

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.*

AUG 3 2015

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NNMM113941
2. Name of Operator CHEVRON U.S.A. INC.		6. If Indian, Allottee or Tribe Name
3a. Address 15 SMITH ROAD MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-687-7415		8. Well Name and No. SKEEN 22 26 26 FED COM 7H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T26S R26E Mer NMP 402FSL 660FEL		9. API Well No. 30-015-42889
		10. Field and Pool, or Exploratory WELCH; BONE SPRING
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

2/13/15-2/14/15- Drilled 139'-446'

2/14/15- Ran 13 3/8", 48lb, H-40 STC surface csg set @ 436'. Cmt w/ 20 bbl spacer, 550 sx class C w/ 2% CACL 14.8 ppg tail, 1.35 yield, 8.4 ppg fw mix, displace w/ 57 bbls fw @ 8.33 ppg, bump plug w/ 500 psi over final circulating pressure. Final circulating pressure prior to bumping plug 216 PSI @ 3 bpm

2/16/15- Test csg to 1200 psi for 30 minutes.

2/16-2/25/15- Drill 456'-6986'

2/26/15- Ran 9 5/8", 43.5lb, HCP110, LTC intermediate csg set @ 6978'. Stage 1: Cmt w/ 20 bbls spacer, 1455 sx of 12.9 ppg lead, 305 sx 14.8 ppg tail, 513 bbls of fw displacement w/ red dye.

Bump plug @ 974 PSI, pressure up to 640 PSI. 238 sx cmt to surface. Stage 2: Cmt w/ 20 bbl spacer, 1135 sx 12.9 ppg lead, 65 sx 14.8 ppg tail, 141 bbls of fw displacement, bump plug @ 1722 PSI, Run Temp Log to 575' measured depth, TOC @ 129' measured depth. Final pump pressure 7 bpm @ 520 PSI

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 3 2015

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Accepted for record
JES NMCCD 8/12/15

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #306727 verified by the BLM Well Information System For CHEVRON U.S.A. INC., sent to the Carlsbad Committed to AFMSS for processing by DEBORAH HAM on 07/13/2015	
Name (Printed/Typed) BRITANY CORTEZ	Title REGULATORY SPECIALIST		
Signature (Electronic Submission)	Date 06/25/2015	ACCEPTED FOR RECORD JUL 28 2015 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By	Title	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Additional data for EC transaction #306727 that would not fit on the form

32. Additional remarks, continued

3/1/15- Trip in hole to 6864' TOC. Test csg to 1500 PSI for 30 min. Good test.
3/2/15- Pump squeeze cmt @ 2bpm. 4 bbls mud, 5 bbls spacer, 30 bbls 14.8 ppg cement, 5 bbls spacer, 76 bbls mud, hold 600 PSI on backside. Sting into cmt retainer 49 bbls mud wait 5 mins, 2 bbls mud wait 30 mins, 1 bbl mud held pressure at 270 PSI. 2 bbls cmt left inside of shoe. Tag cmt retainer @ 6770', Tag cmt stringer @ 6971', drill to 6995'.
3/4/15- Perform Squeeze job- 10 bbls spacer, 19 bbls of 15.6 ppg cmt @ 4 bpm, displace w/ 113 bbls active mud, perform hesitation squeeze job, 1 bbl @ 0.3 bpm 355/304 wait 30 min, 1 bbl @ 0.3 bpm 930/775 wait 30 min
3/5/15- Hesitation squeeze job 1 bbl @ 0.3 bpm wait 30 mins, 1 bbl @ 0.3 bpm wait 30 mins, 0.7 bbls @ 0.3 bpm hold 1200 PSI for 1 hour, Release w/ 1215 PSI.
3/5/15-3/7/15- Drill 6702'-8690'
3/8/15- Ran quad combo log to 8690', pump 1st cmt plug from 8690-8190, test to 3000 psi, 20 bbl spacer, 276 sx of 17.5 ppg cmt
3/9/15- WOC. Tag cmt @ 8214', Pump 2nd cmt plug, test to 3000 PSI, 20 bbl spacer, 295 sx 17.5 ppg cmt
3/10/15- 3/27/15- Drill 7512'-15710'
3/29/15- Ran 5 1/2" 17 lb, CDC production csg set @ 15700'
4/1/15- Cmt w/ 10 bbl spacer, 20 bbl tuned spacer, 300 sx 11.3 lb lead, 996 sx 12.5 lb lead 2, 105 sx 15 lb tail, 365 bbls fw displacement, bump plug w/ 500 PSI over @ 1554 PSI. Final pump rate 4 bpm @ 1056 PSI.
4/2/15- Released rig @ 03:30 hrs



Reservoir Development
Drilling & Measurements
 4301 SW 44th St
 Oklahoma City, Oklahoma 73119 USA
 Phone: (405) 682-2284
 Fax: (405) 682-3937

NM OIL CONSERVATION
 ARTESIA DISTRICT

APR 17 2015

April 2, 2015

Chevron North America Exploration & Production Co.

RECEIVED

1400 Smith St.
 Houston, TX 77002

Re:

CLIENT: Chevron U.S.A. Inc.
 WELL: Skeen 22 26 26 Federal.COM 7H ST01
 FIELD: Welch; Bone Spring
 RIG: Ensign 767
 COUNTY: Eddy
 API NO: 30-015-42889-01
 JOB NO: 15MLD1324

S22-T26S-R26E Eddy NM
 N 32.03786 W 104.46035

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation.
 Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Riley Swanston FET	Skeen 22 26 26 Federal COM 7H ST01 Side Track	9194.00 Ft to 15671.00 Ft	March 20, 2015 to March 27, 2015	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
 Sincerely,

Qun Xu
 Field Service Manager

Accepted for record
 4/20/15

Reservoir Development

Drilling & Measurements

4301 SW 44th St.

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

Well Reference:

S22-T26S-R26E Eddy NM

N 32.03786 W 104.46035

I, Riley Swanston certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 20, 2015 through March 27, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 9194.00 feet to a depth of 15671.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Chevron U.S.A. Inc. for the Skeen 22 26 26 Federal COM 7H ST01 Well (Side Track) API No. 30-015-42889-01 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

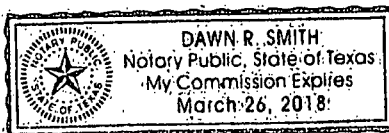
By
Riley Swanston
FET



Subscribed and Sworn to before me this 2nd day of April (month) 2015 (yr)

My Commission expires:

March 26, 2018



Dawn R. Smith
Notary Public

(signature)

Midland, Texas
(County State)

SCHLUMBERGER
Survey Report

7-Apr-2015

Client..... Chevron U.S.A. Inc.
Field..... Welch: Bone Spring
Well..... Sleen 22 26 Federal COM 7H ST01
API number..... 30-015-42889-01
Engineer..... R. Swanson
County..... Eddy
State..... New Mexico
Rig..... Ensign 767
Spud date..... 21-Oct-14
Last survey date..... 27-Mar-15
Total accepted surveys..... 69
MD of first survey..... 9194.00 ft
MD of last survey..... 15671.00 ft
Latitude..... 32.021631
Longitude..... -104.27373

Survey calculation methods.....
Method for positions..... Minimum curvature
Method for DLS..... Lubinski

Depth reference.....
Permanent datum..... MSL
Depth reference..... Driller's Depth
GL above permanent..... 3406.00
KB above permanent..... 3437.00
DF above permanent..... 3437.00

Vertical section origin.....
Latitude (+N/S)..... 0.00 ft
Departure (+E/W)..... 0.00 ft

Grid Coordinates.....
NAD27 Texas State Plane, Central Zone, US Feet
X..... 518473.00 ft
Y..... 371601.00 ft

Azimuth from Vsect Origin to target: 359.82 degrees

MWD Survey Reference Criteria

Run1..... Calculation Date: 19-Mar-2015
Location G..... 998.94325 mgn
Location B..... 47980.52 nT
Tolerance G..... 2.50 mgn
Tolerance B..... 300.00 nT
Magnetic Dip: 59.7712 degrees
Tolerance Dip: 0.45 degrees

Run2..... Calculation Date: 20-Mar-2015
Location G..... 998.94325 mgn
Location B..... 47980.18 nT
Tolerance G..... 2.50 mgn
Tolerance B..... 300.00 nT
Magnetic Dip: 59.7711 degrees
Tolerance Dip: 0.45 degrees

Run3..... Calculation Date: 24-Mar-2015
Location G..... 998.94325 mgn
Location B..... 47978.89 nT
Tolerance G..... 2.50 mgn
Tolerance B..... 300.00 nT
Magnetic Dip: 59.7708 degrees
Tolerance Dip: 0.45 degrees

BGGM Model: 2014

Run1.....
Magnetic dec (+E/W)..... 7.6097 degrees
Grid Conv (+E/W)..... 0.0297 degrees
Total Azim Corr (+E/W)..... 7.58 degrees

Run2.....
Magnetic dec (+E/W)..... 7.6095 degrees
Grid Conv (+E/W)..... 0.0295 degrees
Total Azim Corr (+E/W)..... 7.58 degrees

Run3.....
Magnetic dec (+E/W)..... 7.6084 degrees
Grid Conv (+E/W)..... 0.0284 degrees
Total Azim Corr (+E/W)..... 7.58 degrees

Survey Correction Index Description

0 = Uncorrected
1 = Sag Corrected
2 = DMAG Corrected
3 = Sag + DMAG Corrected

Seq MD Incl Azi Course TVD V Sec N/S E/W Closure at Azi Tool Correction

	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100ft)		
1	0.00	0.00	0.00	0.00	-999.25	0.00	-1.46	-1.47	0.00	0.00	0.00	0.00	TIP	0
2	436.00	0.85	242.89	436.00	435.98	-1.46	-1.47	-1.47	0.00	0.00	242.89	0.19	Other	14
3	588.00	1.10	240.61	152.00	587.96	-2.59	-2.70	-2.70	-5.15	5.82	242.32	0.17	Other	14
4	771.00	1.15	237.12	183.00	770.93	-4.54	-4.56	-4.56	-8.23	9.41	240.99	0.05	Other	14
5	955.00	1.41	253.22	184.00	954.88	-6.18	-6.22	-6.22	-11.94	13.47	242.50	0.24	Other	14
6	1144.00	1.93	252.97	189.00	1143.80	-7.77	-7.82	-7.82	-17.21	18.91	245.56	0.28	Other	14
7	1332.00	0.94	216.74	188.00	1331.74	-9.92	-9.98	-9.98	-21.16	23.4	244.74	0.69	Other	14
8	1521.00	1.85	139.07	189.00	1520.70	-13.47	-13.53	-13.53	-20.09	24.22	236.04	1.00	Other	14
9	1647.00	3.12	121.37	126.00	1646.58	-16.80	-16.85	-16.85	-15.83	23.12	223.21	1.17	Other	14
10	1710.00	2.78	112.30	63.00	1709.49	-18.29	-18.33	-18.33	-12.95	22.44	215.25	0.92	Other	14
11	1899.00	1.20	109.36	189.00	1898.37	-20.70	-20.72	-20.72	-6.85	21.82	198.28	0.84	Other	14
12	2089.00	1.58	114.48	190.00	2088.32	-22.46	-22.47	-22.47	-2.59	22.62	186.56	0.21	Other	14
13	2278.00	1.52	107.69	-189.00	2277.25	-24.31	-24.31	-24.31	2.17	24.41	174.89	0.10	Other	14
14	2467.00	1.43	117.62	189.00	2466.19	-26.18	-26.16	-26.16	6.65	27	165.73	0.14	Other	14
15	2655.00	0.96	123.86	188.00	2654.15	-28.16	-28.13	-28.13	10.04	29.87	180.36	0.26	Other	14
16	2844.00	0.29	172.81	189.00	2843.13	-29.52	-29.48	-29.48	11.41	31.62	158.84	0.42	Other	14
17	3033.00	0.42	241.97	188.00	3031.13	-30.31	-30.28	-30.28	10.86	32.17	150.26	0.22	Other	14
18	3221.00	0.73	238.53	189.00	3220.12	-31.26	-31.23	-31.23	9.23	32.57	153.54	0.16	Other	14
19	3411.00	0.73	226.99	190.00	3410.11	-32.72	-32.69	-32.69	7.31	33.5	167.40	0.08	Other	14
20	3600.00	0.48	231.68	189.00	3599.10	-34.02	-34.00	-34.00	5.81	34.5	170.31	0.13	Other	14
21	3789.00	0.77	238.47	189.00	3788.08	-35.17	-35.16	-35.16	4.10	35.4	173.34	0.16	Other	14
22	3978.00	0.89	195.20	189.00	3977.07	-37.25	-37.24	-37.24	2.54	37.33	175.95	0.33	Other	14
23	4167.00	0.86	191.11	189.00	4166.04	-40.05	-40.05	-40.05	1.98	40.1	177.17	0.04	Other	14
24	4356.00	0.74	209.26	189.00	4355.03	-42.51	-42.51	-42.51	1.11	42.52	178.51	0.15	Other	14
25	4544.00	0.79	208.79	188.00	4543.01	-44.70	-44.70	-44.70	-0.11	44.7	180.14	0.03	Other	14
26	4733.00	0.69	209.12	189.00	4731.99	-46.83	-46.84	-46.84	-1.29	46.85	181.58	0.05	Other	14
27	4921.00	0.77	194.78	188.00	4919.98	-49.04	-49.05	-49.05	-2.16	49.09	182.53	0.11	Other	14
28	5016.00	0.80	210.25	95.00	5014.97	-50.23	-50.24	-50.24	-2.66	50.31	183.03	0.22	Other	14
29	5110.00	0.76	202.28	94.00	5108.96	-51.37	-51.38	-51.38	-3.23	51.48	183.59	0.12	Other	14
30	5299.00	1.02	224.93	189.00	5297.94	-53.49	-53.51	-53.51	-5.08	53.75	185.42	0.30	Other	14
31	5488.00	1.29	315.98	189.00	5486.91	-52.82	-52.84	-52.84	-7.94	53.53	188.52	0.80	Other	14
32	5677.00	1.15	309.76	189.00	5675.87	-50.17	-50.20	-50.20	-10.87	51.36	192.22	0.10	Other	14
33	5865.00	1.29	258.04	188.00	5863.83	-49.39	-49.43	-49.43	-14.39	51.48	196.23	0.57	Other	14
34	6054.00	1.24	218.38	189.00	6052.79	-51.17	-51.23	-51.23	-18.00	54.3	199.36	0.34	Other	14
35	6148.00	2.58	212.85	94.00	6146.73	-53.62	-53.68	-53.68	-19.91	57.26	200.35	1.52	Other	14
36	6243.00	1.61	191.36	95.00	6241.67	-56.72	-56.79	-56.79	-21.33	60.66	200.59	1.30	Other	14
37	6337.00	1.00	169.19	94.00	6335.65	-58.82	-58.89	-58.89	-21.44	62.67	200.00	0.83	Other	14
38	6432.00	0.65	188.90	95.00	6430.64	-60.17	-60.24	-60.24	-21.37	63.91	199.53	0.47	Other	14
39	6526.00	0.90	218.53	94.00	6524.63	-61.27	-61.34	-61.34	-21.91	65.14	199.65	0.49	Other	14
40	6621.00	0.31	271.44	95.00	6619.62	-61.85	-62.02	-62.02	-22.81	66.08	200.08	0.79	Other	14
41	6715.00	0.16	145.65	94.00	6713.62	-61.95	-62.02	-62.02	-22.81	66.08	200.19	0.45	Other	14
42	6808.00	0.32	14.86	93.00	6806.62	-61.80	-61.88	-61.88	-22.67	65.9	200.12	0.47	Other	14
43	6901.00	0.93	50.92	93.00	6899.62	-61.08	-61.15	-61.15	-22.02	64.99	199.80	0.75	Other	14
44	7024.00	1.08	40.05	123.00	7022.60	-59.57	-59.63	-59.63	-20.50	63.06	198.97	0.20	Other	14
45	7088.00	1.02	52.18	64.00	7086.59	-58.76	-58.82	-58.82	-19.66	62.02	198.48	0.36	Other	14
46	7182.00	1.13	63.36	94.00	7180.57	-57.84	-57.89	-57.89	-18.17	60.68	197.42	0.23	Other	14
47	7277.00	1.23	74.98	95.00	7275.55	-57.16	-57.21	-57.21	-16.35	59.5	195.95	0.27	Other	14
48	7371.00	0.95	96.76	94.00	7369.53	-56.99	-57.04	-57.04	-14.60	58.88	194.36	0.53	Other	14
49	7466.00	0.67	89.67	95.00	7464.52	-57.09	-57.13	-57.13	-13.26	58.65	193.07	0.31	Other	14
50	7560.00	1.21	107.25	94.00	7558.51	-57.38	-57.42	-57.42	-11.76	58.61	191.58	0.64	Other	14
51	7655.00	1.02	104.90	95.00	7653.49	-57.50	-57.93	-57.93	-9.99	58.79	189.78	0.21	Other	14
52	7685.00	2.85	8.20	30.00	7683.48	-57.23	-57.27	-57.27	-9.62	58.07	189.54	10.46	Other	14
53	7771.00	6.11	358.49	86.00	7769.21	-50.54	-50.57	-50.57	-9.44	51.45	190.57	3.88	Other	14
54	7865.00	4.59	356.01	94.00	7862.79	-41.79	-41.82	-41.82	-9.83	42.96	193.23	1.64	Other	14
55	7897.00	4.31	3.55	32.00	7894.70	-39.31	-39.34	-39.34	-9.85	40.55	194.05	2.02	Other	14
56	7928.00	4.22	1.61	31.00	7925.61	-37.01	-37.04	-37.04	-9.74	38.3	194.74	0.55	Other	14
57	7959.00	6.65	353.68	31.00	7956.47	-34.08	-34.11	-34.11	-9.91	35.52	196.20	8.19	Other	14
58	7991.00	10.66	350.22	32.00	7988.10	-29.32	-29.35	-29.35	-10.62	31.21	199.88	12.63	Other	14
59	8023.00	15.12	354.47	32.00	8019.29	-22.24	-22.28	-22.28	-11.52	25.08	207.35	14.24	Other	14
60	8054.00	17.50	356.61	31.00	8049.04	-13.56	-13.60	-13.60	-12.19	18.26	221.86	7.92	Other	14
61	8085.00	21.28	1.46	31.00	8078.28	-3.28	-3.32	-3.32	-12.32	12.76	254.92	13.24	Other	14
62	8117.00	24.00	2.18	32.00	8107.81	9.03	8.99	8.99	-11.92	14.93	307.02	8.54	Other	14
63	8148.00	25.84	3.02	31.00	8135.92	22.07	22.04	22.04	-11.33	24.78	332.80	6.04	Other	14
64	8180.00	29.20	1.66	32.00	8164.30	36.84	36.81	36.81	-10.73	38.34	343.74	10.68	Other	14
65	8211.00	33.96	0.13	31.00	8190.70	53.07	53.04	53.04	-10.50	54.06	348.81	15.57	Other	14
66	8243.00	37.81	359.78	32.00	8216.62	71.82	71.79	71.79	-10.51	72.55	351.67	12.05	Other	14
67	8274.00	40.94	359.17	31.00	8240.58	91.48	91.45	91.45	-10.70	92.08	353.33	10.17	Other	14
68	8306.00	43.29	359.03	32.00	8264.31	112.94	112.91	112.91	-11.03	113.45	354.42	7.35	Other	14
69	8337.00	45.88	359.33	31.00	8286.39	134.70	134.66	134.66	-11.34	135.14	355.18	8.98	Other	14
70	8369.00	48.65	0.23	32.00	8308.11	158.20	158.17	158.17	-11.43	158.58	355.87	8.90	Other	14
71	8400.00	51.06	1.26	31.00	8328.09	181.89	181.86	181.86	-11.12	182.2	356.50	8.18	Other	14
72	8432.00	53.50	2.08	32.00	8347.67	207.19	207.16	207.16	-10.38	207.42	357.13	7.89	Other	14
73	8464.00	55.99	1.79	32.00	8366.14	233.30	233.27	233.27	-9.50	233.46	357.67	7.82	Other	14
74	8495.00	58.10	2.84	31.00	8383.00	259.28	259.26	259.26	-8.44	259.4	358.13	7.38	Other	14
75	8526.00	60.19	2.80	31.00	8398.90	285.86	285.84	285.84	-7.13	285.93	358.57	6.74	Other	14
76	8558.00	63.37	2.67	32.00	8414.03	314.02	314.00	314.00	-5.79	314.05	358.94	9.94	Other	14
77	8589.00	65.17	2.33	31.00	8427.48	341.91	341.90	341.90	-4.57	341.93	359.23	5.89	Other	14
78	8620.00	67.32	1.89	31.00	8439.97	370.26	370.25	370.25	-3.53	370.27	359.45	7.06	Other	14
79	8652.00	69.58	1.98	32.00	8451.72	400.00	399.99	399.99	-2.52	400	359.64	7.07	Other	14
80	8684.00	71.02	2.29	32.00	8462.51	430.10	430.10	430.10	-1.40	430.1	359.81	4.59	Other	14
81	8715.00	71.93	2.26	31.00	8472.10	459.55	459.55	459.55	-0.23	459.55	359.97	6.16	Other	14

