

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: SUNRAY E

Well Location: T30N / R10W / SEC 9 / SWNW / 36.82939 / -107.894913

County or Parish/State: SAN JUAN / NM

Well Number: 2B

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF077730

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004530013

Well Status: Abandoned

Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2773064

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/02/2024

Time Sundry Submitted: 06:59

Date Operation Actually Began: 01/29/2024

Actual Procedure: Hilcorp Energy Company has plugged and abandoned the subject well on 2/1/2024 per the attached report.

SR Attachments

Actual Procedure

SUNRAY_E_2B_P_A_SR_BLM_Submitted_20240202065835.pdf

Well Name: SUNRAY E

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Well Status: Abandoned

Operator: HILCORP ENERGY COMPANY

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: PRISCILLA SHORTY

Signed on: FEB 02, 2024 06:58 AM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Technician

Street Address: 382 ROAD 3100

City: AZTEC

State: NM

Phone: (505) 324-5188

Email address: PSHORTY@HILCORP.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 02/05/2024

Signature: Matthew Kade

SUNRAY E 2B**30.045.30013****PLUG AND ABANDON**

1/29/2024 – CHECK PSI, SITP 0#, SICP 0#, SIICP 0#, BH 0#, BDW 0 MIN. ND WH, NU BOP, PRESSURE TEST & FUNCTION TEST BOPS. **HEC ENGINEER EMAILED KENNY RENNICK, BLM, AND MONICA KUEHLING, NMOCD, REQUESTING APPROVAL TO RUN CICRS FOR PLUGS #6, #7, AND #8. BLM APPROVED AND NMOCD REQUESTED TO TAG CHACRA PLUG AND ADD INTERMEDIATE SHOE PLUG. RU RIG FLOOR. MU 5.5" SCRAPER, RIH TO 3635' TAG CHACRA PLUG. HEC ENGINEER SENT AN EMAIL TO PERFORM MIT AFTER TAGGING CHACRA PLUG AND TO SPOT A 150' BALANCED PLUG FOR THE INT SHOE. BLM AND NMOCD APPROVED. TALLY, STRAP & RABBIT TBG. LW AND PT TO 600 PSI & PASSED. CASEY ARNETT, BLM, GOOD WITH TEST. RU CEMENTERS. PUMP CMT PLUG #6 (INT SHOE) 15 SX 3.6 BBL, 1.37, 14.8#, 6.64 GAL/SX TOC @ 3118' BOC @ 3272'. TOOH. SDFN.**

1/30/2024 - CHECK PSI, SITP 0#, SICP 0#, SIICP 0#, BH 0#, BDW 0 MIN. RU WIRELINE, RIH & PERF SQUEEZE HOLES @ 3018' (PC TOP). POOH & RD WIRELINE. LW, INJ RATE @ 2.3 BBLS/MIN, 165 PSI. GOOD CIRC OUT INT CSG @ SURFACE. NO INJ RATE OUT INTO FORMATION. PRESSURE UP TO 950 PSI. **NMOCD & BLM APPROVED TO PUMP CEMENT IN THE 5.5" INSIDE PLUG & 8-5/8" INT CSG ANNULUS ONLY. MU 5.5" CICR, TIH TO 2968' AND SET CICR. RU CEMENTERS. PUMP CEMENT PLUG #7 (PC TOP) 35 SX 8.5BBL, 1.37, 14.8#, 6.64 GAL/SX. BOC @ 3018'. 5 SX UNDER CICR & 20 SX INT CSG. 10 SX ON TOP OF CICR INSIDE 5.5". CASEY ARNETT, BLM, WAS ON LOCATION. TOOH. LD STINGER & WOC. MU TAG SUB. SDFN.**

