APPROVED BY:

Form C-103 District I State of New Mexico August 1, 2011 1625 N. French Dr., Hobbs, NM 88240 Phone:(575)-393-6161 Fax:(575) 393-0720 **Energy. Minerals and Natural** Permit 201226 District II 811 S. First St., Artesia, NM 88210 Resources Phone: (\$747/ 40128CONSERVATION WELL API NUMBER District III 30-015-41046 District III ARTESIA DISTRICT 1000 Rio Brazos Rd., Aztec, NM 87410 Oil Conservation Division 5. Indicate Type of Lease Phone: (505) 334-MARFax: (505) 634-6170 **District IV** 1220 S. St Francis Dr. 1220 S. St Francis Dr., Santa Fe, NM 87505 6. State Oil & Gas Lease No. Phone: (505) 476-3470 Fax: (505) 476-3462 Santa Fe, NM 87505 7. Lease Name or Unit Agreement SUNDRY NOTICES AND REPORTS ON WELLS Name SKEEN 2 26 27 (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.) STATE 1. Type of Well: 8. Well Number 0 001H 2. Name of Operator 9. OGRID Number CHEVRON USAINC 4323 3. Address of Operator 10. Pool name or Wildcat Attn: Sandy Stedman-Daniel, 1400 Smith, Houston, TX 77002 4. Well Location feet from the N Unit Letter D : 175 line and feet 400 from the W 27E NMPM Section Township 26\$ County Eddy 11. Elevation (Show whether DR, KB, BT, GR, etc.) 3226 GR Pit or Below-grade Tank Application or Closure Pit Type \_\_\_\_\_\_ Depth to Groundwater\_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water\_\_\_ \_\_ mil Below-Grade Tank Volume\_ Pit Liner Thickness: bbls; Construction Material\_ 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ☐ ALTER CASING TEMPORARILY ABANDON CHANGE OF PLANS COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDON MULTIPLE COMPL PULL OR ALTER CASING CASING/CEMENT JOB Other: Other: Drilling/Cement X 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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. 07/13/2014 through 07/ 17/2014: Drill 142-493. SET 13 3/8" CSG @ 493'. Cmt w/515 sx Cl C cmt, Circ 112 sx to surf, 07/20/2014 through 07/21/2014: Drill 567-2279', Set 9 5/8" csg @ 2279', Cmt w/850 sx Cl H cmt. Circ 219 sx to surf. 07/24/2014 through 08/05/2014; Drill 2279-12,905' TD. Ran 5 1/2" csg set @ 12,878. Cmt w/2135 sx cmt. 100 sx cmt to surface. 08/09/2014; Release Rig @ 06:30 hrs. 7/11/2014 Spudded well. Casing and Cement Program Date String Fluid Hole Csg Weight Grade Est Doth Yield Class Pres Open Type Size Set Doth Held Drop Hole n 0 08/07/14 17 Prod 8.75 5.5 P-110 0 12878 2135 07/17/14 Surf 17.5 13.375 48 H-40 493 515 1.347 C 07/21/14 Int1 12.25 9.625 40 HCK-55 2279 850 1.326 I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 🗔, a general permit 🗌 or an (attached) alternative OCD-approved plan 🗋 SIGNATURE TITLE DATE E-mail address Type or print name Telephone No. For State Use Only:



Drill Drill and Suspend Job Start Date: 7/8/2014

Report Printed: 3/17/2015

Job End Date: 8/9/2014 Field Name Business Unit Delaware River SKEEN 2-26-27 ST 001H Skeen 2-26-27 Mid-Continent Ground Elevation (ft) Current RKB Elevation Mud Line Elevation (ft) Water Depth (ft) 3,226.00 3,257.00 3,257.00, 3/13/2014 Report Start Date: 7/8/2014 Move miscelanous equipment and tubulars. 30% moved, 20% rigged down. Report Start Date: 7/9/2014 Com . . Waiting on daylight-Comptete rig down and move 90% of equipment. Set in pumps, pits, VFD and sub bases. Set in 20% of equipment 10% rigged up. Waiting on daylight Report Start Date: 7/10/2014 Waiting on daylight Continue Rigging up on Skeen 1-H. 100 % moved off Skeen 4-H. 90% set in, 40 % rigged up. Waiting on daylight. Report Start Date: 7/11/2014 Wait on Daylight Continue R/U of equipment. 100% set in on Skeen 1H and 75% R/U on Skeen 1H Wait on Daylight Report Start Date: 7/12/2014 Wait on Daylight Continue R/U equipment. Tested top drive, function test all equipment, N/U conductor, changed out swivel packing Report Start Date: 7/13/2014 Continue R/U of miscellaneous equipment on rig Lay out and strap BHA P/U BHA and start TIH. Tag bottom at 142' Drill from 142' to 213'. Rotating Parameters AROP = 28 ft/hr WOB = 6 - 10 K TD RPM = 39GPM = 225 GPM SPP = 120 psi Diff P = 50 psi MW = 8.4 ppg TD Torque = 4250 ft-lbs Report Start Date: 7/14/2014 Drill from 213' to 480' Rotating Parameters AROP = 25 ft/hr WOB = 10 - 20 K TD RPM = 65**GPM = 330 GPM** SPP = 325 psiDiff P = 50 psi MW = 8.4 ppg TD Torque = 5250 ft-lbs Circulate hole pumping sweeps as necessary. Determine washout to be 24 bbls. TOH w/ BHA from 480' to surface. L/D bit, bit sub, and shock sub. Survey = 2.83 deg N/D conductor pipe. Change out bales and elevators Hold PJSM on R/U Express equipment and on RIH w/ casing R/U Express Casing crew RIH w/ 13-3/8" surface casing down to 164'. Once at 164', casing would not go any further. Lay out casing to remove centralizers and attempt to re-run in hole. RIH w/ 13-3/8" casing to 164' where well bridged over. Lay out casing from 164' up to float collar. Attempted to back out of casing, failed due to thread lock. Report Start Date: 7/15/2014 Wait on welder to arrive to location.



Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

Job End Date: 8/9/2014 Business Uni Skeen 2-26-27 Delaware River Mid-Continent SKEEN 2-26-27 ST 001H Original RKB (ft) Ground Elevation (ft) Current RKB Elevation Mud Line Elevation (ft) Water Depth (ft) 3,226.00 3,257.00 3,257.00, 3/13/2014 Have PJSM w/ rig crew and welder prior to heating up casing threads to break casing and float collar. Shut down due to weather (lightning). Have welder heat up shoe track and break casing and float collar. Lay down last of casing. N/U conductor and clean rig floor. Change out bales and elevators P/U, strap, and M/U 17-1/2" bit and BHA TIH down to 155' Ream out bridge at 155 to 164'. Continue TIH and reaming down to bottom at 480' Circulate and condition hole clean, pumping sweeps as necessary. Spot 100 bbl pill at bottom. TOH from 480' up to 164'. Ream from 164' up to 155'. Continue TOH from 155' up to surface. R/D bales and elevators, clear rig floor, N/D conductor PJSM w/ Express casing crew and rig crew prior to R/U of equipment and RIH w/ casing. R/U Express casing crew and equipment RIH w/ 13-3/8" casing down to 164' and encounter tight spot again. Begin working through tight spot and reaming with Texas pattern guide shoe on end of casing Report Start Date: 7/16/2014 ′ Com Wash and ream casing down from 164' down to 170'. POOH and lay out casing, using welder to heat up threads. R/D Express casing crew and equipment Rig service Wait on 17-3/8" stabilizer to arrive on location P/U and M/U 17-1/2" bit, BHA, and drill string TIH w/ drill string and bit down to 150' Wash and ream from 150' down to 230'. R/U and run wireline survey. Shoot surveys at: 220' was 3.11 deg, 150' was 2.96 deg, and 100' was 1.25 deg. TIH from 220' down to 480'. Ream through tight spots at 350' to 355' and from 450' to 480'. Pump sweep around to clean out hole Report Start Date: 7/17/2014 Com ( A A A Finish pumping sweeps to clean hole after reaming down to bottom at 480' Make short trip while reaming from 480' up to 140'. Ream out tight spot at 420'. Circulate and clean hole, pumping sweeps as necessary. Spot 100 bbl pill on bottom. TOH w/ drill string from 480' up to surface. Clean and clear rig floor Have PJSM w/ Express and rig crew prior to R/U of equipment and RIH w/ casing. R/U Express casing crew and equipment. RIH w/ 10 its of 13-3/8" surface casing to 462' and land WH. R/D Express casing crew and equipment. R/U HAL cement crew and equipment. Have PJSM w/ HAL cement crew and rig crew pror to R/U of equipment and pumping of cement Pump surface cement job as per Chevron and HAL plan. R/D HAL cement crew and equipment. R/D casing bales and elevators Clean and clear rig floor Remove mouse hole, prep for N/D landing joint, transfer fuid out of pits, clean sand trap N/D landing joint and lay down N/U and Dress out WH Raise and set stack. Torque up bolts. Install: choke line, check valve, kill line, and turnbuckles. Charge up accumulator and function test. Report Start Date: 7/18/2014 Com Finish N/U BOP R/U Man Welding BOP test equipment Test pump manifold lines. Test standard pipe rams to 250 psi low and 5000 psi high. Test hydraulic IBOP and manual IBOP to 250 psi low and 5000 psi high BOP rams to 250 psi low and 5000 psi high. Hydril to 250 psi low and 3500 psi high. Choke manifold to 250 psi low and 5000 psi high. All tests were good. Rig down BOP testing equipment



Drill **Drill and Suspend** Job Start Date: 7/8/2014 Job End Date: 8/9/2014

SKEEN 2-26-27 ST 001H Skeen 2-26-27 Delaware River Mid-Continent Ground Elevation (ft) Original RKB (ft) Current RKB Flevation Mud Line Elevation (ft) Water Depth (ft) 3,226.00 3,257.00 3,257.00, 3/13/2014

Test Casing 1200 psi for 30 min.