82	8746.00	77.49	1.71	31.00	8480.01	489.50	489.50	0.81	489.5	0.09	14.81	Other	14	
83	8778.00	81.35	1.42	32.00	8485.89	520.93	520.94	1.66	520.94	0.18	12.10	Other	14	
84	8810.00	84.59	0.35	32.00	8489.81	552.68	552.69	2.15	552.69	0.22	10.65	Other	14	
85	8855.00	85.80	360.00	45.00	8493.57	597.52	597.53	2.29	597.54	0.22	2.80	Other	14	
86	8885.00	86.23	0.43	30.00	8495.66	627.45	627.46	2.40	627.46	0.22	2.02	Other	14	
87	8915.00	87.16	0.60	30.00	8497.39	657.39	657.41	2.67	657.41	0.23	3.15	Other	14	
88	8945.39	88.52	1.11	30.39	8498.53	687.76	687.77	3.13	687.78	0.26	4.78	Other	14	
89	8976.00	89.63	1.18	30.61	8499.03	718.35	718.37	3.74	718.38	0.30	3.63	Other	14	
90	9194.00	91.38	0.46	218.00	8497.11	936.30	936.33	6.86	936.35	0.42	0.87	SlimPulse	0	
91	9372.00	92.75	359.96	178.00	8490.70	1114.18	1114.21	7.52	1114.23	0.39	0.82	SlimPulse	0	
92	9469.00	92.96	359.50	97.00	8485.87	1211.06	1211.09	7.07	1211.11	0.33	0.52	SlimPulse	0	
93	9564.00	91.51	359.41	95.00	8482.16	1305.98	1306.01	6.16	1306.02	0.27	1.52	SlimPulse	0	
94	9658.00	90.76	359.11	94.00	8480.30	1399.96	1399.98	4.96	1399.99	0.20	0.87	SlimPulse	0	
95	9752.00	90.24	359.00	94.00	8479.49	1493.95	1493.96	3.41	1493.97	0.13	0.56	SlimPulse	0	
96	9847.00	89.79	358.35	95.00	8479.46	1588.93	1588.94	1.21	1588.94	0.04	0.84	SlimPulse	0	
97	9941.00	88.73	356.66	94.00	8480.67	1682.84	1682.84	-2.88	1682.84	359.90	0.04	2.12	SlimPulse	0
98	10036.00	90.45	357.83	95.00	8481.35	1777.73	1777.72	-7.45	1777.73	359.76	2.19	SlimPulse	0	
99	10130.00	92.24	359.03	94.00	8479.15	1871.67	1871.65	-10.02	1871.68	359.69	2.29	SlimPulse	0	
100	10225.00	92.41	359.73	95.00	8475.30	1966.59	1966.57	-11.04	1966.6	359.68	0.75	SlimPulse	0	
101	10320.00	91.93	358.72	95.00	8471.71	2061.52	2061.50	-11.50	2061.53	359.68	0.51	SlimPulse	0	
102	10414.00	88.73	358.02	94.00	8471.17	2155.49	2155.46	-13.36	2155.5	359.64	3.85	SlimPulse	0	
103	10508.00	89.48	357.16	94.00	8472.64	2249.41	2249.37	-17.30	2249.43	359.56	1.22	SlimPulse	0	
104	10602.00	89.28	357.27	94.00	8473.65	2343.31	2343.25	-21.87	2343.35	359.47	0.25	SlimPulse	0	
105	10696.00	88.90	357.23	94.00	8473.15	2437.20	2437.13	-26.38	2437.27	359.38	0.40	SlimPulse	0	
106	10791.00	89.24	357.92	95.00	8476.69	2531.11	2531.03	-30.40	2532.21	359.31	0.82	SlimPulse	0	
107	10886.00	89.24	359.02	95.00	8477.94	2627.08	2626.99	-32.93	2627.19	359.28	1.15	SlimPulse	0	
108	10980.00	89.21	359.46	94.00	8479.21	2721.06	2720.97	-34.18	2721.19	359.28	0.48	SlimPulse	0	
109	11074.00	89.31	0.55	94.00	8480.43	2815.05	2814.96	-34.18	2815.17	359.30	1.16	SlimPulse	0	
110	11168.00	89.14	0.99	94.00	8481.70	2909.03	2908.94	-32.91	2909.13	359.35	0.51	SlimPulse	0	
111	11263.00	89.52	1.92	95.00	8482.81	3003.99	3003.91	-30.50	3004.06	359.42	1.06	SlimPulse	0	
112	11357.00	89.90	2.44	94.00	8483.25	3097.91	3097.84	-26.92	3097.95	359.50	0.68	SlimPulse	0	
113	11515.00	89.86	1.90	94.00	8483.48	3191.83	3191.77	-23.36	3191.85	359.58	0.58	SlimPulse	0	
114	11546.00	89.76	1.70	95.00	8483.80	3286.77	3286.72	-20.37	3286.78	359.64	0.23	SlimPulse	0	
115	11640.00	89.86	2.03	94.00	8484.11	3380.71	3380.67	-17.31	3380.71	359.71	0.37	SlimPulse	0	
116	11735.00	89.72	1.77	95.00	8484.45	3475.64	3475.62	-14.15	3475.65	359.77	0.31	SlimPulse	0	
117	11829.00	89.59	0.95	94.00	8485.01	3569.61	3569.59	-11.92	3569.61	359.81	0.89	SlimPulse	0	
118	11924.00	89.97	0.36	95.00	8485.39	3664.60	3664.58	-10.84	3664.6	359.83	0.74	SlimPulse	0	
119	12019.00	90.03	359.23	95.00	8485.79	3759.59	3759.58	-11.18	3759.59	359.83	1.19	SlimPulse	0	
120	12113.00	90.17	358.56	94.00	8485.22	3853.58	3853.56	-12.99	3853.58	359.81	0.73	SlimPulse	0	
121	12208.00	90.55	357.94	95.00	8484.62	3948.54	3948.51	-15.89	3948.54	359.77	0.77	SlimPulse	0	
122	12302.00	89.38	357.21	94.00	8484.67	4042.47	4042.43	-19.87	4042.48	359.72	1.46	SlimPulse	0	
123	12396.00	90.14	357.52	94.00	8485.07	4136.38	4136.33	-24.19	4136.4	359.66	0.87	SlimPulse	0	
124	12490.00	90.14	358.22	94.00	8484.84	4230.33	4230.26	-27.69	4230.35	359.62	0.74	SlimPulse	0	
125	12585.00	89.97	358.69	95.00	8484.76	4325.30	4325.22	-30.30	4325.33	359.60	0.48	SlimPulse	0	
126	12679.00	90.55	358.99	94.00	8484.33	4419.28	4419.20	-32.25	4419.32	359.58	0.72	SlimPulse	0	
127	12774.00	89.66	358.85	95.00	8484.16	4514.27	4514.18	-34.04	4514.31	359.57	0.95	SlimPulse	0	
128	12869.00	89.86	358.99	95.00	8484.56	4609.26	4609.17	-35.86	4609.3	359.55	0.24	SlimPulse	0	
129	12965.00	90.03	358.31	94.00	8484.65	4703.23	4703.14	-38.10	4703.29	359.54	1.03	SlimPulse	0	
130	13058.00	89.21	357.79	95.00	8485.77	4798.19	4798.08	-41.33	4798.26	359.51	1.03	SlimPulse	0	
131	13151.00	89.79	357.37	94.00	8486.09	4892.11	4891.99	-45.30	4892.2	359.47	0.77	SlimPulse	0	
132	13241.00	89.38	359.45	89.00	8486.73	4981.08	4980.95	-47.77	4981.18	359.45	2.38	SlimPulse	0	
133	13335.00	90.28	31.1	94.00	8487.01	5075.03	5074.91	-45.68	5075.11	359.48	4.02	SlimPulse	0	
134	13430.00	90.14	4.04	95.00	8486.67	5169.82	5169.72	-39.75	5169.88	359.56	0.98	SlimPulse	0	
135	13524.00	90.00	4.46	94.00	8486.56	5263.54	5263.46	-32.79	5263.57	359.64	0.47	SlimPulse	0	
136	13618.00	90.14	4.16	94.00	8486.45	5357.25	5357.20	-25.73	5357.26	359.72	0.35	SlimPulse	0	
137	13713.00	89.79	3.80	95.00	8486.50	5452.00	5452.00	-19.13	5452	359.80	0.53	SlimPulse	0	
138	13807.00	90.38	3.09	94.00	8486.36	5545.81	5545.81	-13.49	5545.81	359.86	0.98	SlimPulse	0	
139	13902.00	90.41	2.28	95.00	8485.71	5640.69	5640.69	-9.04	5640.7	359.91	0.85	SlimPulse	0	
140	13996.00	90.17	0.86	94.00	8485.23	5734.65	5734.65	-6.47	5734.66	359.94	1.53	SlimPulse	0	
141	14090.00	89.62	359.08	94.00	8485.40	5828.65	5828.65	-6.52	5828.65	359.94	1.98	SlimPulse	0	
142	14185.00	88.08	358.66	95.00	8487.31	5923.60	5923.61	-8.39	5923.61	359.92	1.69	SlimPulse	0	
143	14279.00	86.87	359.83	94.00	8491.45	6017.50	6017.50	-9.62	6017.51	359.91	1.79	SlimPulse	0	
144	14373.00	87.01	1.44	94.00	8496.48	6111.36	6111.36	-8.58	6111.37	359.92	1.72	SlimPulse	0	
145	14468.00	89.07	2.91	95.00	8499.73	6206.21	6206.23	-4.97	6206.23	359.95	2.67	SlimPulse	0	
146	14563.00	90.38	1.56	95.00	8500.18	6301.12	6301.15	-1.26	6301.15	359.99	1.97	SlimPulse	0	
147	14657.00	92.20	0.38	94.00	8498.07	6395.08	6395.11	0.33	6395.11	0.00	2.31	SlimPulse	0	
148	14752.00	93.17	358.77	95.00	8493.62	6489.97	6490.00	-0.37	6490	360.00	1.97	SlimPulse	0	
149	14846.00	93.20	357.03	94.00	8488.40	6583.76	6583.79	-3.81	6583.79	359.97	1.86	SlimPulse	0	
150	14940.00	92.37	354.53	94.00	8483.83	6677.41	6677.41	-10.72	6677.42	359.91	2.80	SlimPulse	0	
151	15034.00	91.31	354.02	94.00	8480.81	6770.92	6770.89	-20.10	6770.92	359.83	1.26	SlimPulse	0	
152	15129.00	88.97	354.16	95.00	8480.59	6865.44	6865.38	-29.87	6865.45	359.75	2.46	SlimPulse	0	
153	15223.00	88.25	355.10	94.00	8482.87	6959.03	6958.94	-38.67	6959.05	359.68	1.26	SlimPulse	0	
154	15318.00	88.11	356.29	95.00	8485.89	7053.73	7053.62	-45.80	7053.77	359.63	1.26	SlimPulse	0	
155	15413.00	87.49	357.78	95.00	8489.54	7148.53	7148.40	-51.12	7148.58	359.59	1.23	SlimPulse	0	
156	15507.00	87.59	358.71	94.00	8493.57	7242.29	7242.25	-54.40	7242.46	359.57	1.52	SlimPulse	0	
157	15601.00	87.76	359.53	94.00	8497.38	7336.36	7336.16	-55.78	7336.38	359.56	0.89	SlimPulse	0	
158	15697.00	87.35	0.55	70.00	8500.36	7406.24	7406.10	-55.78	7406.31	359.57	1.57	SlimPulse	0	
159	15710.00	87.35												



Casing Summary

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015				Mud Line Elevation (ft)	Water Depth (ft)

Conductor Planned?-N, 139ftKB

Set Depth (MD) (ftKB) 139		Set Tension (kips)		String Nominal OD (in) 20		String Min Drift (in)		Centralizers		Scratchers	
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 (psi)
1	Casing Joint	20	18.250	166.40	HC P110		31	139	108.00		2,510.0