1/31/2024 - CHECK PSI, SITP 0#, SICP 0#, SIICP 0#, BH 0#, BDW 0 MIN. MU TAG SUB, TIH & TAG CEMENT PLUG #7 @ 2863'. **CASEY ARNETT, BLM, APPROVED THE TAG. TOOH. RU WIRELINE, RIH & PERF SQUEEZE HOLES @ 2460' (FRD TOP). POOH & RD WIRELINE. LW 6 BBLS, INJ RATE @ 2.5 BBLS/MIN, 155 PSI. GOOD CIRC OUT INT CSG & SURFACE. NO INJ RATE OUT INTO FORMATION. PRESSURE UP TO 900 PSI. BLM & NMOCD APPROVE TO RIH WITHOUT CICR & TO SET A BALANCE PLUG IN 5.5" CSG & 5.5" X 8-5/8" CSG ANNULUS ONLY. MU TAG SUB, TIH TO 2400'. PUMP CEMENT PLUG #8 (FRD TOP) 35 SX 8.5 BBL, 1.37, 14.8#, 6.64 GAL/SX. DISPLACE 8.9 BBLS. BOC @ 2460', 20 SXS IN INT CSG & 15 SX INSIDE 5.5". TOH. WOC. TIH & TAG CEMENT PLUG #8 @ 2275'. TOOH. RU WIRELINE, RIH & PERF SQUEEZE HOLES @ 1804' (KRD & OJO TOP). POOH & RD WIRELINE. LW 2 BBLS, INJ RATE @ 2.5 BBLS/MIN, 135 PSI. GOOD CIRC OUT INT CSG & SURFACE. NO INJ RATE OUT INTO FORMATION. PRESSURE UP TO 950 PSI. BLM AND NMOCD GAVE VERBAL APPROVAL TO NOT SET CICR IF AN INJ RATE WAS NOT EST INTO FORMATION. PUMP CEMENT PLUG #9 (KRD, OJO TOPS) 70 SX 16.9 BBLS, 1.37, 14.8#, 6.64 GAL/SX. DISPLACE 5.7 BBLS. BOC @ 1804'. 43 SX IN INT CSG & 27 SX INSIDE 5.5". TOOH. WOC. SDFN.**

2/1/2024 - CHECK PSI, SITP 0#, SICP 0#, SIICP 0#, BH 0#, BDW 0 MIN. TIH & TAG CEMENT PLUG #9 @ 1401'. RU WIRELINE, RIH & PERF SQUEEZE HOLES @ 279' (SURFACE). POOH & RD WIRELINE. LW 4 BBLS, INJ RATE @ 2.2 BBLS/MIN, 90 PSI. GOOD CIRC OUT INT CSG & SURFACE. NO INJ RATE OUT BH @ SURFACE. PRESSURE UP TO 950 PSI. RU CEMENTERS. **PUMP CEMENT PLUG #10 (SURFACE) 73 SX 17.8 BBLS, 1.37, 14.8#, 6.64 GAL/SX. TOC @ 0', BOC @ 279'. RD RIG FLOOR, ND BOP & NU WH, PREP TO CUT OFF WH. WOC. CUT OFF WH. TOC IN 5.5" PROD 0' & 8-5/8" INT 0' & BH 13'. WELD ON P&A MARKER, FILL CSG AND CELLAR W/ 38 SX CEMENT. CASEY ARNETT, BLM, WAS ON LOCATION. RD RR.**

WELL WAS PLUGGED AND ABANDONED ON 2/1/2024.

