

Submit 1 Copy To Appropriate District

Office

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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-045-23791
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name LANDAUER
8. Well Number 1E
9. OGRID Number 372171
10. Pool name or Wildcat Basin Dakota/Blanco Mesaverde

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
 DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
 PROPOSALS.)

1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other
2. Name of Operator HILCORP ENERGY COMPANY
3. Address of Operator 382 Road 3100, Aztec, NM 87410
4. Well Location Unit Letter <u>I</u> : <u>2255</u> feet from the <u>South</u> line and <u>680</u> feet from the <u>East</u> line Section <u>03</u> Township <u>31N</u> Range <u>13W</u> NMPM San Juan County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5742'

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

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

Hilcorp Energy has plugged and abandoned the subject well on 9/12/2024 per the attached daily reports.

Spud Date:

Rig Release Date:

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

SIGNATURE Priscilla Shorty TITLE Operations/Regulatory Technician – Sr. DATE 9/12/2024

Type or print name Priscilla Shorty E-mail address: pshorty@hilcorp.com PHONE: (505)324-5188

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

3004523791
SR P&A
FEE

9/20/2021: MIRU. CK WELL PRESSURES (SITP: 0 PSI, SIBHP: 140 PSI). RU WL. PU WL TOOL & RIH AND PERFORM CBL F/6558' TO SURF. RD WL. AFTER REVIEW, THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD APPVD FIRST PLUG (DK). TIH W/PROD TBG STRING T/6558'. MIX & PMP **PLUG 1 (DAKOTA) F/6558' T/6408' W/ 18 SKS CLASS G NEAT CMT 3.7 BBL SLURRY @ 1.15 YIELD & 15.8 PPG.** DISPLACE CMT PLUG W/24 BBLS. LD 6 TBG JTS, STAND BACK 42 STANDS PROD TBG, EOT @ 3370'. SIW.

9/21/2021: CK WELL PRESSURES. (SITP- N/A SICP- 0 PSI SIBHP- 135 PSI). TRIP IN THE HOLE W/ 42 STANDS. P/U 1 JT & TAG TOC ON PLUG #1 @ 6400'. L/D 19 JTS. TOO H STANDING BACK 92 STANDS. R/U WL. M/U PERF TOOLS. RIH & PERF 4 HOLES @ 5853'. POOH. R/D WL. P/U 5 1/2" CMT RET. TIH & SET RET @ 5803'. ATTEMPT TO EST INJ RATE UNDER RET. PMPD 1.2 BBLS & PRESSURED UP T/600 PSI. PRESSURE HOLDING. NO INJECTION RATE. RECEIVED APPROVAL F THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD TO CONTINUE W/GALLUP PLUG AS BALANCED INSIDE PLUG ON TOP OF RETAINER. MIX & PUMP **PLUG #2 (GALLUP PLUG) F/5803' T/5650' W/ 18 SKS CLASS G NEAT CEMENT. 3.7 BBL SLURRY @ 1.15 YIELD & 15.7 PPG.** DISPLACE CMT PLUG W/21 BBLS. WOC 4 HRS. L/D 6 JTS. POOH W/ ENTIRE TBG STRING. LD RET SETTING TOOL. MU PLUGGING SUB & TIH W/PARTIAL TBG STRING. WOC. CONT TIH & TAG TOC PLUG #2 @ 5645'. L/D 27 JTS EOT @ 4803'. MIX & PMP **PLUG #3 (MANCOS PLUG) F/4803' T/4650' W/18 SKS CLASS G NEAT CMT. 3.7 BBL SLURRY @ 1.15 YIELD & 15.7 PPG.** DISPLACE CMT PLUG W/17 BBLS. L/D 6 TBG JTS. STAND BACK 14 STANDS OF PROD TBG. EOT @ 3370'. SIW. WOC OVERNIGHT.

9/22/2021: CK WELL PRESSURES. (SITP- N/A SICP- 0 PSI SIBHP- 130 PSI). TIH W/ 14 STANDS. P/U 1 JT & TAG TOC ON PLUG #3 @ 4635'. L/D 32 JTS. EOT @ 3638'. MIX & PMP **PLUG #4 (MESAVERDE PLUG) F/3638' T/3438' W/ 24 SKS CLASS G NEAT CEMENT. 4.9 BBL SLURRY @ 1.15 YIELD & 15.8 PPG.** DISPLACE CMT PLUG W/13 BBLS. WOC 4 HRS. L/D 7 JTS. STAND BACK 15 STANDS. TIH & TAG TOC PLUG #4 @ 3440'. L/D 7 JTS EOT @ 3227'. ATTEMPT PT CSG TO 600 PSI. TEST FAILED LOSING 100 PSI IN 2 MIN. CONT OPS & TAGGING NEXT PLUG. MIX & PMP **PLUG #5 (CHACRA PLUG) F/3227' T/3021' W/24 SKS CLASS G NEAT CMT. 4.9 BBL SLURRY @ 1.15 YIELD & 15.8 PPG.** DISPLACE CMT PLUG W/11 BBLS. L/D 8 TBG JTS. STAND BACK 15 STANDS. SIW. WOC OVERNIGHT