Surface Planned?-N, 436ftKB

Set Depth (MD) (ftKB) 436		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in)		Centralizers		Scratchers	
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 (psi)
1	Casing Joint	13 3/8	12.715	48.00	H-40		31	34	3.25		740.0
1	Pup Joint	13 3/8	12.715	48.00	H-40		34	40	5.33		740.0
8	Casing Joint	13 3/8	12.715	48.00	H-40		40	360	319.95		740.0
1	Float Collar	13 3/8	12.715	48.00	H-40		360	361	1.34		740.0
2	Casing Joint	13 3/8	12.715	48.00	H-40		361	434	73.56		740.0
1	Float Shoe	13 3/8	12.715	48.00	H-40		434	436	1.56		740.0

Intermediate Casing 1 Planned?-N, 6,978ftKB

Set Depth (MD) (ftKB) 6,978		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in) 8.594		Centralizers		Scratchers	
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 (psi)
1	Hanger	9 5/8	8.750	43.50	HCP-110		-7	-7	0.80		
1	Landing Joint	9 5/8	8.750	43.50	HCP-110		-7	32	38.37		
1	Pup	9 5/8	8.750	43.50	HCP-110		32	36	4.18		
48	Casing Joint	9 5/8	8.750	43.50	HCP-110		36	1,900	1,863.98		
1	DV TOOL	9 5/8	8.750	43.50	HCP-110		1,900	1,925	24.75		
12	Casing Joint	9 5/8	8.750	43.50	HCP-110		1,925	6,902	4,977.74		
8											
1	Float Collar	9 5/8	8.750	43.50	HCP-110		6,902	6,904	1.18		
2	Casing Joint	9 5/8	8.750	43.50	HCP-110		6,904	6,976	72.79		
1	Float Shoe	9 5/8	8.750	43.50	HCP-110		6,976	6,978	1.62	8,700.0	5,600.0

Production Casing Planned?-N, 15,700ftKB

Set Depth (MD) (ftKB) 15,700		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers		Scratchers	
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 (psi)
1	Landing Joint	5 1/2	4.906	17.00	P-110		-5	32	37.27		
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110		32	38	5.20		
19	Casing Joint	5 1/2	4.906	17.00	P-110		38	7,859	7,821.37		
2											
1	Marker Joint	5 1/2	4.906	17.00	P-110		7,859	7,869	9.98		
18	Casing Joint	5 1/2	4.906	17.00	P-110		7,869	15,507	7,638.20		
8											
1	Pup	5 1/2	4.906	17.00	P-110		15,507	15,516	9.10		
1	RSI	5 1/2	4.906	17.00	P-110		15,516	15,522	5.59		
1	Pup	5 1/2	4.906	17.00	P-110		15,522	15,531	9.11		
1	Casing Joint	5 1/2	4.906	17.00	P-110		15,531	15,572	40.81		
1	Landing Collar	5 1/2	4.906	17.00	P-110		15,572	15,573	1.55		
1	Casing Joint	5 1/2	4.906	17.00	P-110		15,573	15,614	40.34		
1	Float Collar	5 1/2	4.906	17.00	P-110		15,614	15,616	2.05		
2	Casing Joint	5 1/2	4.906	17.00	P-110		15,616	15,698	82.56		
1	Float Shoe	5 1/2	4.906	17.00	P-110		15,698	15,700	1.80		



Cement Summary

Surface Casing Cement

Well Name SKEEN 22-26 FED 007H	Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015	Mud Line Elevation (ft) Water Depth (ft)

Original Hole			
Wellbore Name Original Hole	Directional Type Vertical	Kick Off Depth (ftKB)	Vertical Section Direction (°) 0.00
Hole Size (in)	Act Top (ftKB)	Act Blm (ftKB)	
20	31.0	139.0	
17 1/2	139.0	446.0	
12 1/4	446.0	6,986.0	
8 1/2	6,986.0	8,690.0	

ST1			
Wellbore Name ST1	Directional Type Horizontal	Kick Off Depth (ftKB) 7,936	Vertical Section Direction (°) 359.79
Hole Size (in)	Act Top (ftKB)	Act Blm (ftKB)	
8 1/2	7,512.0	15,710.0	

<typ> <make> on <dtmstart>			
Type	Install Date		
Des	Make	Model	WP (psi) Service SN

Conductor, Planned? - N, 139ftKB			
Casing Description Conductor	Wellbore Original Hole	Run Date 2/6/2015	Set Depth (MD) (ftKB) 139
Centralizers		Stick Up (ftKB) -31.0	Set Tension (kips)
Scratchers			
Jts	Item Des	OD (in)	ID (in)
1	Casing Joint	20	18.250
		Wt (lb/ft)	166.40
		Grade	HC P110
		Top Conn Sz (in)	Top Thread
		Len (ft)	108.00
		Top Depth (MD) (ftKB)	31
		Blm Depth (MD) (ftKB)	139

Surface, Planned? - N, 436ftKB			
Casing Description Surface	Wellbore Original Hole	Run Date 2/14/2015	Set Depth (MD) (ftKB) 436
Centralizers		Stick Up (ftKB) -31.0	Set Tension (kips)
Scratchers			
Jts	Item Des	OD (in)	ID (in)
1	Casing Joint	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	3.25
		Top Depth (MD) (ftKB)	31
		Blm Depth (MD) (ftKB)	34
1	Pup Joint	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	5.33
		Top Depth (MD) (ftKB)	34
		Blm Depth (MD) (ftKB)	40
8	Casing Joint	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	319.95
		Top Depth (MD) (ftKB)	40
		Blm Depth (MD) (ftKB)	360
1	Float Collar	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	1.34
		Top Depth (MD) (ftKB)	360
		Blm Depth (MD) (ftKB)	361
2	Casing Joint	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	73.56
		Top Depth (MD) (ftKB)	361
		Blm Depth (MD) (ftKB)	434
1	Float Shoe	13 3/8	12.715
		Wt (lb/ft)	48.00
		Grade	H-40
		Top Conn Sz (in)	Top Thread
		Len (ft)	1.56
		Top Depth (MD) (ftKB)	434
		Blm Depth (MD) (ftKB)	436

Intermediate Casing 1, Planned? - N, 6,978ftKB			
Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 2/26/2015	Set Depth (MD) (ftKB) 6,978
Centralizers		Stick Up (ftKB) 7.4	Set Tension (kips)
Scratchers			
Jts	Item Des	OD (in)	ID (in)
1	Hanger	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	0.80
		Top Depth (MD) (ftKB)	-7
		Blm Depth (MD) (ftKB)	-7
1	Landing Joint	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	38.37
		Top Depth (MD) (ftKB)	-7
		Blm Depth (MD) (ftKB)	32
1	Pup	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	4.18
		Top Depth (MD) (ftKB)	32
		Blm Depth (MD) (ftKB)	36
48	Casing Joint	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	1,863.98
		Top Depth (MD) (ftKB)	36
		Blm Depth (MD) (ftKB)	1,900
1	DV TOOL	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	24.75
		Top Depth (MD) (ftKB)	1,900
		Blm Depth (MD) (ftKB)	1,925
128	Casing Joint	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	4,977.74
		Top Depth (MD) (ftKB)	1,925
		Blm Depth (MD) (ftKB)	6,902
1	Float Collar	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	1.18
		Top Depth (MD) (ftKB)	6,902
		Blm Depth (MD) (ftKB)	6,904
2	Casing Joint	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	72.79
		Top Depth (MD) (ftKB)	6,904
		Blm Depth (MD) (ftKB)	6,976
1	Float Shoe	9 5/8	8.750
		Wt (lb/ft)	43.50
		Grade	HCP-110
		Top Conn Sz (in)	Top Thread
		Len (ft)	1.62
		Top Depth (MD) (ftKB)	6,976
		Blm Depth (MD) (ftKB)	6,978



Cement Summary

Surface Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Production Casing Planned? N, 15,700ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 3/29/2015	Set Depth (MD) (ftKB) 15,700	Stick Up (ftKB) 4.9	Set Tension (kips)
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Centralizers

Scratchers

Qts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700

Surface Casing Cement Casing, 2/14/2015 20:45

Cementing Start Date 2/14/2015	Cementing End Date 2/14/2015	Wellbore Original Hole
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Evaluation Method FIT/LOT	Cement Evaluation Results.
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Comment
Pump 550 sx of tail.

Pump Cement as Follows:

- 1) Pressure test lines to 1,500 psi
- 2) Pump 20 bbls fresh water spacer w/ red dye
- 3) Pump 550 sacks of Premium Class C w/ 2% CaCl at 14.8 ppg 1.35 yield 8.4 ppg FW mix
- 5) Drop top plug and displace cmt w/ 57 bbls of FW at 8.33 ppg
- 6) Bump plug with 500 psi over final circulating pressure
- 7) Bleed off pressure - Floats held, had 1 bbl bleed back
- 8) Final circulating pressure prior to bumping plug 216 psi at 3 bpm

1, 31:0-446.0ftKB

Top Depth (ftKB) 31.0	Bottom Depth (ftKB) 446.0	Full Return? Y	Vol Cement Ret (bbl) 70.0	Top Plug? N	Bottom Plug? Y
Initial Pump Rate (bbl/min) 6	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 4		Final Pump Pressure (psi) 216.0	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

Spacer

Fluid Type Spacer	Fluid Description 20 bbls of FW with Red Dye.	Quantity (sacks)	Class	Volume Pumped (bbl) 20.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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

Add	Type	Conc
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Tail

Fluid Type Tail	Fluid Description 550 sacks of premium plus with 2% calcium chloride @ 14.8 ppg	Quantity (sacks) 550	Class C	Volume Pumped (bbl) 132.0
Estimated Top (ftKB) 0.0	Estimated Bottom Depth (ftKB) 446.0	Percent Excess Pumped (%) 125.0	Yield (ft ³ /sack) 1.35	Fluid Mix Ratio (gal/sack) 6.47
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)



Cement Summary

Surface Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description Fresh Water	Quantity (sacks)	Class	Volume Pumped (bbl) 57.0
Estimated Top (ftKB) 31.0	Estimated Bottom Depth (ftKB) 360.0	Percent Excess Pumped (%)	Yield (ft ³ /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

Add	Type	Conc



Cement Summary

Intermediate Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015			Mud Line Elevation (ft)	Water Depth (ft)	

Original Hole			
Wellbore Name Original Hole	Directional Type Vertical	Kick Off Depth (ftKB)	Vertical Section Direction (*) 0.00
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
20	31.0	139.0	
17 1/2	139.0	446.0	
12 1/4	446.0	6,986.0	
8 1/2	6,986.0	8,690.0	

ST1			
Wellbore Name ST1	Directional Type Horizontal	Kick Off Depth (ftKB) 7,936	Vertical Section Direction (*) 359.79
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
8 1/2	7,512.0	15,710.0	

<typ>, <make> on <dtmstart>					
Type			Install Date		
Des	Make	Model	WP (psi)	Service	SN

Conductor, Planned?-N, 139ftKB										
Casing Description Conductor		Wellbore Original Hole	Run Date 2/6/2015		Set Depth (MD) (ftKB) 139		Stick Up (ftKB) -31.0		Set Tension (kips)	
Centralizers					Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	20	18.250	166.40	HC P110			108.00	31	139

Surface, Planned?-N, 436ftKB										
Casing Description Surface		Wellbore Original Hole		Run Date 2/14/2015		Set Depth (MD) (ftKB) 436		Stick Up (ftKB) -31.0		Set Tension (kips)
Centralizers 5						Scratchers				
Jts.	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40			3.25	31	34
1	Pup Joint	13 3/8	12.715	48.00	H-40			5.33	34	40
8	Casing Joint	13 3/8	12.715	48.00	H-40			319.95	40	360
1	Float Collar	13 3/8	12.715	48.00	H-40			1.34	360	361
2	Casing Joint	13 3/8	12.715	48.00	H-40			73.56	361	434
1	Float Shoe	13 3/8	12.715	48.00	H-40			1.56	434	436

Intermediate Casing 1, Planned?-N, 6,978ftKB										
Casing Description Intermediate Casing 1		Wellbore Original Hole	Run Date 2/26/2015		Set Depth (MD) (ftKB) 6,978		Stick Up (ftKB) 7.4		Set Tension (kips)	
Centralizers					Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger	9 5/8	8.750	43.50	HCP-110			0.80	-7	-7
1	Landing Joint	9 5/8	8.750	43.50	HCP-110			38.37	-7	32
1	Pup	9 5/8	8.750	43.50	HCP-110			4.18	32	36
48	Casing Joint	9 5/8	8.750	43.50	HCP-110			1,863.98	36	1,900
1	DV TOOL	9 5/8	8.750	43.50	HCP-110			24.75	1,900	1,925
128	Casing Joint	9 5/8	8.750	43.50	HCP-110			4,977.74	1,925	6,902
1	Float Collar	9 5/8	8.750	43.50	HCP-110			1.18	6,902	6,904
2	Casing Joint	9 5/8	8.750	43.50	HCP-110			72.79	6,904	6,976
1	Float Shoe	9 5/8	8.750	43.50	HCP-110			1.62	6,976	6,978



Cement Summary

Intermediate Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)		Water Depth (ft)	
3,406.00	3,437.00	3,437.00, 1/28/2015					

Production Casing Planned? N: 15,700ftKB											
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Production Casing		Original Hole		3/29/2015		15,700		4.9			
Centralizers						Scratchers					
Jls	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Botm Depth (MD) (ftKB)	
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32	
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38	
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859	
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869	
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507	
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516	
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522	
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572	
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614	
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616	
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698	
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700	

Intermediate Casing Cement, Casing, 2/26/2015 16:30		
Cementing Start Date 2/26/2015		Cementing End Date 2/27/2015
		Wellbore Original Hole
Evaluation Method Temperature Log	Cement Evaluation Results No cement to surface. BLM requires Temp Log to determine if TOC is inside Surface shoe at 436' MD before proceeding.	
Comment Perform Intermediate cement job utilizing DV Tool.		
Stage 1: 20 bbl TS3 Spacer 492 bbls (1,455 sxs) of 12.9 ppg Lead 73 bbls (305 sxs) of 14.8 ppg Tail 513 bbls of FW Displacement. Bump plug at 974 psi (500 over); Bled back 2 bbls; Floats held.		
Stage 2: Test lines to 4,000 psi 20 bbl TS3 Spacer 382 bbls (1,135 sxs) of 12.9 ppg Lead 15 bbls (65 sxs) of 14.8 ppg Tail 141 bbls of FW Displacement with Active mud. Bump plug at 1,722 psi (500 over); Bled back 1.5 bbls; Floats held.		