Com

Make-up flowline, Install mousehole, Change rotating head clamp, Install katch can around BOPs

Install Wear Bushing.

Service Rig.

Change out broken bolt on Top Drive grab box.

Have PJSM w/ HAL-sperry and rig crew prior to P/U of directional BHA

Start P/U of HAL-sperry directional BHA

Report Start Date: 7/19/2014

Finish P/U and M/U of directional tools

TIH w/ BHA and tag TOC @ 339

Perform choke drill w/ rig crew

Drill from 339' to 490'.

Rotating Parameters

AROP = 60 ft/hr

WOB = 5 - 10 K

TD RPM = 45

GPM = 400 GPM

SPP = 465 psi

Diff P = 325 psi

MW = 10.1 ppg

MMotor = 68 rpm

TD Torque = 2650 ft-lbs

Perform FIT test to 13.6 ppg, test was good

Drill from 490' to 567'.

Rotating Parameters

AROP = 20 ft/hr

WOB = 5 - 15 K

TD RPM = 55

GPM = 450 GPM

SPP = 675 psi

Diff P = 195 psi

MW = 10.1 ppg MMotor = 77 rpm

TD Torque = 5500 ft-lbs

Rig Service

Drill from 567' to 826'.

**Rotating Parameters** 

AROP = 37 ft/hr

WOB = 20 - 25 K

TD RPM = 70

GPM = 545 GPM

SPP = 1315 psi Diff P = 205 psi

MW = 10.1 ppg

MMotor = 93 rpm

TD Torque = 6925 ft-lbs

Drill from 826' to 1068'.

Rotating Parameters

AROP = 40 ft/hr

WOB = 20 - 30 K

TD RPM = 70

**GPM = 545 GPM** SPP = 1425 psi

Diff P = 325 psi

MW = 10.1 ppg

MMotor = 93 rpm

TD Torque = 8575 ft-lbs

Report Start Date: 7/20/2014



Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

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Drill and slide from 1086' to 1113'.

Rotating Parameters AROP = 54 ft/hr WOB = 20 - 30 K TD RPM = 70

GPM = 545 GPM SPP = 1425 psi Diff P = 325 psi

MW = 10.1 ppg MMotor = 93 rpm

TD Torque = 8575 ft-lbs

Install rotating head

Drill from 1113' to 1304'.

Rotating Parameters

AROP = 42 ft/hr WOB = 25 - 30 K

TD RPM = 70

| 1D RPM = 70 |GPM = 545 GPM

SPP = 1475 psi

Diff P = 335 psi

MW = 10.1 ppg

MMotor = 93 rpm

TD Torque = 8500 ft-lbs

Drill and slide from 1304' to 1814'.

**Rotating Parameters** 

AROP = 43 ft/hr

WOB = 20 - 30 K

TD RPM = 70

GPM = 545 GPM

SPP = 1500 psi

Diff P = 335 psi

MW = 10.2 ppg

MMotor = 93 rpm

TD Torque = 8250 ft-lbs

Drill and slide from 1814' to 2197'.

Rotating Parameters

AROP = 64 ft/hr

WOB = 20 - 30 K

TD RPM = 70

GPM = 545 GPM

SPP = 1350 psi Diff P = 335 psi

MW = 10.2 ppg

MMotor = 93 rpm

TD Torque = 8500 ft-lbs

Report Start Date: 7/21/2014

Drill from 2197' to 2257'.

**Rotating Parameters** 

AROP = 40 ft/hr

WOB = 25 - 30 K

TD RPM = 68

GPM = 545 GPM

SPP = 1535 psi

Diff P = 315 psi

MW = 10.2 ppg

MMotor = 93 rpm TD Torque = 8250 ft-lbs

Circulate and condition hole, pumping sweeps as necessary. Determine washout to be 37 bbls. Flow check well and pump slug.

TOH from 2257' up to 502'

L/D 6-1/2" DC's, 8" DC's, DD tools, and bit

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Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

Job End Date: 8/9/2014 **Business Unit** SKEEN 2-26-27 ST 001H Skeen 2-26-27 Delaware River Mid-Continent Original RKB (ft) Ground Elevation (ft) Current RKB Elevation Mud Line Elevation (ft) Water Depth (ft) 3,226.00 3,257.00 3,257.00, 3/13/2014 Clean and clear rig floor Pul wear bushing R/D bales and elevators Have PJSM w/ Express casing crew and rig crew prior to R/U of equipment and RIH w/ 9-5/8" casing R/U Express casing crew and equipment RIH w/ its of 9-5/8" casing down to 2247' and land 9-5/8" packoff R/D Express casing crew and equipment Circulate at 2253 Circulate while waiting on HAL Cement to fix their equipment Have PJSM w/ HAL cement crew and rig crew prior to R/U of equipment and pumping cement Pump intermediate cement job as per Chevron plan. After pumping cement, flush lines w/ fresh water Report Start Date: 7/22/2014 R/D Cement equipment and wash through BOPE. L/D landing joint. C/O bails and elevators M/U pack off and attempt to set. Wait on GE pack off running tool. Attempt to set pack off. Attempt to flush cement from wellhead. L/D landing joint and R/D flow line, Katch Kan, and turn buckles RIH and set RBP at 500'. R/D orbit valve. N/D BOPE. Report Start Date: 7/23/2014 N/D B section of wellhead. Clean cement out of A section and B section of wellhead. Set pack-off. N/U B section and test t/3,000 psi for 15 min.- good test. N/U BOPE R/U Man Welding. PJSM with Man Welding and test BOPE 250 psi low and 5,000 psi high (3,500 psi on annular).. Hold each test 5 minutes and chart. N/U flow line, install mouse hole. Safety stand down w/ crew performed. Retrieve RBP Clean rig floor. M/U wear bushing and install. L/O and strap BHA. Pick up BHA #5 as follows: 8 3/4" PDC bit (Ulterra U616M), 6-3/4" 6/7 5.0 Stg ABH @ 1.83 Install rotating head. TIH to 1,904' Report Start Date: 7/24/2014 Com TIH and tag cement @ 2,146'. Perform choke drill. Test casing to 1500 psi. Good test. Drill shoe track and rat hole. Drill vertical section F/2,257' - T/2,267'. Perform FIT test @ 500 psi, to 13.5 EMW. Drill vertical section F/2,267' - T/2,495'. Ave. ROP = 76 fph, WOB= 15k, Diff = 250, RPM = 60, GPM = 550 Change out shaker screens due to build up underneith screens. Drill vertical section F/2,495' - T/4545'. Ave. ROP = 128 fph, WOB= 27k, Diff = 350, RPM = 80, GPM = 580, SPP =1750, TQ = 8000 Report Start Date: 7/25/2014



Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

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Drill vertical section F/4,545' - T/4,771'.

Ave. ROP = 90 fph, WOB= 27k, Diff = 350, RPM = 80, GPM = 580, SPP =1750,TQ = 8000

Drill vertical section F/4,771' - T/5,320'.

Ave. ROP = 64 fph, WOB= 27k, Diff = 200, RPM = 80, GPM = 436, SPP = 1363, TQ = 10k

Drill vertical section F/5,320' - T/5,634'.

Ave. ROP = 52 fph, WOB= 27k, Diff = 200, RPM = 80, GPM = 580, SPP = 2050, TQ = 10k

Rig service.

Drill vertical section F/5,634' - T/5835'

Ave. ROP = 31 fph, WOB= 32k, Diff = 80, RPM = 70, GPM = 580, SPP = 2050, TQ = 10k

Report Start Date: 7/26/2014

Com

Drill vertical section F/5,865' - T/5,844'

Avg. ROP = 18 fph, WOB= 34k, Diff = 80, RPM = 70, GPM = 580, SPP = 2050, TQ = 10k

Circulate B/U

Check Flow, Well Flowing 13 bbls./hr

Circulate B/U through choke

Check Flow, Well Flowing 13 bbls./hr @ 0 psi Csg

Attempt to circulate and recieved H2S alarm. Shut in well and evacuate to muster area.

Circulate through choke while raising MW to 9.4 and ph to 12.

Check flow (well static), build and pump slug,

TOH to change bit and mud motor.

Change out mud motor, mwd tool, test mwd, and make up bit.

TIH to 5,795'.

Circulate B/U.

Drill vertical section F/5,844' - T/6110

Avg. ROP = 53 fph, WOB≈ 32 k, Diff = 200, RPM = 65, GPM = 586, SPP = ,TQ = 8k

Report Start Date: 7/27/2014

- Com

Drill vertical section F/6,110' - T/6,874'

Avg. ROP = 51 fph, WOB= 32 k, Diff = 250, RPM = 80, GPM = 586, SPP = 2050 psi,TQ = 10k

Service Top Drive

Drill vertical section F/6,874' - T/7,256'

Avg. ROP = 59 fph, WOB= 32 k, Diff = 350, RPM = 80, GPM = 586, SPP = 2150 psi,TQ = 10k

Circulate B/U,

Check flow & pump slug

Report Start Date: 7/28/2014

Pump slug.

TOH for curve assembly.

Lay down HW drill pipe and jars.

Change out mud motor and MWD tool. Test same and make up bit.

P/U 30 joints of drill pipe.

TIH to 7,200'

Circulate B/U.

