

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. <u>30-015-40825</u> 30-025-41024
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP.		6. State Oil & Gas Lease No.
3. Address of Operator 333 WEST SHERIDAN AVENUE, OKC, OK 73102		7. Lease Name or Unit Agreement Name Harroun Trust 31-30
4. Well Location Unit Letter : <u>330</u> feet from the <u>South</u> line and <u>1355</u> feet from the <u>West</u> line Section <u>31</u> Township <u>23S</u> Range <u>29E</u> NMPM <u>Eddy, County New Mexico</u>		8. Well Number <u>3H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2957'		9. OGRID Number 6137
		10. Pool name or Wildcat Harroun Ranch; Delaware

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: TA ☒

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., LP respectfully requests to temporarily abandon the subject well per the attached TA procedures.

Attached: Procedures, Current Wellbore, & Proposed Wellbore

PKR set @ 5800'

TA status may be granted after a
successful MIT test is performed.
Contact the OCD to schedule the test
so it may be witnessed.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Erin Workman TITLE Regulatory Compliance Analyst DATE 08.24.18

Type or print name Erin Workman E-mail address: Erin.workman@dmr.com PHONE: (405)552-7970

For State Use Only

APPROVED BY: [Signature] TITLE Staff Mgr DATE 8-24-18
Conditions of Approval (if any):

Harroun Trust 31 3H ESP Pull and Temporary Abandonement

Summary: TOO H grounded ESP; provide to Schlumberger for evaluation; TIH packer; Circulate packer fluid to pickle well; perform MIT; Cut wellhead and cap for future drilling activity

****Rig anchors on location have been tested SATISFACTORY****

WBS MM-129931.##.WWO is approved for \$.

This WBS to be used for ESP pull and MIT only

Potato Basin Workover Team,

The Harroun Trust 31 3H ESP is grounded. The ESP had been downhole since May, 2014. Additionally, we will need to remove the existing wellhead and install a well cap at least 6" below ground level to prepare for future drilling operations (Spud Muffin). This will include setting a packer filling the wellbore with corrosion inhibition fluid. Anticipated work includes:

- 1) TOO H existing tubing string and ESP.
- 2) Lay down ESP and send to Schlumberger for evaluation.
- 3) Install packer and circulate corrosion inhibited fluid above packer.
- 4) Perform 500 psig MIT (well is to be TA'd per regulation)
- 5) Coordinate with construction and cut wellhead minimum 6" below surface; install well cap.

Note the following in WellView (Daily Report) and highlight for engineering:

- 1) Depth of paraffin, corrosion, scale, or wear on the tubing while POOH
 - a. Provide samples of encountered material to Aegis and Schlumberger with any associated failed components for analysis.
- 2) Complete all data under PIC responsibility in the Wellview Failure Report.

****H2S: No history of H2S on the Harroun Trust 31 3H; however, all normal H2S monitoring precautions are still required****

Harroun Trust 31 3H Pre-Pull Notes:

- Delaware ~6,600' MD lateral with 15 perforated intervals; 1st perf @ 6,509' MD
 - 5 ½", 17# P-110RY production casing set from 13,221' to surface (ID = 4.892"; Drift: 4.767")
 - Schlumberger 400 Series mixed flow ESP
 - 177 joints of 2 7/8" L-80 tubing currently in hole
 - Tubing drain at 5,543' MD.
1. Hold tailgate safety meetings prior to R.U., each morning and before each operational change or event. Clearly identify the PIC.
 2. Bleed down casing pressure and top kill well as needed with KCL brine.

3. This ESP is being pulled due to a ground and to prepare for future drilling operations on the pad. ND wellhead. NU BOP, ESP cable spooler, and other required services.
 - a. Test 5,000 psig BOP with 1 set of blind rams on bottom and 1 set of 2 7/8" tubing rams on top to Devon specifications. Ensure 2 7/8" TIW available on location for well control.
4. TOOH tubing and ESP as per Wellview and below. Lay down ESP.

Tubing String - Currently in Hole														
Run Date 5/20/2014			Tubing Description TUBING - PRODUCTION					Run Job DRILLING/COMPLETIONS - DRILLING - 2/24/2014 10:00				Set Depth / EOT (ftKB) 6.097.2		
Wellbore OH		String		Comment										
Jts	Item Des	Type	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Make	Model	Cond Run	Top (ftKB)	Btm (ftKB)	Btm Incl ('')	Cum Len (ft)
175	Tubing	Tubing	2 7/8	2.441	6.50	L-60	5,537.85		T&C Upset		4.6	5,542.4	10.13	6,092.61
1	Tubing Drain	Other	2 7/8	1.750			0.60				5,542.4	5,543.0	10.13	554.76
2	Tubing	Tubing	2 7/8	2.441	6.50	L-60	65.08		T&C Upset		5,543.0	5,608.1	10.11	554.16
1	Tubing	Tubing	2 7/8	2.441	6.50	L-60	4.15		T&C Upset		5,609.1	5,612.3	10.10	489.10
	ESP PUMP - SCHLUMBERGER D3500N 400 SERIES (78 STAGES) MIXED FLOW COMPRESSION	ESP Pump	4				19.00	SCHLUMBERGER	D3500N	NEW	5,612.3	5,631.3	10.10	484.95
	ESP PUMP - SCHLUMBERGER D3500N 400 SERIES (78 STAGES) MIXED FLOW COMPRESSION	ESP Pump	4				19.00	SCHLUMBERGER	D3500N	NEW	5,631.3	5,650.3	10.10	485.95
	ESP PUMP - SCHLUMBERGER D3500N 400 SERIES (78 STAGES) MIXED FLOW COMPRESSION	ESP Pump	4				19.00	SCHLUMBERGER	D3500N	NEW	5,650.3	5,669.3	10.10	446.95
	ESP GAS SEP - SCHLUMBERGER 400 SERIES BOLT-ON INTAKE SINGLE INTAKE		4				3.30	SCHLUMBERGER		NEW	5,669.3	5,672.6	10.09	427.65
	ESP SEAL - SCHLUMBERGER 400 MAX SERIES BAGSLABS		4				5.90	SCHLUMBERGER		NEW	5,672.6	5,678.5	10.09	424.65
	ESP SEAL - SCHLUMBERGER 400 SERIES BAGSLABS		4				7.40	SCHLUMBERGER		NEW	5,678.5	5,685.9	10.09	418.75
	ESP MOTOR - SCHLUMBERGER 456 SERIES TANDEM	ESP Motor & Cable	4.56				30.70	SCHLUMBERGER		NEW	5,685.9	5,716.6	10.09	411.35
	ESP MOTOR - SCHLUMBERGER 456 SERIES TANDEM	ESP Motor & Cable	4.56				31.50	SCHLUMBERGER		NEW	5,716.6	5,748.1	10.15	380.65
	ESP SENSOR - SCHLUMBERGER		3 3/4				22.43	SCHLUMBERGER		NEW	5,746.1	5,770.5	10.21	349.15
1	Tubing Desander-CAVING	Other	5	1.500			4.47				5,770.5	5,775.0	10.22	326.72
10	Tubing	Tubing	2 7/8	2.441	6.50	L-60	321.75		T&C Upset		5,775.0	6,096.7	31.03	322.25
1	Ball Plug	Other	2 7/8	0.000			0.50				6,096.7	6,097.2	31.09	0.50

