocky, earthy, silty, soft, calcareous
- 9000-30 SANDSTONE-50%** White light gray salt and pepper, very fine(lower) to fine(upper) grained, sub rounded, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show
- SHALE-40%** Variegated red brown maroon purple (30%) light to medium gray (70%), blocky, earthy, silty, soft, calcareous
- CLAYSTONE-White,** chalky, very soft
- 9030-60 SANDSTONE-70%** White light gray salt and pepper, fine(upper) grained, sub angular, well sorted, white clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show
- SHALE-30%** Variegated red brown maroon purple (60%) light to medium gray (40%), blocky, earthy, silty, soft, calcareous
- 9060-90 SHALE-50%** Variegated red brown maroon purple (70%) light to medium gray (30%), blocky, earthy, silty, soft, calcareous
- SILTSTONE-20%** Light gray red brown, argillaceous, sandy, soft to firm, slightly calcareous
- SANDSTONE-30%** Light to medium gray tan salt and pepper, fine(upper) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show

- 9090-9120 **SHALE-70% Variegated red brown maroon purple (70%) light to medium gray (30%), blocky, earthy, silty, soft, calcareous**
- SILTSTONE-20% Light gray red brown, argillaceous, sandy, soft to firm, slightly calcareous**
- SANDSTONE-10% Light to medium gray tan salt and pepper, fine(upper) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9120-50 **SHALE-50% Variegated red brown maroon green (40%) light to medium gray (60%), blocky, earthy, silty, soft, calcareous**
- SILTSTONE-20% Light gray red brown, argillaceous, sandy, soft to firm, slightly calcareous**
- SANDSTONE-30% Light to medium gray tan salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9150-80 **SHALE-60% Variegated red brown maroon green (40%) light to medium gray (60%), blocky, earthy, silty, soft, calcareous**
- SILTSTONE-10% Light gray red brown, argillaceous, sandy, soft to firm, slightly calcareous**
- SANDSTONE-30% Light to medium gray tan salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9180-9210 **SHALE-90% Variegated red brown maroon green (70%) light to medium gray (30%), blocky, earthy to waxy, silty, soft, calcareous**
- SANDSTONE-10% Light to medium gray tan salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**

- 9210-40 **SHALE-90% Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, silty, soft, calcareous**
- SANDSTONE-30% Light to medium gray tan salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9240-70 **SHALE-90% Medium to dark gray black (90%), carbonaceous, variegated red brown maroon green (10%) blocky, earthy, silty, soft, calcareous**
- SANDSTONE-10% White tan salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9270-9300 **SHALE-90% Variegated red brown maroon orange (90%) light to dark gray (10%), blocky, earthy, soft, calcareous**
- SANDSTONE-10% White brown, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, friable, tight, calcareous cement, no show**
- 9300-30 **SHALE-100% Variegated red brown maroon green (80%) light to medium gray (20%), blocky, earthy, soft, calcareous**
- 9330-60 **SHALE-100% Variegated red brown maroon green (80%) light to medium gray (20%), blocky, earthy, soft, calcareous**
- 9360-90 **SHALE-90% Variegated red brown maroon green (90%) light to medium gray (10 SHALE %), blocky, earthy, soft, calcareous**
- SANDSTONE-10% Gray brown, very fine (lower) to fine (lower) grained, sub angular, well sorted, clay matrix, carbonaceous inclusions, trace glauconite, friable to firm, tight, calcareous cement, no show**

- 9390-9420 **SANDSTONE-80%** Light gray white tan, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- SHALE-10%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- 9420-50 **SHALE-80%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- SANDSTONE-20%** Light gray white tan, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9450-80 **SHALE-80%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- SANDSTONE-20%** Light gray white tan, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9480-9510 **SHALE-90%** Variegated red brown green brown (20%) light to medium gray (80%), blocky, earthy, soft, limy grading to argillaceous **LIMESTONE**
- SANDSTONE-10%** Light gray white tan, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9510-40 **SHALE-90%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- SANDSTONE-10%** Light gray white tan, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9540-70 **SHALE-100%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy

- 9570-9600 **SHALE-90%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- SANDSTONE-10%** Light gray white tan, very fine (lower) to fine (upper) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9600-30 **SHALE-50%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- SANDSTONE-50%** White light to medium gray brown salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9630-60 **SANDSTONE-90%** White light gray salt and pepper, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, clay matrix, tight, calcareous cement, friable, no show
- SHALE-10%** Variegated red brown maroon green (90%) light to medium gray (10%), blocky, earthy, soft, limy
- 9660-90 **SHALE-60%** Variegated red brown maroon green gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-40%** White light gray salt and pepper, very fine (lower) to very fine (upper) grained, sub rounded, well sorted, carbonaceous inclusions, clay matrix, tight, calcareous cement, friable, no show
- 9690-9720 **SANDSTONE-90%** Light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- SHALE-10%** Variegated red brown maroon green gray, blocky, earthy to waxy, soft, limy

- 9720-50 SANDSTONE-90% Light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- SHALE-10% Variegated red brown maroon green gray, blocky, earthy to waxy, soft, limy
- 9750-80 SHALE-60% Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-40% Light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9780-9810 SHALE-80% Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SILTSTONE-10% Light gray, argillaceous, sandy, soft, limy
- SANDSTONE-10% Light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, trace glauconite, clay matrix, tight, calcareous cement, friable, no show
- 9810-40 SHALE-60% Light gray (60%), variegated red brown green gray (40%), blocky, earthy to waxy, soft, limy
- SILTSTONE-20% Light gray, argillaceous, sandy, soft, limy
- SANDSTONE-20% Light gray, very fine (lower) to very fine (upper) grained, sub angular, well sorted, clay matrix, tight, calcareous cement, friable, no show
- 9840-70 SHALE-70% Light gray (20%), variegated red brown green gray (80%), blocky, earthy to waxy, soft, limy
- SILTSTONE-20% Light gray, argillaceous, sandy, soft, limy
- SANDSTONE-10% Light gray, very fine (lower) to very fine (upper) grained, sub angular, well sorted, clay matrix, tight, calcareous cement, friable, no show

- 9870-9900 **SHALE-90%** Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SILTSTONE-10%**Light gray, argillaceous, sandy, soft, limy
- 9900-30 **SHALE-70%** Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-30%** Light gray salt and pepper, very fine(lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, clay matrix, tight, calcareous cement, no show
- 9930-60 **SHALE-80%** Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-20%** Light gray salt and pepper, very fine(lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, clay matrix, tight, calcareous cement, no show
- 9960-90 **SHALE-80%** Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SILTSTONE-Red brown gray**, argillaceous, sandy, soft, limy
- SANDSTONE-20%** Light gray salt and pepper, very fine(lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, micaceous, clay matrix, tight, calcareous cement, no show
- 9990-10020 **SHALE-30%** Variegated red brown green gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-70%** Light gray salt and pepper, very fine(lower) to medium (lower) grained, sub angular, moderately sorted, carbonaceous inclusions, glauconitic , clay matrix, tight, calcareous cement, no show
- 10020-50 **SHALE-80%** Variegated red brown maroon green gray light gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-20%** Light gray salt and pepper, very fine(lower) to medium (lower) grained, sub angular, moderately sorted, carbonaceous inclusions, glauconitic , clay matrix, tight, calcareous cement, no show

- 10050-80** **SHALE-90%** Variegated red brown maroon green gray dark gray, blocky, earthy to waxy, soft, limy
- SANDSTONE-10%** Light gray salt and pepper, very fine(lower) to medium (lower) grained, sub angular, moderately sorted, carbonaceous inclusions, glauconitic , clay matrix, tight, calcareous cement, no show
- 10080-110** **SHALE-70%** Light purple light gray red brown, blocky, earthy, very soft to soft, gummy, limy
- SANDSTONE-30%** Light gray brown salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, glauconitic, clay matrix, tight, friable, calcareous cement, no show
- 10110-40** **SHALE-90%** Variegated light gray red brown light purple, blocky, earthy, very soft to soft, gummy, limy
- SANDSTONE-10%** Light gray brown salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, glauconitic, clay matrix, tight, friable, calcareous cement, no show
- 10140-70** **SHALE-60%** Variegated light gray red brown light purple, blocky, earthy, very soft to soft, gummy, limy
- TD**
- SANDSTONE-40%** Light gray salt and pepper, very fine (lower) to fine (lower) grained, sub angular, well sorted, carbonaceous inclusions, glauconitic, clay matrix, tight, friable, calcareous cement, no show

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Sept 28, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 3000' **Progress:** Nil' **Operation:** Trip
NB# Dev 6422'MD .89deg @ 182.08azm

Mud Ck 3000' **Wt** **Vis** **PV** **YP** **PH** **F** **Chl**

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

Sample Quality:

SH-m

Mud Gas	Trip Gas	Nil	Mud Wt in	Mud Wt out	Flare
	Conn Gas		Mud Wt in	Mud Wt out	Flare
	BG		Mud Wt in	Mud Wt out	Flare
	FG				
	DTG/CG				

SHOWS

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Sept 30, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 3684' **Progress:** 600' **Operation:** Drilling
NB# 2 RR 8 3/4", Ultrerra, , MS1666DU, PDC, in at 3084 Bit # 1 drilled 45 ft in 2 1/2 hrs

Dev 3/4 deg @ 3309'

Mud Ck 3121' **Wt** 8.85 **Vis** 39 **PV** 4 **YP** 5 **PH** 9.5 **F** 12.0 **Chl** 28,500

Formation: Green River **Tops:**

24 Hr. Lithology: Sandstone, Shale, Limestone

Sample Quality: Good

Smpl @ 3600

SH-90% lt-dk brn (90%) lt-m gy (10%), blk, rthy, carb, lmy, sft frm, oil sh, sl bldg yel cut

SS-10% lt gy wh s&p, vf(u) gr, s bang, w srt, tr mic, carb incl, sl calc, no show

Mud Gas	Trip Gas	Nil	Mud Wt in	Mud Wt out	Flare
	Conn Gas	1014/1308	Mud Wt in 9.0	Mud Wt out 9.0	Flare
	BG	75	Mud Wt in 9.0	Mud Wt out 9.0	Flare
	FG				
	DTG/CG				

SHOWS #1

INTERVAL	Gross	P/Rate	Peak	Flare	Mud in/out	Porosity	Flor	Stain	Lith
3488-3495	7	.33-.37-.27	1248	no	9.0/9.0	Prob frac Sh			Oil sh w/calc fld frags /tr intbd SS

Note: trace dark black oil over shaker @ 3420

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Oct 3, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 6310 **Progress:** 1233' **Operation:** Drilling

NB# 3 8 3/4", **STC,** , **MS1616, PDC, Mudmotor in at 4664 Bit # 2 drilled 1570 ft in 32 hrs**

Dev at 6252 2.4 deg 178.4 azm

Mud Ck 5644' **Wt 9.35** **Vis 40** **PV 9** **YP 12** **PH 9.1** **F 6.8** **Chl 33000**

Formation: Green River **Tops: Green River @3112, GR 2 @ 4618', Mohogeny Bench @ 4842, DJ Marker @ 5252**

24 Hr. Lithology: Sandstone, Shale, Limestone

Sample Quality: Good

Smpl @ 6150

SH-70% lt-dk brn (80%) lt-m gy (20%), blk, rthy, carb, lmy, sft frm, oil sh, sl bldg yel cut

SS -30% lt gy lt brn, vf(l)gr, sbrnd, w srt, clay mtx, fri frm, tt, calc, no show

Mud Gas	Trip Gas	NA	Mud Wt in	Mud Wt out	Flare
	Conn Gas	1061	Mud Wt in 9.5	Mud Wt out 9.5	Flare
	BG	202/325	Mud Wt in 9.5	Mud Wt out 9.5	Flare
	FG	1063			
	DTG/CG	5409			