Drill 8 3/4" curve section F/7,256' - T/7,442'

Avg. ROP = 24.8 fph, WOB= 38 k, Diff = 65, RPM = 60, GPM = 544, SPP = psi,TQ = 19k

CC - pump sweep and circ out

Flow Check

Pump Slug

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Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

 Well Name
 Lease
 Field Name
 Business Unit

 SKEEN 2-26-27 ST 001H
 Skeen 2-26-27
 Delaware River
 Mid-Continent

 Ground Elevation (ft)
 Original RKB (ft)
 Current RKB Elevation
 Mud Line Elevation (ft)
 Water Depth (ft)

 3,226.00
 3,257.00
 3,257.00, 3/13/2014
 Water Depth (ft)

Report Start Date: 7/29/2014

Com

Weight mud to 9.4 due to well flowing 10 bbls/hr during flow check.

Check flow. (well static)

TOH to 5,400' due to high torque and motor stalling.

Pull rotating head and install trip nipple.

TOH to directional BHA.

L/D directional BHA.

Strap and caliper drill collars and 5" drill pipe for clean out run with junk mill and boot basket.

P/U and rack back 3 stands of collars. P/U and rack back 12 stands of drill pipe with new hard band to run in lateral section.

TIH to 7403' with junk mill.

Circulate B/U

Ream from 7403' to 7440' - tagged @ 7440'

Washed bottom and cycled pumps to attempt to catch junk in Boot Basket.

tagged 7440' with 2K WOB - cycled pumps and @ 250, 350, and 500 GPM, allowing 5 min settle time with pumps off between each cycle.

Report Start Date: 7/30/2014

Com

Continue Mill run and attempt to catch junk in Boot Basket.

Circulate B/U

Flow Check and Pump Slug

TOH

Lay down 5" HWDP & 6-1/4" DC

P/U Dir. Tools

Change ST-80 dies

P/U MWD, test same, & M/U bit

TIH with Dir. assembly to 7,160'

Circulate B/U

Ream f/ 7,160' - t/ 7,442'

Slide & Rotate f/ 7,442' - t/ 7,506'

Avg. ROP = 64 fph, WOB= 25 k, Diff = 370, RPM = 25 , GPM = 544, SPP = psi,TQ = 9k

TOH 5 stds and change out saver sub on the top drive. TIH to 7506'

Slide/Rotate from 7506' to 7605'

Avg. ROP = 40 fph, WOB= 25 k, Diff = 370, RPM = 25 , GPM = 544, SPP = psi,TQ = 10.5k

Report Start Date: 7/31/2014

Slide/Rotate from 7605' to 8144'

Curve Landed @ 8144' - 90.3°inc. / 179.6°

Avg. ROP = 47 fph, WOB= 25 k, Diff = 300, RPM = 25 , GPM = 585, SPP = 2250 psi,TQ = 10.5k

Slide/Rotate from 8144' to 9301

Avg. ROP = 92.5 fph, WOB= 25 k, Diff = 300, RPM = 65, GPM = 585, SPP = 2250 psi, TQ = 16k

Report Start Date: 8/1/2014

\*Com

Com'

Slide/Rotate from 9,301' to 10,448'

Avg. ROP = 85 fph, WOB= 25 k, Diff = 400, RPM = 65, GPM = 585, SPP = 2250 psi,TQ = 16k

Rig service.

Slide/Rotate from 10,488' to 10,542'

Avg. ROP = 54 fph, WOB= 25 k, Diff = 400, RPM = 65 , GPM = 585, SPP = 2250 psi,TQ = 16k

Work pipe, circulate, and pumps sweeps due to higher pick up weight.

Note: P/U WT. was 310k, reduced to 280k.

Slide/Rotate from 10,542' to 11,113'

Avg. ROP = 71 fph, WOB= 25 k, Diff = 400, RPM = 65, GPM = 585, SPP = 2250 psi, TQ = 17k

Report Start Date: 8/2/2014

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Drill Drill and Suspend Job Start Date: 7/8/2014 Job End Date: 8/9/2014

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 Welf Name
 Lease
 Field Name
 Business Unit

 SKEEN 2-26-27 ST 001H
 Skeen 2-26-27
 Delaware River
 Mid-Continent

 Ground Elevation (ft) 3,226.00
 Original RKB (ft) 3,257.00
 Current RKB Elevation 3,257.00
 Mud Line Elevation (ft) 3,257.00
 Water Depth (ft)

Slide/Rotate from 11,113' to 12,159'

Siluentotate iroin 11,113 to 12,133

Avg. ROP = 61.5 fph, WOB= 25 k, Diff = 400, RPM = 65 , GPM = 585, SPP = 2350 psi,TQ = 17k

Rig service

Slide/Rotate from 12,159' to 12,457'

Avg. ROP = 46 fph, WOB= 25 k, Diff = 400, RPM = 65, GPM = 585, SPP = 2350 psi, TQ = 17k

Report Start Date: 8/3/2014

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Slide/Rotate from 12,457' to 12,905'

Avg. ROP = 49 fph, WOB= 25 k, Diff = 400, RPM = 65, GPM = 585, SPP = 2350 psi, TQ = 17k

Perform clean up cycle and incorporate lubra beads into system.

Checkflow and pump slug.

TOH to 12,254'. Stuck pipe w/circulation.

Work stuck pipe.

Back ream F/12,125' - T/11,046'

Tight Hole issues at 11,735' and 11,046'

Report Start Date: 8/4/2014

Back ream F/11,046' - T/10,900'

Perform cleanup cylcle.

Back ream F/10,900' - T/9,290'

Service rig.

TOH from 9,290' to directional BHA.

Lay down directional BHA

Layout and strap BHA.

P/U reaming assembly.

TIH to 5844' w/ reaming assembly.

Report Start Date: 8/5/2014

TIH F/ 5845' to 6875'.

Install Rotating Head

TIH F/ 6875' to 9135'.

Ream F/ 9135' to 12905'.

Circ. and Condition mud, Perform clean out cycle.

Attempt to pull 10 stands, Had to Back Ream first stand out of hole. Pooh next 9 stands with 120 k over. Unable to TIH without reaming. Continue TIH Reaming to 12905'. Circ. and Condition mud. Perform clean up cycle. Spot 200 bbl pill on bottom.

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Pooh from 12905' to 7236'. Pulled first 10 stands with 80k to 120k over.

Report Start Date: 8/6/2014

Pooh laying down Drill pipe f/ 7236' to 2326'.

TIH with 60 stands of drill pipe in derrick.

Pooh laying down Drill pipe f/ 7715' to 1185'

Remove Rotating head, Install trip nipple.

Pooh laying down Drill pipe.

Lay down bit, reamers & drill collars. Clean Rig floor.

Pull wear bushing.

Held pre-job safety meeting and Rig up Franks Casing equip.

Held safety meeting with Ensign and Franks on running 5.5" casing

Report Start Date: 8/7/2014

Run 5.5 " 17# ppf, HCP-110 Casing.

Ream Casing down from 11070' to 12120'.

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Drill
Drill and Suspend
Job Start Date: 8/9/2014

			Job Start Date: 7/8/2014 Job End Date: 8/9/2014
Well Name	Lease	Field Name	Business Unit
SKEEN 2-26-27 ST 001H	Skeen 2-26-27	Delaware River	Mid-Continent
Ground Elevation (ft) Original RKB (ft) 3,226.00 3,257.00	Current RKB Elevation	2 1 1	Mud Line Elevation (ft) Water Depth (ft)
3,220.00	3,257.00, 3/13/2014	<del></del>	
Carlos Son Noting Constitution of the	Charles and the second of the	Com	BE THE WAR A SECOND TO SECOND THE PARTY OF T
Wash & Ream Casing down from 12120	)' to 12641'.	51/2" (AG	@ 12,878
T.D RPM: 40, SPM: 70, Torque: 10,50	00,	0/2 0 0	
Rotate weight: 195,000, Overpull 40k -	85k		
Report Start Date: 8/8/2014			
A CONTRACT OF THE STATE OF THE		Com	STE THE STORY
	past 12641'. Build and spot 100 bbl Dril-	n-Slide pill outside Casing . Shut down pur	mps attempt to Tih with Casing.
Ream Casing from 12641' to 12886'.			
Circulate and Condition mud thru CRT w	while Rig down Franks casing equip and	Rig up Halliburton cement equip.	
Rig down CRT tool.		1115 111 00	mt
Rig up Halliburton cement equip.		920 AL U	mt
Held safety meeting on cementing	- $hh$	100 Ail C	2017
Perform cement job with Halliburton.		700 AT	ms
1)Pumped 20 bbl 10.6 ppg spacer. 2/11 cement, yeild 2.606. 5) 48 bbls 10% msa	a-ácid, 8.48 ppg. Got 100 cement to surf	54 . 3 920 sacks varicem-pb2 cement, 1. ace. Bumped plug 500 psi over.	807 yeild. 4) 100 sacks solucem- h
Flush through Bop's and all surface equi		22	Ad to surd
Held safety meeting with crews and rig u	up Apollo E/Line and set Bridge plug in t	5.5" casing at 2000'.	
Nipple down Bop's			
Set casing slips @120 k. Make rough cu	it and dress out top of casing. Set pack-	off.	<del></del>
Nipple up DSA and 7 1/16" Tubing head	· ·		•
Report Start Date: 8/9/2014			
		Còm (1) (1) (1) (2) (2) (2) (3) (4) (1) (4) (1)	Server Brown to me Block to the server of th
Nipple up Tubing head. Tested tubing h	ead to 5000 psi.	•	
have gauge on casing at that point) Tube touching top of pack-off. Bled off pressu	bing head tested to 5000 psi. After discu ire from Tubing head and closed casing	ff on first test. Opened casing valve bled o sses with G.E Rep. discovered the hold do valve installed gauge on casing. Pressure sure from casing and closed casing valve.	own pins were approximately 1/2" from
Release Rig @06:30			