9/23/2021: CK WELL PRESSURES (SITP- N/A SICP- 0 PSI SIBHP- 140 PSI). TIH W/15 STANDS. P/U 2 JTS & TAG TOC ON PLUG #5 @ 3037'. L/D 26 JTS. EOT @ 2032'. ATTEMPT TO PT CSG TO 600 PSI. GOOD TEST. WITNESSED BY THOMAS VERMERSCH W/NMOCD. POOH W/ENTIRE TBG STRING. R/U THE WL. M/U WL PERF TOOLS. RIH & PERF 4 HOLES @ 2050'. POOH. R/D WL. EST IJN RATE W/5 BBL/MIN W/NO PRESSURE. P/U 5 1/2" CMT RETAINER. TIH & SET @ 2000'. VERIFY INJ RATE UNDER RETAINER. 100 PSI @ 5 BPM. MIX & PMP **PLUG #6 (PC PLUG) AS INSIDE OUTSIDE PLUG. AFTER PUMPING 3BBLS SLURRY COULD NOT GET INJ. RECEIVED APPROVAL F/ THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD TO SPOT INSIDE PLUG & SPLIT OUT PC & FRUITLAND PLUG. 1.15 YIELD & 15.8 PPG. PLACE 38 SKS ON TOP OF RETAINER.** DISPLACE CMT PLUG W/6 BBLS. L/D TUBING T/1415' & TOO H T/SURF. R/U WL. RIH & PERF @ 1432' F/FRUITLAND PLUG #7. R/D WL. M/U CMT RETAINER, TIH & SET @ 1384'. LOAD HOLE W. 25 BBLS H2O. MIX & PMP **PLUG #7 (FRUITLAND PLUG) F/1432' T/1331' W/ 49 SKS CLASS G NEAT CMT. 10 BBL SLURRY @ 1.15 YIELD & 15.8 PPG.** DISPLACE CMT PLUG W/4.5 BBLS. L/D TBG T/582'. STAND BACK 8 STANDS. R/U WL. RIH & PERF @ 630' F/KIRTLAND PLUG #8. R/D WL. EST INJ RATE 2 BPM = 150 PSI. EST CIRC UP BH W/13 BBLS. M/U CMT RETAINER, TIH & SET @ 582'. LOAD BACKSIDE W. 2.5 BBLS. MIX & PMP **PLUG #8 (KIRTLAND PLUG) F/630' T/529' W/49 SKS CLASS G NEAT CEMENT. 8.4 BBL SLURRY @ 1.15 YIELD & 15.8 PPG.** DISPLACE CMT PLUG W/4.5 BBLS. 29 SX BELOW RETAINER & 12 SX ABOVE. L/D TBG T/SURF. SIW. WOC OVERNIGHT.

9/24/2021: CHECK WELL PRESSURES (SITP- N/A SICP- 0 PSI SIBHP- 72 PSI). BLOW DOWN BH IN 30 SECONDS. SLIGHT STEADY BLOW AFTER BLOW DOWN. SI BH. & OBSERVE FOR 2 HOURS PER OCD REP. BUILT TO 64 PSI. AFTER TEST BLOW DOWN TO TANK IN 20 SECONDS. WAIT ON ORDERS F/THOMAS VERMERSCH/MONICA

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KUEHLING W/NMOCD & HILCORP REPS. DECISION MADE TO VENT BH TO FB OVER WEEKEND AND EVALUATE MONDAY AM. ND BOP. RE-INSTALL WH. RDRR @ 11:00 HRS.

11/12/2021: CHECK WELL PRESSURES (SICP- 0 PSI, SITP- N/A. SIBHP- 110 PSI). ND WH. N/U BOPE. SIW. SDFN.

