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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-43452

5. Indicate Type of Lease STATE ☐ FEE ☑

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: K2 State 18

1. Type of Well: Oil Well ☑ Gas Well ☐ Other

8. Well Number 1H

2. Name of Operator: Riley Permian Operating Company, LLC

9. OGRID Number 372290

3. Address of Operator: 29 E Reno Avenue, Ste. 500, OKC, OK 73104

10. Pool name or Wildcat: San Andres

4. Well Location
Unit Letter P : 120 feet from the S line and 440 feet from the E line
Section 18 Township 09S Range 33E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☑	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

Notify OCD 24 hrs. prior to any work done. gilbert.cordero@emnrd.nm.gov

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.

Riley Permian Operating would like to P&A the above mentioned well. Please find attached a procedure, current and proposed wellbore diagram.

SEE ATTACHED COA's MUST BE PLUGGED BY 8/1/25

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

SIGNATURE Spence Laird TITLE EHS&R Manager DATE 6/11/2024

Type or print name Spence Laird E-mail address: spencelaird@rileypermian.com PHONE: 1-405-543-1411

For State Use Only

APPROVED BY: TITLE Staff Manager DATE 10/1/24

Conditions of Approval (if any):

1. Tag CIBP @ 3666'. Spot 25sx cmt @ 3666'-3566' [San Andres]. Circ hole w/ MLF.
Pressure test csg.500psi/30min - Bubble test - Run CBL to surface
2. Spot 25 sx cmt 3200' - 3100' - T Queen
3. Spot 25sx cmt @ 2441'-2341' [Yates]. WOC. Tag.
4. Spot 25sx cmt @ 1934'-1834' [Salado, 9-5/8 shoe].
5. Spot 90sx cmt @ 500'-3' [Surface plug].
6. Cut off wellhead, verify cmt at surface, weld on Dry Hole Marker.

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Standard Plugging Conditions

This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
    - North Contact, Monica Kuehling, 505-320-0243, monica.kuehling@emnrd.nm.gov
    - South Contact, Gilbert Cordero, 575-626-0830, gilbert.cordero@emnrd.nm.gov

2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

    Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.

4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.

5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
    - North, water or mud laden fluids
    - South, mud laden fluids

6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.

7. Class of cement shall be used in accordance with the below table for depth allowed.

Class	TVD Lower Limit (feet)
Class A/B	6,000
Class I/II	6,000
Class C or III	6,000
Class G and H	8,000
Class D	10,000

Class E	14,000
Class F	16,000

8. After cutting the well head any “top off cement jobs” must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.

9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD C-133 permit.
    - A copy of this permit shall be available in each truck used to haul waste products.
    - It is the responsibility of the Operator and Contractor to verify that this permit is in place prior to performing work.
    - Drivers shall be able to produce a copy upon request of an OCD Compliance Officer.

10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.

11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.

12. Produced water or brine-based fluids may not be used during any part of plugging operations without prior OCD approval.

13. Cementing;
    - All cement plugs will be neat cement and a minimum of 100’ in length. 50’ of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
    - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50’ below the formation top and the cement retainer shall be set no more than 50’ from the perforations.
    - WOC (Wait on Cement) time will be:
        - 4 hours for accelerated (calcium chloride) cement.
        - 6 hours on regular cement.
    - Operator must tag all cement plugs unless it meets the below condition.
        - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
    - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
        - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
    - Cement can only be bull-headed with specific prior approval.
    - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.

14. A cement plug is required to be set from 50’ below to 50’ above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
    - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than

50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.

- Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
- Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35' of cement in lieu of the 100' plug. The bridge plug or retainer must be set within 50ft of the perforations.
- Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:
    - Northwest See Figure A
    - South (Artesia) See Figure B
    - Potash See Figure C
        - In the R-111-P (Or as subsequently revised) Area a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
    - South (Hobbs) See Figure D1 and D2
    - Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers
    - Dry hole marker requirements 19.15.25.10.
      The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
        1. Operator name
        2. Lease name and well number
        3. API number
        4. Unit letter
        5. Section, Township and Range

    - AGRICULTURE (Below grade markers)
      In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
        A) Aerial photo showing the agricultural area
        B) Request from the landowner for the below ground marker.