1: 1,900.0: 6,986.0ftKB											
Top Depth (ftKB)		Bottom Depth (ftKB)		Full Return?		Vol Cement Ret (bbl)		Top Plug?		Bottom Plug?	
1,900.0		6,986.0		Y		80.0		N		N	
Initial Pump Rate (bbl/min)		Final Pump Rate (bbl/min)		Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)		Plug Bump Pressure (psi)			
7		7		7		520.0		974.0			
Pipe Reciprocated?		Reciprocation Stroke Length (ft)		Reciprocation Rate (spm)		Pipe Rotated?		Pipe RPM (rpm)			
N						N					
Depth Tagged (MD) (ftKB)		Tag Method		Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)		Drill Out Date			
Spacer											
Fluid Type		Fluid Description		Quantity (sacks)		Class		Volume Pumped (bbl)			
Spacer		TSIII Spacer w/ Red Dye						20.0			
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											
Add				Type				Conc			



Cement Summary

Intermediate Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Lead							
Fluid Type Lead	Fluid Description EconoCem		Quantity (sacks) 1,455	Class C		Volume Pumped (bbl) 492.0	
Estimated Top (ftKB) 1,208.0	Estimated Bottom Depth (ftKB) 5,778.0		Percent Excess Pumped (%) 100.0	Yield (ft³/sack) 1.90		Fluid Mix Ratio (gal/sack) 10.03	
Free Water (%)	Density (lb/gal) 12.90		Zero Gel Time (min)	Thickening Time (hr)		1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc

Tail							
Fluid Type Tail	Fluid Description HalCem		Quantity (sacks) 305	Class C		Volume Pumped (bbl) 73.0	
Estimated Top (ftKB) 5,778.0	Estimated Bottom Depth (ftKB) 6,986.0		Percent Excess Pumped (%) 100.0	Yield (ft³/sack) 1.34		Fluid Mix Ratio (gal/sack) 6.36	
Free Water (%)	Density (lb/gal) 14.80		Zero Gel Time (min)	Thickening Time (hr)		1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc

Displacement							
Fluid Type Displacement	Fluid Description 60 BBL Fresh Water Spacer 453 BBL Active Mud (9.6 ppg Sprayberry)		Quantity (sacks)	Class		Volume Pumped (bbl) 513.0	
Estimated Top (ftKB) 0.0	Estimated Bottom Depth (ftKB) 6,978.0		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		
Add	Type	Conc

2, 129.0-1,900.0ftKB							
Top Depth (ftKB) 129.0	Bottom Depth (ftKB) 1,900.0	Full Return? Y	Vol Cement Ret (bbl) 0.0	Top Plug? N	Bottom Plug? N		
Initial Pump Rate (bbl/min) 7	Final Pump Rate (bbl/min) 7	Avg Pump Rate (bbl/min)		Final Pump Pressure (psi) 1,148.0	Plug Bump Pressure (psi) 1,722.0		
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		

Spacer							
Fluid Type Spacer	Fluid Description TSIII Spacer w/ Red Dye		Quantity (sacks)	Class		Volume Pumped (bbl) 20.0	
Estimated Top (ftKB) 0.0	Estimated Bottom Depth (ftKB) 50.0		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		
Add	Type	Conc

Lead							
Fluid Type Lead	Fluid Description EconoCem		Quantity (sacks) 1,135	Class C		Volume Pumped (bbl) 382.0	
Estimated Top (ftKB) 129.0	Estimated Bottom Depth (ftKB) 1,630.0		Percent Excess Pumped (%) 374.0	Yield (ft³/sack) 1.90		Fluid Mix Ratio (gal/sack) 10.03	
Free Water (%)	Density (lb/gal) 12.90		Zero Gel Time (min)	Thickening Time (hr)		1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc

Tail							
Fluid Type Tail	Fluid Description HalCem		Quantity (sacks) 65	Class C		Volume Pumped (bbl) 15.0	
Estimated Top (ftKB) 1,630.0	Estimated Bottom Depth (ftKB) 1,900.0		Percent Excess Pumped (%) 100.0	Yield (ft³/sack) 1.34		Fluid Mix Ratio (gal/sack) 6.36	
Free Water (%)	Density (lb/gal) 14.80		Zero Gel Time (min)	Thickening Time (hr)		1st Compressive Strength (psi)	



Cement Summary

Intermediate Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Cement Fluid Additives		
Add	Type	Conc

Displacement				
Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	20 BBL Fresh Water Spacer 121 BBL Active Mud (9.6 ppg Sprayberry)			513.0
Estimated Top (ftKB) 31.0	Estimated Bottom Depth (ftKB) 1,900.0	Percent Excess Pumped (%)	Yield (ft ³ /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		
Add	Type	Conc



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Original Hole							
Wellbore Name Original Hole		Directional Type Vertical		Kick Off Depth (ftKB)		Vertical Section Direction (") 0.00	
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
20		31.0		139.0			
17 1/2		139.0		446.0			
12 1/4		446.0		6,986.0			
8 1/2		6,986.0		8,690.0			

ST1							
Wellbore Name ST1		Directional Type Horizontal		Kick Off Depth (ftKB) 7,936		Vertical Section Direction (") 359.79	
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
8 1/2		7,512.0		15,710.0			

<typ>, <make> on <dtmstart>							
Type				Install Date			
Des	Make	Model	WP (psi)	Service	SN		

Conductor, Planned?-N, 139ftKB											
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Conductor		Original Hole		2/6/2015		139		-31.0			
Centralizers						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Casing Joint	20	18.250	166.40	HC P110			108.00	31	139	

Surface, Planned?-N, 436ftKB											
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Surface		Original Hole		2/14/2015		436		-31.0			
Centralizers						Scratchers					
5											
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Casing Joint	13 3/8	12.715	48.00	H-40			3.25	31	34	
1	Pup Joint	13 3/8	12.715	48.00	H-40			5.33	34	40	
8	Casing Joint	13 3/8	12.715	48.00	H-40			319.95	40	360	
1	Float Collar	13 3/8	12.715	48.00	H-40			1.34	360	361	
2	Casing Joint	13 3/8	12.715	48.00	H-40			73.56	361	434	
1	Float Shoe	13 3/8	12.715	48.00	H-40			1.56	434	436	

Intermediate Casing 1, Planned? -N, 6,978ftKB											
Casing Description		Wellbore	Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)		
Intermediate Casing 1		Original Hole	2/26/2015		6,978		7.4				
Centralizers					Scratchers						
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Hanger	9 5/8	8.750	43.50	HCP-110			0.80	-7	-7	
1	Landing Joint	9 5/8	8.750	43.50	HCP-110			38.37	-7	32	
1	Pup	9 5/8	8.750	43.50	HCP-110			4.18	32	36	
48	Casing Joint	9 5/8	8.750	43.50	HCP-110			1,863.98	36	1,900	
1	DV TOOL	9 5/8	8.750	43.50	HCP-110			24.75	1,900	1,925	
128	Casing Joint	9 5/8	8.750	43.50	HCP-110			4,977.74	1,925	6,902	
1	Float Collar	9 5/8	8.750	43.50	HCP-110			1.18	6,902	6,904	
2	Casing Joint	9 5/8	8.750	43.50	HCP-110			72.79	6,904	6,976	
1	Float Shoe	9 5/8	8.750	43.50	HCP-110			1.62	6,976	6,978	



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H	Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015	Mud Line Elevation (ft) Water Depth (ft)

Production Casing, Planned? N, 15,700ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 3/29/2015	Set Depth (MD) (ftKB) 15,700	Stick Up (ftKB) 4.9	Set Tension (kips)
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Centralizers	Scratchers
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Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700

Cement Squeeze, Casing, 3/2/2015 16:00

Cementing Start Date 3/2/2015	Cementing End Date 3/2/2015	Wellbore Original Hole
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Evaluation Method FIT/LOT	Cement Evaluation Results Pumped 30 bbls of cement, leaving 2 inside of Intermediate casing shoe with max pressure of 880 psi.
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Comment
 Pump squeeze cement job at 2 bpm.
 4 bbls of Active 9.4 ppg mud.
 5 bbls of FW spacer.
 30 bbls of 14.8 ppg Cement.
 5 bbls of FW spacer.
 76 bbls of Active 9.4 ppg mud.
 Hold 600 psi on backside.
 Sting into cement retainer.
 49 bbls of Active 9.4 ppg mud with max pressure 880 psi at 49 bbls.
 Wait 5 min.
 2 bbls of Active 9.4 ppg mud at 0.3 bpm with max pressure at 530 psi.
 Start Hesitation squeeze job.
 Wait 30 min.
 1 bbl of Active 9.4 ppg mud at 0.3 bpm with max pressure at 512 psi. Held pressure at 279 psi.
 2 bbls of cement left inside of shoe.

1,6,778.0-6,995.0ftKB

Top Depth (ftKB) 6,778.0	Bottom Depth (ftKB) 6,995.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? N	Bottom Plug? N
Initial Pump Rate (bbl/min) 2	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 2	Final Pump Pressure (psi) 512.0	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	

Pre-Job Mud/Drilling Fluid

Fluid Type Pre-Job Mud/Drilling Fluid	Fluid Description Active 9.4 ppg mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 4.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Spacer

Fluid Type Spacer	Fluid Description Field Water.	Quantity (sacks)	Class	Volume Pumped (bbl) 5.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.34	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Cement Fluid Additives

Add	Type	Conc
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Squeeze

Fluid Type Squeeze	Fluid Description HalCem C.	Quantity (sacks) 128	Class C	Volume Pumped (bbl) 30.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack) 1.32	Fluid Mix Ratio (gal/sack) 6.34
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Spacer

Fluid Type Spacer	Fluid Description Field Water.	Quantity (sacks)	Class	Volume Pumped (bbl) 5.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.34	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Displacement

Fluid Type Displacement	Fluid Description Active 9.4 ppg mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 76.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Displacement

Fluid Type Displacement	Fluid Description Active 9.4 ppg mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 49.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Displacement

Fluid Type Displacement	Fluid Description Active 9.4 ppg mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 2.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Displacement

Fluid Type Displacement	Fluid Description Active 9.4 ppg mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 1.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc
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Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Original Hole							
Wellbore Name Original Hole		Directional Type Vertical		Kick Off Depth (ftKB)		Vertical Section Direction (°) 0.00	
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
20		31.0		139.0			
17 1/2		139.0		446.0			
12 1/4		446.0		6,986.0			
8 1/2		6,986.0		8,690.0			

ST1							
Wellbore Name ST1		Directional Type Horizontal		Kick Off Depth (ftKB) 7,936		Vertical Section Direction (°) 359.79	
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
8 1/2		7,512.0		15,710.0			

<type>, <make> on <dtmstart>							
Type				Install Date			
Des	Make	Model	WP (psi)	Service	SN		

Conductor, Planned?-N, 139ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Conductor		Original Hole		2/6/2015		139		-31.0		
Centralizers						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	20	18.250	166.40	HC P110			108.00	31	139

Surface, Planned?-N, 436ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Surface		Original Hole		2/14/2015		436		-31.0		
Centralizers						Scratchers				
5										
Jis	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40			3.25	31	34
1	Pup Joint	13 3/8	12.715	48.00	H-40			5.33	34	40
8	Casing Joint	13 3/8	12.715	48.00	H-40			319.95	40	360
1	Float Collar	13 3/8	12.715	48.00	H-40			1.34	360	361
2	Casing Joint	13 3/8	12.715	48.00	H-40			73.56	361	434
1	Float Shoe	13 3/8	12.715	48.00	H-40			1.56	434	436

Intermediate Casing 1, Planned?-N; 6,978ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Intermediate Casing 1		Original Hole		2/26/2015		6,978		7.4		
Centralizers						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger	9 5/8	8.750	43.50	HCP-110			0.80	-7	-7
1	Landing Joint	9 5/8	8.750	43.50	HCP-110			38.37	-7	32
1	Pup	9 5/8	8.750	43.50	HCP-110			4.18	32	36
48	Casing Joint	9 5/8	8.750	43.50	HCP-110			1,863.98	36	1,900
1	DV TOOL	9 5/8	8.750	43.50	HCP-110			24.75	1,900	1,925
128	Casing Joint	9 5/8	8.750	43.50	HCP-110			4,977.74	1,925	6,902
1	Float Collar	9 5/8	8.750	43.50	HCP-110			1.18	6,902	6,904
2	Casing Joint	9 5/8	8.750	43.50	HCP-110			72.79	6,904	6,976
1	Float Shoe	9 5/8	8.750	43.50	HCP-110			1.62	6,976	6,978



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Production Casing, Planned? - N 15,700ftKB											
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Production Casing		Original Hole		3/29/2015		15,700		4.9			
Centralizers						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32	
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38	
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859	
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869	
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507	
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516	
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522	
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572	
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614	
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616	
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698	
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700	

Cement Squeeze, Casing, 3/4/2015 21:00				
Cementing Start Date		Cementing End Date		Wellbore
3/4/2015		3/5/2015		Original Hole
Evaluation Method		Cement Evaluation Results		
FIT/LOT		Pumped 19 bbls of cement leaving 250' of cement inside of 9 5/8" Intermediate casing. Pumped hesitation squeeze job with max pressure of 1,220 psi. Held pressure at 1,770 psi.		

Comment Perform squeeze job. Test lines to 3,500 psi. Establish circulation with pump truck. 10 bbl of 11 ppg spacer at 4 bpm. 19 bbl of 15.6 ppg cement at 4 bpm. 2 bbl of 11 ppg spacer at 4 bpm. Displace with 107 bbl of Active 9.3 ppg mud. Equalize slurry. Pull 5 stands at 3min/stand. Pull 1 wet, 4 dry. Circulate 1.5 B/U. Shut annular and start Hesitation squeeze job. 1 bbl at 0.3 bpm 355/326 - Wait 30 min. 1 bbl at 0.3 bpm 940/775 - Wait 30 min. (2 bbl) 0.5 bbl at 0.3 bpm 1,219/1,109 - Wait 1.5 min. (2.5 bbl) 0.2 bbl at 0.3 bpm 1,258/1,219 - Wait 1.5 min. (2.7 bbl) Monitor well for 1 hr. Pressure dropped to 1,172 psi final pressure.											
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1,6,702.0-6,995.0ftKB											
Top Depth (ftKB) 6,702.0		Bottom Depth (ftKB) 6,995.0		Full Return? N		Vol Cement Ret (bbl) 3		Top Plug? N		Bottom Plug? N	
Initial Pump Rate (bbl/min) 3		Final Pump Rate (bbl/min) 3		Avg Pump Rate (bbl/min)		Final Pump Pressure (psi) 1,258.0		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			

Spacer											
Fluid Type Spacer		Fluid Description Tuned Spacer III		Quantity (sacks)		Class		Volume Pumped (bbl) 10.0			
Estimated Top (ftKB)		Estimated Bottom Depth (ftKB)		Percent Excess Pumped (%)		Yield (ft ³ /sack)		Fluid Mix Ratio (gal/sack)			
Free Water (%)		Density (lb/gal) 11.00		Zero Gel Time (min)		Thickening Time (hr)		1st Compressive Strength (psi)			

Cement Fluid Additives											
Add				Type				Conc			



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Lead							
Fluid Type Lead	Fluid Description PlugCem-H	Quantity (sacks) 89	Class C	Volume Pumped (bbl) 19.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack) 1.19	Fluid Mix Ratio (gal/sack) 5.35			
Free Water (%)	Density (lb/gal) 15.60	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc.

Spacer							
Fluid Type Spacer	Fluid Description Tuned Spacer III	Quantity (sacks)	Class	Volume Pumped (bbl) 2.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)			
Free Water (%)	Density (lb/gal) 11.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc

Displacement							
Fluid Type Displacement	Fluid Description Active 9.3 ppg Mud.	Quantity (sacks)	Class	Volume Pumped (bbl) 107.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)			
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc

Pre-Job Mud/Drilling Fluid							
Fluid Type Pre-Job Mud/Drilling Fluid	Fluid Description Trip 5 stands. Balance plug. Pump 1.5 B/U.	Quantity (sacks)	Class	Volume Pumped (bbl) 500.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)			
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc

Squeeze							
Fluid Type Squeeze	Fluid Description Squeeze 1 bbl at 335 psi. Wait 30 min. Held at 326 psi.	Quantity (sacks)	Class	Volume Pumped (bbl) 1.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)			
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc.

Squeeze							
Fluid Type Squeeze	Fluid Description Squeeze 1 bbl at 940 psi. Wait 30 min. Held at 775 psi.	Quantity (sacks)	Class	Volume Pumped (bbl) 1.0			
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)			
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)			

Cement Fluid Additives		
Add	Type	Conc



Cement Summary

Cement Squeeze

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015			Mud Line Elevation (ft)	Water Depth (ft)	

Squeeze				
Fluid Type Squeeze	Fluid Description Squeeze 0.5 bbl at 1,219 psi. Wait 30 min. Held at 1,109 psi.	Quantity (sacks)	Class	Volume Pumped (bbl) 0.5
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives		
Add	Type	Conc

Squeeze				
Fluid Type Squeeze	Fluid Description Squeeze 0.2 bbl at 1,258 psi. Wait 30 min. Held at 1,219 psi. Held for 1 hr, final pressure 1,172' MD.	Quantity (sacks)	Class	Volume Pumped (bbl) 0.2
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives		
Add	Type	Conc



Cement Summary

Cement Plug

Well Name SKEEN 22-26-26 FED 007H	Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015	Mud Line Elevation (ft) Water Depth (ft)

Original Hole			
Wellbore Name Original Hole	Directional Type Vertical	Kick Off Depth (ftKB)	Vertical Section Direction (°) 0.00
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
20	31.0	139.0	
17 1/2	139.0	446.0	
12 1/4	446.0	6,986.0	
8 1/2	6,986.0	8,690.0	

ST1			
Wellbore Name ST1	Directional Type Horizontal	Kick Off Depth (ftKB) 7,936	Vertical Section Direction (°) 359.79
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
8 1/2	7,512.0	15,710.0	

<typ>, <make> on <dtmstart>			
Type	Install Date		
Des	Make	Model	WP (psi) Service SN

Conductor, Planned?-N, 139ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Conductor		Original Hole		2/6/2015		139		-31.0		
Centralizers						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	20	18.250	166.40	HC P110			108.00	31	139

Surface, Planned?-N, 436ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Surface		Original Hole		2/14/2015		436		-31.0		
Centralizers						Scratchers				
5										
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40			3.25	31	34
1	Pup Joint	13 3/8	12.715	48.00	H-40			5.33	34	40
8	Casing Joint	13 3/8	12.715	48.00	H-40			319.95	40	360
1	Float Collar	13 3/8	12.715	48.00	H-40			1.34	360	361
2	Casing Joint	13 3/8	12.715	48.00	H-40			73.56	361	434
1	Float Shoe	13 3/8	12.715	48.00	H-40			1.56	434	436

Intermediate Casing 1, Planned?-N, 6,978ftKB										
Casing Description		Wellbore	Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Intermediate Casing 1		Original Hole	2/26/2015		6,978		7.4			
Centralizers					Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger	9 5/8	8.750	43.50	HCP-110			0.80	-7	-7
1	Landing Joint	9 5/8	8.750	43.50	HCP-110			38.37	-7	32
1	Pup	9 5/8	8.750	43.50	HCP-110			4.18	32	36
48	Casing Joint	9 5/8	8.750	43.50	HCP-110			1,863.98	36	1,900
1	DV TOOL	9 5/8	8.750	43.50	HCP-110			24.75	1,900	1,925
128	Casing Joint	9 5/8	8.750	43.50	HCP-110			4,977.74	1,925	6,902
1	Float Collar	9 5/8	8.750	43.50	HCP-110			1.18	6,902	6,904
2	Casing Joint	9 5/8	8.750	43.50	HCP-110			72.79	6,904	6,976
1	Float Shoe	9 5/8	8.750	43.50	HCP-110			1.62	6,976	6,978



Cement Summary

Cement Plug

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Production Casing, Planned? N, 15,700ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 3/29/2015	Set Depth (MD) (ftKB) 15,700	Stick Up (ftKB) 4.9	Set Tension (kips)
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Centralizers

Scratchers

Qts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Blm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700

Cement Plug, Plug, 3/8/2015 20:46

Cementing Start Date 3/8/2015		Cementing End Date 3/9/2015		Wellbore Original Hole	
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Evaluation Method FIT/LOT	Cement Evaluation Results
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Comment

Set Cement plug:

Plug 1:
Test lines to 3,500 psi.
20 bbls of spacer.
45.6 bbls of 17.5 ppg cement.
1.7 bbls of spacer.
126 bbls of mud.
TOH 9 stands.