SHOWS #1

INTERVAL	Gross	P/Rate	Peak	Flare	Mud in/out	Porosity	Flor	Stain	Lith
6054-6065	11	.6-.72-.48	1063	no	9.5/9.5			no	oil SH sl bldg wh cut
6160-70	10	1.1-.5-.7	4631	no	9.5/9.5+	tight	no	brn	SS-vf(l)gr, tt, immd strmg yel cut

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Oct 7, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 7902 **Progress:** 60' **Operation:** TOH w/ core barrel

NB# 5 8 1/2",Ulterra, , BHC405C, in at 7902 Bit # 4 cut 60 ft in 12 1/2 hrs

Dev at 7761 1.6 deg 229.1 azm

Mud Ck 7902 **Wt** 9.75 **Vis** 41 **PV** 12 **YP** 15 **PH** 8.8 **F** 4.8 **Chl** 35000

Formation: Green River **Tops:** Green River @3112, GR 2 @ 4618', Mohogeny Bench @ 4842, DJ Marker @ 5252 DJ1 Marker @ 5528 J Marker @ 5825 T/ GR3 H Marker 6046 HI Marker 6186, I Marker 6536, K Marker 6940, CP 70 Castle Peak 7716,CP 80 7806

24 Hr. Lithology: Sandstone, Shale

Sample Quality: Good

Smpl @ 7900

SS-100% wh lt gy s&p, vf(u)-f(u) gr, sbang, w srt, wh cly mtx, rr lt brn stn, no flor, sl wk bldg yel cut

Mud Gas	Trip Gas	5712	Mud Wt in	Mud Wt out	Flare
	Conn Gas	1023/1811	Mud Wt in 9.7	Mud Wt out 9.7	Flare
	BG	95	Mud Wt in 9.7	Mud Wt out 9.7	Flare
	FG	1924			

SHOWS

INTERVAL	Gross	P/Rate	Peak	Flare	Mud in/out	Porosity	Flor	Stain	Lith
7897-7902	5	7-5 1/2-13	1924			tight	none	Tr lt brn	SS-wh vf-fg wh cly fil sl wk bldg yel cut

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Oct 8, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 9458 **Progress:** 1005 **Operation:** Drilling

NB# 5 8 1/2",Ulterra, , MS1666D in at 7902 Bit # 4 cut 60 ft in 12 1/2 hrs

Mud Ck 8806 Wt 11.35 Vis 40 PV 15 YP 17 PH 8.8 F 5.2 Chl 35000

Dev at 8340 1.9 deg 236.5 azm

Formation: Wasatch Tops: CP 80 @ 7806, Unconformity @7842,Ute Land Butte @ 7920, CP 90 @ 8100, Wasatch @8294, Red Beds @ 8846, CP 190 8928, Massive Rd Bd @ 9062

24 Hr. Lithology: Sandstone, Siltstone, Shale,

Sample Quality: Good

Smpl @ 9300 SH-80% rd brn, mar, brn, (70%) lt-m gy(30%), blkky, rthy, slty, sft, calc, lmy SS-20% lt gy,wh, s&p, vf(l)-f(l) gr, carb incl, fri-frm, calc, cly mtx, tt, no show

Mud Gas	Trip Gas	NA	Mud Wt in	Mud Wt out	Flare
	Conn Gas	4024/4121	Mud Wt in 11.5	Mud Wt out 11.4	Flare
	BG	3500	Mud Wt in 11.5	Mud Wt out 11.5	Flare
	FG	NA			

SHOWS

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

MORNING GEOLOGIC REPORT

Company: Harvest (US) Holdings, Inc	Date: Oct 9, 2010
Lease: Moon #1-27-3-2	G.L.: 5116'
Location: SW/NE Sec.27,T3S,R2W	K.B.: 5140'
County/State: Duchesne Co., Utah	Geologist: Dennis Springer

7:00a.m. Depth 10170 TD **Progress:** 712 **Operation:** TOH for E Logs

NB# 5 8 1/2",Ulterra, , **MS1666D** in at 7902 **Bit # 5** cut 2268 ft in 45 1/2 hrs

Mud Ck 9864 **Wt** 12.0 **Vis** 43 **PV** 19 **YP** 14 **PH** 8.8 **F** 5.6 **Chl** 38000

Dev at 10120 **2.2 deg** 196.4 **azm**

Formation: Wasatch **Tops: CP 80 @ 7806, Unconformity @7842,Ute Land Butte @ 7920, CP 90 @ 8100, Wasatch @8294, Red Beds @ 8846, CP 190 8928, Massive Rd Bd @ 9062**

24 Hr. Lithology: Sandstone, Siltstone, Shale,

Sample Quality: Good

Smpl @ 10170 SH-60% rd brn, mar, brn, (70%) lt-m gy(30%), blkky, rthy, slty, sft, calc, lmy SS-40% lt gy,wh, s&p, vf(l)-f(l) gr, carb incl, fri-frm, calc, cly mtz, tt, no show

Mud Gas	Short T Gas 6703	Mud Wt in 12.2	Mud Wt out 12.2	Flare
	Conn Gas 4469/6149	Mud Wt in 11.5	Mud Wt out 11.4	Flare
	BG 900	Mud Wt in 12.2	Mud Wt out 12.2	Flare
	FG NA			

SHOWS

INTERVAL	Gross	P/Rate	Peak	Flare	Mud in/out	Porosity	Flor	Stain	Lith
10052-10060	8	.6-.4-.8	5041	N0	12.2/12.2	poor	N0	no	Sl wk resid ring

Hydrocarbon Ratio Analysis

Show	DEPTH (feet)		Gas	Total Gas	C1 (ppm)	C2 (ppm)	C3 (ppm)	C4 (ppm)	C1/C2	C1/C3	C1/C4	Formation	Comments
1	3582	3589	Peak	1248	92918	26092	5836	1	4	16	70530	GR	SH-m-dk brn oil sh , blk oil tar over shaker
			BG	300	22388	6287	1406	0					
			Net	948	70530	19805	4430	1					
2	4356	4364	Peak	311	25029	4652	1500	1	5	14	21265	GR	SH-slow strmg cut
			BG	49	3764	622	1	0					
			Net	262	21265	4030	1499	1					
3	4461	4478	Peak	567	41758	7679	4449	2872	6	10	12	GR	LS-fst strmg wh-bl cut
			BG	116	8492	2121	1098	1					
			Net	451	33266	5558	3351	2871					
4	4841	4854	Peak	911	67669	16130	5029	1706	3	10	17	GR	SH-no flor stng wh ct
			BG	334	38502	6433	2030	1					
			Net	577	29167	9697	2999	1705					
5	6054	6065	Peak	1063	81425	18425	6501	1	4	12	65356	GR	SH(90%)-sl wh ct LS(10%)- no show
			BG	202	16069	3287	958	0					
			Net	861	65356	15138	5543	1					
6	6668	6674	Peak	3152	221576	79837	13831	3895	3	16	25	GR	SS lt gy, vf(l)gr, tt, brn stn, immd strmg yel ct
			BG	2486	174769	62972	10909	2000					
			Net	666	46807	16865	2922	1895					
7	7377	7398	Peak	2626	180520	66585	15536	1	4	11	163957	GR	SH-sl wh yel ct
			BG	220	16563	4480	953	0					
			Net	2406	163957	62105	14583	1					

Figure 1.0a Test Data

Hydrocarbon Ratio Analysis (Cont.)

8	7750	7757	Peak	2225	155727	58135	8648	1	3	13	19401	GR	SH-dk brn blk
			BG	1951	136326	51696	7172	0					
			Net	274	19401	6439	1476	1					
9	7805	7811	Peak	4862	340301	127039	18897	1	3	18	262515	GR	LS-wk pl yel cut
			BG	1111	77786	29039	4319	0					
			Net	3751	262515	98000	14578	1					
10	7897	7902	Peak	1924	121593	45966	19359	5513	3	6	19	GR	SH vis frags in core-sl wh resid cut
			BG	250	18326	4846	1873	1					
			Net	1674	103267	41120	17486	5512					
11	8129	8134	Peak	3368	228114	67933	40839	1	3	6	141726	GR	SH-sl wh res ring cut
			BG	1275	86388	25727	15466	0					
			Net	2093	141726	42206	25373	1					
12	8221	8228	Peak	2666	186634	38854	27157	1	5	7	151245	GR	SH-sl wh res ring cut
			BG	464	35389	6845	4199	0					
			Net	2202	151245	32009	22958	1					
13	8342	8359	Peak	3157	249842	43241	22712	1	6	11	203751	Wasatch	SS-tight, no stn, sl res yel ring cut
			BG	582	46091	7977	4189	0					
			Net	2575	203751	35264	18523	1					
14	9624	9630	Peak	4192	301733	81682	18597	17202	6	7	4	Wasatch	SS-no show, no flor
			BG	3654	267338	75608	13931	8604					
			Net	538	34395	6074	4666	8598					
15	10052	10060	Peak	5041	341730	97810	28326	16309	3	12	141	Wasatch	SS-sl wh cut
			BG	3553	240874	68943	19966	15593					
			Net	1488	100856	28867	8360	716					

Figure 1.0b Test Data

Show 1 3582'-3589'

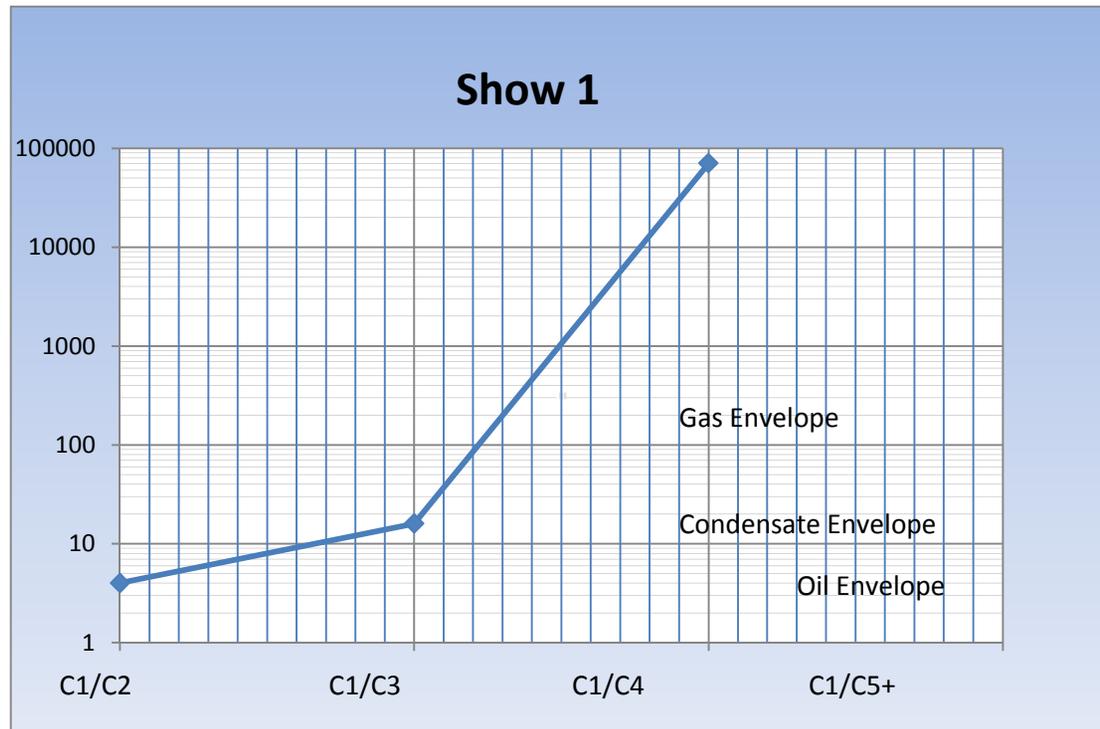


Figure 1.1 Show 1

Show 2 4356'-4364'