C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

Note: A below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.

Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
    - 1. Bell Canyon
    - 2. Cherry Canyon
    - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

Figure C

Potash Area R-111-P

T 18S – R 30E
Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All
except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

T 19S – R 29E
Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J
K,N,O,P. Sec 23.
Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

T 19S – R 30E
Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec
10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec
24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32
Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

T 19S – R 31E
Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

T 20S – R 29E
Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec
23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit
A-H. Sec 36 Unit B-G.

T 20S – R 30E
Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P.
Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

T 20S – R 31E
Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P.
Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

T 21S – R 29E
Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec
23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

T 21S – R 30E
Sec 1 – Sec 36

T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E
Sec 36 Unit A,H,I,P.

T 22S – R 29E
Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit
A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

T 22S – R 30E
Sec 1 – Sec 36

T 22S – R 31E
Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit
C,D,E,F,K,L,M,N. Sec 25
Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

T 23S – R 28E
Sec 1 Unit A

T 23S – R 29E
Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit
A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33
Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

T 23S – R 30E
Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit
A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec
33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

T 23S – R 31E
Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit
I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec
34. Sec 35 Unit C,D,E.

T 24S – R 29E
Sec 2 Unit A, B, C, D. Sec 3 Unit A

T 24S – R 30E
Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11.
Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

T 24S – R 31E
Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec
35 Unit E – P. Sec 36 Unit E,K,L,M,N.