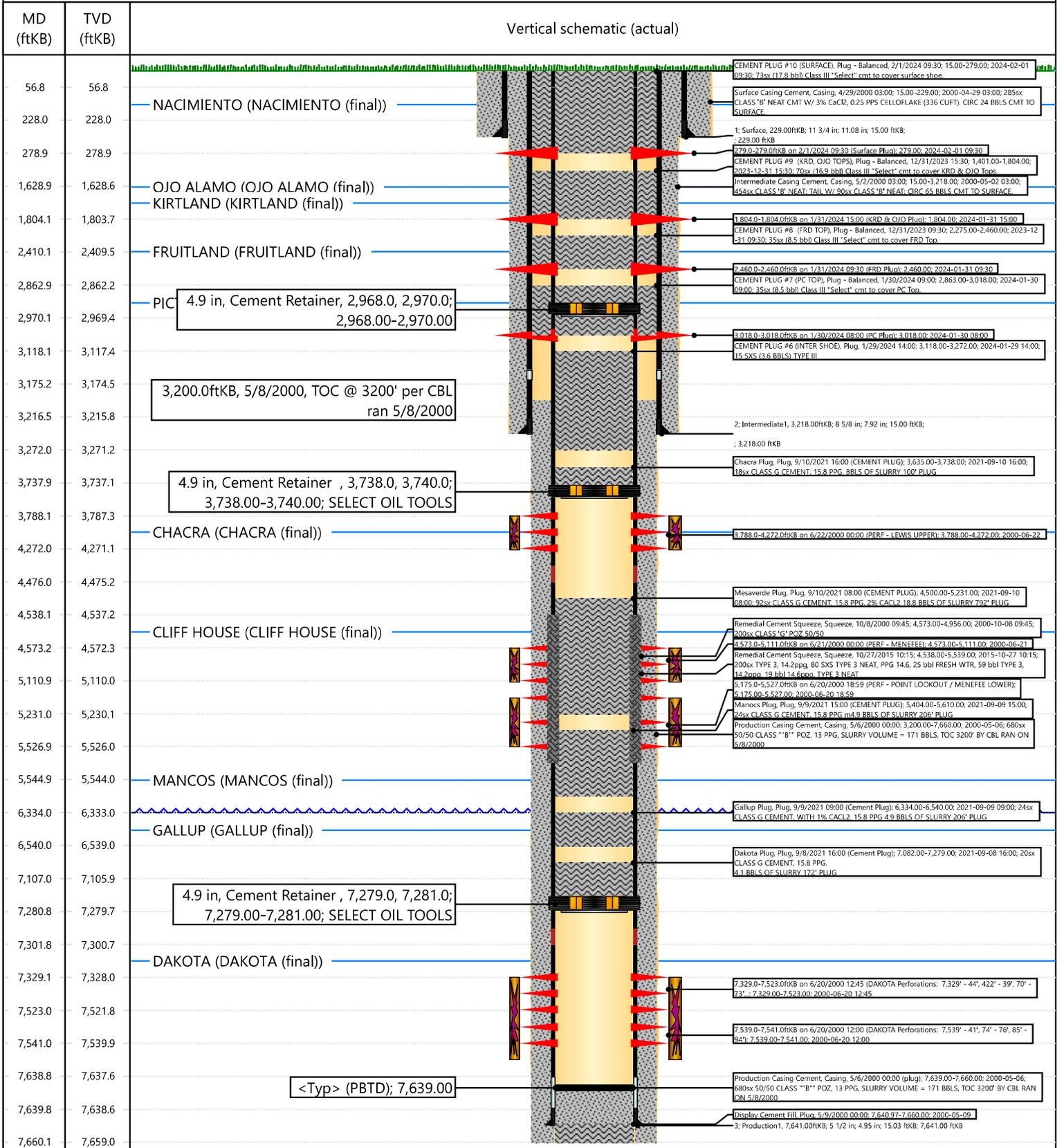


Current Schematic - Version 3

Well Name: **SUNRAY E #2B**

API / UWI 3004530013	Surface Legal Location 009-030N-010W-E	Field Name BLANCO MESAVERDE (PRORATED GAS)	Route 0304	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,300.00	Original KB/RT Elevation (ft) 6,315.00	RKB to GL (ft) 15.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole [VERTICAL]



Priscilla Shorty

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Wednesday, January 31, 2024 3:27 PM
To: John LaMond; Rennick, Kenneth G; Kade, Matthew H
Cc: Farmington Regulatory Techs; Brice Clyde - (C); Clay Padgett; Lee Murphy; Max Weaver; Rustin Mikeska
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

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Thank you

From: John LaMond <jlamond@hilcorp.com>
Sent: Wednesday, January 31, 2024 3:26 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

Hi Kenny and Monica,

I updated the plug names below to reflect the updated plug count due to the addition of the intermediate shoe plug (Plug #6). The updates are highlighted in yellow below.

Please let me know if you have any questions.

Thanks,

John LaMond

Operations Engineer – Technical Services
Hilcorp Energy Company
1111 Travis
Houston, TX 77002
346-237-2210 (Office)
832-754-9692 (Cell)
jlamond@hilcorp.com

From: John LaMond <jlamond@hilcorp.com>
Sent: Wednesday, January 31, 2024 11:41 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; John LaMond <jlamond@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

Good afternoon Kenny and Monica,

This email is to follow up the verbal approvals received on 1/30/2024 and 1/31/2024.

1/30/2024:

- **Plug #7:** Perforated at 3,018'. Successfully circulated up the 5.5" x 8-5/8" casing annulus but was unable to establish injection rate into the formation.
- Hilcorp received verbal approval from NMOCD and BLM to proceed with pumping the 5.5" inside plug and 5.5" x 8-5/8" casing annulus plug volumes only. Hilcorp received verbal approval from NMOCD and BLM to exclude the outside plug volume (8-5/8" casing x Open Hole) since injection rate was not established into the formation. Hilcorp proceeded to pump this plug.