Plug 2:
Test lines to 3,500 psi.
20 bbls of spacer.
50 bbls of 17.5 ppg cement.
1.7 bbls of spacer.
124 bbls of mud.

1:8,214.0-8,690.0ftKB

Top Depth (ftKB) 8,214.0	Bottom Depth (ftKB) 8,690.0	Full Return? N	Vol Cement Ret (bbl) 3	Top Plug? N	Bottom Plug? N
Initial Pump Rate (bbl/min) 3	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	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	

Spacer

Fluid Type Spacer	Fluid Description Tuned Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 20.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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

Add	Type	Conc
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Cement Summary

Cement Plug

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Tail				
Fluid Type Tail	Fluid Description PlugCem w/ 0.45% HR-601, 0.75% CFR-3	Quantity (sacks) 270	Class	Volume Pumped (bbl) 45.6
Estimated Top (ftKB) 8,214.0	Estimated Bottom Depth (ftKB) 8,690.0	Percent Excess Pumped (%)	Yield (ft³/sack) 0.95	Fluid Mix Ratio (gal/sack) 3.50
Free Water (%)	Density (lb/gal) 17.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives		
Add	Type	Conc

Spacer					
Fluid Type Spacer	Fluid Description Tuned Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 1.7	
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									
Add		Type		Rate		Conc			

Displacement				
Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	Displaced w/ mud			126.0
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							
Add		Type		Conc			

2:7,512.0-8,214.0ftKB							
Top Depth (ftKB) 7,512.0	Bottom Depth (ftKB) 8,214.0	Full Return? N	Vol Cement Ret (bbl) 3	Top Plug? N	Bottom Plug? N		
Initial Pump Rate (bbl/min) 3	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)	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		

Spacer				
Fluid Type Spacer	Fluid Description Tuned Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 20.0
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									
Add		Type		Conc		Conc		Conc	

Lead					
Fluid Type Lead	Fluid Description PlugCem w/ 0.45% HR-601, 0.75% CFR-3	Quantity (sacks) 295	Class	Volume Pumped (bbl) 50.0	
Estimated Top (ftKB) 7,512.0	Estimated Bottom Depth (ftKB) 8,214.0	Percent Excess Pumped (%)	Yield (ft³/sack) 0.95	Fluid Mix Ratio (gal/sack) 3.50	
Free Water (%)	Density (lb/gal) 17.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc

Spacer				
Fluid Type Spacer	Fluid Description Tuned Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 1.7
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 Summary

Cement Plug

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description Displaced w/ mud	Quantity (sacks)	Class	Volume Pumped (bbl) 124.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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

Add	Type	Conc



Cement Summary

Production Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015				Mud Line Elevation (ft)	Water Depth (ft)

Original Hole							
Wellbore Name Original Hole		Directional Type Vertical		Kick Off Depth (ftKB)		Vertical Section Direction (°) 0.00	
Hole Size (in)		Act Top (ftKB)		Act Blm (ftKB)			
20		31.0		139.0			
17 1/2		139.0		446.0			
12 1/4		446.0		6,986.0			
8 1/2		6,986.0		8,690.0			

ST1							
Wellbore Name ST1		Directional Type Horizontal		Kick Off Depth (ftKB) 7,936		Vertical Section Direction (°) 359.79	
Hole Size (in)		Act Top (ftKB)		Act Blm (ftKB)			
8 1/2		7,512.0		15,710.0			

<typ>, <make> on <dtmstart>							
Type				Install Date			
Des	Make	Model	WP (psi)	Service	SN		

Conductor, Planned?-N, 139ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Conductor		Original Hole		2/6/2015		139		-31.0		
Centralizers						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	20	18.250	166.40	HC P110			108.00	31	139

Surface, Planned?-N, 436ftKB										
Casing Description Surface		Wellbore Original Hole		Run Date 2/14/2015		Set Depth (MD) (ftKB) 436		Stick Up (ftKB) -31.0		Set Tension (kips)
Centralizers 5						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Blm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40			3.25	31	34
1	Pup Joint	13 3/8	12.715	48.00	H-40			5.33	34	40
8	Casing Joint	13 3/8	12.715	48.00	H-40			319.95	40	360
1	Float Collar	13 3/8	12.715	48.00	H-40			1.34	360	361
2	Casing Joint	13 3/8	12.715	48.00	H-40			73.56	361	434
1	Float Shoe	13 3/8	12.715	48.00	H-40			1.56	434	436

Intermediate Casing 1, Planned?-N, 6,978ftKB										
Casing Description		Wellbore	Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Intermediate Casing 1		Original Hole	2/26/2015		6,978		7.4			
Centralizers					Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger	9 5/8	8.750	43.50	HCP-110			0.80	-7	-7
1	Landing Joint	9 5/8	8.750	43.50	HCP-110			38.37	-7	32
1	Pup	9 5/8	8.750	43.50	HCP-110			4.18	32	36
48	Casing Joint	9 5/8	8.750	43.50	HCP-110			1,863.98	36	1,900
1	DV TOOL	9 5/8	8.750	43.50	HCP-110			24.75	1,900	1,925
128	Casing Joint	9 5/8	8.750	43.50	HCP-110			4,977.74	1,925	6,902
1	Float Collar	9 5/8	8.750	43.50	HCP-110			1.18	6,902	6,904
2	Casing Joint	9 5/8	8.750	43.50	HCP-110			72.79	6,904	6,976
1	Float Shoe	9 5/8	8.750	43.50	HCP-110			1.62	6,976	6,978



Cement Summary

Production Casing Cement

Well Name SKEEN 22-26-26 FED 007H	Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015	Mud Line Elevation (ft) Water Depth (ft)

Production Casing, Planned 7-N, 15,700ftKB											
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)	
Production Casing		Original Hole		3/29/2015		15,700		4.9			
Centralizers						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Bot Depth (MD) (ftKB)	
1	Landing Joint	5 1/2	4.906	17.00	P-110			37.27	-5	32	
1	Pup Joint/Hanger	5 1/2	4.906	17.00	P-110			5.20	32	38	
192	Casing Joint	5 1/2	4.906	17.00	P-110			7,821.37	38	7,859	
1	Marker Joint	5 1/2	4.906	17.00	P-110			9.98	7,859	7,869	
188	Casing Joint	5 1/2	4.906	17.00	P-110			7,638.20	7,869	15,507	
1	Pup	5 1/2	4.906	17.00	P-110			9.10	15,507	15,516	
1	RSI	5 1/2	4.906	17.00	P-110			5.59	15,516	15,522	
1	Pup	5 1/2	4.906	17.00	P-110			9.11	15,522	15,531	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.81	15,531	15,572	
1	Landing Collar	5 1/2	4.906	17.00	P-110			1.55	15,572	15,573	
1	Casing Joint	5 1/2	4.906	17.00	P-110			40.34	15,573	15,614	
1	Float Collar	5 1/2	4.906	17.00	P-110			2.05	15,614	15,616	
2	Casing Joint	5 1/2	4.906	17.00	P-110			82.56	15,616	15,698	
1	Float Shoe	5 1/2	4.906	17.00	P-110			1.80	15,698	15,700	

Production Casing Cement, Casing, 4/1/2015 01:00											
Cementing Start Date 4/1/2015				Cementing End Date 4/1/2015				Wellbore ST1			

Evaluation Method Returns to Surface	Cement Evaluation Results Full Returns throughout job.
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Comment
Pump Production cement job as per follows:

Test lines to 5,000 psi
10 BBLs FW spacer
20 BBLs Tuned Spacer
136 BBLs (300 sxs) of 11.3# Lead
321 BBLs (996 sxs) of 12.5# Lead 2
43 BBLs (105 sxs) of 15# Tail
Drop Dart Plug and 2 Foam Balls
365 BBLs FW Displacement (first 24 BBLs with MMCR)

Bump Plug with 500 psi over at 1,554 psi. FCP = 1,056 psi. Held for 5 min. Bled back 2 BBLs; floats held.

1, 3,961.0-15,710.0ftKB											
Top Depth (ftKB) 3,961.0		Bottom Depth (ftKB) 15,710.0		Full Return? Y		Vol Cement Ret (bbl) 0.0		Top Plug? N		Bottom Plug? Y	
Initial Pump Rate (bbl/min) 7		Final Pump Rate (bbl/min) 4		Avg Pump Rate (bbl/min) 7		Final Pump Pressure (psi) 1,056.0		Plug Bump Pressure (psi) 1,049.0			
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			

Spacer											
Fluid Type Spacer		Fluid Description 10 BBL FW Spacer		Quantity (sacks)		Class		Volume Pumped (bbl) 10.0			
Estimated Top (ftKB)		Estimated Bottom Depth (ftKB)		Percent Excess Pumped (%)		Yield (ft ³ /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											
Add				Type				Conc			



Cement Summary

Production Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)		Water Depth (ft)	

Spacer				
Fluid Type Spacer	Fluid Description Tuned Spacer III - 0.35 gal/bbl Dual Spacer Surfactant B - 38.32 gal/bbl Fresh Water - 0.35 lbm/bbl FE-2 - 2 lbm/bbl D-Air 5000 - 69.8670 lbm/bbl Barite	Quantity (sacks)	Class	Volume Pumped (bbl) 20.0
Estimated Top (ftKB) 3,961.0	Estimated Bottom Depth (ftKB) 4,392.0	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							
Add		Type			Conc		

Lead				
Fluid Type Lead	Fluid Description VeriCem - PB1 - 3 lbm Kol-Seal - 0.25 lbm D-Air 5000 - 0.10% SA-1015	Quantity (sacks) 300	Class C	Volume Pumped (bbl) 136.0
Estimated Top (ftKB) 4,392.0	Estimated Bottom Depth (ftKB) 7,275.0	Percent Excess Pumped (%) 50.0	Yield (ft³/sack) 2.54	Fluid Mix Ratio (gal/sack) 15.08
Free Water (%)	Density (lb/gal) 11.30	Zero Gel Time (min)	Thickening Time (hr) 6.25	1st Compressive Strength (psi)

Cement Fluid Additives							
Add		Type			Conc		

Lead				
Fluid Type Lead	Fluid Description VariCem - PB2 - 0.20% Super CBL - 3 lbm Kol-Seal - 0.30% CFR-3, W/O Defoamer - 0.50% Halad(R)-344 - 0.10% HR-601 - 0.10% FE-2	Quantity (sacks) 996	Class C	Volume Pumped (bbl) 321.0
Estimated Top (ftKB) 7,275.0	Estimated Bottom Depth (ftKB) 14,700.0	Percent Excess Pumped (%) 35.0	Yield (ft³/sack) 1.81	Fluid Mix Ratio (gal/sack) 9.50
Free Water (%)	Density (lb/gal) 12.50	Zero Gel Time (min)	Thickening Time (hr) 4.42	1st Compressive Strength (psi)

Cement Fluid Additives							
Add		Type			Conc		

Tail					
Fluid Type Tail	Fluid Description SoluCem-H - 0.25 lbm D-Air 5000 - 0.70% HR-601	Quantity (sacks) 135	Class H	Volume Pumped (bbl) 49.0	
Estimated Top (ftKB) 14,700.0	Estimated Bottom Depth (ftKB) 15,710.0	Percent Excess Pumped (%) 0.0	Yield (ft³/sack) 2.62	Fluid Mix Ratio (gal/sack) 11.10	
Free Water (%)	Density (lb/gal) 15.00	Zero Gel Time (min)	Thickening Time (hr) 0.50	1st Compressive Strength (psi)	

Cement Fluid Additives							
Add		Type			Conc		

Displacement				
Fluid Type Displacement	Fluid Description MMCR Water - 0. gal/bbl Micro Matrix Cement Retarder.	Quantity (sacks)	Class	Volume Pumped (bbl) 24.0
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							
Add		Type			Conc		



Cement Summary

Production Casing Cement

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Displacement				
Fluid Type Displacement	Fluid Description Fresh Water	Quantity (sacks)	Class	Volume Pumped (bbl) 341.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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		
Add	Type	Conc



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Report Start Date: 2/6/2015

R/D Ensign 767 on Rustler Bluff 2H. Move CVX camps and miscellaneous loads to Skeen 7H.

Crew Broke Tour, Waiting on daylight.

Report Start Date: 2/7/2015

Crew Broke Tour, Waiting on daylight.

R/D Ensign 767 on Rustler Bluff 2H. Move Ensign camps, motors, pumps and pits. Squat subs.

Crew Broke Tour, Waiting on daylight.

Report Start Date: 2/8/2015

Crew Broke Tour, Waiting on daylight.

R/D Ensign 767 on Rustler Bluff 2H. Move miscellaneous loads. Lower Derrick. R/U backyard.

Crew Broke Tour, Waiting on daylight.

Report Start Date: 2/9/2015

Crew Broke Tour, Waiting on daylight.

Move Derrick and Subs; set same. R/U generator package and back yard. R/U Ensign 767 on Skeen 7H.

Note: Hardbanding DP on Skeen 6H.

Crew Broke Tour, Waiting on daylight.

Report Start Date: 2/10/2015

Crew Broke Tour, Waiting on daylight.

R/U backyard on Skeen 7H. Prepare to raise derrick and subs in the morning.

Note: Hardbanding DP on Skeen 6H.

Crew Broke Tour, Waiting on daylight.

Report Start Date: 2/11/2015

Crew Broke Tour, Waiting on daylight.

Held PJSM w/ Ensign & Monster Movers. Raised derrick & subs. Installed service loops on rig floor, set floor plates, handrails, roughneck, choke, stairs. Dressed floor, spooled up air hoists & functioned/spooled up drawworks. 13-3/8" 48# H40 STC surface casing delivered to Skeen 22 Fed 7H. Begin hazard hunt and pre-spud rig inspection.

Note:

Hardbanding DP on Skeen 6H.

BLM notified about spud on Skeen 7H @ 12:00 on 2/11/15

Report Start Date: 2/12/2015

Finish R/U miscellaneous equipment throughout location. Function pumps, set proximity switch on derrick & catwalk. Perform spin & torque test on top drive. R/U conductor pipe. Strap surface BHA. Welder adjusting conductor to fit with flow line.

Note:

Hardbanding DP on Skeen 6H.

Accepted Rig @ 21:00 hrs

Report Start Date: 2/13/2015

Finish securing conductor riser.

P/U 17-1/2" PDC Bit (HC605S) & surface BHA. TIH & tag @ 139'.