11/13/2021: CHECK WELL PRESSURES (SITP- N/A SICP- 0 PSI SIBHP- 110 PSI). R/U WL. M/U WL PERF TOOLS. RIH TO PERF 4 HOLES @ 500'. TAGGED CMT HIGH @ 402' (POTENTIAL CMT STRINGER FROM LAST PLUG. CONTACTED THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD & HEC REPS. RECEIVED DIRECTION TO DRILL OUT CMT T/500'. POOH. R/D WL. CALLED OUT DRILL COLLARS/BIT SUB & BIT. PREP POWER SWIVEL FOR DO. SPOT IN HOT SHOT FLOAT. MU BLADE BIT. P/U & TALLY 6 DRILL COLLARS & 2 3/8" TBG. RAN THROUGH CMT STRINGER @ 402'. TAGGED CMT @ 432'. DO CMT F/432' T/508'. R/U WL. RIH & PERF 4 HOLES @ 500'. POOH. R/D WL. P/U 5 1/2" CMT RETAINER. TIH & SET @ 477'. EST CIRC THROUGH RETAINER. EST INJ RATE UNDER RETAINER. MIX & PMP **PLUG #9 (KIRTLAND PLUG) F/500' T/370' W/44 SKS CLASS G NEAT CMT, 9 BBL SLURRY @ 1.15 YIELD & 15.7 PPG. PMP 23 SKS UNDER RETAINER WHILE CIRCULATING UP BH. SHUT BH & SQUEEZE AWAY 21 SKS INTO FORMATION SLOW @ .25 BBL/MIN 200 PSI INJ PSI. DISPLACE CMT PLUG DOWN TO RETAINER W/ 1.5 BBLS. STUNG OUT OF RETAINER LEAVING 200 PSI ON BACK SIDE. REVERSE CIRC WELL CLEAN ABOVE RETAINER. POOH. L/D 2 JTS & STAND BACK REMAINING TBG STRING. SIW. WOC OVERNIGHT.**

11/15/2021: CK WELL PRESSURES (SITP- N/A SICP- 0 PSI SIBHP- 13 PSI). RECEIVED DIRECTION TO BLEED OFF THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD & MONITOR FOR 2 HOURS. OPEN BH TO PIT. SI. AFTER 2 HOURS WELL BUILT UP TO 24 PSI. RELAYED RESULTS TO HEC AND OCD REPS. RECEIVED DIRECTION TO SI & MONITOR FOR 24 HRS. SIW. WOC OVERNIGHT.

11/16/2021: CK WELL PRESSURES (SITP- N/A SICP- 0 PSI SIBHP- 20 PSI). CONTACTED HEC REPS & THOMAS VERMERSCH/MONICA KUEHLING W/NMOCD. RECEIVED DIRECTION TO SHUT IN & MONITOR FOR THE NEXT FEW WEEKS. TIH W/TBG IN DERRICK. L/D 15 TBG JTS. N/D BOPE. N/U WH. RDRR @ 12:00 HRS.

2022 – 9/4/2024 – BH PRODUCED TO THE PIT. MONTHLY PRESSURES SENT TO NMOCD.

7/29/2024 – NMOCD GAVE APPROVAL TO CONTINUE WITH THE PLUGGING OF THE WELL AFTER WATER SAMPLES WERE REVIEWED AND BH PSI DROPPED TO 5 PSI. HEC ENGINEER PROVIDED AN UPDATED PROCEDURE AND NMOCD APPROVED.

9/6/2024 - RU RIG & RIG EQUIPMENT. CK PSI. NO PSI. (BH WAS OPEN). FT BOP. ND WH, NU BOP. RU RIG FLOOR & TBG EQUIPMENT. TALLY & PUP 2 3/8 WB J55 TBG WITH MULE SHOE. TAG TOC @ 477'. EST CIRC WITH 5 BBLS OF FRESH H2O. PUMP 15 BBLS TOTAL. TOO. LOAD CSG WITH 2 BBLS. PSI TEST CSG TO 800# PSI FOR 30 MIN. TEST OK. RU WL GROUP. RIH WITH CBL TOOL. LOG WELL FROM 477' TO SURFACE. RD WL GROUP. **HEC ENGINEER SENT CBL TO NMOCD AND RECEIVED VERBAL APPROVAL TO MAKE ADJUSTMENTS TO THE PROCEDURE PER THE ATTACHED EMAIL. SDFWE.**

9/10/2024 - CK PSI. NO TBG, CSG-0PSI. (BH WAS OPEN). RU WL GROUP. RIH WITH PERF GUN. PERF 4 HOLES @ 370'. LD PG. PUMP 15 BBLS TO EST CIRC OUT BH VALVE. PUMP 30 BBLS TOTAL. RD WL. TIH OPEN ENDED TO 477'. RU DRAKE ENERGY SERVICES. PUMP 5 BBLS TO EST CIRC OUT CSG. SIC. PUMP 4 BBLS TO EST CIRC FROM BH VALVE. **PLUG #10A&B (OJO, CSG SHOE) FROM 477'- 200'. M&P 61 SKS OF CLASS G CEMENT, 15.8ppg, 1.15 yield. 33 INSIDE (477'-200') / 28 OUTSIDE (370'-200').** LD TOC. REVERSE OUT. LD ALL TBG. RD DES. RU WELLCHECK NITROGEN. APPLY 25# PSI TO BOTH CSG & BH. SIW, SDFN.