NORM Check required for equipment leaving location & downhole parts left on surface

5. TIH with AS1-X packer with solid stinger.

- a. Set packer at 5,600'.
- b. Sting off packer; circulate Aegis packer fluid above packer.
- c. TOOH tubing. Fill wellbore with corrosion inhibited, biocide included packer fluid (up to 150 bbls). Aegis recommendation below:

1 drum of corrosion inhibited packer fluid (approximately 10000 ppm at 150 bbls of fluid) and 10g of Biocide

Cost Data:

Product	Description	\$/Gal*	Rec Gals	\$/Total
CS-1101	CI/Packer Fluid		55	
Aquacide 12:3	Biocide		10	
Total*				

6. Rig up MIT test.

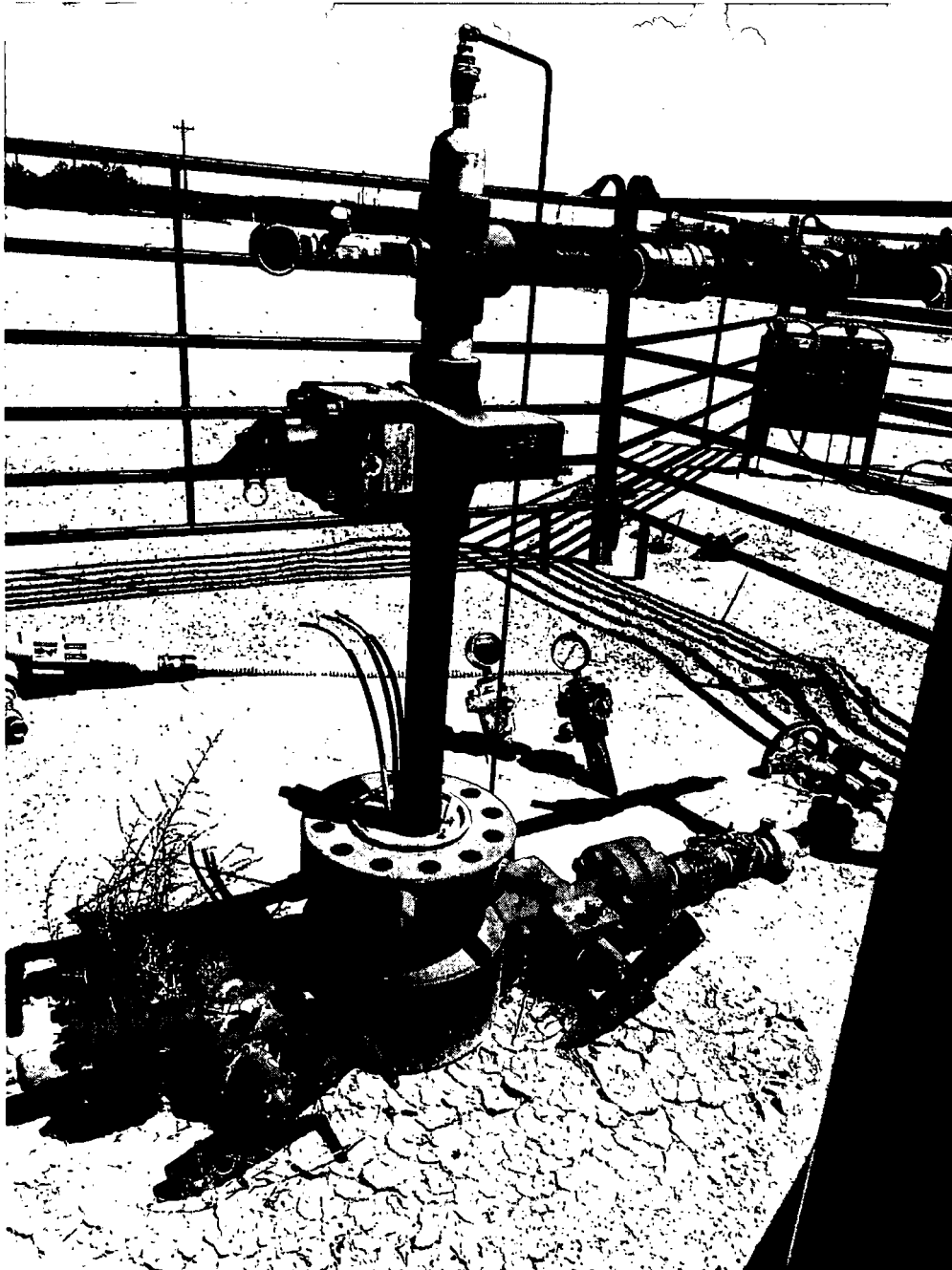
- a. Perform well MIT to 500 psig for 1 hr. Chart results for submission to the NMOCD.
- b. Contact NMOCD Field office 24 hours prior to executing test to allow time for BLM witness.

For the remaining wellhead work, utilize the following WBSs (Split costs evenly between these):

Spud Muffin 31-30 Fed Com 331H Preliminary WBS: XX-129470.01.SLC

Spud Muffin 31-30 Fed Com 621H Preliminary WBS: XX-129474.01.SLC

1. Coordinate with Field Construction and Field Completions. Remove wellhead components and cut casing at least 6" below current pad surface.
2. Install wellhead cap with double valve isolated pressure gauge. Mark well location on pad. Maintain all buried electrical and flowline connections at the wellhead below pad surface.



Additional Notes:

- Send any paraffin/scale/solids samples to Aegis to have analyzed so that we can seek a recommendation on adjusting our chemical treatment.
- Record any relevant information in daily reports – too much information/data will never be an issue.

- **SAFETY FIRST** – anyone has the authority to stop work if an activity appears unsafe. Be proactive on any procedural or technical recommendations and relay any ideas along for discussion.