Circulate through surface equipment.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com					
Drill f/ 139' to 360'					
Avg ROP: 12 fph GPM: 500 TDRPM: 60 WOB: 10 lb Torque: 4-6 k					
Note: Totco not reading correct hook load. Causing autodriller to kick out. Drilled w/out auto-driller. Drilling w/ only one pump					

Report Start Date: 2/14/2015					
Com					
Drill f/ 360' to 446'					
Avg ROP: 12 fph GPM: 500 TDRPM: 60 WOB: 10 lb Torque: 4-6 k					
Note: Totco not reading correct hook load. Causing autodriller to kick out. Drilled w/out auto-driller. Drilling w/ only one pump					

Circulated 2 sweeps and calculated 10 bbl washout.					
Note: Issues with trip tank					
Dropped Totco survey & TOH w/ 17-1/2" BHA. R/B 12 - 6-1/2" DC & 3 - 8" DC.					
L/D Shock sub & 17-1/2" Bit					
R/D Conductor Riser.					
PJSM w/ Franks & R/U Casing running equipment					
Run 13-3/8" 48# H-40 STC Surface casing & tag @ 446'. M/U wellhead landing joint and set @ 436'.					
R/D Franks Casing equipment					
Hold PJSM with Halliburton cementers; R/U same. Circulate 1.5 casing capacity.					
Cement 13 3/8" Surface casing as per Halliburton:					
Test surface lines to 1,500 psi.					
Pump: 20 BBL spacer 131.5 BBL (550 sxs) of 14.8 ppg Tail 57 BBL of Displacement Bump Plug with 500 psi over, FCP 216 psi. Bled back 1 bbls; Float held.					
R/D Halliburton Cementers.					
L/D landing joint. N/U SH-2 Wellhead.					

Report Start Date: 2/15/2015					
Com					
Dress SH-2 Wellhead. L/D landing joint & remove isolation sleeve.					
Notify BLM of intent to test BOPE's at 02:00 hrs on 2/15/15					
Raise stack. Clean studs for DSA, N/U BOP stack.					
Test Class IV 13-5/8", 10M BOPE to 250 psi low / 5,000 psi high for 10 min/test. Test annular to 250 psi low and 3,500 psi high. Test good.					

Report Start Date: 2/16/2015					
Com					
Test 13-3/8" surface casing to 1,200 psi for 30 min. Test good.					
R/D testing equipment & lines.					
Install flow line, kill line, fill up line. Install wear bushing & mouse hole.					
PJSM w/ Halliburton before P/U directional tools. P/U 12-1/4" Intermediate BHA					
Rig Service					
Test motor & MWD. M/U 12-1/4" Baker DP507X Bit & TIH.					



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Performed choke drill, man down, spill, fire, H2S, & evacuation.

Drill float equipment & cement to 446'

Drill 10' of new formation to 456'

Perform FIT @ 13.6 ppg.

Drill 12-1/4" intermediate section f/ 456' to 560'

Avg ROP: 26 fph

WOB: 18-22K

RPM: 65

GPM: 630

TQ: 7000 ft/lbs

SPP: 2100 psi

Note:

Had to hand drill due to issues w/ auto-driller

Troubleshoot Ensign proximity switch & NOV Totco for auto-driller. NOV recalibrated Totco. Issues still with proximity switch.

Drill 12-1/4" intermediate section f/ 560' to 733'

Avg ROP: 80

WOB: 18-22K

RPM: 65

GPM: 600

TQ: 7000 ft/lbs

SPP: 1900 psi

Note:

Hand drilling due to proximity switch.

Report Start Date: 2/17/2015

Drill 12-1/4" intermediate section f/ 733' to 1,714'

Avg ROP: 60

WOB: 22-25K

RPM: 75

GPM: 625

TQ: 8000 ft/lbs

SPP: 2000 psi

Slide f/1,714' to 1,738'

Drill 12-1/4" intermediate section f/ 1,738' to 1812'

Avg ROP: 49

WOB: 30-40 Klbs

RPM: 75

GPM: 600

TQ: 10-12 kft/lbs

SPP: 2200 psi

Slide f/1812' to 1,827'

Drill 12-1/4" intermediate section f/ 1,827' to 1869'

Avg ROP: 84

WOB: 30-40 Klbs

RPM: 75

GPM: 520

TQ: 7-8kft/lbs

SPP: 1500 psi

Rig Service



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com

Drill 12-1/4" intermediate section f/ 1,869' to 2097'

Avg ROP: 65
WOB:30-40 Klbs
RPM: 75
GPM: 520
TQ: 7-8 kft/lbs
SPP: 1500 psi

Report Start Date: 2/18/2015

Com

Drill 12-1/4" intermediate section f/ 2,097' to 2,908'

Avg ROP: 44
WOB:30-40 Klbs
RPM: 75-80
GPM: 500-545
TQ: 6-7 kft/lbs
SPP: 1500 psi

Note:
ROP dropped to 15 fph. Decided to trip & c/o bit & motor

Pump 30 bbl high vis sweep, C&C while building slug

Flow check well (Well Static), pump slug

TOH f/2908' to surface
changed out MWD, L/D, motor and bit.
Clean rig floor.

Note:
Hole pulled slick
Hole took correct fill.
Pulled rotating head @ 2544'
Bit had started coring into the matrix.
AKO sleeve on motor was backed off 1 1/2 rounds

Changed out motor & dialed new 8" 6/7 4.0 stg motor up from 1.5 to 1.83, torqued sleeve to 35 kftlbs

Report Start Date: 2/19/2015

Com

Test motor & MWD. M/U 12-1/4" bit.

TIH f/ 1,432'

Install rotating head.

TIH f/ 1,432' to 2,908'

Drill f/ 2,908' t/ 3,248'

Avg ROP: 68
WOB:22-28 Klbs
RPM: 75-80
GPM: 500-545
TQ: 7-8 kft/lbs
SPP: 1500 psi

Rig Service

Drill f/ 3,248' t/ 4120'

Avg ROP: 62
WOB:25-30Klbs
RPM: 75-80
GPM: 600
TQ: 8-9 kft/lbs
SPP: 1800 psi

Report Start Date: 2/20/2015



Summary Report

Drill

Drill and Suspend

Job Start Date: 2/6/2015

Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com

Drig f/ 4120' to 4955'
AROP = 35 fph
WOB = 25-40 klbs
TD RPM = 60-75
TD Torque = 9-12 kftlbs
Motor RPM = 100-107
GPM = 586-628
Diff psi = 225-400
SPP = 2000 psi
MW = 10.3 ppg
pH = 12

Note:

Drilled with #2 pump while changing liner & swap in #1 pump from 4906' to 4925'

Report Start Date: 2/21/2015

Com

Drig f/ 4,955' to 4,994'

AROP = 19.5 fph
WOB = 35-40 klbs
TD RPM = 70-75
TD Torque = 9-12 kftlbs
Motor RPM = 107
GPM = 630
Diff psi = 120-300
SPP = 2000 psi
MW = 10.3 ppg
pH = 12

Note:

Undesireable 'ROP. Decide to TOH to C/O 12-1/4" Bit and motor.

L/O stand built in mouse hole. R/B kelly stand.

Pump sweep, built slug, & filled trip tanks. Flow check, well static. Pump slug.

TOH f/ 4,994 to surface.

L/O MWD tools, 12-1/4" MM65DM Bit, & 8" motor

Test MWD tools and M/U 8" motor (1.50° Fixed) & 12-1/4" MM65DM

TIH t/ 1,235'.

Wash & ream ledge @ 1,235'.

TIH f/ 1,235' t/ 4,994'

Drill f/ 4,994" to 5363

AROP = 49 fph
WOB = 15-25 klbs
TD RPM = 70
TD Torque = 7-9 kftlbs
Motor RPM = 100
GPM = 586
Diff psi = 150-250
SPP = 1960 psi
MW = 10.3 ppg
pH = 11

Rig Service

Report Start Date: 2/22/2015



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Drill f/ 5,363' to 5,650'

AROP = 48 fph
WOB = 20-25 klbs
TD RPM = 70-75
TD Torque = 8-9 kftlbs
Motor RPM = 100
GPM = 585
Diff psi = 200-400
SPP = 1900 psi
MW = 10.3 ppg
pH = 11

Note:
Started to lose significantly (~70 bbls/hr) @ 5,645'. Had to start blending premixed Sprayberry to lower mud weight

Drill f/ 5,650' to 6,112'

AROP = 42 fph
WOB = 22-30 klbs
TD RPM = 75-85
TD Torque = 8-9 kftlbs
Motor RPM = 90-94
GPM = 525-555
Diff psi = 90-200
SPP = 1800 psi
MW = 10.3 ppg to 9.9 ppg
pH = 11

Note:
Continued to blend 100 bbl increments of 8.6 ppg Sprayberry mud to lower mud weight.

Rig Service.

Slide f/ 6112' to 6132'

AROP = 11 fph
WOB = 22-30 klbs
Motor RPM = 90-94
GPM = 525-555
Diff psi = 90-200
SPP = 1800 psi
MW = 10
pH = 11

Drill f/ 6,132' to 6,211'

AROP = 53 fph
WOB = 22-30 klbs
TD RPM = 75-85
TD Torque = 8-9 kftlbs
Motor RPM = 90-94
GPM = 525-555
Diff psi = 90-200
SPP = 1800 psi
MW = 9.8 ppg
pH = 11

Note:
Continued to blend 100 bbl increments of 8.6 ppg Sprayberry mud to lower mud weight.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Slide f/ 6211' to 6241'

AROP = 9 fph
WOB = 22-30 klbs
Motor RPM = 102
GPM = 600
Diff psi = 90-200
SPP = 1900 psi
MW = 9.9
pH = 11

Note:
Losses @ 10-20 bbls an hour

Report Start Date: 2/23/2015

Drill f/ 6,241' to 6,495'

AROP = 39 fph
WOB = 22-30 klbs
Motor RPM = 102
GPM = 580
Diff psi = 90-200
SPP = 1900 psi
MW = 9.9
pH = 11

Note:
Significant losses @ 6,495' at 180 bph.

Reduce pump rate & circulate while building mud and LCM pill. Spot LCM Pill.

Slide f/ 6,495' to 6503

AROP = 4 fph
WOB = 22-30 klbs
Motor RPM = 102
GPM = 580
Diff psi = 90-200
SPP = 1900 psi
MW = 9.5 ppg
pH = 11

Note:
Cutting back mud weight from 9.9 ppg to 9.5 ppg

Drill f/ 6,503' to 6,589'

AROP = 25 fph
WOB = 20-25 klbs
TD RPM = 75-85
TD Torque = 8-9 kftlbs
Motor RPM = 90-94
GPM = 418
Diff psi = 90-200
SPP = 1400 psi
MW = 9.5 ppg
pH = 11

Rig Service

Drill f/ 6,589' to 6,716'

AROP = 16 fph
WOB = 20-25 klbs
TD RPM = 75-85
TD Torque = 8-9 kftlbs
Motor RPM = 90-94
GPM = 418-545
Diff psi = 200-300
SPP = 1975 psi
MW = 9.5 ppg
pH = 11



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Report Start Date: 2/24/2015

Drill Intermediate hole section from 6,750' to 6,780' MD.

Perform rig maintenance as per Ensign specifications.

Drill Intermediate hole section from 6,780' to 6,871' MD.

Note: Losses at 20 bbl/hr; keeping MW down to 9.6 ppg with additions of Sprayberry Mud.

Circulate hole clean. Troubleshoot MWD; No response; drill ahead.

Drill Intermediate hole section from 6,871' to 6,962' MD.

AROP = 14 fph; WOB = 35 klbs; Motor RPM = 102; GPM = 580; Diff psi = 90-200; SPP = 2,400 psi; MW = 9.4; pH = 11

Note: Losses at 20 bbl/hr; keeping MW down to 9.6.

Circulate B/U; looking for 80% Carbonate, 30% Limestone, 50% Shale, 20% Sandstone

Drill Intermediate hole section from 6,962' to 6,986' MD.

6,970' MD = 40% Limestone, 50% Shale, 10% Sandstone

6,980' MD = 50% Limestone, 40% Shale, 10% Sandstone

6,985' MD = 50% Limestone, 40% Shale, 10% Sandstone

Note: AROP slowed to 1.3 ft/hr.

Report Start Date: 2/25/2015

Circulate B/U to catch sample at 6,786' MD = 50% Limestone, 40% Shale, 10% Sandstone. Geology OK'ed to set shoe. Build high vis sweep, circulate and clean hole.

Perform flow check; well static. Build and pump slug.

TOOH from 6,986' to 1,760' MD.

Remove Rotating Head. Install Trip Nipple.

Richard at BLM was contacted at 07:30 hrs of intent to RIH and cement Intermediate casing

TOOH from 1,760' to 1,425' MD.

Wash and Ream tight spots from 1,425' to 1,204' MD.

TOOH from 1,205' to 201' MD.

L/D 8" DC's and Intermediate BHA.

Pull Wear Bushing. Clean and clear rig floor.

Perform rig service as per Ensign specifications.

PJSM with Franks casing crew on R/U equipment; rig up same.

PJSM with Franks casing crew on RIH with Intermediate casing. Thread-Lok shoe track and pump through float equipment; good. RIH with 9 5/8", 43.5#, HC P-110, LTC Intermediate casing from surface to 2,196' MD.

Report Start Date: 2/26/2015

RIH with 9 5/8", 43.5#, HC P-110, LTC Intermediate casing to 5,936' MD.

Chane out casing elevators from 150 ton to 350 ton (air).

RIH with 9 5/8", 43.5#, HC P-110, LTC Intermediate casing to 6,986' MD, verify bottom. L/D tag joints. P/U landing joint and set casing at 6,978' MD.

PJSM on R/D casing equipment; rig down same.

R/U cement head and cement equipment; circulate through same.

PJSM with Halliburton cementers over cementing operations.

Perform Intermediate cement job utilizing DV Tool.

Stage 1:

Test lines to 3,000 psi

20 bbl TS3 Spacer

492 bbls (1,455 sxs) of 12.9 ppg Lead

73 bbls (305 sxs) of 14.8 ppg Tail

513 bbls of FW Displacement with Red dye in 39th bin (directly above DV Tool).

Bump plug at 974 psi (500 over); Bled back 2 bbls; Floats held.

Set Packer with 2,600 psi.

Drop Bomb, wait 30 min.

Pressure up to 640 psi to open DV Tool.

Wash-up on DV Tool, 80 bbls (238 sxs) of cement to surface.

During washup of DV Tool, Noted annulus of 315 bbls; 278 bbls of 2nd stage cement (220% excess) on location. Waiting on 330 sxs of Lead from Odessa. Washout pump trucks, stack, and surface lines. Circulate on hole with rig pumps.

Report Start Date: 2/27/2015



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

During washup of DV Tool, Noted annulus of 315 bbls; 278 bbls of 2nd stage cement (220% excess) on location. Waiting on 330 sxs of Lead from Odessa. Circulate on hole with rig pumps.
Note: Icy road conditions, travel slow.

PJSM on Cementing 2nd stage with Halliburton.

Pump Intermediate cement job utilizing DV Tool.

Stage 2:

Test lines to 4,000 psi

20 bbl TS3 Spacer

382 bbls (1,135 sxs) of 12.9 ppg Lead

15 bbls (65 sxs) of 14.8 ppg Tail

141 bbls of FW Displacement of Active mud.

Bump plug at 1,722 psi (500 over); Bled back 1.5 bbls; Floats held.

R/D Halliburton Cementers.

Wash through stack and choke manifold.

Circulate through kill line taking returns down flow line with charger pumps. Waiting on Warrior Energy Services for Temp log to find TOC as per BLM.

PJSM with Warrior on R/U of Temp Log.

Run Temp Log to 575' MD; TOC at 129' MD.

R/D Warrior Energy Services.

Contact BLM for okay to Proceed; Okay.

L/D landing joint. Change out bells and elevators.

Set Pack-off, test same to 3,000 psi; test good.

Call Jim at BLM at 23:45 of intent to Test BOPE

Report Start Date: 2/28/2015

Test packoff to 3,000 psi for 15 min; test good.

R/D Packoff running tool.

PJSM with Mans Welding over Testing Operations.

R/U Mans Welding, fill stack.

C/O Test plug, fill stack.

Test Class IV 13 3/8", 10M BOPE to 250 psi low / 5,000 psi high. Test annular to 250 psi low / 3,500 psi high.

R/D Mans Welding.

Install Wear Bushing and secure.

Clean and Clear rig floor.

Bring directional tools to rig floor.

P/U and M/U 8 1/2" Vertical Production BHA. Test MWD, failed, C/O Transducer and cable. Test MWD, test good.

Held walk through JSA on P/U and M/U Drill Collars.

TIH with Production BHA to 1,872' MD. Tag cement at 1,872' MD. Tag DV Tool bomb at 1,901' MD.

Drill out cement and DV Tool Bomb from 1,872' to 1,907' MD.

Perform rig maintenance as per Ensign specifications.

TIH with Production BHA from 1,907' to 2,717' MD.

Report Start Date: 3/1/2015

TIH from 2,717' to 6,864' MD (TOC).

Test Intermediate casing to 1,500 psi for 30 min, test good.

Perform Choke Drill.

Drill cement and float equipment from 6,864' to 6,985' MD. Drill 10' of new formations to 6,995' MD.