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9/11/2024 - CK PSI: NO TBG, CSG-0#, BH-0#. TIH **TAG TOC @ 322'**. EST CIRC WITH 5 BBLS OF FRESH. ATTEMPT TO PSI TEST CSG TO 500# PSI. NO TEST. **HEC ENGINEER EMAILED NMOCD DOCUMENTING APPROVAL TO SET 5-1/2" CICR @ 315', PUMP PLUG #10C, JET CUT 5-1/2" CASING @ +/- 190', SET CIBP/CICR @ +/-180', AND PUMP PLUG #11.** ORDERS TO SET 5.5" CR @ 315'. TIH WITH 5.5" SM TO 318'. TOO H LD SM. TIH WITH 5.5" CR. SET CR @ 315'. ATTEMPT CSG TEST. NO TEST. **PLUG #10C (OJO, CSG SHOE) FROM 315'- 200'. M&P 14 SKS OF CLASS G CEMENT, 15.8ppg, 1.15 yield.** LD TOC. REVERSE OUT. LD ALL TBG. SIW, WOC. TIH **TAG TOC @ 201'**. LD ALL TBG. ATTEMPT CSG TEST. NO TEST. RU WL GROUP. RIH WITH CBL TOOL. LOG WELL FROM 201' TO SURFACE. LD CBL TOOL. **HEC ENGINEER SENT CBL TO NMOCD AND NOTED CBL WAS RAN AS A PRECAUTION TO VERIFY FREE PIPE @ 190'.** RIH WITH JET CUTTER. JC 5.5" CSG @ 190'. LD JC. RD WL. LOAD WELL W/ 3 BBLS OF FRESH. (MONITOR WH PSI) NO SIGNS OF PSI. RD RIG FLOOR & TBG EQUIPMENT. ND BOP & WH. RU CSG SPEAR. WORK CSG SLIPS FREE. LAND CSG STRING. NU NEW WH, NU BOP. RU RIG FLOOR. SIW, SDFN.

9/12/2024 - CK PSI. NO TBG, CSG-0 PSI, BH-0 PSI. RU SJ CSG CREW. LD 190' OF J55 5.5" 15.5# CSG. RD CSG CREW. RD RIG FLOOR & TBG EQUIPMENT. LOAD WELL WITH 3 BBLS OF FRESH. MONITOR WH FOR PSI. NO PSI. ND BOP & WH. RU WL GROUP. RIH WITH GR TO 185'. LD GR. RIH WITH 8 5/8" CR. SET CR @ 180'. LD SETTING TOOL. NU WH & BOP. RU RIG FLOOR & TBG EQUIPMENT. PUP, TAG CR @ 180'. **PLUG 11 (SURFACE) FROM 180' -0' M&P 57 SKS OF CLASS G CEMENT, 15.8 PPG, 1.15 YIELD. CIRC CEMENT TO SURFACE.** SIW, WOC. TIH TAG TOC @ 7'. RD RIG FLOOR. ND BOP, DIG OUT WH. CUT & REMOVE WH. WELD & INSTALL P&A MARKER @ 36, 55", 41" W / 108, 11', 3' W. **TOP OFF CELLAR WITH 15 SKS OF CLASS G CEMENT 15.8 PPG 1.15 YIELD.** RD RIG & RIG EQUIPMENT.

WELL WAS PLUGGED AND ABANDONED ON 9/12/2024.