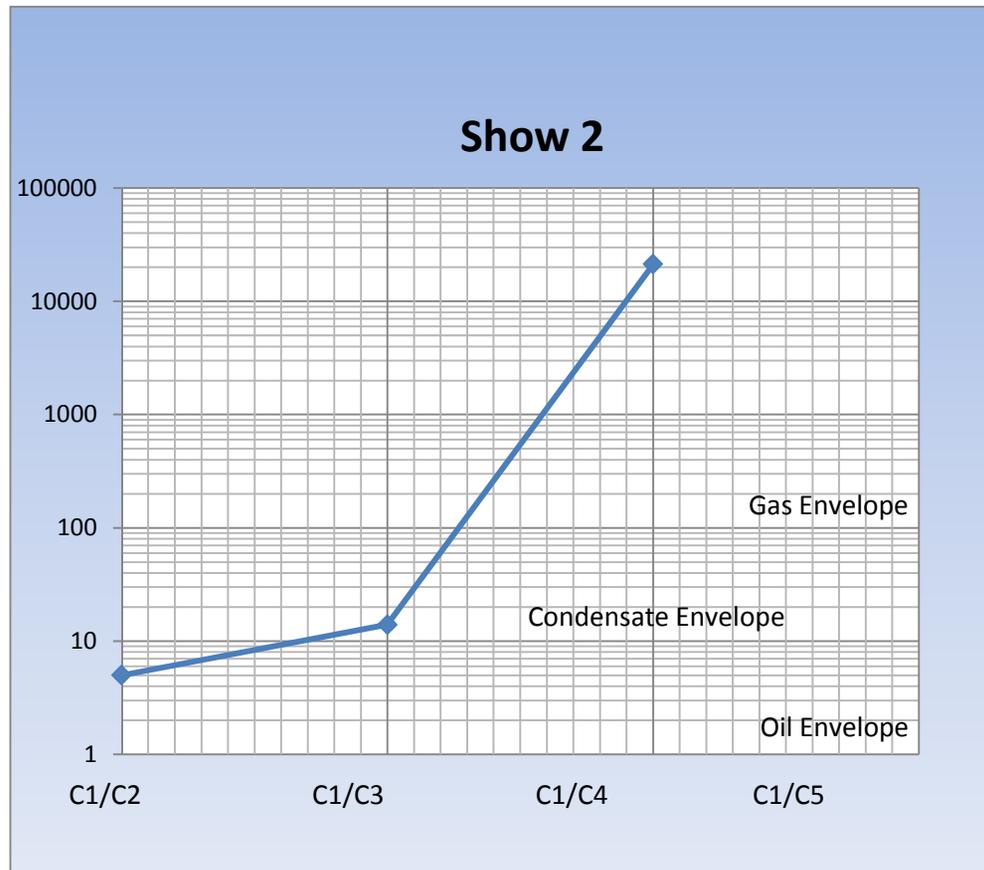


Figure 1.2 Show 2

Show 3 4461'-4478'

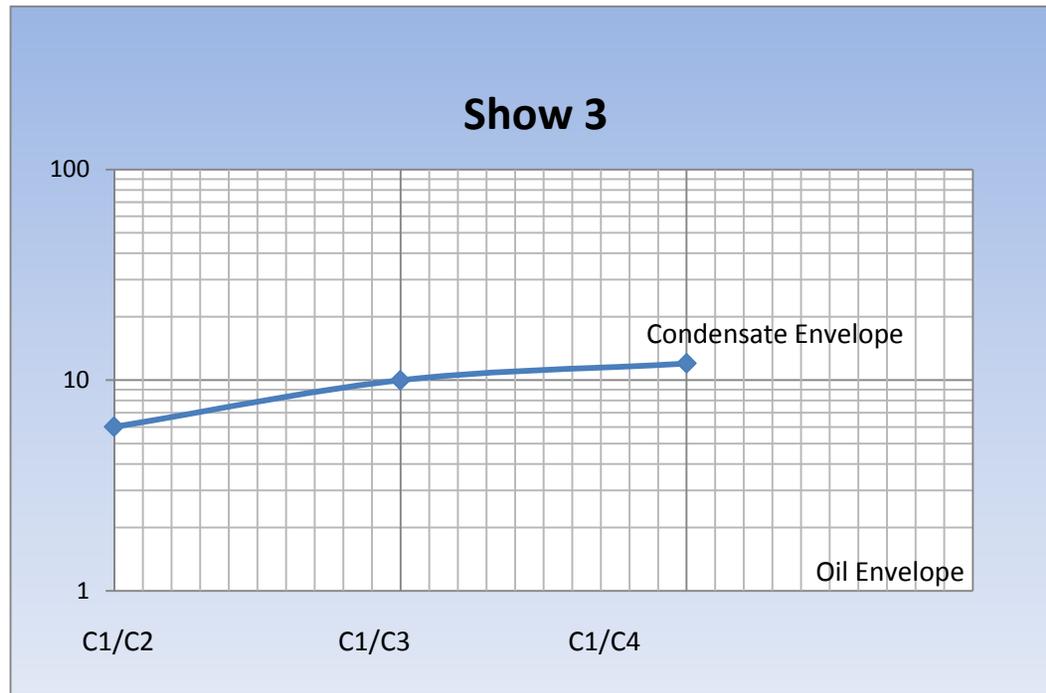


Figure 1.3 Show 3

Show 4 4841'-4854'

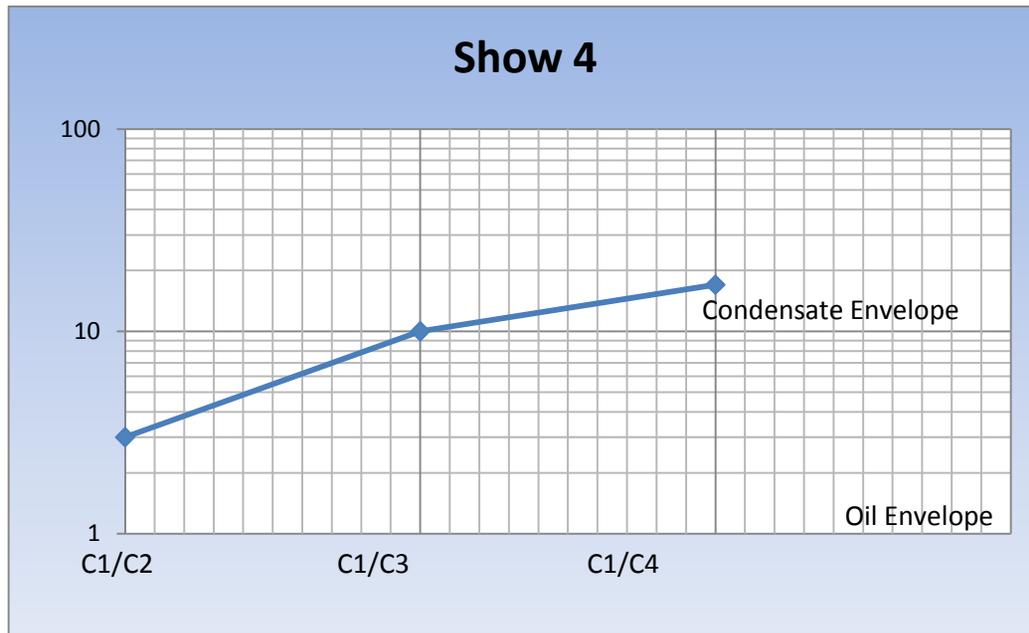


Figure 1.4 Show 4

Show 5 6054'-6065'

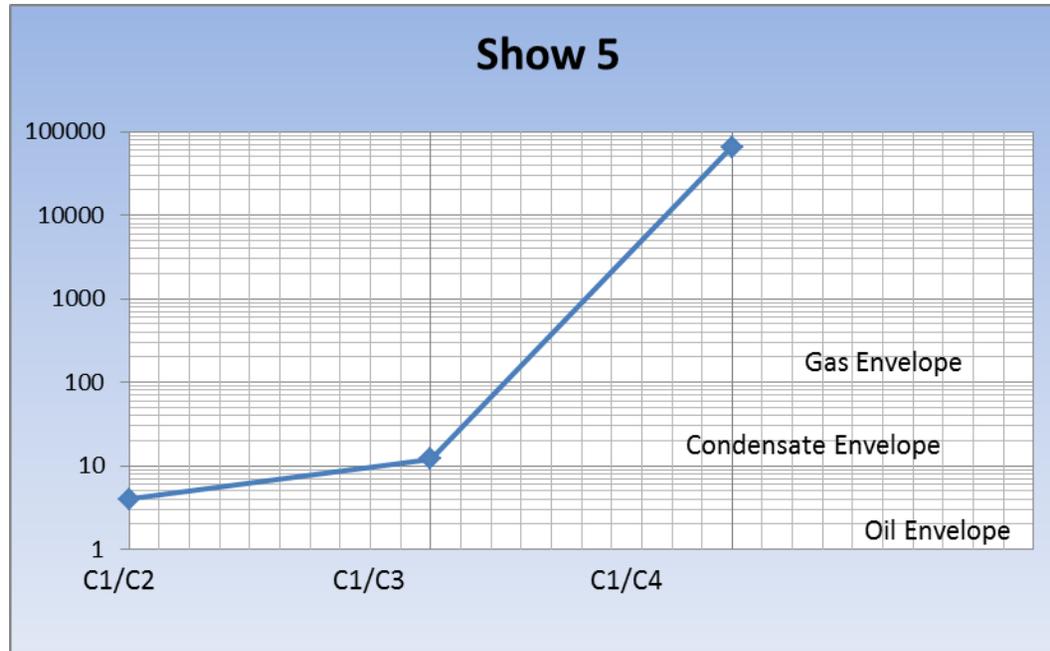


Figure 1.5 Show 5

Show 6 6160'-6170'

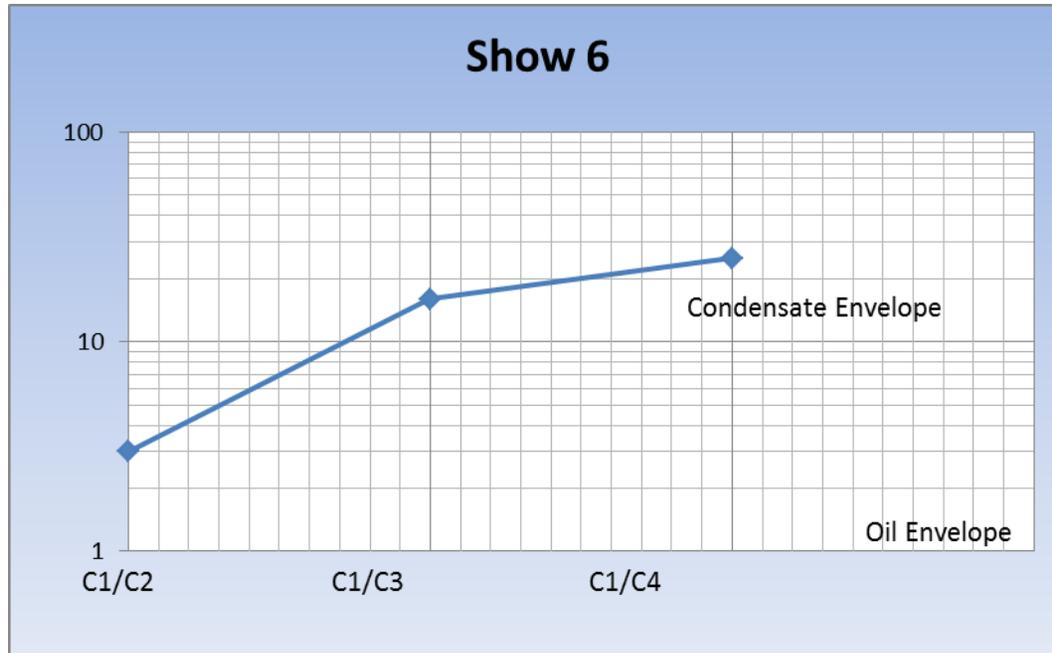


Figure 1.6 Show 6

Show 7 7377'-7399'