Attempt to perform FIT to an EMW of 12.6 ppg (1,200 psi); test failed. Casing balanced at 460 psi (EMW of 10.5 ppg).

Perform flow check, well static. Pump slug.

TOOH to 5,737' MD. Remove rotating head, install trip nipple. TOOH to surface. Rack back DP and BHA, remove Bit.

Wait on squeeze job equipment. Clean miscellaneous equipment.

PJSM with Halliburton over RIH with squeeze job equipment. Bring tools to rig floor; rig up same.

P/U setting tool, perform dummy run in hole. P/U cement retainer and attach to setting tool with 10 shear screws.

TIH with squeeze job equipment and 5" DP from surface to 2,770' MD.

Report Start Date: 3/2/2015

TIH with cement retainer to 6,049' MD. Pull trip nipple and install rotating head. TIH to 6,770' MD.

Circulate through cement retainer.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015			Mud Line Elevation (ft)	Water Depth (ft)	

Com							
Set cement retainer at 6,770' MD. Pull with 52K to set shear screws. Extend stinger with 35 revolutions. Sting into retainer and set 30K down.							
PJSM with Halliburton on R/U; Rig up same. Tie cementers into pits and choke manifold.							
PJSM on pumping squeeze job. Perform walk through JSA; noticed side entry sub was not on location.							
R/U to test cement retainer to 600 psi on annulus for 5 min; good.							
Wait on side entry sub.							
Perform Injection rate test. 2 bbls at 1 bpm at 675/370 psi 5 bbls at 2 bpm at 745/371 psi 10 bbls at 4 bpm at 936/402 psi							
Wait on side entry sub.							
R/U side entry sub.							
PJSM with Halliburton on cement squeeze job.							
Test lines to 2,500 psi. Establish circulating pressure and maintain 600 psi on back side through choke at 2 bbl/min with cement truck.							
Pump squeeze cement job at 2 bpm. 4 bbls of Active 9.4 ppg mud. 5 bbls of FW spacer. 30 bbls of 14.8 ppg Cement. 5 bbls of FW spacer. 76 bbls of Active 9.4 ppg mud. Hold 600 psi on backside. Sting into cement retainer. 49 bbls of Active 9.4 ppg mud with max pressure 880 psi at 49 bbls. Wait 5 min. 2 bbls of Active 9.4 ppg mud at 0.3 bpm with max pressure at 530 psi. Start Hesitation squeeze job. Wait 30 min. 1 bbl of Active 9.4 ppg mud at 0.3 bpm with max pressure at 512 psi. Held pressure at 279 psi. 2 bbls of cement left inside of shoe.							
Unsting from retainer, bleed off pressure from back side. R/D Halliburton cementers. L/D Dart Valve, TIW and side entry sub.							
Circulate B/U through DP and setting tool at 100 stks/min. Perform flow check; well static.							
Report Start Date: 3/3/2015							
Com							
TOH from 6,742' to 5,772' MD. Pull rotating head, install trip nipple. TOOH from 5,772' MD to surface at setting tool, L/D same.							
PJSM with Halliburton on M/U BHA.							
Latch onto directional tools. P/U and test MWD. M/U bit.							
TIH from surface to 3,213' MD.							
Remove trip nipple, install rotating head.							
TIH from 3,213' to 6,770' MD. Tag cement retainer.							
Fill pipe and establish circulation. line up to circulate through gas buster, could not establish returns due to blockage in gas buster. Suck out and clean gas buster with vac truck. Pump through gas buster, unable to establish circulation. Suck out gas buster, break bolts on return line from gas buster and attempt to clear. Pump through gas buster.							
Tag cement retainer at 6,770' MD. Tag cement stringer at 6,971' MD. Drill from 6,971' to 6,995' MD.							
Circulate Bottoms up.							
Report Start Date: 3/4/2015							
Com							
Attempt to perform FIT; Fail. Max pressure 370 psi.							
Flow check, well static. Build slug.							
Pull 5 stands. Pump slug. Pull rotating head, install trip nipple.							
TOOH to 107' MD. Rack back DP in derrick.							
L/D NMDC, MWD Tool. Break Bit. Rack back directional tools.							
L/O and strap 2 7/8" tubing. Wait on tubing running equipment.							
P/U tubing handling equipment to rig floor, R/U same.							
PJSM with crew over P/U and M/U 2 7/8" EUE tubing.							
P/U and M/U 2 7/8" EUE tubing to 446' MD.							
TIH with 5" DP from 446' to 5,829' MD.							
Perform Drills.							
TIH with 5" DP from 5,829' to 6,995' MD. Tag Bottom. P/U 4'. Start Circulation.							
PJSM with Halliburton over R/U, R/U same.							
Circulate and winterize rig components. Drain separator and transfer pumps.							
PJSM with Halliburton over squeeze job, finish R/U.							



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com

Perform squeeze job.
Test lines to 3,500 psi.
Establish circulation with pump truck.
10 bbl of 11 ppg spacer at 4 bpm.
19 bbl of 15.6 ppg cement at 4 bpm.
2 bbl of 11 ppg spacer at 4 bpm.
Displace with 113 bbl of Active 9.3 ppg mud.
Equalize slurry.
Pull 5 stands at 3min/stand. Pull 1 wet, 4 dry.
Circulate 1.5 B/U.
Shut annular and start Hesitation squeeze job.
1 bbl at 0.3 bpm 355/304 - Wait 30 min.
1 bbl at 0.3 bpm 930/775 - Wait 30 min. (2 bbl)
0.7 bbl at 0.3 bpm 1,215/1,199 - Wait 1.5 min. (2.7 bbl)

Report Start Date: 3/5/2015

Com

Pull 5 stands to get above cement.
Circulate B/U.
Shut annular and start Hesitation squeeze job.
1 bbl at 0.3 bpm 355/304 - Wait 30 min.
1 bbl at 0.3 bpm 930/775 - Wait 30 min. (2 bbl)
0.7 bbl at 0.3 bpm 1,215/1,199 - Wait 1.5 min. (2.7 bbl)
Hold 1,200 psi for 1 hour. Release with 1,215 psi (Choke) and 1,170 psi (Cmt Truck).

Bleed off pressure through choke.
PJSM with Halliburton over R/D; R/D same.
Perform rig maintenance as per Ensign specifications.
TOOH from 6,552' to 5,546' MD. Pull rotating head; install trip nipple. TOOH from 5,546' to 448' MD.
R/U 2 7/8" tubing handling tools. POOH and L/D tubing from 448' to surface.
PJSM with Sperry on M/U directional tools.
P/U and M/U 8 1/2" Production pilot hole BHA. Test MWD. B/U Bit. TIH.
TIH with 8 1/2" Production BHA to 6,702' MD. Tag cement.
Drill cement from 6,702' to 6,864' MD. AROP = 180 ft/hr.
Circulate on well to collect cement samples.

Drill cement from 6,864' to 6,970' MD.
Perform FIT inside casing at 6,970' MD to 11.5 ppg (800 psi); Test Good.
Drill cement from 6,970' to 6,986' MD.
Perform FIT at 12 1/4" original TD at 6,986' MD to 11.5 ppg (800 psi); Test Good.
Drill cement from 6,986' to 6,996' MD.
Perform FIT to original 10' of new formation at 6,996' MD to 11.5 ppg (800 psi); Test Good.
Drill Intermediate hole section from 6,996' to 7,062' MD.

AROP = 26 fph; WOB = 25 klbs; Motor RPM = 102; GPM = 450; Diff psi = 200; SPP = 2,400 psi; MW = 9.3; pH = 11

Report Start Date: 3/6/2015

Com

Drill 8 1/2" Production Pilot hole section from 7,062 to 8,093' MD.
AROP = 59 fph; WOB = 24 klbs; Motor RPM = 93; GPM = 550; Diff psi = 320; SPP = 2,800 psi; MW = 9.5; pH = 11
Perform rig maintenance as per Ensign specifications.
Drill 8 1/2" Production Pilot hole section from 8,093 to 8,350' MD.
AROP = 43 fph; WOB = 24 klbs; Motor RPM = 93; GPM = 550; Diff psi = 320; SPP = 2,800 psi; MW = 9.5; pH = 11

Report Start Date: 3/7/2015

Com

Drill 8 1/2" Production Pilot hole section from 8,350 to 8,660' MD.
AROP = 39 fph; WOB = 24 klbs; Motor RPM = 93; GPM = 550; Diff psi = 320; SPP = 2,800 psi; MW = 9.5; pH = 11
Perform rig inspection as per Ensign specifications. Inspect Top Drive and Derrick.
Drill 8 1/2" Production Pilot hole section from 8,660 to 8,690' MD.
AROP = 30 fph; WOB = 24 klbs; Motor RPM = 93; GPM = 550; Diff psi = 320; SPP = 2,800 psi; MW = 9.5; pH = 11
Circulate hole clean. Build 12 ppg pill.
Perform flow check; well static.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

TOH from 8,690' to 6,864' MD. Pull rotating head, install trip nipple. TOH from 6,864' to 107' MD. Rack back DP, DC, and HWDP in Derrick.

L/D monel and bit. Rackback BHA.

PJSM with Baker over R/U and RIH with wireline. R/U same. Test lubricator to 500 psi; test good.

Finish R/U Baker wireline. Attach radioactive source and test; troubleshoot. Recalibrate tool.

Report Start Date: 3/8/2015

Finish R/U and calibrating quad combo Logging tools.

RIH with quad combo to 8,690' MD. Perform repeat pass to 8,190' MD. Log at 30 ft/min from 8,690' to 6,978' MD. Log at 65 ft/min from 6,978' to surface.

L/D logging tools. R/D wireline equipment and lubricator.

Clean and clear rig floor. P/U tubing handling tools.

P/U and M/U 1,008' of 2 7/8" tubing with orange peel. TIH with DP to 7,899' MD. Pull trip nipple, install rotating head. TIH to 8,690' MD.

Circulate bottoms up at 42 spm.

PJSM with Halliburton over R/U; R/U same.

Pump 1st cement plug from 8,690' to 8,190' MD.

Test lines to 3,000 psi.

20 bbls tuned spacer

45.6 bbls (276 sxs) of 17.5 ppg cement

1.7 bbl of tuned spacer

127.5 bbls of Active 9.8 ppg Displacement

TOH with 9 stands at 3 min/stand to 7,827' MD.

Report Start Date: 3/9/2015

Circulate on well; wait on cement.

TIH and wash with 40 spm to 8,215' MD.

Circulate B/U due to U-tubing at 8,203' MD.

Trip one stand in hole to 8,214' MD and tag cement.

PJSM with Halliburton over R/U cement iron and cement job.

Pump 2nd cement plug.

Test lines to 3,000 psi.

20 bbls tuned spacer

50 bbls (295 sxs) of 17.5 ppg cement

1.8 bbl of tuned spacer with red dye

124 bbls of Active 9.8 ppg Displacement

TOH with 9 stands to 7,367'.

Circulate bottoms up.

TOH from 7,367' MD to 1,007'.

Removed trip nipple @ 7,367'.

R/U 2-7/8" handling equipment. L/O tubing from 1,007' to surface. R/D tubing handling equipment.

RIH & L/O 6-1/2" DC

Slip & cut drill line.

P/U 8-1/2" Curve BHA. Test Motor & MWD. M/U 8-1/2" MMD55DM bit.

Report Start Date: 3/10/2015

P/U 8-1/2" Curve BHA. Test Motor & MWD. M/U 8-1/2" MMD55DM bit.

TIH w/ 8-1/2" curve assembly & tag cement @ 7,512'.

Drill cement f/ 7,512 to 7,665'.

Build trough f/ 7,635 to 7,665'.

Time drilled to sidetrack from cement plug.

5 ft @ 5 min/inch to 7,670'.

5 ft @ 4 min/inch to 7,675'.

5 ft @ 3 min/inch to 7,680'.

3 ft @ 2 min/inch to 7,683'.

Began slide @ 7,683' w/ 50% Shale, 30% Limestone, & 20% Cement

Report Start Date: 3/11/2015

Slide f/ 7,683' to 7,718'



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Drill & Slide f/ 7,718 to 8,010'

AROP = 26.5 fph
WOB = 20-30 klbs
TD RPM = 22
TD Torque = 7 kftlbs
Motor RPM = 123
GPM = 425
Diff psi = 215-400
SPP = 2000 psi
MW = 9.5 ppg
pH = 12

Rig Service.

Drill & Slide f/ 8,010' to 8,076'

AROP = 13.2 fph
WOB = 24-29 klbs
TD RPM = 0 - 30
TD Torque = 1500 ftlbs
Motor RPM = 123
GPM = 425
Diff psi = 175-330
SPP = 1700 psi
MW = 9.5 ppg
pH = 12

Drill & Slide f/ 8,076' to 8,293'

AROP = 36 fph
WOB = 35-45 klbs
TD RPM = 0 - 30
TD Torque = 4-6 kftlbs
Motor RPM = 145
GPM = 500
Diff psi = 175-330
SPP = 2000 psi
MW = 9.55 ppg
pH = 12

Report Start Date: 3/12/2015

Drill & Slide f/ 8,293' to 8,741'

AROP = 34 fph
WOB = 20-35 klbs
TD RPM = 35
TD Torque = 5-9 kftlbs
Motor RPM = 123-145
GPM = 425-500
Diff psi = 150-330 psi
SPP = 2000 psi
MW = 9.45 ppg
pH = 12

Note:
Differential pressure dropped. Motor not yielded what was needed.
Last survey @ 8,684' 71.02° INC 2.29° AZI.

Pumped sweep, CC while building slug. Flow Check. Well Static. Pump slug.

TOH f/ 8,741' to BHA.
Pulled rotating head @ 1,984'.
Hole took proper fill.

L/O bit & mud motor. P/U 6-3/4" Sperry Motor (2.38° Adj.) Test motor & MWD. M/U 8-1/2" MM55DM Bit.

Dull Grading: 0-1-CT-S-X-I-WT-DTF

TIH f/ surface to 3,584.

Report Start Date: 3/13/2015

TIH f/ 3,584' to 8,741'.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com
Drill/Slide f/ 8,741' to 8,862'. AROP = fph WOB = 30-45 klbs TD RPM = 0-35 TD Torque = 7-11 kftlbs Motor RPM = 130 GPM = 446 Diff psi = 100-200 psi SPP = 1800 psi MW = 9.45 ppg pH = 12 Note: Drilling w/out #2 pump. Decided to trip to C/O BHA & to replace module. RSS BHA will land the curve. Last survey @ 8,810', 84.59° INC 0.35° AZI. CC while working on #2 pump module. Note: Decided to TOH and land curve w/ lateral BHA. Pump sweep & build slug. Flow Check. Well Static. TOH f/ 8,862' to surface. Clean Rig Floor. R/U GeoSpan Manifold for RSS on rig floor. Troubleshoot MWD & EZ Pilot RSS. Monitoring well on trip tank. L/D 8-1/2" Curve Assembly. P/U 8-1/2" RSS Lateral assembly Report Start Date: 3/14/2015 Com P/U 8-1/2" RSS Lateral assembly. Finish P/U RSS Assembly & M/U 8-1/2" MM65D Bit. Shallow Test LWD tools. No test. C/O LWD collar to back up LWD collar. Shallow Test backup LWD tools. Successful test. Finish M/U RSS BHA & M/U 8-1/2" MM65D bit. TIH to intermediate shoe @ 6,951'. Rig Service. Continue working on #2 pump. Removed discharge module on #2 bay due to leakage. TIH 3 stands to 7,202' to test RSS & LWD. Troubleshoot RSS. No communication to RSS. Decided to TOH to C/O RSS. TOH 3 stands to 6,951'. Monitor on trip tank well while building slug. Report Start Date: 3/15/2015 Com Monitor Well while building slug. Flow check. Well static. Pump 30 bbl slug. TOH f/ 6,950' to 106' Power down LWD tools, break bit, & L/D EZ-Pilot. P/U & M/U back up EZ-Pilot. Power up LWD tool & shallow test LWD tools. Test good. M/U 8-1/2" MM65D Bit. TIH to 7,204'. Test RSS & LWD tools. Test good. TIH f/ 7,204' to 7,786'. Wash and ream f/ 7,786' to 8,862'. Drill f/ 8,860' to 8,872'. EZ-Pilot was not communicating, decision to POOH. CC while building slug. Flow check. Well static. Pump slug. TOH f/ 8,872' to 5,678' Report Start Date: 3/16/2015 Com TOH f/ 5,678' to BHA. L/D Sperry EZ-Pilot and LWD tools. Clean rig floor. Remove wear bushing. Install GE Vetco tes plug, and fill stack.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed		Field Name Delaware River		Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015			Mud Line Elevation (ft)	Water Depth (ft)	

R/U BOPE Tester.