Contact	Company	Office #	Mobile #
Tracy Egeland	Devon - Workover Foreman	(575) 746-5593	(575)513-9290
Joe Koessler	Devon – Engineer	(405) 228-8407	(405) 880-6627
Steve McGlasson	Devon – Foreman	(575)746-5548	(575)703-2741
Ray Carter	Devon – Assistant Foreman	(575) 234-0213	(575) 513-0956
Jacey Kidd	Devon – Chemical Program Coor.	(575) 748-1857	(575) 513-9742
Matthew Wilkins	Aegis – Chemical Acct. Manager		(432) 254-7710
Eric Hale	FlowCo Solutions (Packer sales)		(432)-234-7129
Jonathan Shepherd	BLM Engineering Representative		(575) 234-2237
Oswaldo La Corte	SLB ESP Representative	(432) 681-6915	(281) 382-7720
Brody Gentry	Devon – Sr. Foreman Construction	(575) 746-5576	(575) 513-9279
Danny Velo	Devon – Sr. Foreman Completions	(575) 746-5572	(575) 703-3360



HARROUN TRUST 31-3H

Data Cleanup Schematic

API/UWI 3001540825	Surface Legal Location SEC31 T23S R29E	Field Name POTATO BASIN	Permit No. 157035	State/Province NM	Well Configuration Type HORIZONTAL																																																																																																																																																																																																																																																																																																																
Ground Elevation (MSL) (ft) 2,957.10	Casing Flange Elevation (ft)	KB - Ground Level (ft) 25.00	KB - Casing Flange (ft)	Original Drig Spud Date 2/28/2014 06:00	Original Drig Rig Release Date 3/23/2014 08:00																																																																																																																																																																																																																																																																																																																
HORIZONTAL - OH, 8/22/2018 7:15:42 AM																																																																																																																																																																																																																																																																																																																					
MD (ftKB) 4.6 24.9 141.1 145.0 371.4 372.7 413.4 415.0 1,250.0 2,660.4 2,704.1 2,705.4 2,748.4 2,750.0 5,542.3 5,543.0 5,607.9 5,612.2 5,625.3 5,631.2 5,648.6 5,650.3 5,669.3 5,672.8 5,678.5 5,685.7 5,716.5 5,748.0 5,770.3 5,774.9 6,096.8 6,097.1 6,508.9 6,509.0 6,857.0 6,938.0 6,955.1 6,961.3 7,304.1 7,401.9 7,750.0 7,848.1 8,196.8 8,294.9 8,643.0 8,741.1 9,089.9 9,188.0 9,536.1 9,633.9 9,682.9 10,081.0 10,428.1 10,526.9 10,876.0 10,974.1 11,321.8 11,419.9 11,769.0 11,867.1 12,214.9 12,313.0 12,595.1 12,618.4 12,662.1 12,759.8 13,107.9 13,116.1 13,117.1 13,125.7 13,127.8 13,172.9 13,174.5 13,218.8 13,221.1 13,234.9 Vertical schematic (actual) 20; 145.0 13 3/8; 415.0 9 5/8; 2,750.0 6,509.0-6,857.0 6,955.0-7,304.0 7,402.0-7,750.0 7,848.0-8,197.0 8,295.0-8,643.0 8,741.0-9,090.0 9,188.0-9,536.0 9,634.0-9,983.0 10,081.0-10,428.0 10,527.0-10,876.0 10,974.0-11,322.0 11,420.0-11,769.0 11,867.0-12,215.0 12,313.0-12,662.0 12,760.0-13,108.0 13,116.0; Other in Hole 5 1/2; 13,221.0 Plug Back Total Depth; 13,173.0; 3/22/2014 <tr><td colspan="6">Wellbore Sections</td></tr> <tr><td>Wellbore Name</td><td>Section Des</td><td>Start Date</td><td>Act Top (ftKB)</td><td>Act Btm (ftKB)</td><td>Hole Size (in)</td></tr> <tr><td>OH</td><td>CONDUCTOR</td><td>1/16/2014</td><td>25.0</td><td>145.0</td><td>26</td></tr> <tr><td>OH</td><td>SURFACE 1</td><td>2/28/2014</td><td>145.0</td><td>415.0</td><td>17 1/2</td></tr> <tr><td>OH</td><td>INTERMEDIATE 1</td><td>3/2/2014</td><td>415.0</td><td>2,750.0</td><td>12 1/4</td></tr> <tr><td>OH</td><td>PRODUCTION 1</td><td>3/8/2014</td><td>2,750.0</td><td>13,235.0</td><td>8 3/4</td></tr> <tr><td colspan="6">Casing Strings</td></tr> <tr><td>Csg Des</td><td>OD (in)</td><td>Wt/Len (lb/ft)</td><td>Grade</td><td>Top (ftKB)</td><td>Set Depth (ftKB)</td></tr> <tr><td>CONDUCTOR</td><td>20</td><td>133.00</td><td>J-55</td><td>25.0</td><td>145.0</td></tr> <tr><td>SURFACE 1</td><td>13 3/8</td><td>48.00</td><td>H-40</td><td>25.0</td><td>415.0</td></tr> <tr><td>INTERMEDIATE 1</td><td>9 5/8</td><td>40.00</td><td>J-55</td><td>25.0</td><td>2,750.0</td></tr> <tr><td>PRODUCTION 1</td><td>5 1/2</td><td>17.00</td><td>P-110RY</td><td>25.0</td><td>13,221.0</td></tr> <tr><td colspan="6">Cement Fluids</td></tr> <tr><td>Des</td><td>Stg #</td><td>Fluid</td><td>Amount of Cement (sacks)</td><td>Cement Class</td><td>Est Top (ftKB)</td><td>Est Btm (ftKB)</td><td>Yield (ft³/sack)</td><td>Dens (lb/gal)</td><td>Top (ftKB)</td><td>Top Meas Meth</td></tr> <tr><td>CONDUCTOR CEMENT</td><td>1</td><td>TAIL</td><td>300</td><td>C</td><td>25.0</td><td>145.0</td><td>1.34</td><td>14.80</td><td>25.0</td><td>RETURN S</td></tr> <tr><td>SURFACE CASING CEMENT</td><td>1</td><td>TAIL</td><td>520</td><td>C</td><td>25.0</td><td>415.0</td><td>1.33</td><td>14.80</td><td>25.0</td><td>RETURN S</td></tr> <tr><td>INTERMEDIATE CASING CEMENT</td><td></td><td>LEAD</td><td>640</td><td>C</td><td>25.0</td><td>833.0</td><td>1.85</td><td>12.90</td><td>25.0</td><td>RETURN S</td></tr> <tr><td>INTERMEDIATE CASING CEMENT</td><td></td><td>TAIL</td><td>220</td><td>C</td><td>833.0</td><td>2,750.0</td><td>1.33</td><td>14.80</td><td>25.0</td><td>RETURN S</td></tr> <tr><td>PRODUCTION CASING CEMENT</td><td>1</td><td>LEAD</td><td>435</td><td>C</td><td>1,250.0</td><td>3,442.0</td><td>2.65</td><td>11.00</td><td>1,250.0</td><td>VOLUME CALCULATIONS</td></tr> <tr><td>PRODUCTION CASING CEMENT</td><td>1</td><td>TAIL</td><td>2,200</td><td>H</td><td>3,442.0</td><td>13,235.0</td><td>1.20</td><td>14.50</td><td>1,250.0</td><td>VOLUME CALCULATIONS</td></tr> <tr><td colspan="6">Zones</td><td colspan="5"></td></tr> <tr><td colspan="2">Zone Name</td><td colspan="2">Top Depth (ftKB)</td><td colspan="2">Bottom Depth (ftKB)</td><td colspan="2">Current Status</td><td colspan="3">Current Status Date</td></tr> <tr><td colspan="2">DELAWARE</td><td colspan="2">6,509.0</td><td colspan="2">13,108.0</td><td colspan="2"></td><td colspan="3"></td></tr> <tr><td colspan="6">Stimulation Intervals</td><td colspan="5"></td></tr> <tr><td>Type</td><td>Start Date</td><td colspan="2">Vol Clean Total (bbl)</td><td colspan="2">Proppant In Formation (lb)</td><td>Top (ftKB)</td><td>Btm (ftKB)</td><td colspan="3">Zone</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/2/2014</td><td colspan="2">90,641.32</td><td colspan="2">375,243.1</td><td>6,509.0</td><td>6,857.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/2/2014</td><td colspan="2">90,641.32</td><td colspan="2">345,017.9</td><td>6,955.0</td><td>7,304.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/2/2014</td><td colspan="2">90,641.32</td><td colspan="2">339,951.0</td><td>7,402.0</td><td>7,750.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/2/2014</td><td colspan="2">90,641.32</td><td colspan="2">331,543.9</td><td>7,848.0</td><td>8,197.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/1/2014</td><td colspan="2">90,641.32</td><td colspan="2">355,377.0</td><td>8,295.0</td><td>8,643.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/1/2014</td><td colspan="2">90,641.32</td><td colspan="2">352,511.0</td><td>8,741.0</td><td>9,090.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>5/1/2014</td><td colspan="2">90,641.32</td><td colspan="2">346,985.1</td><td>9,188.0</td><td>9,536.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>4/30/2014</td><td colspan="2">90,641.32</td><td colspan="2">342,913.0</td><td>9,634.0</td><td>9,983.0</td><td colspan="3">DELAWARE, OH</td></tr> <tr><td>HYBRID SW PAD - XLG</td><td>4/30/2014</td><td colspan="2">90,641.32</td><td colspan="2">346,317.1</td><td>10,081.0</td><td>10,428.0</td><td colspan="3">DELAWARE, OH</td></tr>	Wellbore Sections						Wellbore Name	Section Des	Start Date	Act Top (ftKB)	Act Btm (ftKB)	Hole Size (in)	OH	CONDUCTOR	1/16/2014	25.0	145.0	26	OH	SURFACE 1	2/28/2014	145.0	415.0	17 1/2	OH	INTERMEDIATE 1	3/2/2014	415.0	2,750.0	12 1/4	OH	PRODUCTION 1	3/8/2014	2,750.0	13,235.0	8 3/4	Casing Strings						Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)	CONDUCTOR	20	133.00	J-55	25.0	145.0	SURFACE 1	13 3/8	48.00	H-40	25.0	415.0	INTERMEDIATE 1	9 5/8	40.00	J-55	25.0	2,750.0	PRODUCTION 1	5 1/2	17.00	P-110RY	25.0	13,221.0	Cement Fluids						Des	Stg #	Fluid	Amount of Cement (sacks)	Cement Class	Est Top (ftKB)	Est Btm (ftKB)	Yield (ft ³ /sack)	Dens (lb/gal)	Top (ftKB)	Top Meas Meth	CONDUCTOR CEMENT	1	TAIL	300	C	25.0	145.0	1.34	14.80	25.0	RETURN S	SURFACE CASING CEMENT	1	TAIL	520	C	25.0	415.0	1.33	14.80	25.0	RETURN S	INTERMEDIATE CASING CEMENT		LEAD	640	C	25.0	833.0	1.85	12.90	25.0	RETURN S	INTERMEDIATE CASING CEMENT		TAIL	220	C	833.0	2,750.0	1.33	14.80	25.0	RETURN S	PRODUCTION CASING CEMENT	1	LEAD	435	C	1,250.0	3,442.0	2.65	11.00	1,250.0	VOLUME CALCULATIONS	PRODUCTION CASING CEMENT	1	TAIL	2,200	H	3,442.0	13,235.0	1.20	14.50	1,250.0	VOLUME CALCULATIONS	Zones											Zone Name		Top Depth (ftKB)		Bottom Depth (ftKB)		Current Status		Current Status Date			DELAWARE		6,509.0		13,108.0							Stimulation Intervals											Type	Start Date	Vol Clean Total (bbl)		Proppant In Formation (lb)		Top (ftKB)	Btm (ftKB)	Zone			HYBRID SW PAD - XLG	5/2/2014	90,641.32		375,243.1		6,509.0	6,857.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/2/2014	90,641.32		345,017.9		6,955.0	7,304.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/2/2014	90,641.32		339,951.0		7,402.0	7,750.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/2/2014	90,641.32		331,543.9		7,848.0	8,197.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/1/2014	90,641.32		355,377.0		8,295.0	8,643.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/1/2014	90,641.32		352,511.0		8,741.0	9,090.0	DELAWARE, OH			HYBRID SW PAD - XLG	5/1/2014	90,641.32		346,985.1		9,188.0	9,536.0	DELAWARE, OH			HYBRID SW PAD - XLG	4/30/2014	90,641.32		342,913.0		9,634.0	9,983.0	DELAWARE, OH			HYBRID SW PAD - XLG	4/30/2014	90,641.32		346,317.1		10,081.0	10,428.0	DELAWARE, OH		
	Wellbore Sections																																																																																																																																																																																																																																																																																																																				
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Report Printed: 8/22/2018