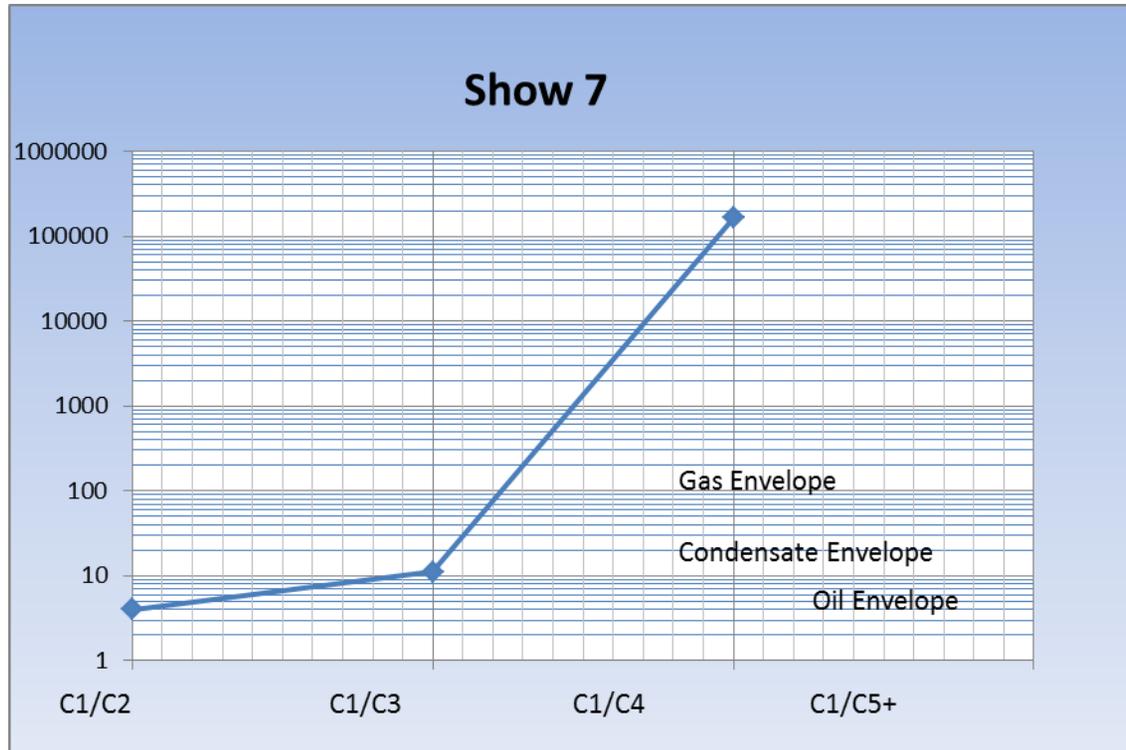


Figure 1.7 Show 7

Show 8 7750' -7757'

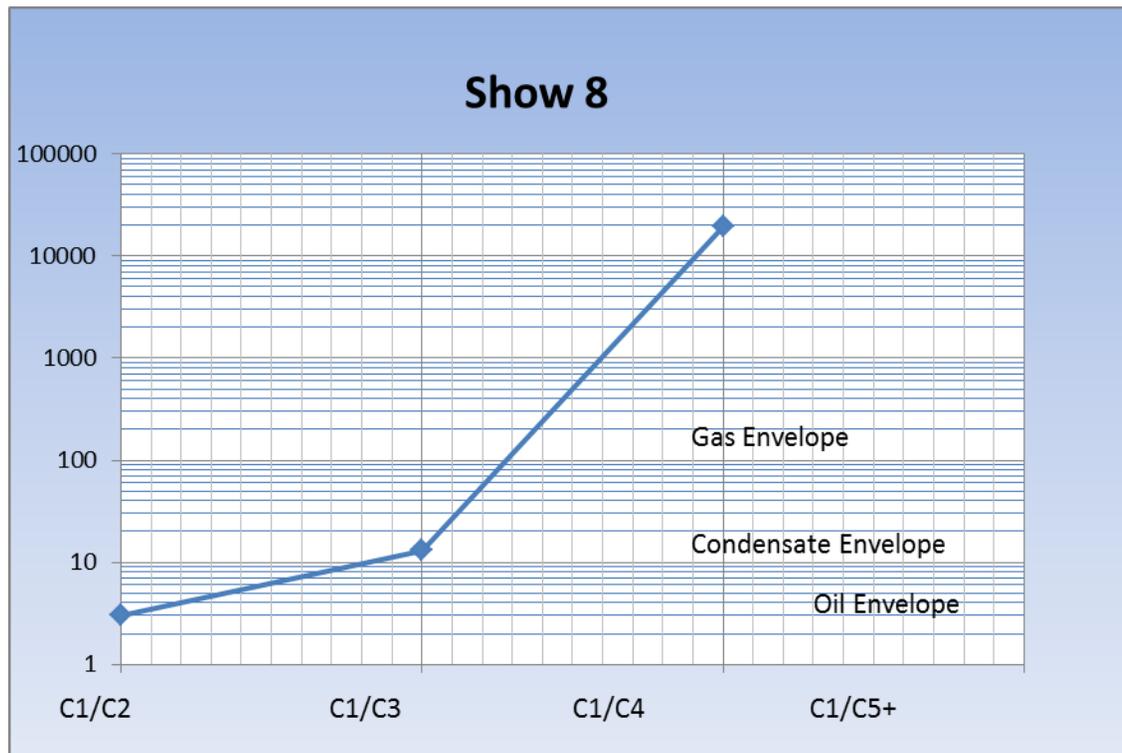


Figure 1.8 Show 8

Show 9 7805'-7811'

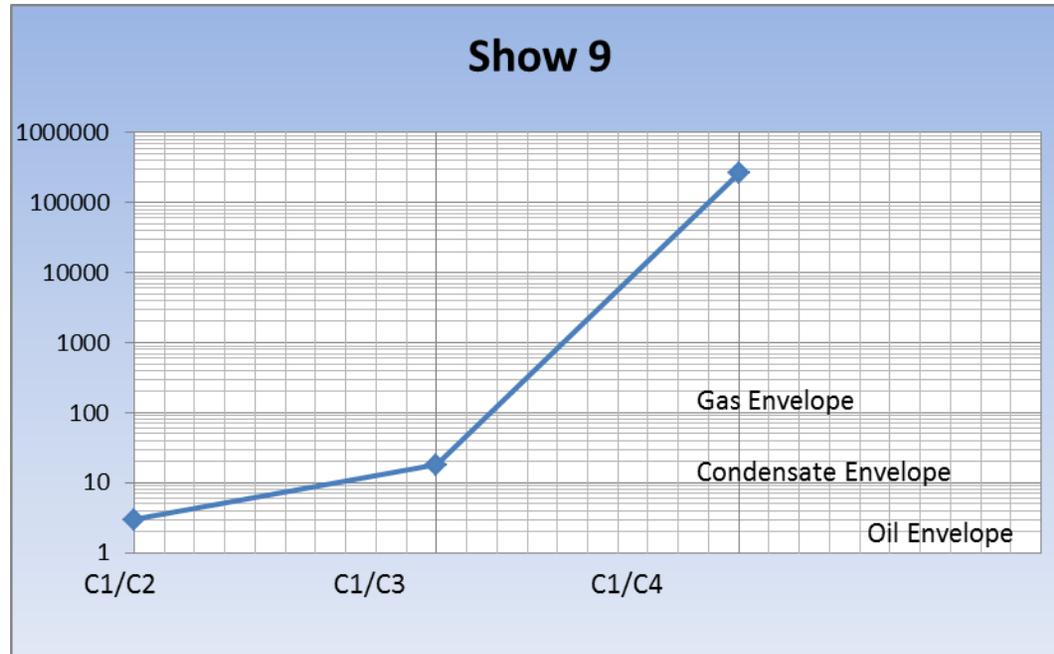


Figure 1.9 Show 9

Show 10 7897'-7902'

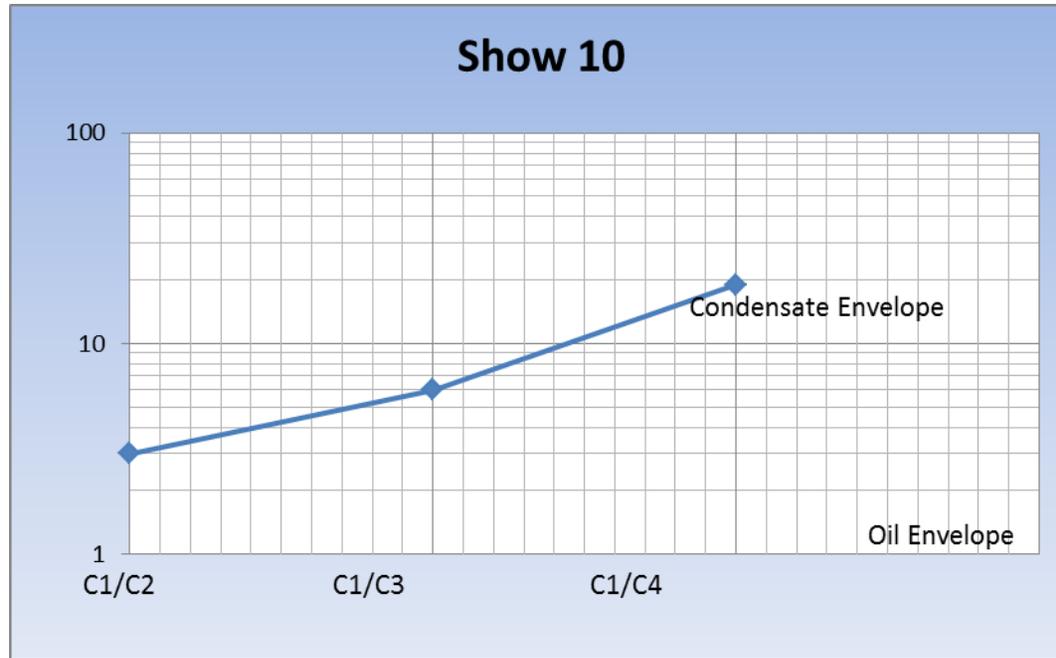


Figure 1.10 Show 10

Show 11 8129'-8134'

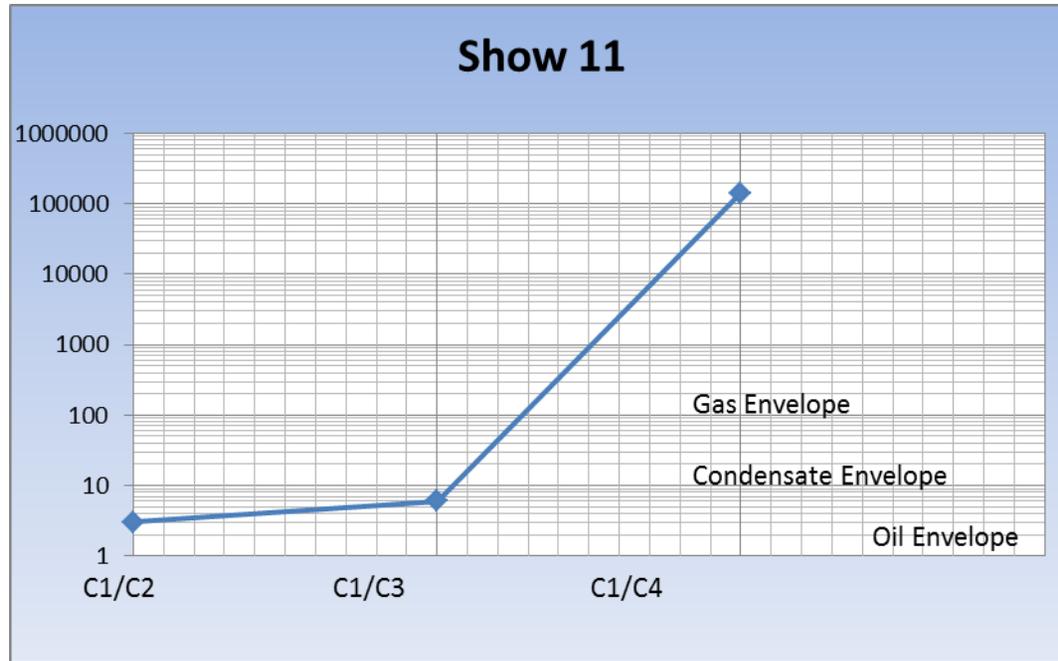


Figure 1.11 Show 11

Show 12 8221'-8228'