## **Casing Summary**

- 1	***		and the second s	•		
1	Well Name		Lease	Field Name	Business Unit	
1	SKEEN 2-26-27 ST	001H	Skeen 2-26-27	Delaware River	Mid-Continent	
1	Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)
1	3,226.00	3,257.00	3,257.00, 3/13/2014			1

	3,226.00	3,257.00	3,257.00, 3/	13/2014						l	
	oce, Planned?-N, 493ftk	(B  Set Tension			ominal OD (in)	String Min Drift (in)		ntralizers		Scratchers	K (Mar)
		493			<del></del>	13 3/8					
Jts	item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	* Top Thread	Top Depth (MD) (ftKB)	Btm Depth ( *(MD) (ftKB)	Len (ft)	P.Burst (psi) »	P Collapse
	Landing Joint	13 3/8	12.719	48.00	H-40		31	61	30.15		
1	Pup Joint	13 3/8	12.719	48.00	H-40		61	66	4.65		
8	Casing Joint	13 3/8	12.719	48.00	H-40		66	410	344.09	1,730.0	740
1	Float Collar	13 3/8	12.719	48.00	H-40		410	411	1.06		
2	Casing Joint	13 3/8	12.719	48.00	H-40		411	492	81.44	1,730.0	740
	Float Shoe	13 3/8	12.719	48.00			492	493	0.73	1,730.0	740
ter	mediate Casing 1. Plan	ned?-N 2 2	79ftKB			Tomores			14.44 M		
t De	pth (MD) (ftKB)	Set Tensio	on (kips)	String No	ominal OD (in)	String Min Drift (in)	Ce 8.688 21	ntralizers		Scratchers	6-4-1-5245 XX
ts -	item Des		TO (in)	1	Grade	Top Thread	Top Depth (MD) (ftKB)		e i i i i i i i i i i i i i i i i i i i	P Burst (psi)	P Collaps (psi)
	Landing Joint	9 5/8	8.844		HCK-55	a control in each	31	(IIID) (IIXB) 2	32.93	∰L°Daisr(bai) ∻	€ 380 (h2i).
1	Liner Pup Joint	9 5/8	8.844	40.00	HCK-55		64	69	4.83	3,950.0	4,23
55	Casing Joint	9 5/8	8.844		HCK-55		69	2,203	2,134.01	3,950.0	4,23
1	Float Collar	9 5/8	8.844		HCK-55		2,203	2,204	1.49		
	Casing Joint	9 5/8	8.844	40 NÑ	HCK-55		2,204	2,277	73.27	3.950.0	4,23
2	Casing Joint	0 5/0	0.044	10.00	11016-00		L,207	_,_,,			4,20
	Float Shoe	9 5/8	8.844		HCK-55	· · · · · · · · · · · · · · · · · · ·	2,277	2,279	1.63	0,000.0	4,230
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		2,277	2,279	1.63	·	·····
1 rod	Float Shoe	9 5/8	8.844 BftKB	40.00	HCK-55	String Min Drift (in)	2,277	2,279	1.63	·	
1 rod et De	Float Shoe uction Casing, Plannec pth (MD) (fiKB) 12,	9 5/8 1?-N, 12,878 Set Tensio 878	8.844 B <b>ffKB</b> on (kips)	40.00 String N	HCK-55 ominal OD (in)	String Min Drift (in) 5 1/2	2,277	2,279	1.63	Scratchers	
1 rod	Float Shoe uction Casing, Plannec pth (MD) (fiKB) 12,	9 5/8 1?-N, 12,878 Set Tensio 878	8.844 B <b>ffKB</b> on (kips)	40.00 String N	HCK-55 ominal OD (in)	String Min Drift (in) 5 1/2	2,277	2,279	1.63	Scratchers	
1 rod et De	Float Shoe uction Casing, Planned pth (MD) (ffKB)	9 5/8 1?-N, 12,878 Set Tensio 878	8.844 B <b>ffKB</b> on (kips)	40.00 String N	HCK-55 ominal OD (in)	String Min Drift (in)	2,277	2,279	1.63		P Collap (psi)
rod	Float Shoe  uction Casing, Planner pth (MD) (ffKB)  12,	9 5/8 17-N, 12,878 878 Set Tension	8.844 BrikB on (kips)	40.00 String No Wt (lb/ft) 17.00	HCK-55 ominal OD (in)	5 1/2 String Min Drift (in) 5 1/2 Top Thread	Z,277	2,279  ntralizers  Btm Depth (MD) (ftKB)	1.63	Scratchers	,P Collap (ps) 7,48
rod et De	Float Shoe  uction Casing, Plannec pth (MD) (ffKB)  12,  Item Des  Casing Joint	9 5/8 17-N, 12,876 878 Set Tension 00 (in) 5 1/2	8.844  BrikB  on (kips)  1D (in)  4.892	40.00   String N   Wt (lb/ft)   17.00   17.00	ominal OD (in) Grade P-110	5 1/2 String Min Drift (in) 5 1/2 Top Thread	2,277  Ce  Top Depth (MD) (ffKB).  31	2,279  ntralizers  Btm Depth (MD) (ftKB) 31	1.63 Len (ft) 0.00	Scratchers	P Collap (psi) 7,48 7,48
rod tet De	Float Shoe  uction Casing, Plannec pth (MD) (fiKB)  12,  tem Des  Casing Joint  Landing Hanger	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2  5 1/2  5 1/2  5 1/2	8.844 8fKB on (kips) ID (in) 4.892 4.892	40.00   String N 	ominal OD (in)  Grade P-110 P-110	5 1/2 String Min Drift (in) 5 1/2 Top Thread CDC CDC	2,277  Ce (MD) (fixB). 31	2,279  htralizers  Btm Depth 3 (MD) (ftKB) 31 31	1.63 Len (ft) 0.00 0.00	Scratchers	P. Collap (psi) 7,48 7,48 7,48
rod et De lits 0 0 17 6	Float Shoe  uction Casing, Plannec pth (MD) (fiKB)  12,  ltem Des Casing Joint Landing Hanger Casing Joint	9 5/8 17-N, 12,878 878 Set Tensic 5 1/2 5 1/2 5 1/2	8.844  3ftKB  br (kips)  4.892  4.892  4.892	40.00   String Ni 	Grade P-110 P-110	5 1/2 String Min Drift (in) 5 1/2 Top Thread CDC CDC CDC	2,277  Ce  (MD) (fixB).  31  31	2,279  ntralizers  Btm Depth (MD) (flKB)  31  7,133	1.63 Len (ft) 0.00 0.00 7,101.33	Scratchers	P Collap (ps) 7,48 7,48 7,48
1 rod of the true of true of the true of the true of the true of true of the true of the true of the true of t	Float Shoe  uction Casing, Plannec pth (MD) (ffKB)  12,  lem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2  5 1/2  5 1/2  5 1/2	8.844 3ffKB bn (kips) 4.892 4.892 4.892	40.00    String Ni   17.00   1	Grade P-110 P-110 P-110	5 1/2 String Min Drift (in) 5 1/2 Top,Thread CDC CDC CDC CDC	2,277  Ce (MD)(ftKB) 31 31 31 7,133	2,279  antralizers  Btm Depth (MD) (fiKB)	1.63 Len (ft) \$ 0.00 0.00 7,101.33	Scratchers	P Collap (ps) 7,48 7,48 7,48
1 rod rot De rod 17 6 1 13 7 1	Float Shoe  uction Casing, Plannec pth (MD) (ftKB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Casing Joint	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2  5 1/2  5 1/2  5 1/2	8.844 3ffKB  In (kips) 4.892 4.892 4.892 4.892 4.892	40.00    String Ni   Wt (lb/ft)   17.00   17.00   17.00   17.00   17.00   17.00	Grade . P-110 P-110 P-110 P-110	String Min Drift (in)  5 1/2  String Min Drift (in)  1 Top Thread  CDC  CDC  CDC  CDC  CDC	2,277  Ce (MD)(ftKB), 31 31 31 7,133 7,142	2,279  ntralizers  Btm Depth (MD) (fiKB) 31  7,133  7,142  12,686	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42	Scratchers	P Collap (ps) 7,48 7,48 7,48
1 Pod et De lits 0 0 17 6 1 13 7 1 1	Float Shoe  uction Casing, Plamer pth (MD) (ftKB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2	8.844 3ffKB  ID (in) 4.892 4.892 4.892 4.892 4.892 4.892	40.00  String N  W((lb/ft)  17.00  17.00  17.00  17.00  17.00  17.00  17.00	HCK-55  Grade P-110 P-110 P-110 P-110 P-110	String Min Drift (in)  5 1/2  Top Thread  CDC  CDC  CDC  CDC  CDC  CDC	2,277  Ce  Top Depth (MD)(ftKB) 31 31 31 7,133 7,142	2,279  ntralizers  Btm Depth (MD) (ftKB) 31 31 7,133 7,142 12,686 12,695	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42 8.45	Scratchers	P Collaip (ps) 7,48 7,48 7,48 7,48 7,48
1 rod or De trus 0 0 17 6 1 13 7 1 1 1 1	Float Shoe  uction Casing, Plamer pth (MD) (ftKB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup  RSI Sleeve	9 5/8 17.N, 12,878 878 Set Tensic 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2	8.844 3fiKB sin (kips) 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892	40.00  String N  W((lb/ft)  17.00  17.00  17.00  17.00  17.00  17.00  17.00  17.00  17.00	F-110 P-110 P-110 P-110 P-110 P-110 P-110 P-110 P-110	String Min Drift (in)  5 1/2  Top Thread  CDC  CDC  CDC  CDC  CDC  CDC  CDC  C	2,277  Ce  Top Depth: (MD)(fixB). 31 31 31 7,133 7,142 12,686 12,695	2,279  ntralizers  Btm Depth (MD) (fiKB) 31 31 7,133 7,142 12,686 12,695 12,700	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42 8.45 5.65	Scratchers	P Collaip (ps) 7,48 7,48 7,48 7,48 7,48
1 Production 1 Pro	Float Shoe  uction Casing, Plamer pth (MD) (ftkB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup  RSI Sleeve  Casing Joint	9 5/8 17. N., 12,878 878 Set Tensic 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2	8.844  3fikB  on (kips)  4.892  4.892  4.892  4.892  4.892  4.892  4.892	40.00  String N  W((lb/ft)  17.00  17.00  17.00  17.00  17.00  17.00  17.00  17.00  17.00  17.00	P-110	String Min Drift (in)  5 1/2  CDC  CDC  CDC  CDC  CDC  CDC  CDC  C	2,277  Ce (MD) (fiKB), 31 31 7,133 7,142 12,686 12,695 12,700	2,279  ntralizers  Btm Depth (MD) (ftKB) 31  31  7,133  7,142  12,686  12,695  12,700  12,741	1.63  Len (ff) 0.00 0.00 7,101.33 9.03 5,544.42 8.45 5.65 40.87	Scratchers	P Collaip (ps) 7,48 7,48 7,48 7,48 7,48
1   (1)   (1	Float Shoe  uction Casing, Plamer pth (MD) (ftkB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup  RSI Sleeve  Casing Joint  Blank Liner	9 5/8 17. N., 12,878 878 Set Tensic 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2	8.844  SfikB  on (kips)  4.892  4.892  4.892  4.892  4.892  4.892  4.892  4.892	40.00    String Ni   17.00   1	P-110	String Min Drift (in)  5 1/2  CDC  CDC  CDC  CDC  CDC  CDC  CDC  C	2,277    Ce   Top Depth (MD) (ftKB), 31   31   31   7,133   7,142   12,686   12,695   12,700   12,741	2,279  ntralizers  Bim Depth (MD) (fiKB). 31 7,133 7,142 12,686 12,695 12,700 12,741 12,750	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42 8.45 5.65 40.87 8.46	Scratchers	7,48 7,48 7,48 7,48 7,48
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Float Shoe  uction Casing, Plamer pth (MD) (ffKB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup  RSI Sleeve  Casing Joint  Blank Liner  Landing Collar	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2  5 1/2	8.844  3ftKB  ID.(In) 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892	40.00    String Ni   17.00   1	Grade . P-110	String Min Drift (in)  5 1/2  String Min Drift (in)  1 Top, Thread  CDC  CDC  CDC  CDC  CDC  CDC  CDC  C	2,277    Ce   Top Depth (MD) (ftKB), 31   31   31   31   31   7,133   7,142   12,686   12,695   12,704   12,750   12,741   12,750	2,279  ntralizers  Btm Depth (MCB) (11KB) 31  31  7,133  7,142  12,686  12,700  12,741  12,750  12,751	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42 8.45 5.65 40.87 8.46 1.57	Scratchers	7,48 7,48 7,48 7,48 7,48
1	Float Shoe  uction Casing, Plamer pth (MD) (ffKB)  12,  tem Des  Casing Joint  Landing Hanger  Casing Joint  Marker Joint  Casing Joint  Pup  RSI Sleeve  Casing Joint  Blank Liner  Landing Collar  Casing Joint	9 5/8  17-N, 12,878  878  Set Tensic  5 1/2	8.844 3fiKB bn (kips) 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892 4.892	40.00    String Ni   17.00   1	HCK-55  Grade P-110	String Min Drift (in)  5 1/2  String Min Drift (in)  1 Top, Thread  CDC  CDC  CDC  CDC  CDC  CDC  CDC  C	2,277  Ce (MD)(ftKB) 31 31 7,133 7,142 12,686 12,695 12,700 12,741 12,750 12,751	2,279  ntralizers  Bim Depth (MD) (RKB) .  31  7,133  7,142  12,686  12,700  12,741  12,750  12,751  12,792	1.63  Len (ft) 0.00 0.00 7,101.33 9.03 5,544.42 8.45 5.65 40.87 8.46 1.57 40.62	Scratchers	