HARROUN TRUST 31-3H

Data Cleanup Schematic

API/UWI 3001540825	Surface Legal Location SEC31 T23S R29E	Field Name POTATO BASIN	Permit No. 157035	State/Province NM	Well Configuration Type HORIZONTAL
Ground Elevation (MSL) (ft) 2,957.10	Casing Flange Elevation (ft)	KB - Ground Level (ft) 25.00	KB - Casing Flange (ft)	Original Drig Spud Date 2/28/2014 06:00	Original Drig Rig Release Date 3/23/2014 08:00

HORIZONTAL - OH, 8/22/2018 7:15:43 AM

Stimulation Intervals

MD (ftKB)	Vertical schematic (actual)	Type	Start Date	Vol Clean Total (bbl)	Proppant in Formation (lb)	Top (ftKB)	Btm (ftKB)	Zone	
4.6		HYBRID SW PAD - XLG	4/30/2014	90,641.32	336,596.0	10,527.0	10,876.0	DELAWARE, OH	
24.9		HYBRID SW PAD - XLG	4/29/2014	90,641.32	345,778.1	10,974.0	11,322.0	DELAWARE, OH	
141.1		HYBRID SW PAD - XLG	4/29/2014	90,641.32	353,563.0	11,420.0	11,769.0	DELAWARE, OH	
145.0		HYBRID SW PAD - XLG	4/29/2014	90,641.32	342,345.9	11,867.0	12,215.0	DELAWARE, OH	
371.4		HYBRID SW PAD - XLG	4/28/2014	90,641.32	350,493.1	12,313.0	12,662.0	DELAWARE, OH	
372.7		HYBRID SW PAD - XLG	4/28/2014	90,641.32	366,780.0	12,760.0	13,108.0	DELAWARE, OH	
413.4									
415.0									
1,250.0									
2,660.4									
2,704.1									
2,705.4									
2,748.4									
2,750.0									