1/31/2024:

- **Plug #8:** Perforated at 2,460'. Successfully circulated up the 5.5" x 8-5/8" casing annulus but was unable to establish injection rate into the formation.
- Hilcorp received verbal approval from NMOCD and BLM to not set the CICR @ 2,410' since injection rate was not established into formation.
- Hilcorp received verbal approval from NMOCD and BLM to proceed with pumping the 5.5" inside plug and 5.5" x 8-5/8" casing annulus plug volumes only. Hilcorp received verbal approval from NMOCD and BLM to exclude the outside plug volume (8-5/8" casing x Open Hole) since injection rate was not established into the formation. This operation is currently under way.
- **Plug #9:** Similar to Plug #7, Hilcorp also received verbal approval from NMOCD and BLM to not set the CICR @ 1,754' if an injection rate is not established into formation after perforating at 1,804'.

Please let me know if you have any questions or concerns.

Thanks,

John LaMond

Operations Engineer – Technical Services
Hilcorp Energy Company
1111 Travis
Houston, TX 77002
346-237-2210 (Office)
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From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>

Sent: Monday, January 29, 2024 3:10 PM

To: Rennick, Kenneth G <krennick@blm.gov>; John LaMond <jlamond@hilcorp.com>; Kade, Matthew H <mkade@blm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

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NMOCD approves inside plug for intermediate shoe

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Monday, January 29, 2024 10:15 AM
To: John LaMond <jlamond@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: Re: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

The BLM finds the proposal appropriate.

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management
Farmington Field Office
6251 College Blvd
Farmington, NM 87402

Email: krennick@blm.gov
Mobile & Text: 505.497.0019

From: John LaMond <jlamond@hilcorp.com>
Sent: Monday, January 29, 2024 9:40 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

Kenny and Monica,

Hilcorp proposes the following additional steps to the procedure to account for the intermediate shoe:

- RIH & Tag Chacra Plug. Perform MIT at 560 psig.

Intermediate Shoe Plug (Shoe at 3,218'):

- Spot 150' balanced cement plug from 3,268' to 3,118'.
- No tag or WOC after spotting plug if previously performed MIT passed.
- Proceed with remainder of NOI procedure and below approved CICRs.

Please note that the intermediate shoe is set at 3,218' and not 3,203'. The casing length is ~3,203'.

Please let me know if you have any questions.

Thanks,

John LaMond

Operations Engineer – Technical Services
Hilcorp Energy Company
1111 Travis
Houston, TX 77002
346-237-2210 (Office)
832-754-9692 (Cell)
jlamond@hilcorp.com

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrn.dnm.gov>
Sent: Monday, January 29, 2024 10:08 AM
To: John LaMond <jlamond@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

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Disregard prior email

There is an intermediate shoe at 3203 – you will need to tag the chacra plug and add the intermediate shoe plug - This plug was not caught on the NOI

And then continue on with below that is approved

Thank you

Monica Kuehling
Compliance Officer Supervisor

Released to Imaging: 3/4/2024 4:11:00 PM

Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Kuehling, Monica, EMNRD
Sent: Monday, January 29, 2024 9:03 AM
To: John LaMond <jlamond@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

NMOCD approves below

Thank you

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: John LaMond <jlamond@hilcorp.com>
Sent: Monday, January 29, 2024 8:04 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; John LaMond <jlamond@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Max Weaver <mweaver@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: [EXTERNAL] P&A Revision for Hilcorp's Sunray E 2B (API # 3004530013)

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Good morning Kenny and Monica,

Hilcorp would like to make a slight procedural adjustment to the Sunray E 2B P&A.

Hilcorp requests to run and pump through cement retainers (CICRs) while pumping Plug #6, Plug #7, and Plug #8.

- Plug #6 CICR Set Depth: 2,968'

- Plug #7 CICR Set Depth: 2,410'
- Plug #8 CICR Set Depth: 1,754'

All plug volumes will still be pumped according to the approved NOI (attached).

Please let me know if you have any questions or concerns with this plan.

Thanks,

John LaMond

Operations Engineer – Technical Services

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 311078

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 311078
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well plugged 2/1/2024	3/4/2024