Surface Casing Cement

									Surface Ca	sing Cement
20141	(a) 19 (e) (c)	ease Skeen 2-26-2	<del></del>	34 (1 1 1 1) (1)	Field Name Delaware	Divor	. (	Business	Unit ontinent	
	Found Elevation (ii)				Deigwaie	Rivei	regisery	mings and the state of the stat	4 4 4 4 4 4	ter Depth (ft)
	3,226.00 3,257.00 3	3,257.00, 3/1	3/2014			بئ <u>معمد سياح معم .</u> -		ستناويا الخاصية		The state of the s
10	Original Hole)			73777	TATE SE	(4.1.4 <b>F</b> #1)	PERMIT		To ex No.	
v	Velib•ore Name	Directional Type		, ,	Kick Off Dep	th (ftKB)			ection Direction (°)	101.13
1 · 1		-lorizontal	TOPINI DI	ACI.T	op (ftKB)			7,256	Act Btm (ftKB)	181.13
1/		20	***************************************	7.	Tarray II			The second se	, ,, ,, ,,	142.0
		17 1/2				- 5	142.0	e et 144		480.0
		12 1/4					480.0			2,257.0
	The second of th	8 3/4	SPECEL AND PROPERTY AND PROPERTY AND	AND TELEVISION OF PERSONS ASSESSED.	THE PLANT AREA SAID	2,	257.0	NAME AND ADDRESS OF THE PROPERTY AND THE PARTY.	The second secon	12,905.0
1111	H-2-Vetco Grey on ≼dttmstart>				Install Date		40 0 44.5			
	SH-2			<u> </u>	7 : 4: 11		16 - Jan - 161 -	Part 18. H. Z. A	ing and the second seco	San A Samuel (A)
	Des Mak	er er er	THE REAL PROPERTY.	odel 🔭 🔆	THE REAL PROPERTY.	WP (psi)	77 FE 77 2	Service W.		SUBSTITUTE OF THE SECOND SECON
1	urface, Planned?-N, 493ftKB	V 7985		E PARCETA		THE PERSON NAMED IN COLUMN TO SERVICE OF SER	100000			ALL REAL PROPERTY.
	asing Description Wellbore	IT IN MARKE	Run Date	: PAN ALAT MAN	Set Depth (N	ID) (ftKB):	Stick	Up (ftKB)	Set Tension	(kips)
I. L.	Surface Original Hole		7/17	/2014	Spratchore		493	SER SECTION	30.9	
	entralizers				Scratchers					
100	Jis Item Des ve 7	OD (in)	MO (in)	Wt (lb/ft)	Grade	Top Conn Sz	Top Thread	Len (ft)	Top Depth (MD) of	Btm Depth (MD)
屵	1 Landing Joint	13 3/8	12.719			TOWNERS (III) PROFILE	Michaillean	30.15	31	VIII W 1.61
1	1 Pup Joint	13 3/8	12.719	48.00			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.65	61,	70 66
	8 Casing Joint	13 3/8	12.719	48.00	H-40			344.09	- 66	1410
	1 Float Collar	13 3/8	12.719	48.00	2 '	* * * * * * * * * * * * * * * * * * *		1.06	, 410	411
	2 Casing Joint	******13*3/8*	12.719	48.00			4	~81,44	411	492
	1 Float Shoe	13 3/8	12,719	48.00	H-40	THE THE PARTY OF T	April 19 April 19 February	0.73	492	493
	ntermediate Casing 1, Planned? N, 2,2 asing Description Wellbore	/9nkB	Run Date		Set Depth (N	MD) (ftKB)	Stick	Up (ftKB)	Set Tension (	kips)
1	ntermediate Casing 1 Original Hole	·		/2014			2,279		-30.8	
C	entralizers		en er mer i glettige meld er en skriver		Scratchers	٠	a services	and the second of the second o	· · · · · · · · · · · · · · · · · · ·	
9			Carlotte San	1202-100	2.7.00	Top Conn Sz	66240		長Top Depth (MD) 編	
13	1 Landing Joint	9 5/8	**************************************	40.00	#Grade HCK-55	202 (in)	∦Top Thread	32.93	(ftKB) 31	64
-	1 Liner-Pup Joint	9 5/8	8.844		HCK-55	Ag 1 #2		4.83	64	. 69
	55 Casing Joint	9 5/8	8.844	40.00	HCK-55	1 187 18		2,134.01	69	2,203
	1 Float Collar	9 5/8	8.844	40.00	HCK-55	i.		1.49	2,203	2,204
Έ	.2. Casing Joint	9 5/8	8 844	1	HCK-55		.1 1 tg. 1 %	73:27	-2,204	2,277
L	1 Eloat Shoe	9 5/8			HCK-55	A		1:63	2:277	2,279
	roduction Casing, Planned? N, 12,878		Run Date		Set Depth (N	ID) (fKB)	Stick	.Up (ftKB)		kins)
P	roduction Casing Original Hole	*** , J.;.	8/6/2					iop (iikb) 弱,不可以,不可能。		7a
C	entralizers		a gara		Scratchers	15.0				
178		STATE OF		Walley.		Top Conn Sz	Top:Thread		(Top Depth (MD)	Btm Depth (MD) 7
	0 Casing Joint	OD (in) 5 1/2	4.892	17.00	P-110	工作版(in)函数数	Top Thread,	0.00	(ftKB) (ftKB) 31	(ftKB) 31
	0 Landing Hanger	5 1/2	4.892	.(, *)	P-110	1 1 2 1 1 1 1 1	CDC	0.00	W	31
1	76 Casing Joint	5 1/2	4.892	1.4	P-110		CDC	7,101.33	31	× 7 133
× ×	1 Marker Joint	5 1/2	4.892		P-110	11.4	CDC,	9.03	7,133	7.142
.1	37 Casing Joint	5 1/2	4.892		P-110	i in	CDC	5,544.42	I'	12,686
Ĺ	1 Pupa weer to the state of the	5 1/2	4.892		P-110	5 1 No	CDC	8:45	12,686	12,695
	1 RSI Sleeve	5 1/2	4.892	17.00.		F. 100 . 61	CDC	5.65		12,700
-	1. Casing Joint	5,1/2	+ 4.892 4.892	17.00 17.00	.53×	yang yang sandang	CDC	40:87- 8:46	12; <u>70</u> 0 12,741	12:741)
16.	Landing Collar	5 1/2	4.892 4.892		P-110	1 The grade of the second of t	CDC	1.57,	12,741	12,750 4 (12,751)
1.500	1 Casing Joint	5 1/2	4.892	17.00			CDC	40.62	12,751	12,792
H	1 Float Collar	5 1/2	4.892		P-110	12 125 2 125	CDC	2.00	12,792	12,794)
C	2 Casing Joint	5 1/2	4.892		P-110	112	CDC	82.50	12,794	12,876
~~~	1 Float Shoe	5 1/2	4.892	17.00	P-110	12.	CDC	- 1.78	12,876	12,878
				ę						
	· · · · · · · · · · · · · · · · · · ·			٠,٠				* * ;		•
L			<u> </u>	جوء <u>دخود د م د د .</u>				* · · · · · · · · · · · · · · · · · · ·		أميد من من
ı	E CONTRACTOR			Pa	ige 1/3	Amount of the Amount of the Control			Report Prin	nted: 3/17/2015
÷	<u> </u>		<del> </del>		<u> </u>	***********	<u> </u>		Company and Jon 1 also 1 also 144	mental process and constations



Maria escience				Surface Casing Cement
Well Name SKEEN 2-26-27 ST 001H	Lease Skeen 2-26-27	Field Name*  Delaware River		Business Unit Mid-Continent
Ground Elevation (ft) Onginal RKB (ft)		A CONTRACTOR OF THE CONTRACTOR		Mud Line Elevation (ft) Water Depth (ft)
and the second s	the second of th			
Surface Casing Cement, Casin Cementing Start Date	Cementing Er	n ser - Tr	Wellbore + 4 r	
Fvaluation Method	Cement Evaluation Results	7/17/2014	Original Hole	the second secon
Returns to Surface	· · · · · · · · · · · · · · · · · · ·	sacks) lead cement to surface		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
programmed and the second seco	mium plus C cement wi 2% CaCl2	. Mix w/ FW @ 8.33 ppg.	3	
Pump Cement as Follows:	· · · · · · · · · · · · · · · · · · ·			
1) Pressure test lines to 2000 ps 2) Pump 20 bbls gel spacer	<u>.</u>	Ç		
	Plus Cement w/ 2% CaCl at 14.8	ppg 1.347 yield 6.39 gal/sk	\$ 1	
5) Bump plug with 650 psi 6) Bleed off pressure - Floats he	i	· · · · · · · · · · · · · · · · · · ·		
	or to bumping plug 120 psi at 2 bpi	<b>m</b> , ,	- •	
**Note: Pumped 27 bbls (112 sa	acks) of cement to surface	•	• •	
Properties are:		· · · · · · · · · · · · · · · · · · ·		
Slurry Yield - 1:347 ft3/sk Slurry Density - 14.8 ppg		* * * * * * * * * * * * * * * * * * *		The state of the s
Water Requirement - 6:39 gal/sa 17:0:0:0:0ftKB	ack			
Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return? Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	61.0 Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date
Spacer 2007				
Fluid Type Spacer	Fluid Description -	Quantity (sacks)	Class	Volume Pumped (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
Cement Fluid Additives			17	
Addys		al ype		Concurs
2, 0.0-480.0ftKB	Bottom Depth (ftKB)		Tron Plug?	Bottom Plug?
0.0				N Table