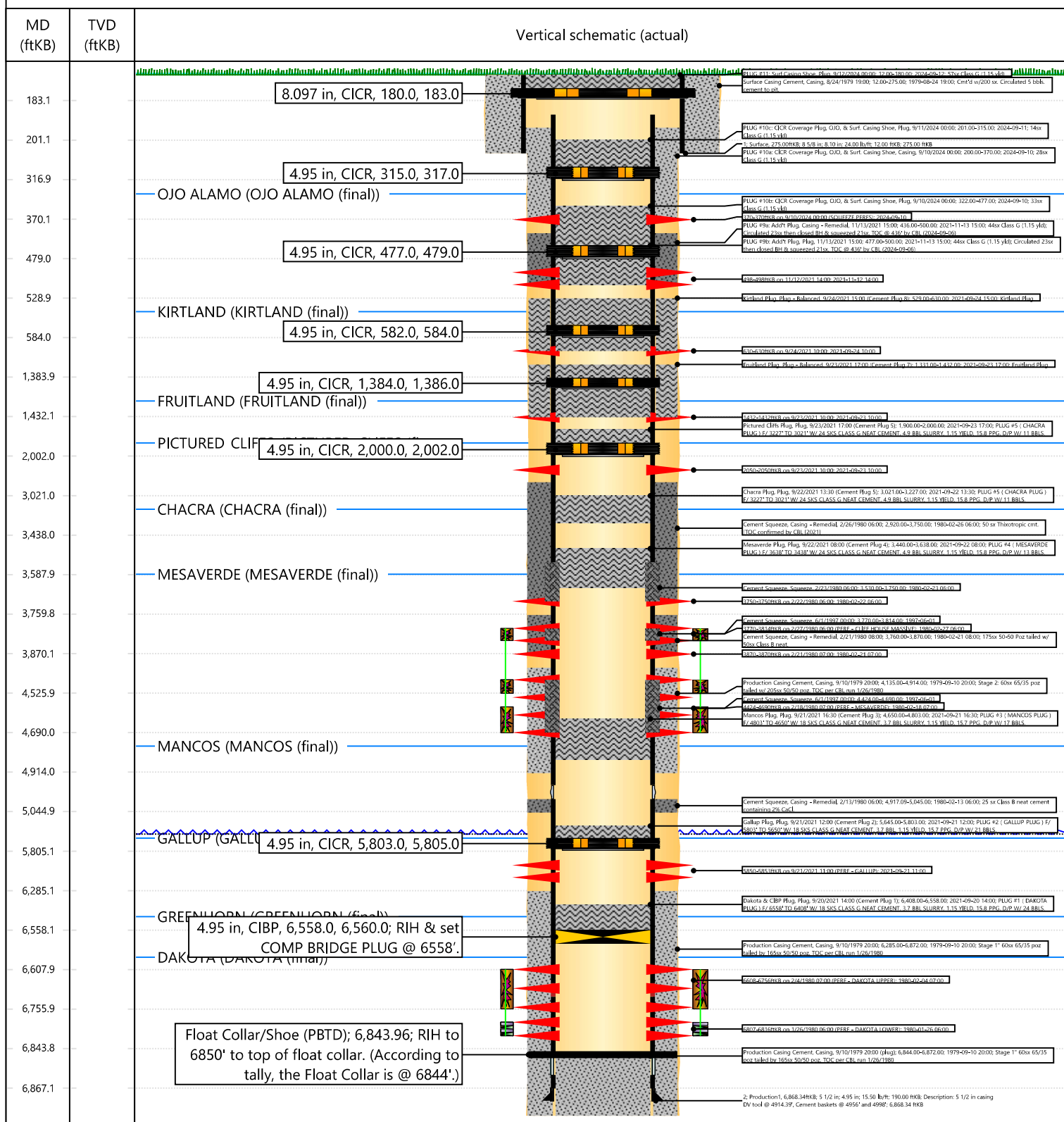


Current Schematic - Version 3

Well Name: LANDAUER #1E

API / UWI 3004523791	Surface Legal Location I-3-31N-13W	Field Name BASIN	Route 0211	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 5,742.00	Original KB/RT Elevation (ft) 5,754.00	Tubing Hanger Elevation (ft)	RKB to GL (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
Tubing Strings					
Run Date 11/12/2001 06:00	Set Depth (ftKB) 6,697.00	String Max Nominal OD (in) 2 3/8	String Min Nominal ID (in) 2.00	Weight/Length (lb/ft) 4.70	Original Spud Date 8/24/1979 06:15

Original Hole [Vertical]



Priscilla Shorty

From: Diede, Loren, EMNRD <Loren.Diede@emnrd.nm.gov>
Sent: Wednesday, September 11, 2024 3:40 PM
To: John LaMond; Kuehling, Monica, EMNRD; Medrano, Eileen, EMNRD
Cc: Farmington Regulatory Techs; Clay Padgett; Lee Murphy; Rustin Mikeska; Oscar Sanchez - (C)
Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

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That plan is OK with me.

Loren

Thank you,
Loren Diede
Petroleum Specialist Advanced
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-394-3582 OCD cell



From: John LaMond <jlamond@hilcorp.com>
Sent: Wednesday, September 11, 2024 3:37 PM
To: Diede, Loren, EMNRD <Loren.Diede@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Medrano, Eileen, EMNRD <Eileen.Medrano@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>; John LaMond <jlamond@hilcorp.com>
Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

You don't often get email from jlamond@hilcorp.com. [Learn why this is important](#)

Good afternoon Loren,

Per our conversation, Hilcorp pumped PLUG #10b per design. After WOC we tagged TOC @ 201'.

As a precaution we ran the attached CBL (2024-09-11) to surface to verify free pipe @ 190'.

Moving forward we will proceed with the plan as previously approved in the last email, starting with jet cutting the 5-1/2" casing @ 190'.

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: Diede, Loren, EMNRD <Loren.Diede@emnrd.nm.gov>

Sent: Wednesday, September 11, 2024 9:25 AM

To: John LaMond <jlamond@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Medrano, Eileen, EMNRD <Eileen.Medrano@emnrd.nm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

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John,

As per our discussion and the email outlining the path forward on the Landauer 1E P&A. I approve the plan as outlined here below.