T 25S – R 31E
Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

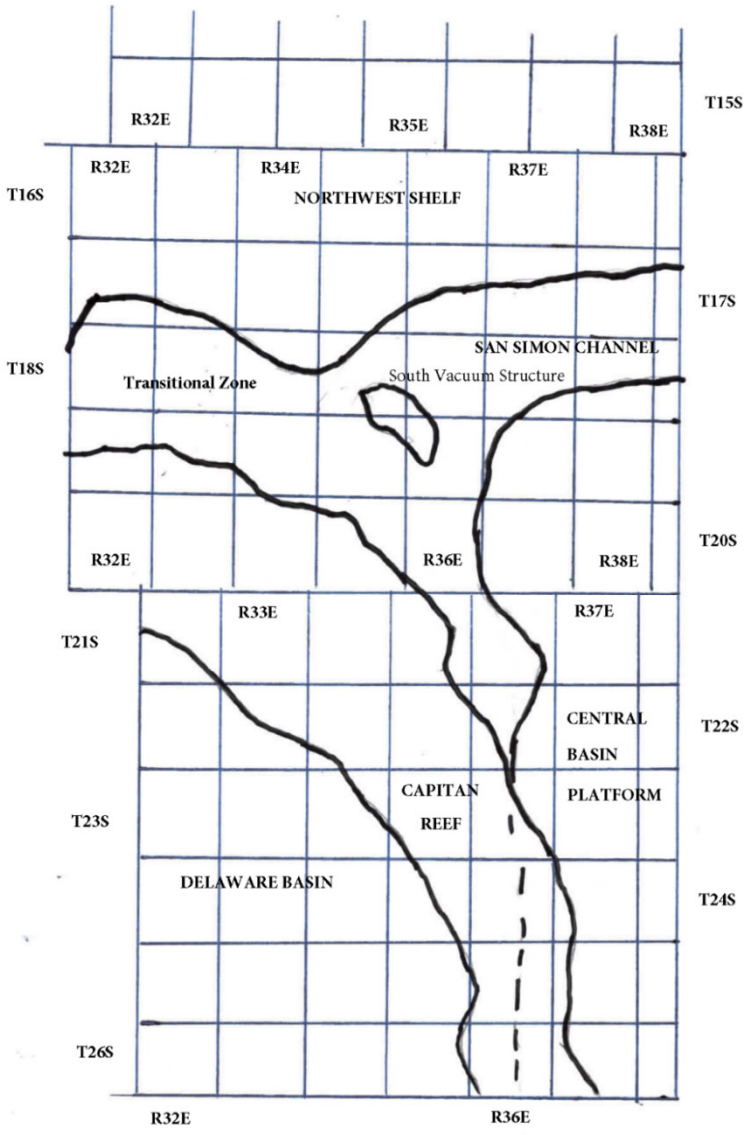


Figure D2 Formation Table

100' Plug to isolate upper and lower fresh water zones (typically 250' to 350')						
Northwest Shelf	**Captan Reef Area**	**Transition Zone**	**San Simon Channel**	**South Vacuum Structure**	**Delaware Basin**	**Central Basin Platform**
Granit Wash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit Wash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	Mckee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	Wolfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	Mckee
Chester	Pennsylvanian	Wolfcamp	Delaware	Barnett Shale	Lower Wolfcamp	Simpson Group
Austin	Wolfcamp	Bone Spring	San Andres	Morrow	Upper Wolfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	Wolfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of Wolfbone)	Silurian
Atoka	Queen, if present	Grayburg-San Andres	Base of Salt	Canyon	First Bone Spring Sand (Top of Lower Bone Spring)	Devonian
Lower Pennsylvanian	Bone Spring	Queen	Rustler	Pennsylvanian	Bone Spring	Strawn
Cisco-Canyon	Delaware	Seven Rivers		Blinebry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaware (Base of Salt)	Wolfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
Wolfcamp	Yates	Rustler		Queen		Abo Reef
Abo	Top Capitan Reef			Base of Salt		Drinkard
Abo Reef, if present	Base of Salt			Rustler		Tubb
Yeso (Township 15 South to Township 17 South)	Rustler					Blinebry
Drinkard or Lower Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinebry (Township 15 South to Township 17 South)						San Andres
Paddock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Grayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						

Riley Permian
K2 18 State 1H

Updated: Taylor Vincent 5/10/2024

PROSPECT	Montana

RESERVOIR	San Andres

LOCATION	
Footage:	120' FSL & 440' FEL
Surface Section:	18
County / State:	Lea / NM
Projection:	NAD 27
Lat SH:	N 33.526057
Long SH:	W 103.599618
Lat BH:	N 33.539289
Long BH:	W 103.599433

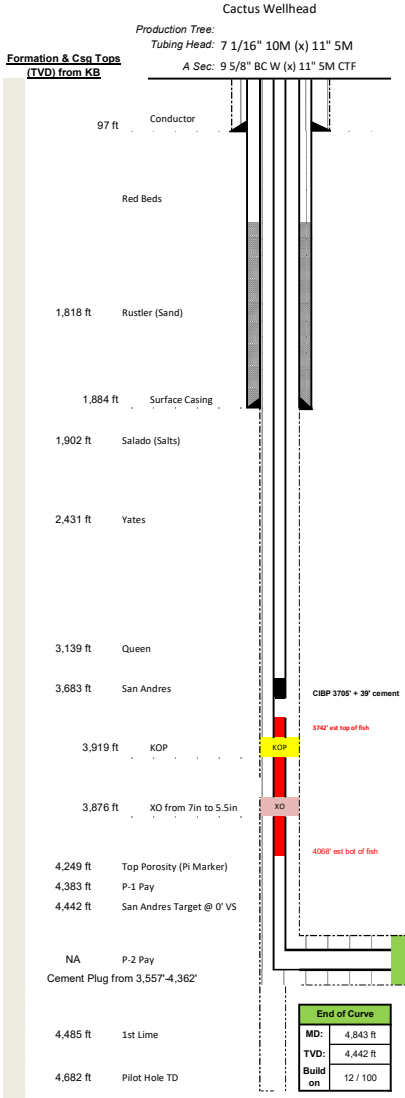
ELEVATIONS:	
GL: NAD 88	4391
KB:	4407
KB Calc:	16