Pipe Reciprocated?	0.5 Reciprocation Stroke Length (ft)		Pipe Rotated?	120.0 Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag:Method	$A = \frac{1}{2} A + \frac{1}{2} A$	Drill Out Diameter (in)	Drill Out Date
339	Drill Bit	490.0		12.1/4 7/19/2014
Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lead Estimated Top (ftKB)	Estimated Bottom Depth (ffKB)	Percent Excess Pumped (%)	C _ Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
31.0 Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
Cement Fluid Additives	14.80			3:25
CäCl2	Accelerate			Conc
3 (0.0-0.0ffKB	Loccalciato			2.0
Top Depth (ftKB) 0.0	Bottom Depth (ftKB) 0.0	Full Return? Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	· *	Plug Bump Pressure (psi) 650.0
Ripe Reciprocated?	Reciprocation Stroke Length (ft):	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date



Surface Casing Cement

	. The same of the	and the second s	Surface Casing Cement
Well Name SKEEN 2-26-27 ST 001H	Lease Skeen 2-26-27	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation	Delawate invel	
3,226.00 3,257.00	3,257.00; 3/13/2014	n de la companya del companya del companya de la co	Mud Line Elevation (ft) Water Depth (ft)
		and the state of t	A CONTRACT OF PROCESS AND THE CONTRACT OF PROCESS OF THE CONTRACT OF THE CONTR
Displacement   Fluid Type   Fluid Des	cription (Quantity (sacks	Class	Volume Pumped (bbl)
Displacement	Country (sacks	Class	Volume Pumped (bbl)
	Bottom Depth (ftKB) Percent Excess	Pumped (%) Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
	0.0		
Free Water (%) Density (I	p/gal) Zero Gel Time (	min) Thickening Time (hr)	1st Compressive Strength (psi)
Cement Fluid Additives			
Add		Type and the state of the state	<u>Conc</u>
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		and the state of t	and the second of the second o
		Transfer of the Control of the Contr	
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Electric Strain Control of the Contr	:	Page 3/3	Report Printed: 3/17/2015



Intermediate Casing Cement

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	epth (ft) 🧺
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12 1/4   480.0   8 3/4   2,257.0   2 Vetco Grey on Settimstar ≥ 2  1	14
2. Veltco Grey oil <a href="#">   State   Veltco Grey oi</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	2:25
	12,90
Run Date	V. C.
Run Date	
Page	N STATE
Seriopten   Seri	
Table	
Landing Joint   13 3/8   12.719   48.00   H-40   30.15   31	, 
Landing Joint	
Landing Joint	Btm Depth (N
Pup Joint	透露(ftKB)
Casing Joint	<del></del>
Float Collar	,
Float Shoe	
Set   Description   Wellbore   Casing 1   Planned?-N, 2;279ftKB   Set   Description   Wellbore   Original Hole   Original Ho	
Run Date	
Copin   Copi	20076
Top Cosin Sz   Top Cosin Sz   Top Cosin Sz   Top Thread   Len,(tt)   Top Depth (MD)   Top	,
Landing Joint   9 5/8   8.844   40.00   HCK-55   32.93   31	
Landing Joint   9 5/8   8.844   40.00   HCK-55   32.93   31	Btm:Depth:(N
Liner Pup Joint	(ftKB)
Casing Joint   9 5/8   8.844   40.00   HCK-55   2,134.01   69     Float Collar   9 5/8   8.844   40.00   HCK-55   1.49   2,203     Casing Joint   9 5/8   8.844   40.00   HCK-55   73.27   2,204     Float Shoe   9 5/8   8.844   40.00   HCK-55   1.63   2,277     Float Shoe   9 5/8   8.844   40.00   HCK-55   1.63   2,277     Cuction Casing, Planned? N, 12,878ftKB	
Float Collar   9 5/8   8.844   40.00   HCK-55   1.49   2,203	2,
Float Shoe   9 5/8   8.844   40.00   HCK-55   1.63   2,277	2,
Casing   Casing   Planned? - N. 12,878ft   Stick Up (ftKB)   Stick Up (ftKB)   Casing   Cas	2,
Set Depth (MD) (ftKB)   Sick Up (ftKB)   Set Tension (kips duction Casing   Original Hole   8/6/2014   Set Depth (MD) (ftKB)   12,878   Sick Up (ftKB)   -31.3   Set Tension (kips duction Casing   Original Hole   8/6/2014   12,878   Sick Up (ftKB)   -31.3   Set Tension (kips duction Casing   Original Hole   Original	2,
Scratchers   Copyright   Cop	
Casing Joint   5 1/2   4.892   17.00   P-110   CDC   0.00   31   CDC	,
Casing Joint     5 1/2     4.892     17.00     P-110     CDC     0.00     31       D Landing Hanger     5 1/2     4.892     17.00     P-110     CDC     0.00     31	
Casing Joint 5 1/2 4.892 17.00 P-110 CDC 0.00 31 Landing Hanger 5 1/2 4.892 17.00 P-110 CDC 0.00 31	Btm Depth (M
D Landing Hanger 5 1/2 4.892 17.00 P-110 CDC 0.00 31	(ftKB)
Casing Joint 5 1/2 4.892 17.00 P-110 CDC 7,101.33 31	7,
Marker Joint         5 1/2         4.892         17.00         P-110         CDC         9.03         7,133	7,
Casing Joint 5 1/2 4.892 17.00 P-110 CDC 5,544.42 7,142	12,
Pup 5 1/2 4.892 17.00 P-110 CDC 8.45 12,686	12,
RSI Sleeve 5 1/2 4.892 17.00 P-110 CDC 5.65 12,695	12,
1 Casing Joint 5 1/2 4.892 17.00 P-110 CDC 40.87 12,700 Blank Liner 5 1/2 4.892 17.00 P-110 CDC 8.46 12,741	12,
Blank Liner   5 1/2   4.892   17.00   P-110   CDC   8.46   12,741   Landing Collar   5 1/2   4.892   17.00   P-110   CDC   1.57   12,750	12, 12,
Casing Joint 5 1/2 4.892 17.00 P-110 CDC 1.57 12,750 CDC 1.57	12,
1 Float Collar 5 1/2 4.892 17.00 P-110 CDC 2.00 12,792	12,
2 Casing Joint 5 1/2 4.892 17.00 P-110 CDC 82.50 12,794	12,
1 Float Shoe 5 1/2 4.892 17.00 P-110 CDC 1.78 12,876	12,



 $v_{k+1} \in \{0,1,\dots,k\}_{k+1}$ 

## **Cement Summary**

Chevron	: <b>©</b> (	ement Summ	-	
Well Name	্বি	Field Name	مدأ فالمستاك والمرادي والراب المراجي الماليين المناس المعاديين	rmediate Casing Cement
SKEEN 2-26-27 ST 001H (a) (ft) Original RKB (ft)	Skeen 2-26-27	Delaware River	the second of th	
	3,257.00 3,257.00, 3/13/2014	<u> </u>	Mud Enle	Elevation (it) Water Deput (it)
Intermediate Casing Cement, C				And the second s
Cementing Start Date 7/21/2014	Cementing E	7/21/2014	Wellbore: Original Hole	
Evaluation Method (1994) Returns to Surface	Cement Evaluation Results Circulated 65 bbls (219	sacks) lead cement to surface	and the second s	
Comment Pump 610 sacks of Halcem w/ C	CaCl2 and bentonite and pump 24	40 sacks of Halcem.	· · · · · · · · · · · · · · · · · · ·	
Pump Cement as Follows:	and the second s			
1) Pressure test lines to 3500 ps 2) Pump 10 bbls fresh water spa 3) Pump 20 bbls of Mud Flush III 3) Pump 610 sacks of Econocen 5) Pump 240 sacks of Halcem a	icer   n:w/ 4% Bentonite and 1% CaCi2	2 at 13.7 ppg 1.668 yield 8.67 g	al/sk	
5) Drop top plug and displace ch 6) Bump plug with 1127 psi (417 7) Bleed off pressure -*Floats he	nt ŵ/ 165 bbls of FW at 8.33 ppg psi over final circulating pressun ld, had 1 bbl bleed back	ē)		
8) Final circulating pressure prior **Note: Pumped 65 bbls (219 sa	Asian sagagner and the transfer	bpm	•	
Properties are: Lead Slurry Yield - 1.668 ft3/sk Lead Slurry Density, 13.7 ppg Lead Water Requirement - 8.67	Tail Slurry Dens	d - 1.326 ft3/sk ity - 14.8 ppg- uirement - 6.34 gal/sack		