Loren Diede

Thank you,

Loren Diede

Petroleum Specialist Advanced

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-394-3582 OCD cell



From: John LaMond <jlamond@hilcorp.com>

Sent: Wednesday, September 11, 2024 8:19 AM

To: Diede, Loren, EMNRD <Loren.Diede@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Medrano, Eileen, EMNRD <Eileen.Medrano@emnrd.nm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>;

Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>; John LaMond <jlamond@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

Good morning Loren,

I corrected a small typo below, PLUG #11 (56sx) will fill the 8-5/8" casing to surface. I highlighted the correction below in **yellow**.

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, September 11, 2024 9:13 AM

To: loren.diede@emnrd.nm.gov; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Medrano, Eileen, EMNRD <Eileen.Medrano@emnrd.nm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>; John LaMond <jlamond@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

Good morning Loren,

Per our discussion, Hilcorp perforated @ 370' & pumped PLUG #10 per design outlined below. We then WOC overnight and shut in both the BH & 5-1/2" casing.

This morning we found that there was no pressure on the BH nor the 5-1/2" production casing. We also tagged the TOC @ 322' inside the 5-1/2".

Moving forward, Hilcorp received verbal approval from the NMOCD to execute the following:

- Set a **5-1/2" CICR @ 315'**
- **Pump PLUG #10b: 15sx of Class G Cement (15.8 PPG, 1.15 yield); OJO Top @ 320' | Surf. Casing Shoe @ 275':**
 - Pump a 14 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 200'** & est. **BOC @ +/- 315'**).
 - WOC & tag TOC
- **Jet cut the 5-1/2" production casing 10' above cement tag depth @ +/- 190'. TOOH w/ 5-1/2" production casing.**
- RIH w/ **8-5/8" CIBP or CICR** & set @ **+/- 180'**.
- **Pump Plug #11: 56sx of Class G Cement (15.8 PPG, 1.15 yield)**
 - Pump a 56 sack balanced cement plug inside the **8-5/8"** casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 180'**)
 - WOC, cut off wellhead & top off w/ cement

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@emnrd.nm.gov>

Sent: Friday, September 6, 2024 4:04 PM

To: John LaMond <jlamond@hilcorp.com>; Medrano, Eileen, EMNRD <Eileen.Medrano@emnrd.nm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; John LaMond <jlamond@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>

Subject: Re: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

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Approval is given to below

Thank you

Monica Kuehling

Nmood

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From: John LaMond <jlamond@hilcorp.com>

Sent: Friday, September 6, 2024 2:36:19 PM

To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; John LaMond <jlamond@hilcorp.com>; Oscar Sanchez - (C) <Oscar.Sanchez@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

Good afternoon Monica,

Attached is the CBL that was run today (2024-09-06) on the Landauer 1E.

Per our discussion, Hilcorp received verbal approval from the NMOC to make the following adjustments:

- RIH & perforate squeeze holes @ 370'. Establish circulation to surface.
- RIH w/ work string & tag CICR @ 477'. Establish circulation to surface.
- **Pump PLUG #10: 61sx of Class G Cement (15.8 PPG, 1.15 yield); OJO Top @ 320' | Surf. Casing Shoe @ 275':**

- Pump 15sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 275'** & est. **BOC @ +/- 370'**). Continue pumping 13sx of cement in the 5-1/2" casing X 8-5/8" casing annulus (est. **TOC @ +/- 200'** & est. **BOC @ +/- 275'**). Pump a 33 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 200'** & est. **BOC @ +/- 477'**).
- TOOH w/ work string to 190' & reverse circulate clean. TOOH w/ work string. Apply pressure to plugs.
- WOC Plug #10 overnight w/ BH shut in.
- Tag PLUG #10 & check BH pressure.
 - If BH pressure is NOT present, verbal approval received from the NMOCD for the following:
 - Perforate above cement tag depth @ **+/- 190'** & circulate inside/outside cement plug to surface.
 - **Pump PLUG #11: 55sx of Class G Cement (15.8 PPG, 1.15 yield)**
 - Pump 32sx of cement in the 5-1/2" casing X 8-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 190'**). Continue pumping a 23 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 190'**).
 - WOC, cut off wellhead & top off w/ cement
 - If BH pressure is present, verbal approval received from the NMOCD for the following:
 - **Jet cut 5.5"** production casing 10' above cement tag depth @ **+/- 190'**. TOOH w/ 5.5" production casing.
 - RIH w/ **8-5/8" CIBP or CICR** & set @ **+/- 180'**.
 - **Pump Plug #11: 56sx of Class G Cement (15.8 PPG, 1.15 yield)**
 - Pump a 56 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 180'**)
 - WOC, cut off wellhead & top off w/ cement

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, August 5, 2024 9:12 AM

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>; Darren Randall - (C) <Darren.Randall@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>

Subject: RE: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

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NMOCD approves below

Check string pressures daily

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: Rennick, Kenneth G <krennick@blm.gov>
Sent: Monday, July 29, 2024 11:52 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>; Darren Randall - (C) <Darren.Randall@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: Re: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

Not a federal well. BLM approval not required.