HARROUN TRUST 31-3H

Data Cleanup Schematic

API/UWI 3001540825		Surface Legal Location SEC31 T23S R29E		Field Name POTATO BASIN		Permit No. 157035		State/Province NM		Well Configuration Type HORIZONTAL	
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HORIZONTAL - OH, 8/22/2018 7:15:43 AM											
MD (ftKB)		Vertical schematic (actual)		Other In Hole							
				Des		Run Date		Pull Date		OD (in)	
				FRAC PLUG - COMPOSITE		4/10/2014				5	
				Production Failures							
				Failure Date		Failure Des		Fail Type		Cause	
										Total Est. Cost (Cost)	
				Jobs							
				Job Cat		Job Subtype		Job Start		Job End	
				DRILLING/COMPLETION		ORIGINAL		1/16/2014		1/17/2014	
				NS						\$56,345	
				DRILLING/COMPLETION		ORIGINAL		2/24/2014		3/23/2014	
				NS						\$5,152,470	
				FACILITY		PIPELINE		2/24/2015		2/25/2016	
										\$108,918	
				Production Tests & Emissions							
				Date		Q Oil (bbl/day)		Rate Gas (MCF/day)		Q Water (bbl/day)	
				6/30/2014		314.00		616.00		2,592.00	
				7/1/2014		323.00		614.00		2,745.00	
				7/2/2014		330.00		618.00		2,539.00	
				7/3/2014		323.00		665.00		2,955.00	
				Production Settings							
				Method		Method Detail		Start Date		End Date	
				Perforation Intervals							
				Date		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)	
				5/2/2014		6,509.0		6,857.0		3.5	
				5/2/2014		6,955.0		7,304.0		3.5	
				5/2/2014		7,402.0		7,750.0		3.5	
				5/1/2014		7,848.0		8,197.0		3.5	
				5/1/2014		8,295.0		8,643.0		3.5	
				5/1/2014		8,741.0		9,090.0		3.5	
				4/30/2014		9,188.0		9,536.0		3.5	
				4/30/2014		9,634.0		9,983.0		3.5	
				4/30/2014		10,081.0		10,428.0		3.5	
				4/29/2014		10,527.0		10,876.0		3.5	
				4/29/2014		10,974.0		11,322.0		3.5	
				4/29/2014		11,420.0		11,769.0		3.5	
				4/28/2014		11,867.0		12,215.0		3.5	
				4/28/2014		12,313.0		12,662.0		3.5	
				4/10/2014		12,760.0		13,108.0		3.5	