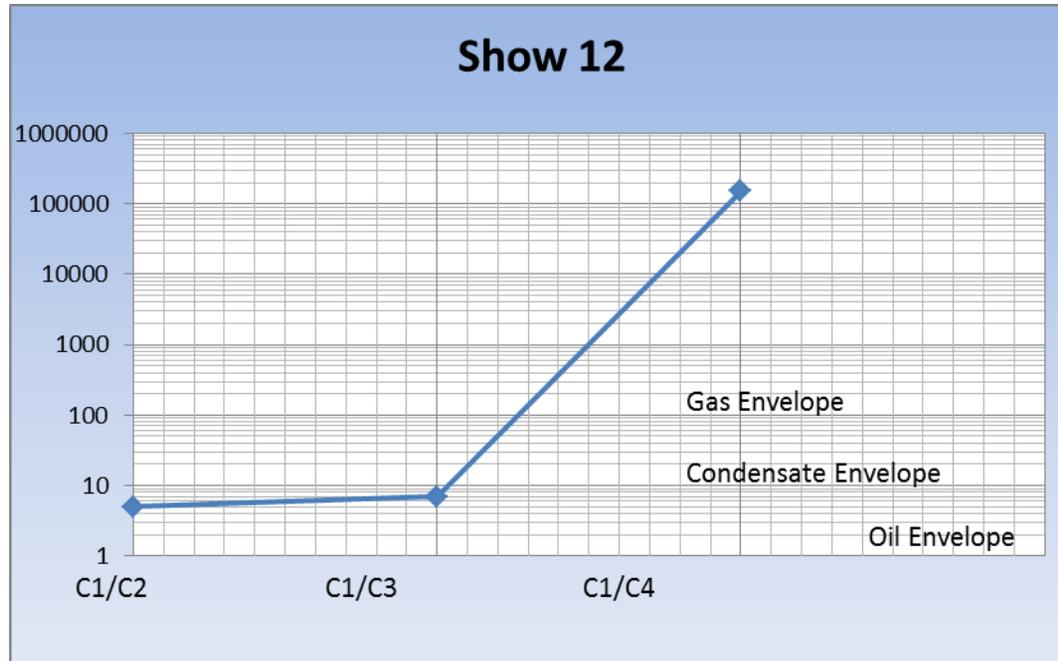


Figure 1.12 Show 12

Show 13 8342'-8359'

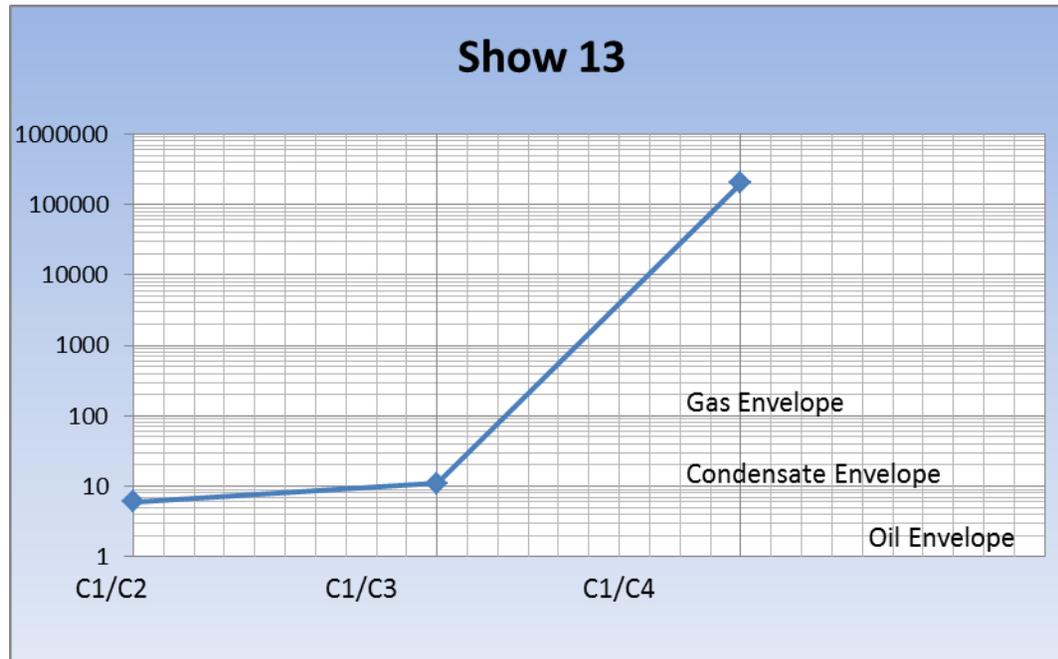


Figure 1.13 Show 13

Show 14 9624' -9630'

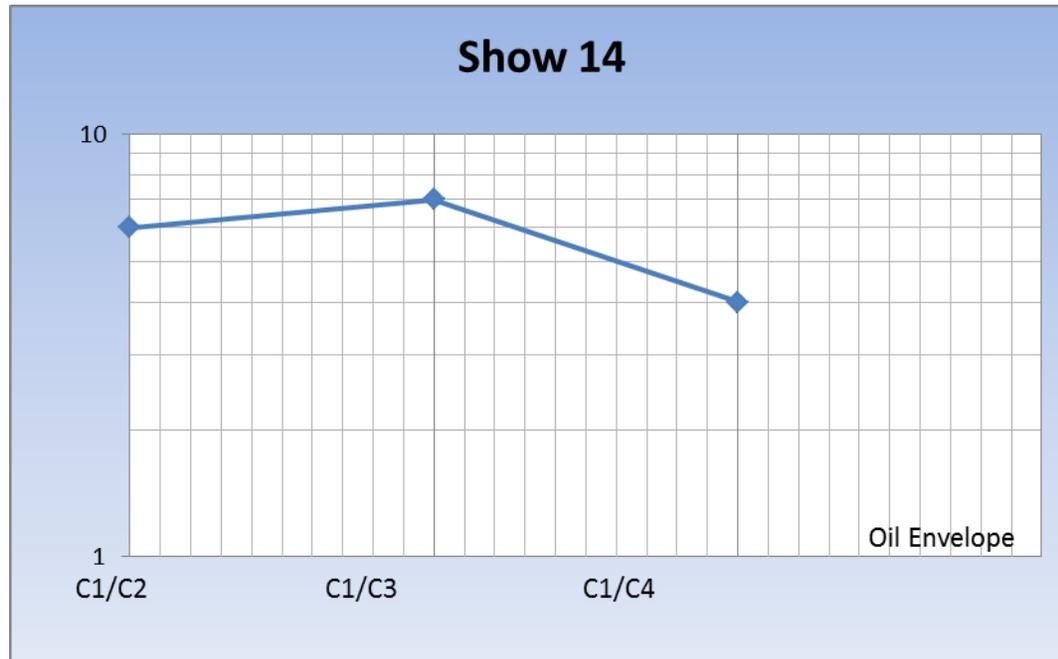


Figure 1.14 Show 14

Show 15 10052'-10060'

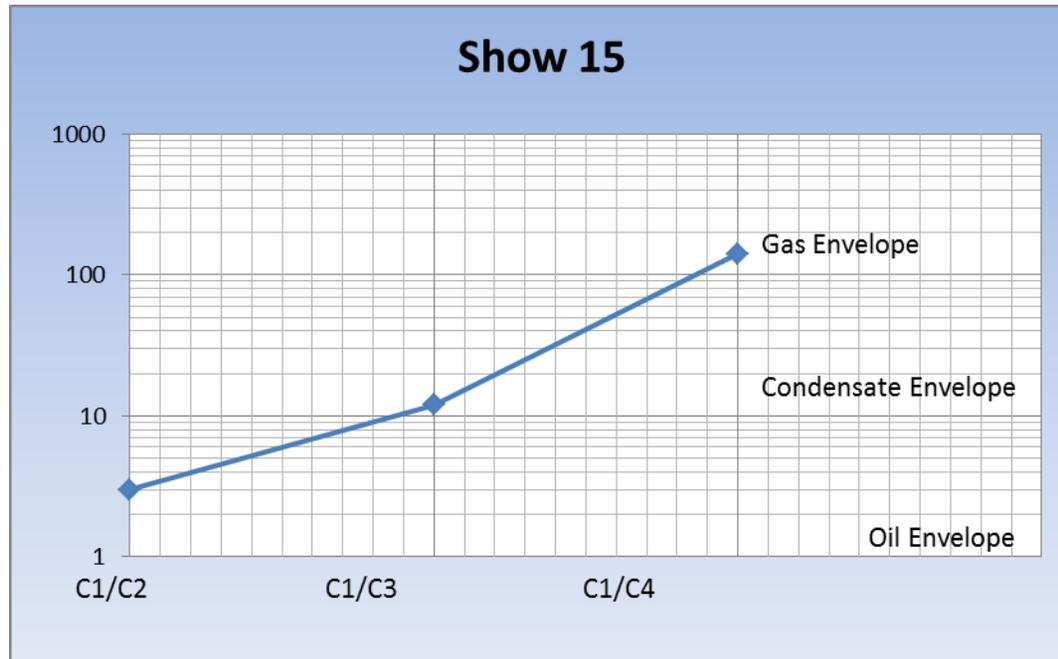


Figure 1.15 Show 15

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: O.N. MOON 1-27-3-2
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504030000
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 Township: 03.0S Range: 02.0W Meridian: U	9. 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 Approximate date work will start: 11/7/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input checked="" type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Severence Tax Holiday"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

Harvest (US) Holdings, Inc. respectfully requests a 12 month wildcat Severance Tax Exemption for the O.N. Moon #1-27-3-2 well in accordance with R649-3-35. The referenced well was drilled in 2010 and production was established on 11/7/2010 from the completed and commingled Lower Green River and Wasatch formations. An extended test of the well is currently in progress to evaluate the performance and production potential of the well. There are no other wells within a 1 mile radius of the referenced well. Attached please find a civil plat of the well site, a map reflecting that there are no other wells within a 1 mile radius and the previously approved completion report reflecting the producing and perforated intervals with frac data.

Approved by the Utah Division of Oil, Gas and Mining

Date: 03/15/2011

By: *Dark K. Quist*

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)
SIGNATURE N/A		DATE 3/6/2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013504030000

See Attached Statement of Basis.