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, July 29, 2024 11:12 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>; Darren Randall - (C) <Darren.Randall@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; John LaMond <jlamond@hilcorp.com>; Lee

Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>

Subject: [EXTERNAL] P&A Revision Request for Hilcorp's LANDAUER 1E (API # 3004523791)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good afternoon Monica and Kenny,

Hilcorp is planning to proceed with P&A work on the LANDAUER 1E (API # 3004523791) in the near future. Please see attached the email chain which contains NMOCD approval to proceed with P&A operations.

I have also attached the originally approved P&A NOI, as well as an updated procedure given the status of the wellbore and how Hilcorp plans to proceed with P&A operations. Please see the revised procedure attached and below. The updated Proposed P&A wellbore schematic is also attached.



HILCORP ENERGY COMPANY
LANDAUER 1E
P&A NOI

API #:	3004523791
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JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental
3. MIRU service rig and associated equipment; NU and test BOP.
4. TIH w/ work string & tag **5-1/2" CICR at +/- 477'**.
5. Load the well as needed. Pressure test the casing above the plug to **560 psig**.
6. RU Wireline. Run CBL. Record Top of Cement. All subsequent plugs below are subject to change pending CBL result
7. **PLUG #10: 11sx of Class G Cement (15.8 PPG, 1.15 yield); CICR @ 477'**
 Pump an 11 sack balanced cement plug inside the 5-1/2" casing on top of the CICR @ 477' (est. **TOC @ +/- 390'** & est. **BOC @ +/- 390'** & reverse circulate clean. ***Note - TOC @ 390' to allow for perforations to be shot @ 370'**.
8. TOOH w/ work string. TIH and perforate squeeze holes @ **+/- 370'**. TIH with tubing/work string. Establish circulation.
9. **PLUG #11: 105sx of Class G Cement (15.8 PPG, 1.15 yield); OJO Top @ 320' | Surf. Casing Shoe @ 275':**
 Pump 15sx of cement in the 5-1/2" casing X 7-7/8" open hole annulus (est. **TOC @ +/- 275'** & est. **BOC @ +/- 370'**). Casing X 8-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 275'**). Pump an 43 sack balanced cement plug in est. **BOC @ +/- 370'**. WOC for 4 hrs, tag TOC w/ work string.
10. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker down, move off location, cut off anchors, and restore location.

Do the NMOCD and BLM approve of the revised procedure?

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

Priscilla Shorty

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Monday, July 29, 2024 7:17 AM
To: Mitch Killough
Cc: shyde@ensolum.com; Priscilla Shorty; Jackson Lancaster; Austin Harrison
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

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Thank you Mitch

Hilcorp Energy is approved to continue with the plugging of the above well.

Notify NMOCD 24 hours prior to moving on.

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: Mitch Killough <mkillough@hilcorp.com>
Sent: Thursday, July 18, 2024 7:58 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: shyde@ensolum.com; Priscilla Shorty <pshorty@hilcorp.com>; Jackson Lancaster <Jackson.Lancaster@hilcorp.com>; Austin Harrison <aharrison@hilcorp.com>
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

Hi Monica. As you requested, Ensolum conducted another LEL survey at Pam Iraci's water well on 7/9/2024. I am attaching their field summary email, along with field notes and a photo log.

If you need anything else from Hilcorp concerning this matter, please let us know.

Thanks.

Mitch Killough
Hilcorp Energy Company
713-757-5247 (Office)
281-851-2338 (Mobile)

From: Mitch Killough <mkillough@hilcorp.com>
Sent: Monday, May 20, 2024 8:47 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: shyde@ensolum.com; Priscilla Shorty <pshorty@hilcorp.com>; Jackson Lancaster <Jackson.Lancaster@hilcorp.com>
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

Morning Monica. I have set a reminder to conduct the follow-up field visit for no later than 7/15/2024. If you have any questions in the meantime, please let us know.

Thanks.

Mitch Killough
Hilcorp Energy Company
713-757-5247 (Office)
281-851-2338 (Mobile)

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Thursday, May 16, 2024 12:12 PM
To: Mitch Killough <mkillough@hilcorp.com>
Cc: shyde@ensolum.com; Priscilla Shorty <pshorty@hilcorp.com>; Jackson Lancaster <Jackson.Lancaster@hilcorp.com>
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

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Hello all

After Upper Management review.

Recheck the well in 60days to ensure the LEL was just an anomaly. At that time we can discuss how to proceed.