Directional Survey Data

DELAWARE BASIN UNRESTRICTED

Well Name: HARROUN TRUST 31-3H

Sub-Division DELAWARE BASIN		Region NORTHWEST CORE		Field Name POTATO BASIN			County EDDY		State/Province NM				
Surface Legal Location SEC31 T23S R29E		API/UWI 3001540825		Latitude (°) 32° 15' 18.69" N		Longitude (°) 104° 1' 40.66" W		Orig KB Elevation (ft) 2,982.10		Ground Elev MSL (ft) 2,957.10		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH				Parent Wellbore				Vertical Section Direction (°) 1.35					
Kick Offs & Key Depths													
Date				Type				Top Depth (ftKB)					
Date 3/5/2014				Definitive? Yes				Description ACTUAL SURVEYS				Proposed? No	
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		EW Tie In (ft) 0.00			
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
3/5/2014	70.14	0.25	285.05	70.14	0.04	0.04	-0.15	0.36	GYRO	VAUGHN ENER...			
3/5/2014	259.84	0.53	202.78	259.84	-0.68	-0.66	-0.89	0.29	GYRO	VAUGHN ENER...			
3/5/2014	354.69	0.89	195.75	354.68	-1.80	-1.78	-1.26	0.39	GYRO	VAUGHN ENER...			
3/5/2014	449.54	1.20	208.50	449.51	-3.40	-3.36	-1.93	0.41	GYRO	VAUGHN ENER...			
3/5/2014	544.39	1.00	220.57	544.35	-4.93	-4.88	-2.94	0.32	GYRO	VAUGHN ENER...			
3/5/2014	639.24	0.74	240.10	639.18	-5.89	-5.79	-4.01	0.41	GYRO	VAUGHN ENER...			
3/5/2014	734.09	0.87	264.65	734.03	-6.29	-6.17	-5.26	0.38	GYRO	VAUGHN ENER...			
3/5/2014	828.94	0.85	284.33	828.87	-6.21	-6.06	-6.66	0.31	GYRO	VAUGHN ENER...			
3/5/2014	923.79	0.93	290.38	923.70	-5.80	-5.62	-8.06	0.13	GYRO	VAUGHN ENER...			
3/5/2014	1,018.64	1.23	313.98	1,018.54	-4.88	-4.64	-9.52	0.56	GYRO	VAUGHN ENER...			
3/5/2014	1,113.49	1.72	329.28	1,113.36	-2.97	-2.71	-10.98	0.66	GYRO	VAUGHN ENER...			
3/5/2014	1,208.34	1.86	343.73	1,208.16	-0.29	-0.01	-12.13	0.50	GYRO	VAUGHN ENER...			
3/5/2014	1,303.19	2.29	354.95	1,302.95	3.06	3.36	-12.73	0.62	GYRO	VAUGHN ENER...			
3/5/2014	1,398.04	2.45	3.03	1,397.72	6.97	7.27	-12.79	0.39	GYRO	VAUGHN ENER...			
3/5/2014	1,492.89	2.79	6.28	1,492.47	11.29	11.59	-12.43	0.39	GYRO	VAUGHN ENER...			
3/5/2014	1,587.74	2.67	7.25	1,587.21	15.79	16.07	-11.90	0.14	GYRO	VAUGHN ENER...			
3/5/2014	1,682.59	3.08	8.93	1,681.94	20.51	20.78	-11.23	0.44	GYRO	VAUGHN ENER...			
3/5/2014	1,777.44	3.43	357.27	1,776.64	25.87	26.13	-10.97	0.79	GYRO	VAUGHN ENER...			
3/5/2014	1,872.29	3.43	352.09	1,871.32	31.50	31.78	-11.49	0.33	GYRO	VAUGHN ENER...			
3/5/2014	1,967.14	3.18	5.69	1,966.01	36.92	37.21	-11.62	0.87	GYRO	VAUGHN ENER...			
3/5/2014	2,061.99	2.83	352.46	2,060.73	41.86	42.15	-11.67	0.82	GYRO	VAUGHN ENER...			
3/5/2014	2,156.84	2.05	345.51	2,155.50	45.81	46.11	-12.40	0.88	GYRO	VAUGHN ENER...			
3/5/2014	2,251.69	0.16	328.03	2,250.32	47.55	47.87	-12.89	2.00	GYRO	VAUGHN ENER...			
3/5/2014	2,346.54	0.56	241.72	2,345.17	47.43	47.76	-13.37	0.60	GYRO	VAUGHN ENER...			
3/5/2014	2,441.39	1.60	179.99	2,440.01	45.88	46.21	-13.78	1.50	GYRO	VAUGHN ENER...			
3/5/2014	2,536.24	2.45	176.93	2,534.80	42.53	42.87	-13.67	0.90	GYRO	VAUGHN ENER...			
3/5/2014	2,631.09	2.26	180.87	2,629.57	38.64	38.97	-13.59	0.26	GYRO	VAUGHN ENER...			
3/8/2014	2,815.00	1.75	202.34	2,813.37	32.39	32.75	-14.71	0.49	MWD	WEATHERFORD			
3/8/2014	2,878.00	1.86	202.71	2,876.34	30.54	30.91	-15.47	0.18	MWD	WEATHERFORD			
3/8/2014	2,973.00	1.57	132.22	2,971.30	28.25	28.62	-15.11	2.10	MWD	WEATHERFORD			
3/8/2014	3,068.00	3.45	91.24	3,066.21	27.41	27.68	-11.28	2.62	MWD	WEATHERFORD			
3/9/2014	3,162.00	4.49	70.91	3,159.99	28.70	28.82	-4.98	1.85	MWD	WEATHERFORD			
3/9/2014	3,257.00	5.32	70.89	3,254.64	31.54	31.48	2.70	0.87	MWD	WEATHERFORD			
3/9/2014	3,352.00	6.25	71.07	3,349.16	34.87	34.60	11.75	0.98	MWD	WEATHERFORD			
3/9/2014	3,447.00	7.26	70.86	3,443.50	38.76	38.25	22.31	1.06	MWD	WEATHERFORD			
3/9/2014	3,542.00	8.50	68.74	3,537.80	43.56	42.76	34.53	1.34	MWD	WEATHERFORD			
3/9/2014	3,637.00	8.36	67.54	3,631.57	49.05	47.95	47.45	0.24	MWD	WEATHERFORD			
3/9/2014	3,731.00	8.07	66.47	3,724.61	54.58	53.19	59.82	0.35	MWD	WEATHERFORD			
3/9/2014	3,825.00	8.16	65.50	3,817.67	60.27	58.59	71.94	0.17	MWD	WEATHERFORD			
3/9/2014	3,920.00	8.76	71.11	3,911.63	65.71	63.73	84.92	1.07	MWD	WEATHERFORD			
3/9/2014	4,014.00	8.90	71.31	4,004.52	70.68	68.38	98.58	0.15	MWD	WEATHERFORD			
3/9/2014	4,109.00	8.93	70.79	4,098.37	75.79	73.16	112.50	0.09	MWD	WEATHERFORD			
3/9/2014	4,204.00	8.79	69.67	4,192.24	81.06	78.10	128.27	0.23	MWD	WEATHERFORD			
3/9/2014	4,299.00	8.61	68.88	4,286.14	86.48	83.19	139.71	0.23	MWD	WEATHERFORD			
3/9/2014	4,393.00	9.46	69.81	4,378.98	91.98	88.39	153.52	0.92	MWD	WEATHERFORD			
3/9/2014	4,488.00	9.68	70.15	4,472.66	97.73	93.79	168.35	0.22	MWD	WEATHERFORD			
3/9/2014	4,583.00	9.79	69.60	4,568.29	103.81	99.31	183.42	0.17	MWD	WEATHERFORD			
3/9/2014	4,677.00	10.05	68.68	4,658.89	109.73	105.08	198.55	0.32	MWD	WEATHERFORD			
3/9/2014	4,772.00	10.21	68.02	4,752.41	116.26	111.25	214.08	0.21	MWD	WEATHERFORD			
3/9/2014	4,867.00	10.20	67.41	4,845.90	123.01	117.63	229.65	0.11	MWD	WEATHERFORD			
3/9/2014	4,961.00	9.93	66.19	4,938.46	129.83	124.10	244.75	0.37	MWD	WEATHERFORD			
3/9/2014	5,056.00	9.99	65.93	5,032.03	136.85	130.77	259.77	0.08	MWD	WEATHERFORD			
3/9/2014	5,151.00	9.92	65.09	5,125.60	144.01	137.57	274.71	0.17	MWD	WEATHERFORD			
3/9/2014	5,246.00	10.00	68.57	5,219.16	150.82	144.03	289.81	0.64	MWD	WEATHERFORD			
3/9/2014	5,341.00	9.54	68.82	5,312.79	157.03	149.89	304.83	0.49	MWD	WEATHERFORD			
3/9/2014	5,435.00	9.30	67.63	5,405.52	163.07	155.60	319.12	0.33	MWD	WEATHERFORD			
3/9/2014	5,530.00	10.13	66.92	5,499.16	169.61	161.79	333.90	0.88	MWD	WEATHERFORD			
3/9/2014	5,625.00	10.10	66.91	5,592.68	176.52	168.33	349.25	0.03	MWD	WEATHERFORD			
3/10/2014	5,720.00	10.09	66.15	5,686.21	183.51	174.97	364.53	0.14	MWD	WEATHERFORD			
3/10/2014	5,803.00	10.28	66.16	5,767.90	189.75	180.90	377.95	0.23	MWD	WEATHERFORD			
3/10/2014	5,877.00	11.65	61.63	5,840.55	196.27	187.12	390.56	2.19	MWD	WEATHERFORD			
3/11/2014	5,909.00	13.21	52.11	5,871.80	200.18	190.90	396.29	8.03	MWD	WEATHERFORD			
3/11/2014	5,941.00	15.17	37.84	5,902.83	205.87	198.45	401.75	12.49	MWD	WEATHERFORD			
3/11/2014	5,972.00	17.61	26.74	5,932.58	213.37	203.85	406.35	12.77	MWD	WEATHERFORD			
3/11/2014	6,004.00	20.21	17.72	5,962.86	223.05	213.44	410.21	12.20	MWD	WEATHERFORD			
3/11/2014	6,036.00	23.95	14.01	5,992.50	234.69	225.01	413.47	12.47	MWD	WEATHERFORD			
3/11/2014	6,067.00	27.74	16.64	6,020.40	247.79	238.03	417.08	12.77	MWD	WEATHERFORD			
3/11/2014	6,099.00	31.29	17.69	6,048.24	262.96	253.09	421.72	11.21	MWD	WEATHERFORD			

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Well Name: HARROUN TRUST 31-3H