DIVISION OF OIL, GAS AND MINING
Wildcat Well Determination
STATEMENT OF BASIS

Applicant: Harvest (US) Holdings, INC

Location: SWNE SEC 27 T030S R020W Duchesne county, Utah

WELL NAME: O.N. MOON 1-27-3-2 **API #:** 43-013-50403

FINDINGS

1. This well reported first production on November 6, 2010 in the Green River - Wasatch formations.
2. Subject well reached total depth on October 9, 2010.
3. The only other well within a 1 mile radius of subject well had the APD returned and was never spud. (Attachment A)
4. This well was > 1 mile from any known production in all formations at the time of the completion and the start of commercial production. (Attachment A)

CONCLUSIONS

Based on the findings above the Division has determined the O.N. Moon 1-27-3-2 well was drilled into an unknown area for the Green River - Wasatch formations. The Division finds that this well qualifies for the severance tax exemption under Section 59-5-102(5)(b) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

Reviewer(s): Dustin K. Doucet DKD

Date: 3/15/2011

Joshua J. Payne

Date: March 10, 2011

ATTACHMENT A

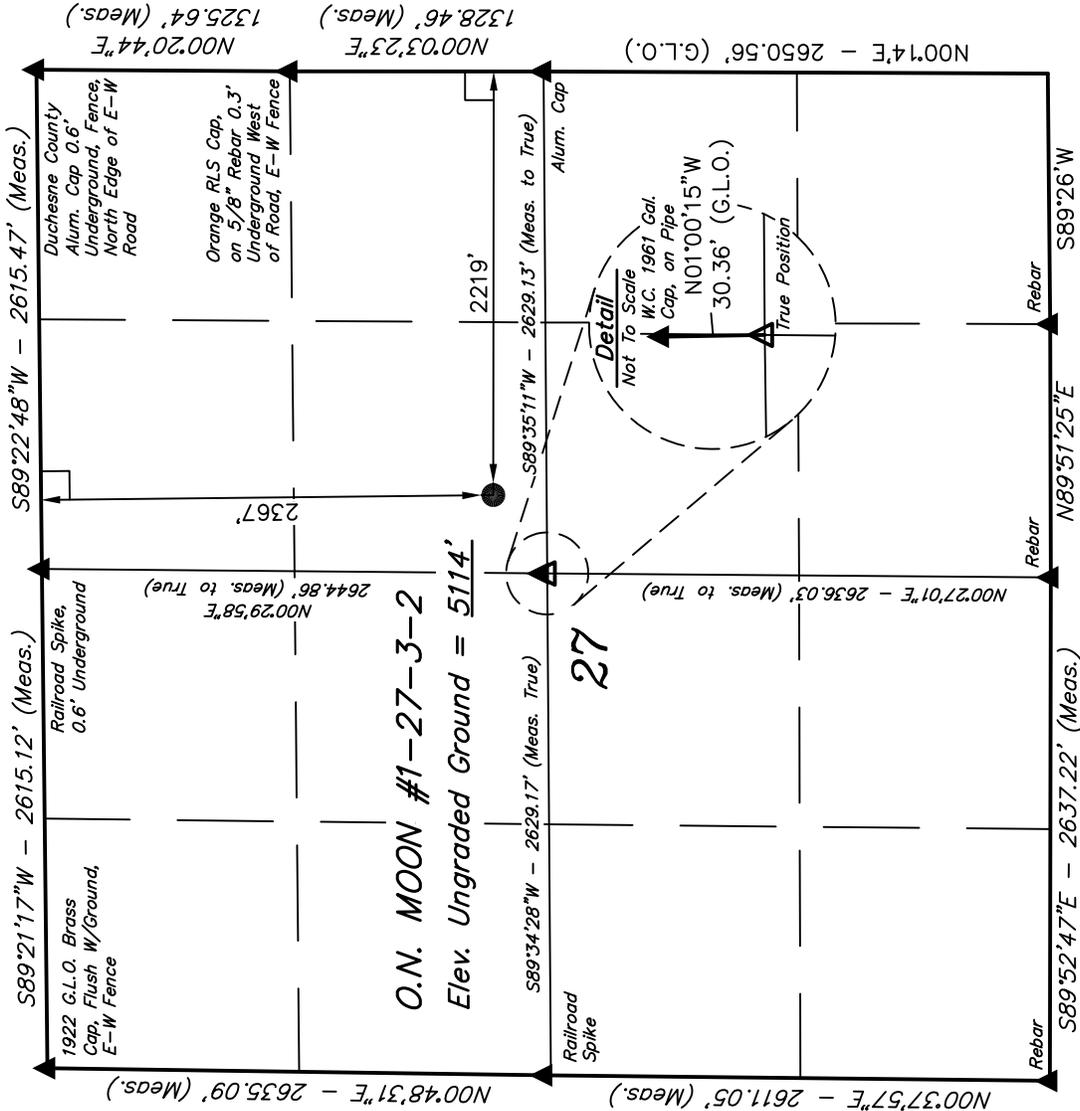
1 Mile Area of Review

API	WELL_NAME	Well Status	QTR	Sect	Town	Range	Cum Oil	Cum Gas	Field Type	Dx From Well(ft)	Rotar-Spud	Date TD Reached	Date First Produced	Producing Formation
4301350403	O.N. MOON 1-27-3-2	POW	SWNE	27	030S	020W	0	0	W	0	9/27/2010	10/9/2010	11/6/2010	GREEN RIVER - WASATCH
4301350395	HARDING #1-27-3-2	RET	SESW	27	030S	020W	0	0	W	780	NA	NA	NA	RETURNED APD

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

HARVEST (US) HOLDINGS, INC.

Well location, O.N. MOON #1-27-3-2, located as shown in the SW 1/4 NE 1/4 of Section 27, 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.

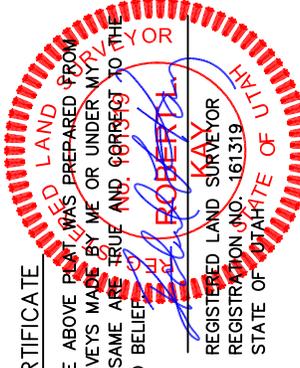
BASIS OF BEARINGS

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



S C A L E
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.



REVISED: 07-13-10

UTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

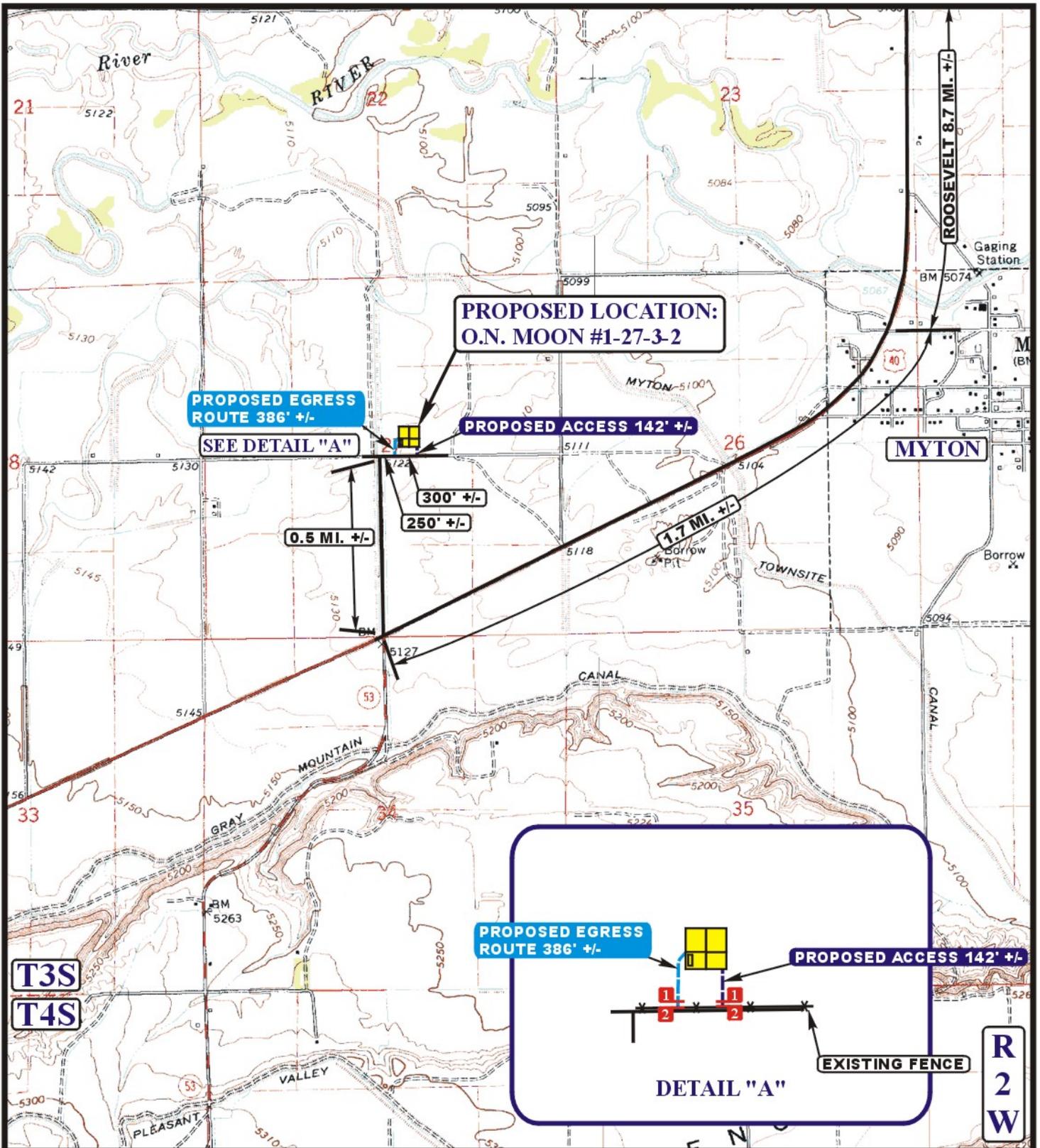
SCALE 1" = 1000'	DATE SURVEYED: 06-22-10	DATE DRAWN: 06-30-10
PARTY M.A. B.A. C.C.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE	HARVEST (US) HOLDINGS, INC.

LEGEND:

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

(NAD 83)
LATITUDE = 40°11'38.01" (40.193892)
LONGITUDE = 110°05'38.06" (110.093906)

(NAD 27)
LATITUDE = 40°11'38.16" (40.193933)
LONGITUDE = 110°05'35.52" (110.093200)



LEGEND:

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



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

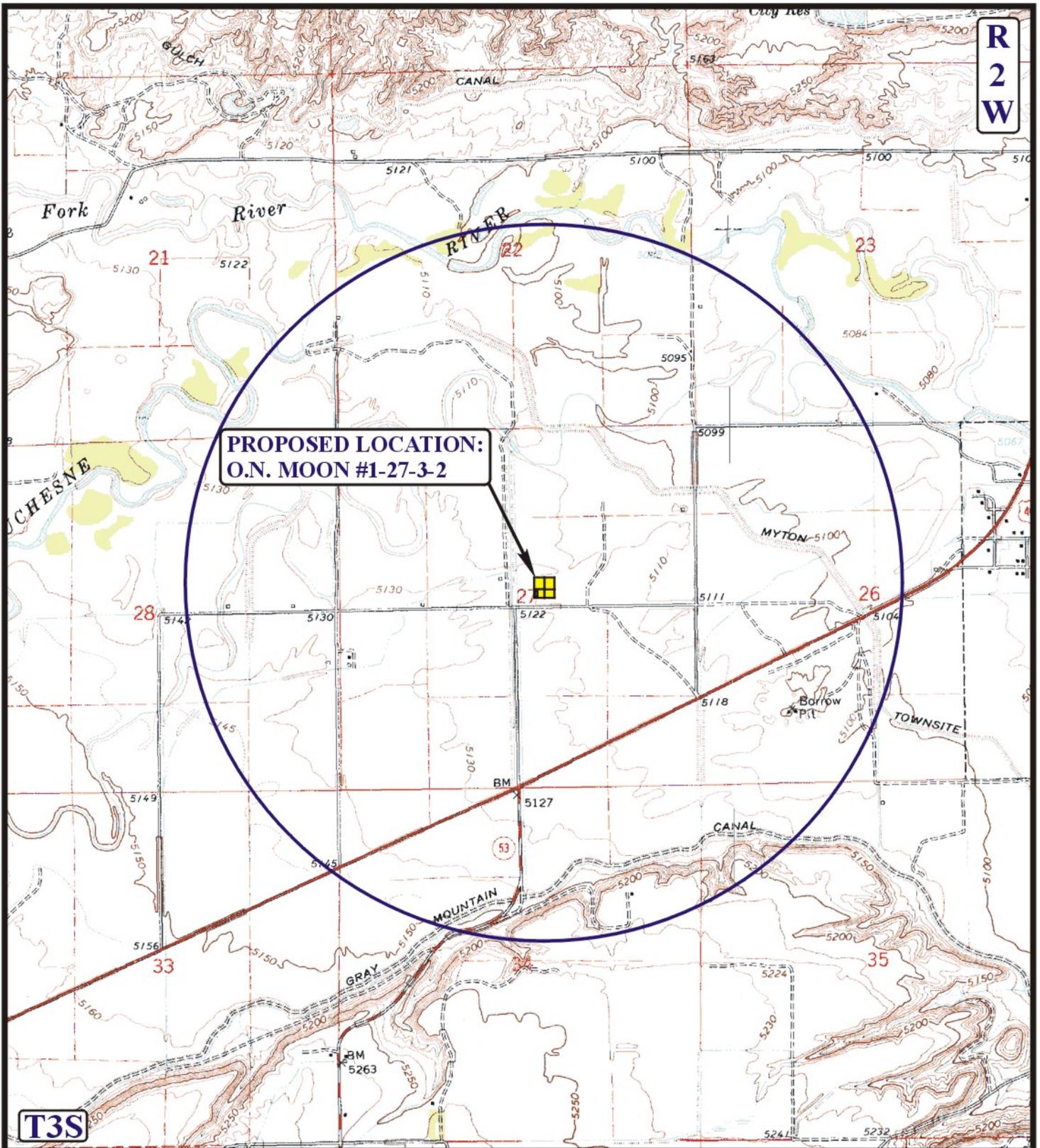


HARVEST (US) HOLDINGS, INC.

O.N. MOON #1-27-3-2
 SECTION 27, T3S, R2W, U.S.B.&M.
 2367' FNL 2219' FEL

TOPOGRAPHIC MAP
 06 28 10
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 07-15-10

B
 TOPO



R
2
W

**PROPOSED LOCATION:
O.N. MOON #1-27-3-2**

T3S

LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |

HARVEST (US) HOLDINGS, INC.

**O.N. MOON #1-27-3-2
SECTION 27, T3S, R2W, U.S.B.&M.
2367' FNL 2219' FEL**



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



**TOPOGRAPHIC
MAP**

06 28 10
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 07-15-10



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

5. LEASE DESIGNATION AND SERIAL NUMBER:
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
N/A

7. UNIT or CA AGREEMENT NAME:
N/A

8. WELL NAME and NUMBER:
O.N. Moon 1-27-3-2

9. API NUMBER:
4301350403

10. FIELD AND POOL, OR WILDCAT:
Wildcat

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWNE 27 3S 2W U

12. COUNTY: **Duchesne** 13. STATE: **UTAH**

14. DATE SPUDDED: **8/19/2010** 15. DATE T.D. REACHED: **10/9/2010** 16. DATE COMPLETED: **11/6/2010** ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): **5114'**

18. TOTAL DEPTH: MD **10,172** 19. PLUG BACK T.D.: MD **10,125** 20. IF MULTIPLE COMPLETIONS, HOW MANY? * **9** 21. DEPTH BRIDGE MD **10,023** TVD **10,073** PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Caliper, BCS, Sonic Scanner, LD, CN, HRLA, CBL

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	13-3/8 H40	48	0	532		Halcem 530	108	0-CIR	
12.25	9-5/8 J55	36	0	3,015		Econoc 940	381	0-CIR	
8.75	5-1/2 P11	23	0	7,842		G			
8.5	5-1/2 P11	23	7,842	10,171		G 2,13	569	4088-CBL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	7,648							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Green River	3,266	8,362	3,266	8,362	7,810 8,360	4	360	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Wasatch	8,362	10,172	8,362	10,172	8,392 10,056	4	416	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"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7810-8360	775,000 lbs 20/40 white sand
8392-10056	675,000 lbs 20/40 white sand

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
Testing

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/6/2010		TEST DATE: 10/9/2010		HOURS TESTED: 101		TEST PRODUCTION RATES: →		OIL – BBL: 2,143	GAS – MCF: 1,635	WATER – BBL: 7,771	PROD. METHOD: Flow
CHOKE SIZE: 20	TBG. PRESS.	CSG. PRESS. 1,000	API GRAVITY 42.30	BTU – GAS 1,261	GAS/OIL RATIO 746	24 HR PRODUCTION RATES: →		OIL – BBL: 913	GAS – MCF: 682	WATER – BBL: 1,470	INTERVAL STATUS: Testing

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

Flared

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Green River	7,810	8,360	laminated sands, oil/gas/water	Green River	3,266
Wasatch	8,392	10,056	laminated sands, oil/gas/water	Uteland Butte Wasatch	7,910 8,362

35. ADDITIONAL REMARKS (Include plugging procedure)

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 2/7/2011

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

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
4301350403	O.N. Moon 1-27-3-2		SWNE	27	03S	02W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>AE</i>	<i>17749</i>	17749	8/19/2010			<i>11/6/10</i>	
Comments: The well was spud utilizing Craigs Rig #3 at 700 hrs. Conductor was set at 87' The referenced well was completed as <u>GR-WS</u> effective 11/06/2010.							

CONFIDENTIAL
3/10/11

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 _____ 8/21/2010
 Title _____ Date _____

(5/2000)

RECEIVED
FEB 17 2011

DIV. OF OIL, GAS & MINING

CONFIDENTIAL



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

May 12, 2011

T03S R02W S-27
API # 4301350403

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

RE: Exception to Spacing Request – Harvest (US) Holdings, Inc. – **O.N. Moon 1-27-3-2**
As-Drilled Surface: 2367' FNL & 2219' FEL, SW/4 NE/4,
As-Drilled Bottom Hole: 2594' FSL & 2234' FEL, NW/4 SE/4,
Section 27, T3S, R2W, USB&M, Duchesne County, Utah

Dear Helen:

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. The referenced well is located with the as-drilled surface and bottom hole locations described above. Drilling of the well resulted in the unintended deviation of 324 feet into the NW/4 SE/4 of Section 27, T3S, R2W, USB&M. Harvest (US) Holdings, Inc. remains the only owner and operator within 460 feet of the surface and bottom-hole location as well as all points along the intended well bore path and is not within 460 feet of any uncommitted tracts or the 640 acre voluntary pooled unit boundary. Mineral ownership did change but is within the pooled unit that has been signed off by all entities and we feel that correlative rights have been protected, as originally planned.

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,

A handwritten signature in cursive script that reads 'Don Hamilton'.

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

cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.

RECEIVED
MAY 12 2011
DIV. OF OIL, GAS & MINING

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 GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

5. LEASE DESIGNATION AND SERIAL NUMBER:
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT or CA AGREEMENT NAME
N/A

8. WELL NAME and NUMBER:
O.N. Moon 1-27-3-2

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

9. API NUMBER:
4301350403

3. ADDRESS OF OPERATOR:
1177 Enclave Parkway CITY Houston STATE TX ZIP 77077

PHONE NUMBER:
(281) 899-5722

10 FIELD AND POOL, OR WILDCAT
Wildcat

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2367 FNL 2219 FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 2367 FNL 2219 FEL

AT TOTAL DEPTH: ~~2367 FNL 2219 FEL~~ 2590 FSL 2234 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWNE 27 3S 2W U

12. COUNTY
Duchesne

13. STATE
UTAH

14. DATE SPURRED: 8/19/2010

15. DATE T.D. REACHED: 10/9/2010

16. DATE COMPLETED: 11/6/2010

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5114'

18. TOTAL DEPTH: MD 10,172
TVD 10,023.4

19. PLUG BACK T.D.: MD 10,125
TVD 9973

20. IF MULTIPLE COMPLETIONS, HOW MANY? *
9

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Caliper, BCS, Sonic Scanner, LD, CN, HRLA, CBL

23.
WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	13-3/8 H40	48	0	532		Halcem 530	108	0-CIR	
12.25	9-5/8 J55	36	0	3,015		Econoc 940	381	0-CIR	
8.75	5-1/2 P110	23	0	7,842		G			
8.5	5-1/2 P110	23	7,842	10,171		G 2,130	569	4088-CBL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	7,648							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	3,266	8,362	3,266	8,362
(B) Wasatch	8,362	10,172	8,362	10,172
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,810 8,360	4	360	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
8,392 10,056	4	416	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7810-8360	775,000 lbs 20/40 white sand
8392-10056	675,000 lbs 20/40 white sand

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
Producing Testing

RECEIVED

FEB 28 2011

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/6/2010		TEST DATE: 10/9/2010		HOURS TESTED: 101		TEST PRODUCTION RATES: →		OIL – BBL: 2,143	GAS – MCF: 1,635	WATER – BBL: 7,771	PROD. METHOD: Flow
CHOKE SIZE: 20	TBG. PRESS.	CSG. PRESS. 1,000	API GRAVITY 42.30	BTU – GAS 1,261	GAS/OIL RATIO 746	24 HR PRODUCTION RATES: →		OIL – BBL: 913	GAS – MCF: 682	WATER – BBL: 1,470	INTERVAL STATUS: Testing

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

Flared

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Green River	7,810	8,360	laminated sands, oil/gas/water	Green River	3,266
Wasatch	8,392	10,056	laminated sands, oil/gas/water	Uteland Butte Wasatch	7,910 8,362

35. ADDITIONAL REMARKS (Include plugging procedure)

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 2/7/2011

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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

API Well No: 43013504030000

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Fee																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:																														
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: O.N. MOON 1-27-3-2																															
2. NAME OF OPERATOR: HARVEST (US) HOLDINGS, INC	9. API NUMBER: 43013504030000																															
3. ADDRESS OF OPERATOR: 1177 Enclave Parkway , Houston, TX, 77077	PHONE NUMBER: 281 899-5722 Ext	9. FIELD and POOL or WILDCAT: WILDCAT																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 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 <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/17/2010 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input checked="" type="checkbox"/> OTHER</td> <td>OTHER: <input type="text" value="Directional Survey"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<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="Directional Survey"/>
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Directional Survey"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Harvest (US) Holdings, Inc. respectfully submits the attached directional survey for your files. The well was planned vertical but ran directional tools to keep it vertical as much as possible. The final MD was extrapolated to the final TD.																																
NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent (Buys & Associates, Inc)																														
SIGNATURE N/A	DATE 3/7/2011																															