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: Mitch Killough <mkillough@hilcorp.com>
Sent: Tuesday, April 30, 2024 5:54 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: shyde@ensolum.com; Priscilla Shorty <pshorty@hilcorp.com>
Subject: FW: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

Morning Monica. I am forwarding an email response to your concern from Stuart Hyde, Ensolum. He has also been copied in.

Let us know if you would like to discuss this further.

Thanks.

Mitch Killough
Hilcorp Energy Company
713-757-5247 (Office)
281-851-2338 (Mobile)

From: Stuart Hyde <shyde@ensolum.com>
Sent: Monday, April 29, 2024 4:50 PM
To: Mitch Killough <mkillough@hilcorp.com>
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

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Mitch,

One possibility that we often see with shallow domestic water wells is that small concentrations of methane can be generated by biogenic bacterial processes in the subsurface. Since the Iraci well was winterized in the fall and closed for a period of time (likely 4 to 6 months) prior to collecting the field screening measurement on March 8, 2024, methane detected when the well was first opened could have originated through these bacterial processes. Once the well was re-opened on March 8, 2024, and then reopened and purged prior to sampling on March 24, 2024, the methane that was present in the water/well casing dissipated to levels below the laboratory detection levels. In cases where methane is detected in water well samples, we generally run an additional isotopic analysis of the water to assess the source of methane as biogenic (naturally occurring) vs. thermogenic (generally associated with natural gas production wells), however this could not be performed on the Iraci water sample due to lack of concentrations.

Additionally, if there were a connection between the Hilcorp production well and the Iraci well, we would expect a continued flow of methane into the Iraci well that would have recharged concentrations within that two-week timeframe. However, without knowing additional information regarding the subsurface geology and possible pathways between the two sites, this theory is only speculative.



Stuart Hyde, PG

(Licensed in WA/TX)

Senior Managing Geologist

970-903-1607

Ensolum, LLC

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: Mitch Killough <mkillough@hilcorp.com>
Sent: Monday, April 29, 2024 9:43 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: FW: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

[**EXTERNAL EMAIL**]

Stuart – Refer to the comment below from Monica Kuehling (NMOCD). Could Ensolum provide a statement addressing the concern below?

Thanks.

Mitch Killough
Hilcorp Energy Company
713-757-5247 (Office)
281-851-2338 (Mobile)

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Monday, April 29, 2024 10:30 AM
To: Mitch Killough <mkillough@hilcorp.com>
Cc: Priscilla Shorty <pshorty@hilcorp.com>
Subject: RE: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

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Hello Mitch

In review the sampled gases appear inert which conflicts with the prior LEL test, can you provide why there would be a conflict.

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: Mitch Killough <mkillough@hilcorp.com>
Sent: Wednesday, April 24, 2024 9:25 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Priscilla Shorty <pshorty@hilcorp.com>
Subject: FW: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

Hi Monica.

I am forwarding you an email (with Isotech attachments) from my consultant, Ensolum. As discussed prior (refer to attached Outlook), a water well sample was collected on 3/21/2024 at Pam Iraci's water well near the Landauer 1E. Based on the analytical attached, the reported concentrations of hydrocarbons are non-detect. Let us know how you would like to proceed at this point.

Thanks.

Mitch Killough
Hilcorp Energy Company
713-757-5247 (Office)
281-851-2338 (Mobile)

From: Stuart Hyde <shyde@ensolum.com>
Sent: Tuesday, April 23, 2024 12:47 PM
To: Mitch Killough <mkillough@hilcorp.com>
Cc: Ben Mitchell <bemitchell@hilcorp.com>; Devin Hencmann <dhencmann@ensolum.com>; Danny Burns <dburns@ensolum.com>
Subject: [EXTERNAL] FW: Data: Project Landauer 1E (Job 58103)

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Non detects for hydrocarbons at the Iraci well.



Stuart Hyde, PG

(Licensed in WA/TX)

Senior Managing Geologist
970-903-1607

Ensolum, LLC

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: Abigail Wright <abby.wright@stratumreservoir.com>
Sent: Tuesday, April 23, 2024 11:38 AM
To: Stuart Hyde <shyde@ensolum.com>
Cc: DL Champaign Reporters <DLChampaignReporters@stratumreservoir.com>
Subject: Data: Project Landauer 1E (Job 58103)

[**EXTERNAL EMAIL**]

Hello Stuart,

Please find attached the data for one dissolved gas sample belonging to Project Landauer 1E (Job 58103).

We will hold the sample until 5/23/2024 after which we will dispose of the remaining sample material. If you would like us to hold the sample longer please contact us.

Let me know if you have any questions or if I can assist in any way.

Best regards,

Abby Wright
Senior Project Manager

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 383350

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 383350
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well plugged 9/12/2024	9/27/2024