Sub-Division		Region	Field Name		County	State/Province				
DELAWARE BASIN		NORTHWEST CORE	POTATO BASIN		EDDY	NM				
Surface Legal Location		APUWII	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)			
SEC31 T23S R29E		3001540825	32° 15' 18.69" N	104° 1' 40.66" W	2,982.10	2,957.10	25.00			
Survey Data										
Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLB (°/100ft)	Survey Tool	Survey Company
3/11/2014	6,131.00	35.47	19.17	6,074.96	279.78	269.79	427.29	13.31	MWD	WEATHERFORD
3/11/2014	6,162.00	37.85	18.94	6,099.82	287.41	287.28	433.34	7.89	MWD	WEATHERFORD
3/11/2014	6,194.00	39.73	18.66	6,124.77	316.53	306.26	439.79	5.90	MWD	WEATHERFORD
3/11/2014	6,225.00	41.68	16.00	6,148.27	335.97	325.55	445.81	8.42	MWD	WEATHERFORD
3/11/2014	6,257.00	44.81	14.48	6,171.57	357.25	346.71	451.56	10.31	MWD	WEATHERFORD
3/11/2014	6,288.00	48.12	13.37	6,192.92	379.18	368.52	456.96	10.99	MWD	WEATHERFORD
3/11/2014	6,320.00	52.47	12.26	6,213.36	403.30	392.52	462.41	13.85	MWD	WEATHERFORD
3/11/2014	6,351.00	55.12	8.05	6,231.68	428.01	417.13	466.81	13.90	MWD	WEATHERFORD
3/11/2014	6,383.00	57.55	4.44	6,249.42	454.54	443.60	469.69	12.07	MWD	WEATHERFORD
3/11/2014	6,414.00	61.29	2.72	6,265.19	481.20	470.23	471.35	12.98	MWD	WEATHERFORD
3/11/2014	6,446.00	63.69	1.87	6,279.97	509.58	498.59	472.48	7.86	MWD	WEATHERFORD
3/11/2014	6,478.00	66.72	1.63	6,293.39	538.62	527.62	473.37	9.49	MWD	WEATHERFORD
3/11/2014	6,509.00	69.71	1.89	6,304.89	567.41	556.39	474.25	9.68	MWD	WEATHERFORD
3/11/2014	6,541.00	72.21	1.91	6,315.33	597.65	586.62	475.26	7.81	MWD	WEATHERFORD
3/11/2014	6,573.00	73.48	1.92	6,324.77	626.23	617.18	476.28	3.97	MWD	WEATHERFORD
3/11/2014	6,604.00	75.48	2.02	6,333.06	658.09	647.03	477.31	6.46	MWD	WEATHERFORD
3/11/2014	6,636.00	77.58	2.14	6,340.51	689.21	678.12	478.44	6.57	MWD	WEATHERFORD
3/11/2014	6,667.00	80.01	1.81	6,346.54	719.61	708.51	479.48	7.91	MWD	WEATHERFORD
3/11/2014	6,699.00	82.48	1.70	6,351.41	751.24	740.12	480.45	7.73	MWD	WEATHERFORD
3/11/2014	6,730.00	84.39	1.86	6,354.95	782.03	770.90	481.41	6.18	MWD	WEATHERFORD
3/11/2014	6,762.00	85.73	1.59	6,357.71	813.91	802.77	482.37	4.27	MWD	WEATHERFORD
3/11/2014	6,793.00	86.64	1.46	6,359.77	844.84	833.69	483.19	2.97	MWD	WEATHERFORD
3/11/2014	6,825.00	87.69	1.39	6,361.35	876.80	865.64	483.99	3.29	MWD	WEATHERFORD
3/11/2014	6,857.00	88.46	1.19	6,362.43	908.78	897.61	484.71	2.49	MWD	WEATHERFORD
3/11/2014	6,888.00	88.95	1.08	6,363.13	939.78	928.60	485.32	1.62	MWD	WEATHERFORD
3/11/2014	6,920.00	89.02	0.50	6,363.70	971.77	960.59	485.76	1.83	MWD	WEATHERFORD
3/11/2014	6,952.00	89.93	1.40	6,363.99	1,003.77	992.59	486.29	4.00	MWD	WEATHERFORD
3/11/2014	7,003.00	91.54	2.14	6,363.33	1,054.76	1,043.55	487.87	3.47	MWD	WEATHERFORD
3/11/2014	7,097.00	92.31	2.16	6,360.18	1,148.70	1,137.43	491.39	0.82	MWD	WEATHERFORD
3/11/2014	7,192.00	91.33	2.21	6,357.16	1,243.64	1,232.32	495.01	1.03	MWD	WEATHERFORD
3/11/2014	7,287.00	91.54	1.82	6,354.78	1,338.60	1,327.23	498.35	0.47	MWD	WEATHERFORD
3/11/2014	7,381.00	92.87	2.02	6,351.16	1,432.52	1,421.10	501.50	1.43	MWD	WEATHERFORD
3/11/2014	7,476.00	90.70	1.76	6,348.21	1,527.47	1,516.00	504.63	2.30	MWD	WEATHERFORD
3/11/2014	7,571.00	89.86	1.96	6,347.74	1,622.46	1,610.95	507.71	0.91	MWD	WEATHERFORD
3/11/2014	7,665.00	89.79	1.64	6,348.03	1,716.46	1,704.90	510.66	0.35	MWD	WEATHERFORD
3/11/2014	7,759.00	89.65	1.44	6,348.49	1,810.46	1,798.87	513.19	0.26	MWD	WEATHERFORD
3/11/2014	7,854.00	89.86	1.48	6,348.89	1,905.46	1,893.83	515.61	0.23	MWD	WEATHERFORD
3/11/2014	7,949.00	88.88	1.91	6,349.94	2,000.45	1,988.79	518.42	1.13	MWD	WEATHERFORD
3/11/2014	8,043.00	89.37	1.82	6,351.37	2,094.43	2,082.72	521.48	0.53	MWD	WEATHERFORD
3/11/2014	8,138.00	89.79	1.87	6,352.07	2,189.43	2,177.67	524.54	0.45	MWD	WEATHERFORD
3/11/2014	8,233.00	89.02	1.99	6,353.06	2,284.42	2,272.61	527.74	0.82	MWD	WEATHERFORD
3/11/2014	8,328.00	89.16	2.00	6,354.57	2,379.40	2,367.54	531.04	0.15	MWD	WEATHERFORD
3/11/2014	8,422.00	90.35	2.31	6,354.97	2,473.39	2,461.47	534.68	1.31	MWD	WEATHERFORD
3/11/2014	8,517.00	92.24	2.38	6,352.82	2,568.34	2,556.37	538.46	1.99	MWD	WEATHERFORD
3/11/2014	8,612.00	90.56	1.85	6,350.50	2,663.30	2,651.27	541.97	1.85	MWD	WEATHERFORD
3/11/2014	8,707.00	89.72	0.47	6,350.27	2,758.30	2,746.25	543.89	1.70	MWD	WEATHERFORD
3/11/2014	8,802.00	89.79	0.59	6,350.67	2,853.29	2,841.24	544.77	0.15	MWD	WEATHERFORD
3/11/2014	8,897.00	91.33	0.97	6,349.75	2,948.27	2,936.22	546.06	1.67	MWD	WEATHERFORD
3/11/2014	8,991.00	90.84	0.81	6,347.97	3,042.25	3,030.20	547.52	0.55	MWD	WEATHERFORD
3/11/2014	9,085.00	90.63	1.15	6,348.78	3,136.24	3,124.17	549.13	0.43	MWD	WEATHERFORD
3/11/2014	9,180.00	89.51	0.77	6,346.64	3,231.24	3,219.16	550.72	1.24	MWD	WEATHERFORD
3/11/2014	9,274.00	88.18	0.72	6,348.54	3,325.21	3,313.13	551.94	1.42	MWD	WEATHERFORD
3/11/2014	9,369.00	88.67	0.85	6,351.15	3,420.17	3,408.09	553.25	0.53	MWD	WEATHERFORD
3/11/2014	9,464.00	89.23	0.75	6,352.89	3,515.15	3,503.06	554.57	0.60	MWD	WEATHERFORD
3/11/2014	9,559.00	89.16	0.68	6,354.22	3,610.14	3,598.04	555.74	0.12	MWD	WEATHERFORD
3/11/2014	9,662.00	88.74	359.87	6,356.11	3,713.10	3,701.02	556.04	1.04	MWD	WEATHERFORD
3/11/2014	9,757.00	89.18	0.10	6,357.85	3,808.05	3,796.01	556.85	0.63	MWD	WEATHERFORD
3/11/2014	9,852.00	90.00	1.01	6,358.55	3,903.04	3,891.00	556.77	1.30	MWD	WEATHERFORD
3/11/2014	9,946.00	91.26	1.95	6,357.52	3,997.03	3,984.96	559.19	1.67	MWD	WEATHERFORD
3/11/2014	10,041.00	90.00	0.14	6,356.47	4,092.01	4,079.93	560.93	2.32	MWD	WEATHERFORD
3/11/2014	10,135.00	89.72	359.94	6,356.70	4,185.99	4,173.93	560.99	0.37	MWD	WEATHERFORD
3/11/2014	10,230.00	89.37	358.27	6,357.46	4,280.91	4,268.91	559.51	1.80	MWD	WEATHERFORD
3/11/2014	10,324.00	90.35	358.88	6,357.69	4,374.80	4,362.88	557.15	1.22	MWD	WEATHERFORD
3/11/2014	10,419.00	90.07	358.07	6,357.34	4,469.67	4,457.85	554.61	0.88	MWD	WEATHERFORD
3/11/2014	10,609.00	89.58	358.15	6,357.92	4,659.37	4,647.74	548.34	0.26	MWD	WEATHERFORD
3/11/2014	10,704.00	89.93	0.82	6,358.32	4,754.31	4,742.73	547.49	2.83	MWD	WEATHERFORD
3/11/2014	10,798.00	91.40	2.01	6,357.23	4,848.30	4,836.69	549.81	2.01	MWD	WEATHERFORD
3/11/2014	10,893.00	92.24	2.05	6,354.22	4,943.24	4,931.58	553.17	0.89	MWD	WEATHERFORD
3/11/2014	10,988.00	90.14	2.49	6,352.24	5,038.20	5,026.48	556.94	2.26	MWD	WEATHERFORD
3/11/2014	11,082.00	90.00	2.56	6,352.13	5,132.19	5,120.39	561.08	0.17	MWD	WEATHERFORD
3/11/2014	11,177.00	89.65	2.59	6,352.42	5,227.16	5,215.29	565.35	0.37	MWD	WEATHERFORD
3/11/2014	11,272.00	89.16	1.75	6,353.40	5,322.15	5,310.22	568.94	1.02	MWD	WEATHERFORD
3/11/2014	11,367.00	89.16	1.59	6,354.80	5,417.14	5,405.17	571.71	0.17	MWD	WEATHERFORD
3/11/2014	11,461.00	88.88	1.83	6,356.40	5,511.12	5,499.11	574.52	0.39	MWD	WEATHERFORD
3/11/2014	11,556.00	88.95	1.83	6,358.20	5,606.10	5,594.04	577.55	0.07	MWD	WEATHERFORD
3/11/2014	11,650.00	89.79	2.30	6,359.24	5,700.08	5,687.98	580.94	1.02	MWD	WEATHERFORD
3/11/2014	11,745.00	90.77	3.93	6,358.77	5,795.03	5,782.83	586.10	2.00	MWD	WEATHERFORD
3/11/2014	11,840.00	89.79	2.72	6,358.31	5,889.97	5,877.87	591.81	1.64	MWD	WEATHERFORD
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Well Name: HARROUN TRUST 31-3H