WELL ID INFO			
API No:	30-025-43452	AFE #	
Permit #:	371115	BOLO #	
Rig:			
Spud Date:	1/10/2017	R/R Date:	1/29/2017

Date	History
Drill: 1/10/17 thru 1/29/17	Spud well on 1/10/17 with Norton #6. Drilled 12.25in hole to 1,890ft and set 9-5/8in csg @ 1,884ft. - Cement w/ 335bbls Allied light wt. class C + 54.5 bbl of class C premium. Displace w/ 20bbls FW+115bbl brine. Bump plug and floats help. 170bbls cement returned to surface. Full returns throughout job. Drilled 8-3/4in pilot hole to a TD of 4,682ft. Took triple combo logs, sonic scanner and sidewall cores. Spot sidetrack cmt plug @ 3,578ft. Time drilled off plug w/ KOP @ 3,919ft and drilled curve and lateral. Reached Driller's TD of 9,201ft MD on 1/27/2017. Set 7in 32# L-80 tapered to 5-1/2in 23# L-80 csg @ 9,171ft MD. - Cement w/ 556bbls Lead of Halliburton EconoCem Class C + Tail: 461bbls NeoCem class C. Displace with displace with 10bbls sugar water+240 bbls FW w/ clayweb (KCL 8.4ppg). Bump plug and floats help. 150bbls of cement returned to surface. Full returns throughout job. Release Rig on 1/29/17.
Complete: 3/1/2017 thru 3/31/17	3-1-17: Open Orio Toe viv 3-14-17 thru 3-16-17: **Frac 12 stages with Keane.** Stage length of 380ft. 8 Clusters per stage and 6 spf. Total clean volume of 82k + pump down volumes is a TLR of 85k bbls. Total sand was 2.5mil lbs. 3-30-17 thru 3-31-17: Drill out plugs with a WO rig. No tight spots. 4.5in JZ bit. Had to use a rig assisted snubbing unit to come out of the hole. Well taking fluid entire DO. Well was died and did not need to flow before running ESP.
Install ESP: 3/31/17 - 4/1/17	Install ESP and run tubing as per table shown below.
Flowback on ESP: 4/1/2017	Flowback well. LTR remaining is 85k bbls
Pull ESP / Fish LIH: 1/12/2018	Attempt to pull ESP. Only top pump recovered. The following is LIH: (2) esp, agh, intake, protector, motor, sensor, desander, no-go,8 jts of tailpipe. A total of 347ft. + 70ft of capstring. Estimated depth of top of fish at: 3,724ft.
5/1/2018	Change of operator: Rockliff Energy to Riley Permian
12/11/2019	Set CIBP at 3705', dump bail 6 sx (39') cls C on top. MIT performed and passed. Well TA'ed and expires 12/13/2024.

Tubing Detail (top to bottom)

Joints	Description	Footage	ID	Depth
	KB	16		16
	7" CIBP, plus 6 sx Cls C cement			3,665
	Top of Fish			
1	Pump: 400 Series D3500N 89 Stage Pump	22		3,724
1	Pump: 400 Series D3500N 89 Stage Pump	22		3,746
1	AGH (Gas Handler) D20-60	6		3,768
1	INTAKE / VGSA	3		3,774
1	Protector	8		3,782
1	Motor: 456 OD: 270 HP	31.5		3,814
1	Sensor: XT 150 Type 0	2		3,816
1	ESP Cable #4 Flat - to surface			3,816
?	Cap string Inconel 862- 3/8in to surface			3,816
1	Cyclone "De-Sander" - 7.0in	2.8		3,818
1	ESP No Go Assembly	1.5		3,820
8	8qty joint of 2-7/8in 6.50# L-80 EUE 8rd SMLS tubing	248		4,067
1	Bull plug	1		4,068
Pump Intake @	3,774 ft	Sensor @		3,816 ft