Test Class IV 13-5/8", 10M BOPE to 250 psi low / 5,000 psi high for 10 min/test. Test annular to 250 psi low and 3,500 psi high. Perform function test on accumulator. All test good.

R/D BOPE Tester.

Pull GE Vetco test plug & Set wear bushing.

Rig Service.

Wait on Halliburton Sperry GeoPilot Tools. Monitor well on trip tank

Surface test GeoPilot & LWD tools.

Report Start Date: 3/17/2015

Monitor well on trip tank while waiting on Halliburton Sperry to program and test Geo-pilot & LWD on ground

Note: Tools arrived on location @ 22:30 3/16/15

Had to troubleshoot electrical problem, changed cables and battery power packs

P/U & M/U Halliburton Geo-Pilot & LWD tools, download tools, surface test with pumps, P/U & make up Security MM65D bit, 8 1/4" stabilizer, float sub & downhole screen sub

TIH with 5" push pipe to 7445'

Note:

Fill drill pipe every 30 stands

Test Geo-pilot to make sure it was receiving & sending downlink commands, test good, circulate bottoms up

Continue TIH with 5" push pipe (total 90 jts of 5" push pipe) to 8853'

Circulate bottoms up @ 8853', Max gas 880 units, no mud cut

Drig f/ 8,872' to 9,067'

AROP = 31 fph

WOB = 20-25 klbs

TD RPM = 60-83

GPM = 550-600 ppg

SPP = 1770 psi

MW = 9.4 ppg

pH = 10

Note: Halliburton MWD failed. Decided to P/U Schlumberger Pathfinder.

Last Survey @ 8,976' 89.63° INC 1.18° AZI

Troubleshoot MWD tool.

Rig Service

CC while building slug. Flow check. Well static. Pump slug.

TOH f/ 9,067' to 7,218'

Report Start Date: 3/18/2015

TOH f/ 7,218' to BHA.

Remove rotating head & install trip nipple @ 6,518'

L/O Sperry Geo-Pilot tools & subs w/ hoist. Break 8-1/2" MM65D Bit.

R/D Downlink Manifold on rig floor & release Halliburton Sperry.

Wait on Pathfinder Tools.

Clean rig floor, repair centrifugal pump, change out slip dies.

Monitor well on trip tank.

Pathfinder tools unloaded on location. R/U equipment

PJSM & JSA Review w/ Pathfinder on P/U BHA

P/U Directional tools & M/U 8-1/2" Bit.

Report Start Date: 3/19/2015

Wait on Pathfinder to program MWD tool

Install MWD & shallow test, test ok, finish making rotary steer able BHA

TIH to 6041', pulled trip nipple



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com
H2S alarms sounded showed to be in cellar area, evacuated rig to muster area, donned SCBA with 1 back up, checked area with Quad gas detector, no H2S, found sensor with broken antenna and low battery, swapped out, gave all clear to resume operations
Pulled trip nipple and install rotating head
Continue TIH from 6041' to 9067'
Circulate bottoms up @ 9067', max gas 1600 units, no mud cut
Drig f/ 9,067' to 9,144'
AROP = 28 fph WOB = 20-25 klbs TD RPM = 50-60 GPM = 500 SPP = 3000 psi MW = 9.4 ppg pH = 11
Note: Not receiving real time data from power drive
Troubleshoot power drive and MWD downhole tools
Drig f/ 9,144' to 9,445'
AROP = 41.5 fph WOB = 20-25 klbs TD RPM = 50-60 GPM = 500 SPP = 3000 psi MW = 9.4 ppg pH = 11
Note: Not receiving real time data from power drive. Pathfinder power drive building at undesirable rates. Decided to POOH & C/O to B/U tools on location. Last survey @ 9,372' 92.82° INC 0.18° AZI. 3.3' above & 7.4 ft right.
Rig Service.
CC 2 B/U while building slug & filling trip tanks.
Report Start Date: 3/20/2015
Com
Flow check well, pump slug, TOH from 9445' to 92'
Note: Hole pulled slick Hole took correct fill
L/D Pathfinder directional tools, pulled-MWD & broke off bit
P/U Pathfinder back-up power drive assembly, m/u bit, installed MWD, surface tested equipment, finish making up filter sub & top stabilizer
TIH with with BHA #12 from surface to 7085'
Note: Filled DP every 30 stands
Test MWD & power drive @ 7085' (Tested Good)
Continue TIH from 7085' to 9,414'
Pump up survey check shot @ 9,232' & 9,414'
Wash & ream f/ 9,414' to 9,445'
Rig service.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H	Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015	Mud Line Elevation (ft) Water Depth (ft)

Drig f/ 9,445' to 9,722'

AROP = 80 fph
WOB = 20-25 klbs
TD RPM = 45
GPM = 515
SPP = 2800 psi
MW = 9.45 ppg
pH = 11

Report Start Date: 3/21/2015

Drig f/ 9,722' to 10,544'

AROP = 72 fph
WOB = 17-25 klbs
TD RPM = 51
GPM = 512
SPP = 3000 psi
MW = 9.45 ppg
pH = 11

Rig Service.

Drig f/ 10,544' to 10,915'

AROP = 46 fph
WOB = 17-25 klbs
TD RPM = 51
GPM = 502
SPP = 2800 psi
MW = 9.25 ppg
pH = 11

Performed drills.

Drig f/ 10,915' to 11,315'

AROP = 123 fph
WOB = 17-25 klbs
TD RPM = 42-51
GPM = 502
SPP = 2800 psi
MW = 9.25 ppg
pH = 11

Report Start Date: 3/22/2015

Circulate with one pump unplugging liner wash on #2 MP

Drig f/ 11,315' to 11,747'

AROP = 86 fph
WOB = 20-25 klbs
TD RPM = 40-60
GPM = 502
SPP = 3300 psi
MW = 9.25 ppg
pH = 11

Circulate with one pump while changing out liner & swap on #2 MP



Summary Report

Drill**Drill and Suspend****Job Start Date: 2/6/2015****Job End Date: 4/2/2015**

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Drig f/11,747 to 12,090'

AROP = 69 fph
WOB = 20-25 klbs
TD RPM = 40-60
GPM = 502
SPP = 3300 psi
MW = 9.25 ppg
pH = 11

Circulate with one pump while changing out cap gasket on #2 MP

Drig f/12,090' to 12,396'

AROP = 32 fph
WOB = 20-25 klbs
TD RPM = 40-60
GPM = 550
SPP = 3300 psi
MW = 9.25 ppg
pH = 11

CC with one pump while C/O swab & liner on #2 mud pump.

Drig f/12,396' to 12,432'

AROP = 72 fph
WOB = 20 klbs
TD RPM = 40-60
GPM = 570
SPP = 3300 psi
MW = 9.25 ppg
pH = 11

Rig Service

Drig f/12,432' to 12,515'

AROP = 166 fph
WOB = 20 klbs
TD RPM = 42
GPM = 570
SPP = 3300 psi
MW = 9.25 ppg
pH = 11

Report Start Date: 3/23/2015

Drig f/12,515' to 13,227'

AROP = fph
WOB = 20 klbs
TD RPM = 42
GPM = 570
SPP = 3300 psi
MW = 9.3 ppg
pH = 11

Last Survey @ 13,152' 89.79° INC, 357.37° AZI, 5.38' Above, 34.95' Left.

Note:
Power Drive lost steerability. Decided to TOH to C/O BHA.

Perform clean up cycle & work the pipe. Building slug & preparing to TOH. Build up to 90 RPM while keeping torque below 20K. Pump-2 sweeps during cycle.

Report Start Date: 3/24/2015

Perform clean up cycle with RPM at 90. Pump sweeps. Perform flow check; well static.

TOOH and rack back DP in derrick.

L/D motor. Break out subs. P/U and M/U new bit and motor; test same, good.

Perform unit maintenance as per Ensign specifications.

TIH to 2,920' MD.

PJSM on Slip and Cut Drill Line. Hang off block, slip and cut 16 wraps (133') of Drill Line.



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name SKEEN 22-26-26 FED 007H		Lease Skeen 22-26-26 Fed	Field Name Delaware River	Business Unit Mid-Continent	
Ground Elevation (ft) 3,406.00	Original RKB (ft) 3,437.00	Current RKB Elevation 3,437.00, 1/28/2015		Mud Line Elevation (ft)	Water Depth (ft)

Com
TIH from 2,920' MD to 6,155' MD.
Perform flow check; static.
TIH from 6,155' to 8,950' MD.
Report Start Date: 3/25/2015
Com
TIH to 12,996' MD. Wash to 13,227' MD.
Drill from 13,227' to 13,936' MD.
AROP = 55 fph WOB = 20 klbs TD RPM = 41 GPM = 500 SPP = 3300 psi MW = 9.2 ppg pH = 11
Last Survey @ 13,902' 90.41° INC, 2.28° AZI, 6.69' Above, 9.63' Right.
Perform rig maintenance as per Ensign specifications.
Drill from 13,936' to 14,179' MD.
AROP = 37 fph WOB = 20 klbs TD RPM = 42 GPM = 535 SPP = 3200 psi MW = 9.2 ppg pH = 11
Last Survey @ 14,185' 88.08° INC, 358.66° AZI, 3.36' Above, 9.00' Right.
Report Start Date: 3/26/2015
Com
Drill from 14,179' to 15,073' MD.
AROP = 44 fph WOB = 26 klbs TD RPM = 42 GPM = 545 SPP = 3,400 psi MW = 9.4 ppg pH = 11
Last Survey @ 15,034' 91.31° INC, 354.02° AZI, 11.7' Above, 3.5' Left.
Perform unit maintenance as per Ensign specifications.
Drill from 15,073' to 15,160' MD.
AROP = 29 fph WOB = 26 klbs TD RPM = 42 GPM = 575 SPP = 3,400 psi MW = 9.4 ppg pH = 11
Last Survey @ 15,120' 88.25° INC, 355.1° AZI, 7.79' Above, 20.0' Left.
Report Start Date: 3/27/2015



Summary Report

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Job Start Date: 2/6/2015
Job End Date: 4/2/2015

Well Name	Lease	Field Name	Business Unit
SKEEN 22-26-26 FED 007H	Skeen 22-26-26 Fed	Delaware River	Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)
3,406.00	3,437.00	3,437.00, 1/28/2015	Water Depth (ft)

Com
Drill from 15,160' to 15,710' MD.
AROP = 42 fph WOB = 22 klbs TD RPM = 42 GPM = 585 SPP = 3,800 psi MW = 9.4 ppg pH = 11
Last Survey @ 15,671' 87.35° INC, 0.55° AZI, 10.03' Below, 32.08' Left.
Perform clean up cycle. Pump one sweep every hour. Stage up to 90 rpm.
Perform flow check; well static.
TOH to 14,979' MD on elevators.
Wash and ream from 14,979' to 15,710' MD.
Circulate B/U at 15,710' MD. Build Pill.
Report Start Date: 3/28/2015
Com
Circulate B/U. Build 100 BBL lubricity pill.
Flow Check; well static. Spot lubricity pill.
TOH to 7,551' MD. Rack back DP.
Flow check; well static.
Perform walk through JSA on L/D DP.
L/D DP from 7,551' to 1,513' MD.
Perform unit maintenance as per Ensign specifications.
Remove rotating head. Install trip nipple.
L/D DP from 1,513' to 100' MD.
Joe Salsido from BLM contacted at 16:00 hrs on 3/28/15 of intent to RIH with Production casing and cement
L/D directional tools.
Clean and clear rig floor.
TIH with rack backed DP in derrick to 4,082' MD.
L/D DP from 4,082' to 1,724' MD.
Report Start Date: 3/29/2015
Com
TOH and L/D DP from 1,120' to surface.
RIH with remaining DP in derrick to 4,136' MD.
TOH and L/D DP from 4,136' MD to surface.
Pull wear bushing.
Clean and clear rig floor.
PJSM with Franks casing crew over R/U casing equipment.
R/U casing running equipment.
PJSM with Franks casing crew over RIH with 5 1/2" Production casing.
RIH with 5 1/2", 17#, CDC Production casing.
P/U and M/U Shoe track and RSI tool; thread lock. P/U CRT. Pump through float equipment; good. RIH with production casing to 7,724' MD.
Report Start Date: 3/30/2015
Com
RIH with 5 1/2" Production casing from 3,970' to 10,208' MD.
C/O power tong power unit.
RIH with 5 1/2" Production casing from 10,208' to 10,609' MD.
PJSM on RIH with casing. Fill, circulate and rotate pipe.
RIH with 5 1/2" casing from 10,609' to 11,930' MD.
Spot 60 bbl lube pill outside casing shoe.
Work tight hole; wash and ream as needed from 11,930' to 13,591' MD. Pump 60 bbl of lube pill with beads. Leave 70 bbl lube pill inside shoe, pump as needed at 12,228' MD. Pumped 140 bbls of DrillChem lube and beads, at 13,430' MD, leaving 60 bbls inside pipe; pill on outside covering 1,740' to 11,700' MD. 3% lube, 7 ppb beads.
Report Start Date: 3/31/2015
Com
RIH with 5 1/2" Production casing. Work tight hole; wash and ream as needed from 13,591' to 15,703' MD.



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Com	
Circulate and Reciprocate pipe while circulating hole clean. Pumps on; P/U 255k, S/O 140k. Pumps off; P/U 250k, S/O 150k. *Note: Spoke with office personnel, did not tag bottom.*	
L/O circulating joint. P/U and M/U Landing Joint; RIH same. Land out with S/O 160k at 15,700' MD.	
PJSM with Franks casing crew on R/D casing equipment; rig down same.	
PJSM with Halliburton cementers on R/U; R/U same.	
Report Start Date: 4/1/2015	
Com	
PJSM with Halliburton cementers over cementing operations.	
Finish R/U Halliburton cementers.	
Pump Production cement job as per follows: Test lines to 5,000 psi 10 BBLs FW spacer 20 BBLs Tuned Spacer 136 BBLs (300 sxs) of 11.3# Lead 321 BBLs (996 sxs) of 12.5# Lead 2 43 BBLs (105 sxs) of 15# Tail Drop Dart Plug and 2 Foam Balls 365 BBLs FW Displacement (first 24 BBLs with MMCR) Bump Plug with 500 psi over at 1,554 psi. FCP = 1,056 psi. Held for 5 min. Bled back 2 BBLs; floats held.	
Back out Landing Joint. R/U to run BPV and Packoff. Set BPV and Packoff, test to 5,000 psi for 10 min; test good. R/D and L/O running tool.	
PJSM with Mans Welding over N/D BOPE.	
Pull Trip Nipple. R/D Flow line, fill up line, kill line, check valve, rotating head, choke line. Break bonnet bolts, pull out rams. Clean and grease inside bonnets, close and M/U bonnet bolts. R/D Kookey, N/D Kookey lines. Break bolts on Spool and DSA. P/U and install potato masher on Hydrill. N/D stack, hook up BOP wrangler.	
Report Start Date: 4/2/2015	
Com	
N/D and L/D stack. N/D Spool and DSA.	
N/U and install DSA and Wellhead. Test to 5,000 psi for 15 min; test good. **Released rig at 03:30 hrs on 4/2/15**	
Wash thru TD, stand pipe and mud pumps.	
Continue to R/D and Decommission Ensign 767. Clean pits. R/D bells and break subs off of TD. Continue working on mud pumps, pulling seats and valves and wear plates. Hang off blocks and unspool drawworks. Remove service loop.	
Report Start Date: 4/3/2015	
Com	
Continue rigging down, powerwashing and decommissioning Ensign 767.	
Report Start Date: 4/4/2015	
Com	
Continue rigging down, powerwashing and decommissioning Ensign 767. PJSM with Monster Movers. Monsters cranes and movers on location at 12:00 hrs and moving miscellaneous loads by 16:45 hrs. Crew broke tour.	
Crew off tour. Waiting on daylight.	
Report Start Date: 4/5/2015	
Com	
Crew off tour. Waiting on daylight.	
Continue rigging down and decommissioning Ensign 767, PJSM with Monster Movers. Begin moving miscellaneous loads off location. Squat subs and Lay over Derrick.	
Crew off tour. Waiting on daylight.	
Report Start Date: 4/6/2015	
Com	
Crew off tour. Waiting on daylight.	
Continue rigging down and decommissioning Ensign 767. PJSM with Monster Movers. Begin moving miscellaneous loads off location. Break down derrick, split substructure.	
Crew off tour. Waiting on daylight.	
Report Start Date: 4/7/2015	
Com	
Crew off tour. Waiting on daylight.	
Continue rigging down and decommissioning Ensign 767. PJSM with Monster Movers. Continue to move out substructure, derrick and BOP's. Police location.	
Crew off tour. Waiting on day.	
FINAL REPORT:	