Survey Station

CONFIDENTIAL

General					Location/Elevation				
Report Date	17-Oct-2010				Coordinate System	NAD_1927_StatePlane_Utah_Cent			
Field	Wildcat				Elevation Reference	ral_FIPS_4302			
Well	Moon #1-27-3-2				Ground Elevation	ft 5,114.40			
Borehole	Main Borehole				Lat/Long Datum	ft			
UWI/API#	API #43-013-50403				Latitude	40			
Job Name	Drilling from Surface to TPD				Longitude	110			
Structure					UTM Northing	ft			
Slot					UTM Easting	ft			
					Vertical Section Azimuth	deg			
Measured Depth ft	Inclination deg	Azimuth deg	TVD ft	NS ft	EW ft	DLS deg/100ft	Build Rate deg/100ft	ToolType	Tie In?
2,950.00	0.25	123.18	2,949.99	-3.52	5.39				N
4,650.00	2.60	190.60	4,649.38	-43.46	1.40				N
4,744.00	2.10	187.30	4,743.30	-47.26	0.79				N
4,839.00	2.40	189.30	4,838.23	-50.95	0.24				N
4,933.00	1.90	200.30	4,932.16	-54.36	-0.62				N
5,028.00	2.30	211.30	5,027.10	-57.46	-2.15				N
5,126.00	2.40	205.30	5,125.02	-61.00	-4.05				N
5,216.00	2.50	197.80	5,214.93	-64.57	-5.46				N
5,310.00	1.80	199.50	5,308.87	-67.91	-6.58				N
5,410.00	1.80	196.10	5,408.82	-70.90	-7.54				N
5,505.00	2.30	195.80	5,503.76	-74.17	-8.47				N
5,593.00	2.60	192.10	5,591.68	-77.82	-9.37				N
5,687.00	2.30	192.50	5,685.59	-81.75	-10.22				N
5,781.00	1.30	197.60	5,779.54	-84.61	-10.95				N
5,875.00	0.70	211.60	5,873.53	-86.11	-11.58				N
5,970.00	1.00	191.00	5,968.52	-87.42	-12.04				N
6,065.00	1.60	171.50	6,063.49	-89.54	-12.00				N
6,157.00	1.90	178.00	6,155.45	-92.34	-11.76				N
6,252.00	2.40	178.40	6,250.38	-95.90	-11.65				N
6,347.00	1.80	178.10	6,345.32	-99.38	-11.54				N
6,440.00	1.70	181.70	6,438.28	-102.22	-11.53				N
6,535.00	1.30	155.30	6,533.24	-104.61	-11.13				N
6,619.00	1.60	134.90	6,617.22	-106.30	-9.90				N
6,723.00	1.20	93.90	6,721.19	-107.40	-7.78				N
6,818.00	1.20	121.30	6,816.17	-107.98	-5.94				N
6,912.00	2.00	144.80	6,910.13	-109.84	-4.15				N
7,007.00	2.70	151.80	7,005.05	-113.16	-2.14				N
7,101.00	2.60	144.20	7,098.95	-116.84	0.15				N
7,195.00	3.00	152.90	7,192.84	-120.76	2.52				N
7,289.00	2.90	150.80	7,286.71	-125.03	4.80				N
7,384.00	3.20	128.50	7,381.58	-128.78	8.05				N
7,478.00	3.60	125.90	7,475.42	-132.14	12.49				N
7,572.00	3.40	100.70	7,569.25	-134.39	17.62				N
7,667.00	2.40	97.40	7,664.13	-135.17	22.36				N
7,761.00	1.60	229.10	7,758.10	-136.28	23.32				N
7,869.00	2.10	244.00	7,866.04	-138.13	20.41				N
7,963.00	2.10	244.70	7,959.98	-139.63	17.30				N
8,057.00	2.20	246.50	8,053.91	-141.08	14.09				N
8,151.00	2.00	232.40	8,147.85	-142.80	11.13				N
8,246.00	1.80	233.40	8,242.80	-144.70	8.62				N
8,340.00	1.90	236.50	8,336.75	-146.44	6.14				N
8,435.00	1.60	225.40	8,431.70	-148.24	3.88				N
8,582.00	1.80	220.80	8,578.64	-151.43	0.91				N
8,622.00	2.00	224.90	8,618.62	-152.40	0.01				N
8,717.00	1.90	225.60	8,713.56	-154.68	-2.29				N

8,811.00	1.80	217.70	8,807.51	-156.94	-4.30				N
8,906.00	2.10	213.80	8,902.46	-159.56	-6.18				N
8,999.00	216.90	8,995.22	8,923.96	-227.28	-2.99				N
9,848.00	2.00	209.80	9,699.79	-314.64	-11.61				N
9,942.00	1.90	210.40	9,793.74	-317.41	-13.21				N
10,050.00	2.10	197.20	9,901.67	-320.85	-14.70				N
10,120.00	2.20	196.40	9,971.62	-323.36	-15.46				N

52
10024

CONFIDENTIAL



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

May 12, 2011

T03S R02W S-27
API # 4301350403

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

RE: Exception to Spacing Request – Harvest (US) Holdings, Inc. – **O.N. Moon 1-27-3-2**
As-Drilled Surface: 2367' FNL & 2219' FEL, SW/4 NE/4,
As-Drilled Bottom Hole: 2594' FSL & 2234' FEL, NW/4 SE/4,
Section 27, T3S, R2W, USB&M, Duchesne County, Utah

Dear Helen:

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. The referenced well is located with the as-drilled surface and bottom hole locations described above. Drilling of the well resulted in the unintended deviation of 324 feet into the NW/4 SE/4 of Section 27, T3S, R2W, USB&M. Harvest (US) Holdings, Inc. remains the only owner and operator within 460 feet of the surface and bottom-hole location as well as all points along the intended well bore path and is not within 460 feet of any uncommitted tracts or the 640 acre voluntary pooled unit boundary. Mineral ownership did change but is within the pooled unit that has been signed off by all entities and we feel that correlative rights have been protected, as originally planned.

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,

A handwritten signature in cursive script that reads 'Don Hamilton'.

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

cc: Gil S. Porter, CPL, Harvest (US) Holdings, Inc.

RECEIVED
MAY 12 2011
DIV. OF OIL, GAS & MINING

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
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA n/a
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2011
- Bond information entered in RBDMS on: 6/30/2011
- Fee/State wells attached to bond in RBDMS on: 6/30/2011
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: WY000483
- 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
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 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: O.N. MOON 1-27-3-2
3. ADDRESS OF OPERATOR: 1001 17TH ST, SUITE 2000 CITY DENVER STATE CO ZIP 80202 PHONE NUMBER: (303) 893-0102		9. API NUMBER: 4301350403
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL & 2219 FEL COUNTY: DUCHESNE QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 27 3S 2W STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: WILDCAT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>5/17/2011</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Effective 05/17/2011, Newfield Production Company will take over operations of the referenced well.

The previous owner/operator was:

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

Effective 05/17/2011, Newfield Production Company is responsible under the terms and conditions of the leases for operations conducted on the leases lands or a portion thereof under BEM Bond No. RLB0016466 B001834

Harvest (US) Holdings, Inc.
Print Name: Patrick R. Oenbring N3520 Title: President and CEO

Seller Signature: Patrick R. Oenbring Date: 05/17/2011

NAME (PLEASE PRINT) KELLY DONOHOUE TITLE RM LAND MANAGER
SIGNATURE Kelly Donohoue DATE 5/17/2011

(This space for State use only)

APPROVED 6/30/2011
(5/2000) Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUN 22 2011
DIV. OF OIL, GAS & MINING

T03S RO24 5-27 43-013-50403

From: "Kyle Wray" <kwray@harvestnr.com>
To: <randythackeray@utah.gov>
Date: 07/25/2011 8:48 AM
Subject: Harvest Production Date inquiry

CONFIDENTIAL

Mr. Thackeray,

It appears that there was a typo on the completion for the O.N. Moon 1-27-3-2. The Date of First Production should be the 6th of November, 2010.

Please call me if Harvest can be of more assistance or is required in the transition of any data/information.

Kyle Wray

Sr. Operations Engineer

Harvest Natural Resources, Inc

1177 Enclave Pkwy, Suite 300

Houston, TX 77077

281-899-5700 (O)

281-899-5704 (F)

RECEIVED

JUL 26 2011

DIV. OF OIL, GAS & MINING

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

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		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: O.N. MOON 1-27-3-2
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202		9. API NUMBER: 43013504030000
PHONE NUMBER: 303 382-4443 Ext		9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 2219 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 27 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
February 14, 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

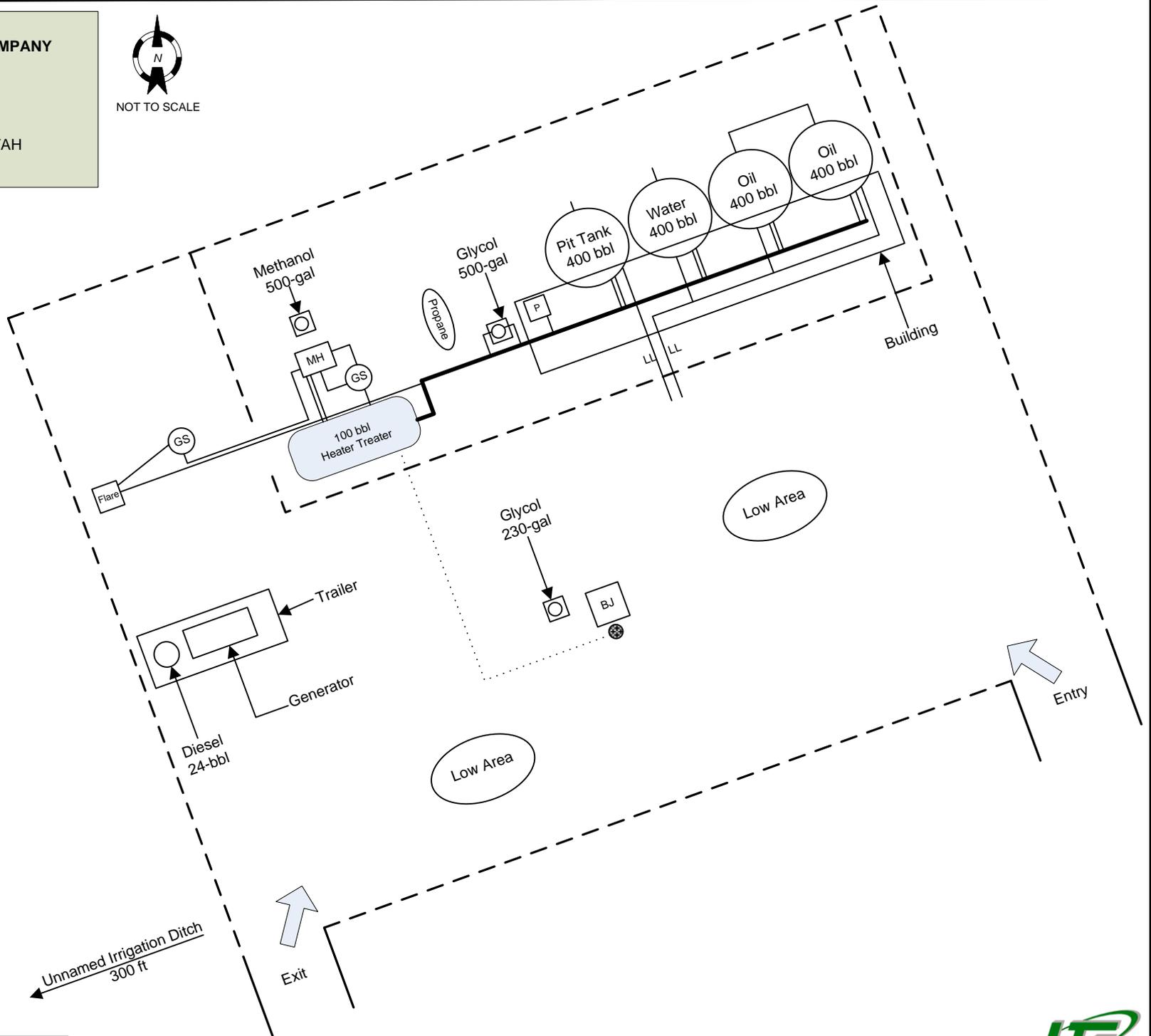
O.N. MOON 1-27-3-2
 SEC.27 T3S R2W
 DUCHESNE COUNTY, UTAH



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
- (GS) GAS SCRUBBER



ALL UNDERGROUND PIPING IS FOR
 PROCESS FLOW DEMONSTRATION ONLY