Sub-Division DELAWARE BASIN		Region NORTHWEST CORE		Field Name POTATO BASIN		County EDDY		State/Province NM					
Surface Legal Location SEC31 T23S R29E		API/UWI 3001540825		Latitude (°) 32° 15' 18.69" N		Longitude (°) 104° 1' 40.66" W		Orig KB Elevation (ft) 2,982.10		Ground Elev MSL (ft) 2,957.10		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLG (°/100ft)	Survey Tool	Survey Company			
3/11/2014	11,934.00	89.72	1.24	6,358.71	5,983.96	5,971.61	594.85	1.58	MWD	WEATHERFORD			
3/11/2014	12,029.00	90.42	3.00	6,358.59	6,078.95	6,066.54	598.37	1.99	MWD	WEATHERFORD			
3/11/2014	12,124.00	90.49	4.00	6,357.84	6,173.88	6,161.36	604.17	1.06	MWD	WEATHERFORD			
3/11/2014	12,218.00	89.44	3.45	6,357.90	6,267.80	6,255.16	610.27	1.26	MWD	WEATHERFORD			
3/11/2014	12,313.00	89.37	4.25	6,358.88	6,362.70	6,349.94	616.65	0.85	MWD	WEATHERFORD			
3/11/2014	12,408.00	90.14	4.81	6,359.29	6,457.55	6,444.64	624.16	1.00	MWD	WEATHERFORD			
3/11/2014	12,502.00	89.65	3.36	6,359.46	6,551.44	6,538.40	630.85	1.63	MWD	WEATHERFORD			
3/11/2014	12,597.00	89.51	0.11	6,360.16	6,646.43	6,633.34	633.73	3.42	MWD	WEATHERFORD			
3/11/2014	12,692.00	90.63	0.95	6,360.04	6,741.41	6,728.33	634.61	1.47	MWD	WEATHERFORD			
3/11/2014	12,786.00	90.98	2.01	6,358.72	6,835.40	6,822.29	637.03	1.19	MWD	WEATHERFORD			
3/11/2014	12,881.00	90.84	2.51	6,357.21	6,930.38	6,917.20	640.78	0.55	MWD	WEATHERFORD			
3/11/2014	12,976.00	91.19	5.35	6,355.53	7,025.28	7,011.95	647.29	3.01	MWD	WEATHERFORD			
3/11/2014	13,071.00	90.00	3.23	6,354.54	7,120.12	7,106.68	654.39	2.56	MWD	WEATHERFORD			
3/11/2014	13,168.00	89.58	3.16	6,354.90	7,217.07	7,203.52	659.80	0.44	MWD	WEATHERFORD			
3/11/2014	13,235.00	89.58	3.16	6,355.39	7,284.03	7,270.42	663.49	0.00	BIT	WEATHERFORD			