17,≤depthtop>≤depthbtm>ftKE	Bottom Depth (ftKB)	Full Return?   Vol Cement Ret (bbl)	Top Dive?	Deltan Diva?
	Final Pump Rate (bbl/min)	N : The state of t	Y	Bottom Plug?
Initial Pump Rate (bbl/min) 5	5	Avg Pump Rate (bbl/min) 5	115.0	
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date
Preflush Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Preflush Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	20.0 Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
Cement Fluid Additives	8.40			
Add	THE STREET OF THE STREET STREET, AND ADDRESS OF THE STREET, AND ADDRESS OF	.Type∮.		Conc
2,0.0-1,241.0ftKB				1 A. A. A.
Top Depth (ftKB) 0.0	Bottom Depth (ftKB) 1,241.0	Full Return? Vol Cement Ret (bbl) Y 65.0	Tap Plug?	Bottom Plug?
Initial Pump Rate (bbl/min) 7	Final Pump Rate (bbl/min) 7	Avg Pump Rate (bbl/min) 7	Final Pump Pressure (psi) 268.0	Plug Bump Pressure (psi)
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? N	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date
Lead.	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)		268.0 Fluid Mix Ratio (gal/sack)
0.0	1,241.0		1.67 Thickening Time (hr)	8.67  1st Compressive Strength (psi)
	13.70		4.00	1st Compressive Strength (psi) 500.0
Cement Fluid Additives Add	CONTRACTOR AND	NType)		Conc
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## Chevron

#### **Cement Summary**

#### Intermediate Casing Cement

Well Name SKEEN 2-26-27 ST 001H	Lease   Skeen 2-26-27	Field Name Delaware River	Business Mid-Co	Unit المراقبة المراق
Ground Elevation (ft) Original RKB (ft	3,257.00 3,257.00, 3/13/2014		Mud Line	Elevation (ft) Water Depth (ft)
3,11,241 0°2,257 0ftKB	Bottom Depth (fiKB)	Full Return?   Vol Cement Ret (bbl)	Top Plug?	Bottom Pluq?
1,241.0		N, 3, 3, 3, 3	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	252.0 Pipe Rotated?	Pipe RPM (rpm)
N Pepth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	ந்திரும் புர்விளர் கண்டிரி Drill Out Diameter (in)	Drill Out Date
Tail Fluid Type	Fluid Description	Quantity (sacks)		Volume Pumped (bbl)
Tail Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	240	Class C Yield (ff³/sack)	Fluid Mix Ratio (gal/sack)
1,241.0 Free Water (%)				6.34
Cement Fluid Additives	THE COURT ASSESSMENT OF THE PROPERTY OF THE PR		2.50	500.0
Add		Туре	THE STATE OF THE S	# IGonc
4, < depthtop> < depthbtm>ftKE Top Depth (ffKB)	Bottom Depth (ftKB)	Full Return? Vol Cement Ret (bbl)	1 1 2	Bottom Plug?
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	N Avg Pump Rate (bbl/min) 3.5	Final Pump Pressure (psi) 710.0	N Plug Burnp Pressure (psi) 1 127 0
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	1,127.0 Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date
Displacement Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)"	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.34	Zero GeliTime (min)	Thickening Time (hr)	1st Compressive Strength (psi)
Cement Fluid Additives		Type of 2 2 2 2		Conc
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. American			•	· · · · · · · · · · · · · · · · · · ·
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NAME OF A STORY OF STREET		Page 3/3	·	Kepoπ Printed: 3/17/2015

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## y Cement Summary

Production Casing Cement

	कुम्ब								Pr	oduction Ca	asing Ceme
Well Name SKEEN 2-2627 ST 001H	4 4 12	ease Skeen 2-26-2	7	त्रं ्वक्रिकेट व्युक्त • लक्ष्येर श्रमाति	Field Name Delaware	Pivor	1.83	5.6.	Business Mid Co	Unit ntinent	110 1 1 115
GroundElevation(t)	3 (ft)	urrent RKB Eleva	ation	and the second second	Delawale		**************************************	<u>an distribution de la compa</u>			ater Depth (ft)
3,226.00	3,257.00 3	3,257.00, 3/13	3/2014		٠٠		. 1. Th.	1	1	- are or appropriately are.	en english english en
Original Hole States				#17.4%		AC ACTO	*******	TALE V. F.		2020	
Wellbore Name		irectional Type			Kick Off Dept	h (ftKB)	Tall No. 10 f	7.056	I .	ction Direction (°)	404
Original Hole		lorizontál-	Central	Act To	p (fiKB)	C. F. FILLS		7,256		Act Btm (ftKB)	181.
A Company of the Comp		20	TOTAL COMPANY OF STATE OF STAT	334 416 35 617	and the standard	Story 19 12, 1 de later y ex cri se.		Markey Control			142
		17 1/2		75 1380 J	ester to	4 L Edgy 29.	142.0	F 13		। भागांची ।	. 1 480
		12 1/4					480.0			~~~	2,257
	and the second second	8 3/4	ras an eager streets	Cover Shartserver	STORESTORE STORES		257:0	Charles Con Con	News or American	STREET TOTAL STREET	12,905
SH-2;Vetco Grey on ≤dttms	tart>		Marie Control		Install Date						<u> </u>
SH-2		t james		est, there are	La series of	t Tigagaran para a	a de la composición dela composición de la composición dela composición de la compos	refreeze a d	The street of	त्र प्राप्ताः । की	14 (16) (16) (16) (16) (16) (16) (16) (16)
ALLES TOPO OF CREATE D	Mak	e de la companya de l	Mo	del / Sur Service	1	WP (psi)	Mar v	Se All Se	rvice		ST SN
Surface, Planned? N. 493ftk	PERM		Market Art Art Art Art Art Art Art Art Art Ar	V.,41		arriae	95000000	9 6 20 M F3	12.V = 12.W		
Casing Description We	ellbore	and the state of t	Run Date	SECTION OF THE PARTY.	Set Depth (M	THE PERSON NAMED IN COLUMN TWO IS NOT	₹ Stic	ck Up (ftKB)		Set Tension	(kips)
Surface Or Centralizers	riginal Hole		7/17/	/2014	Scratchers 3	en Variation	493			-30.9	? : :===================================
,	<u>'t</u>	·			, coratolers "				¥.	ta the same	وه مستخدوس <u>، م</u> حرم ند
Jts / Jitem Des -		e dOD (in) #:	1D (in)	#Wi (lb/fi)	Grade	Top Conn Sz	Top:Threa	id Pro Lei	) (ft) # = , th	Top Depth (MD)	Btm Depth (MD
1 Landing Joint		13-3/8	12,719	48.00	* ***	Ý.			30.15	3,1	1
1 Pup Joint	entered on the results	13 3/8	712:719		H-40	` · · · · .	(4.19.7.3)	THE STATE OF STREET	· · · 4.65	6′	
'8 Casing Joint	ويستح ما مي	13.3/8	12.719	48.00	a defining to		d	1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 -	344.09	. 66	1 (23)
1 Float Collar	N 19 90 9 900	13 3/8	12.719	48.00	1.5		ļ	1	1.06	410	
2 Casing Joint 1 Float Shoe		13 3/8 13 3/8	12.719	48.00° 48.00	41 Te 142 1	31	ļ		81,44, 0.73	341. 492	
Intermediate Casing 1 Plan	ned2.N 2.2.2	me fe anna et em miliante	manufacture toward the c	70.00					0.75		
Casing Description We	ellbore	June	Run Date	P A TE KES	Set Depth (N	ID) (ftKB)		ck Up (ftKB)		Set Tension	(kips)
Intermediate Casing 1 O	riginal Hole		7/21		Scratchers		2,279			-30.8	. 1947
21	1.	เห็นอ	9.6		Scratchers			, ,,,			विद्या । प्रशेषा
#Jts2		v OD (in)	al all (in)	≵ "Wt"(ib/ft)	J Grade J &	Top Conn Sz	Top:Three	id to the	(n) - F	Top Depth (MD)	Btm Depth (MD
1 Landing Joint		, 9 5/8	8.844		HCK-55	1			32.93	.3	
1 Liner Pup Joint		:9`5/8	8!844	ľ	HCK-55	note : 1			4.83	·62	the contraction
55 Casing Joint	1	9 5/8	8.844		HCK-55		4		;134.01	69	CHART
1 Float Collar		9,5/8	8.844 8.844		HCK-55	0.284-1.41	Ψ	2 25 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	72.07	.2;203	2 1250
2 Casing Joint	e-1	9 5/8 9 5/8	1981. 2		HCK-55		\$1 ° (3		73.27 1.63	2,204	and the second of seconds
1 Float Shoe	2 N 12 878			40.00	HCK-55			a managaran		2,27	
Casing Description We	ellbore		Run Date		Set Depth (M	ID) (ftKB)	Stic	ck Up (ftKB)	1	Set Tension	(kips)
Production-Casing Or Centralizers	riginal Hole	1 12 4	* *8/6/	2014	Scratchers	en e na marie an e	12,878	e had catalogue		-31:3	Mr. of Mar Paris ver
to the second of						r .	.,	op Agrana		(1) ·	
r/Jts/k / / / / / / / / / / / / / / / / / /		OD (in)	A.G. ID (in)	Wt (lb/ft)		<b>國</b> 麗(in) 温度	Top Threa		<u>1</u> (ft)	Top Depth (MD)	Btm Depth (MD
O Casing Joint	ign St	5.1/2	<b>3-4.892</b>		P-110**		CDC ~ 7		0.00	3	DEC MAN
0 Landing Hanger		5 1/2	4.892	17.00	AND THE PERSON NAMED IN	4	CDC		0.00	3,	
176 Casing Joint		5 1/2 5 1/2	4.892	l .	P-110	1	CDC	1	,101.33	3,	1 7,1
137 Casing Joint		5 1/2 5 1/2	4.892 4.892		P-110 P-110	- 100.	CDC 1		9.03 544.42	7,130	
1 Pup	managed to a second of	5 1/2	4.892	T. 1047	P-110	*** ***	CDC	1	8.45	7,142 12,680	
1 RSI Sleeve	1 10 fm + + + + + + + + + + + + + + + + + +	5 1/2	4.892	17.00		South and provide the state of	CDC	NO SECTION	5.65	12,69	
1 Casing Joint		5 1/2	74.892		P-110 +	F	CDC		·40.87	12,700	141
1 Blank Liner		5 1/2	4.892		P-110	Adoption II co	CDC	and in fact, to a	8.46	12,74	
1 Landing Collar	<i>j</i>	5 1/2	4.892		P-110		CDC		1.57	12,750	12,7
1 Casing Joint	au ug · · · · · · · · · · · · · · · · · ·	5 1/2	4.892		1	779	CDC	ું પૂર્વજુ	40.62	12,75	
1 Float Collar		5 1/2	4.892		P-110		CDC	-144 -244	2.00	12,792	
2 Casing Joint	gg handeling Gran Samerana	5.1/2	4.892 4.892	17.00 17.00	10 m 62 kg		CDC;	and agains a sa against an ann an	82.50	12,794	277.456
Float Singe		5 1/2	4:892	17:00	er FIO		TODO!		1.78	12,876	12,8
L					and a make the con-	per grant or	*****			and production of	



**Production Casing Cement** 

Well Name SKEEN 2-26-27 ST 001H	Lease 'Skeen 2-26-27	Field Name	Business Unit	
Ground Elevation (ft) T. Original RKB (f	ft), Current RKB Elevation 3,257.00 3,257.00, 3/13/2014	CALLS BESIGN 91'   Delaware River	ነር ' Mud Line Elevation (ft)	Water Depth (ft)
Production Casing Cement C	Shapmanian of the community with the state of the state o			
- Cementing Start Date	Cementing E	nd Date, 8/8/2014	Wellbore Original Hole	Company of the compan
Evaluation Method	Cement Evaluation Results*	21 sks ) lead cement to surface	Original note	- 學就在 2017年
Comment	PB1, 2.54 yeild, 10% fe-2; 10% fw	and the second of the second o	Section 18	
		r:50% halad r=344, :30% cfr-3, 3lbm kol	Legal* 05% fo 2°	اله مديد منه د د منه منه سد
of the state of the second	And the second state of th	, with 70% halad r-344 10lbm silicalite.	ومحمر سروهم والمنافية الأبرانية	
1; <depthtop><depthbtm>ftK</depthbtm></depthtop>	B			
Top.Depth (ffKB)	Bottom Depth (ftKB)	Full Return? - Vol Cement Ret (bbl) Top Pl	<u></u>	N
Initial Pump Rate (bbl/min) Pipe Reciprocated?	Final Pump Rate (bbl/min), s	5.5	Runp Pressure (psi) Rlug Bump Pre 80.0 Rlug Bump Pre 80.0 Rlug Bump Pre RPM (rpm	Stady of the
N. Depth Tagged (MD) (ftKB)	Tag Method		Rotated?  N  Pipe RPM (rpm	41
	rag welliou	Deput Flug Dillied Out to (IIAB)	ut Diameter (iii)	
Fluid Type	Fluid Description	Quantity (sacks) Class	Volume Pumpe	ed (bbl)
Lead Estimated Top (ftKB) * ?	Estimated Bottom Depth (ftKB)		ft³/sack): Fluid Mix Ratio	(gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min) Thicke	ning Time (hr) 1st Compressiv	ve Strength (psi)
Cement Fluid Additives	the state of the second st	The state of the s		
P.S. Adda.	And the second s	Type Target Targ	Concession of the second	
2, < depthtop > 7,320.0ftKB Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return? (Vol Cement Ret (bbl) Top Pl	lug? Bottom Plug?	
Initial Pump Rate (bbl/min)	7,320.0		N Pump Pressure (psi) Plug Bump Pre	N ssure (psi)
Pipe Reciprocated?	Reciprocation Stroke Length (ft)		8 317.0 Pipe RPM (rpm	1
N f. Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Orilled Out To (ftKB)	ut Diameter (in) Drill Out Date	1 200
≤tÿp≥		6 -53-43 v. 42 a. (2) - 3 - 3 - 2 - 2		
Fluid Type	Fluid Description	Quantity (sacks) Class	Volume Pumpe	ed (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	the said the said of the said	ft²/sack) Fluid Mix Ratio	(gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min) Thicke	ning Time (hr) 1st Compression	ve.Strength (psi)
Cement Fluid Additives	ACCOUNT OF STREET OF STREET OF STREET OF STREET OF STREET	Type	ALLEGA DE SERVICIO DE LA CARROLISTA DE L	
3,7,320.0-11,920.0ftKB				
Top Depth (ftKB) 7,320.0	Bottom Depth (ftKB)	Full Return? ' Vol Cement Ret (bbl) Top Pl	lug? ++: Bottom Plug?	N.
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	1 2 2 2 4	Pump Pressure (psi) Plug Bump Pre	essure (psi)
Pipe Reciprocated?	Reciprocation Stroke Length (ff)		Pipe RPM (rpm	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	ut Diameter (in) Drill Out Date	
<b>≦typ&gt;</b> Fluid Type (A:)	Fluid Description	Quantity (sacks)	Volume Pumpe	ed (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	an ang allan a an a fami a man ana ana an an ana ana an an an an an	(gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	manager a company property of the company property property property property of the company property	ve Strength!(psi)
Cement Fluid Additives				
Add		Type Salar S	Conc #	
A second of the	<u>and the second of the second </u>	the Committee of the Co	The state of the s	an ili a saa saga — <del>essenya</del> — e — ♥ <sub>1</sub> ,
	·			<u> </u>
Stuber & Constant will be		Page 2/3	Report	Printed: 3/17/2015



#### **Production Casing Cement**

L. CREET, F. T.					2.5	•
Well Name,		Lease		Field Name	Business Unit	
SKEEN 2-26-27 ST	001H	Skeen 2-26-27		Delaware River	Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation			Mud Line Elevation (ft)	Water Depth (ft)
3,226.00	3,257.00	3,257.00, 3/13/2014	:			

4,11,920.0-12,884.0ftKB						The state of the s
Top Depth (ftKB)		Full Return?	Vol Cement Ret (bbl)	Top Plug?	A	Bottom Plug?
11,920.0	12,884.0	N			Ν	N
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/r	nin)	Final Pump Pressur	e (psi)	Plug Bump Pressure (psi)
·			4		145.0	
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	tion Stroke Length (ft) Reciprocation Rate (spm)		Pipe Rotated?		Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)		Drill Out Date
≤typ≥ * **					The Later of	
Fluid Type	Fluid Description	Quantity (sacks)		Class		Valume Pumped (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)		Yield (ft³/sack)		Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)		Thickening Time (hr)		1st Compressive Strength (psi)
Cement Fluid Additives	<u> </u>	<u> </u>		<u> </u>		
bbA		Ty	pe			