End of Curve	
MD:	4,843 ft
TVD:	4,442 ft
Build on	12 / 100

SURFACE CASING								
Hole Size:	12 1/4			Csg Properties	OD	9 5/8 in	Collapse	2,200 psi @ 100%
Surf. Csg:	9 5/8 in	36#	J-55 BTC		ID	8.92 in	Burst	3,520 psi @ 100%
1,884 ft of surface csg					Drift ID	8.765 in	Optimum MU Torque	
Set @	1,884 ft							
Cmt: Lead:	960	sxs	12.5	ppg		1.96	yld	Class C, 100% excess in OH
Tail:	230	sxs	14.8	ppg		1.34	yld	Class C, 100% excess in OH
Circ:	0	sxs			Centralizers:	16		
TOC:	Surface				Cut off:			
Total sxs:	1190	sxs						

TOP PRODUCTION CASING							
Hole Size:	8 3/4			Csg Properties	OD	7 in	Collapse	9,440 psi @ 100%
Top Prod. Csg:	7 in	32#	L-80 TSH Blue		ID	6.094 in	Burst	9,060 psi @ 100%
3,876 ft of top production csg					Drift ID	5.969 in	Optimum MU Torque	11,540 ft-lbs
Top of Prod. Csg:	Surface							
Set @	3,876 ft		XO is 100ft below KOP					
Cmt: Lead:		sxs		ppg			yld	
Tail:	0	sxs		ppg			yld	
Circ:	0	sxs			Centralizers:		1 every 3 Jnts	
Total sxs:	0	sxs	Cut off:					
TOC:	Surface							

BOTTOM PRODUCTION CASING							
Hole Size:	8 3/4			Csg Properties	OD	5.50 in	Collapse	11,160 psi @ 100%
Prod. Csg:	5 1/2 in	23#	L-80 GBCD		ID	4.670 in	Burst	10,560 psi @ 100%
5,178 ft of btm production csg					Drift ID	4.545 in	Optimum MU Torque	15,000 ft-lbs
		FC:			Centralizers:		No	
Cmt: Lead:	1107	sxs	11.5 ppg			2.82	yld	
Tail:	1850	sxs	13.2 ppg			1.42	yld	Class C, 30% excess in OH
Total sxs:	2957	sxs	Cut Off:					

Frac / Perf Info
12 stages with plugs set at (8 clusters - 6spf spaced evenly between these):
stage #1: 9068ft, stage #2: 8688ft, stage #3: 8308ft, stage #4: 7928ft, stage #5: 7548ft, stage #6: 7168ft, stage #7: 6788ft, stage #8: 6408ft, stage #9: 6028ft, stage #10: 5648ft. stage #11: 5268ft, stage #12: 4888ft
Perfs: Last Perf @ 4,535ft and First Perf @ 9,044ft
Pressure: Avg: 5,544psi, Avg max: 6,043psi **Rate:** Avg: 98bpm, Avg max: 101bpm **Sand:** 200mesh:48k lbs, 100mesh: 1.3mil lbs, 40/70mesh: 935k lbs, 40/70 RC: 281k lbs

Total Depth		
EOH TD @	9,201 ft	MD
	4,442 ft	TVD
EOH FC @	9,054 ft	MD
*50ft for shoe track		
VS	4,865 ft	MD
to 330' boundary		

Riley Permian
K2 18 State 1H

Updated: Taylor Vincent 5/10/2024

PROSPECT	Montana

RESERVOIR	San Andres

LOCATION	
Footage:	120' FSL & 440' FEL
Surface Section:	18
County / State:	Lea / NM
Projection:	NAD 27
Lat SH:	N 33.526057
Long SH:	W 103.599618
Lat BH:	N 33.539289
Long BH:	W 103.599433

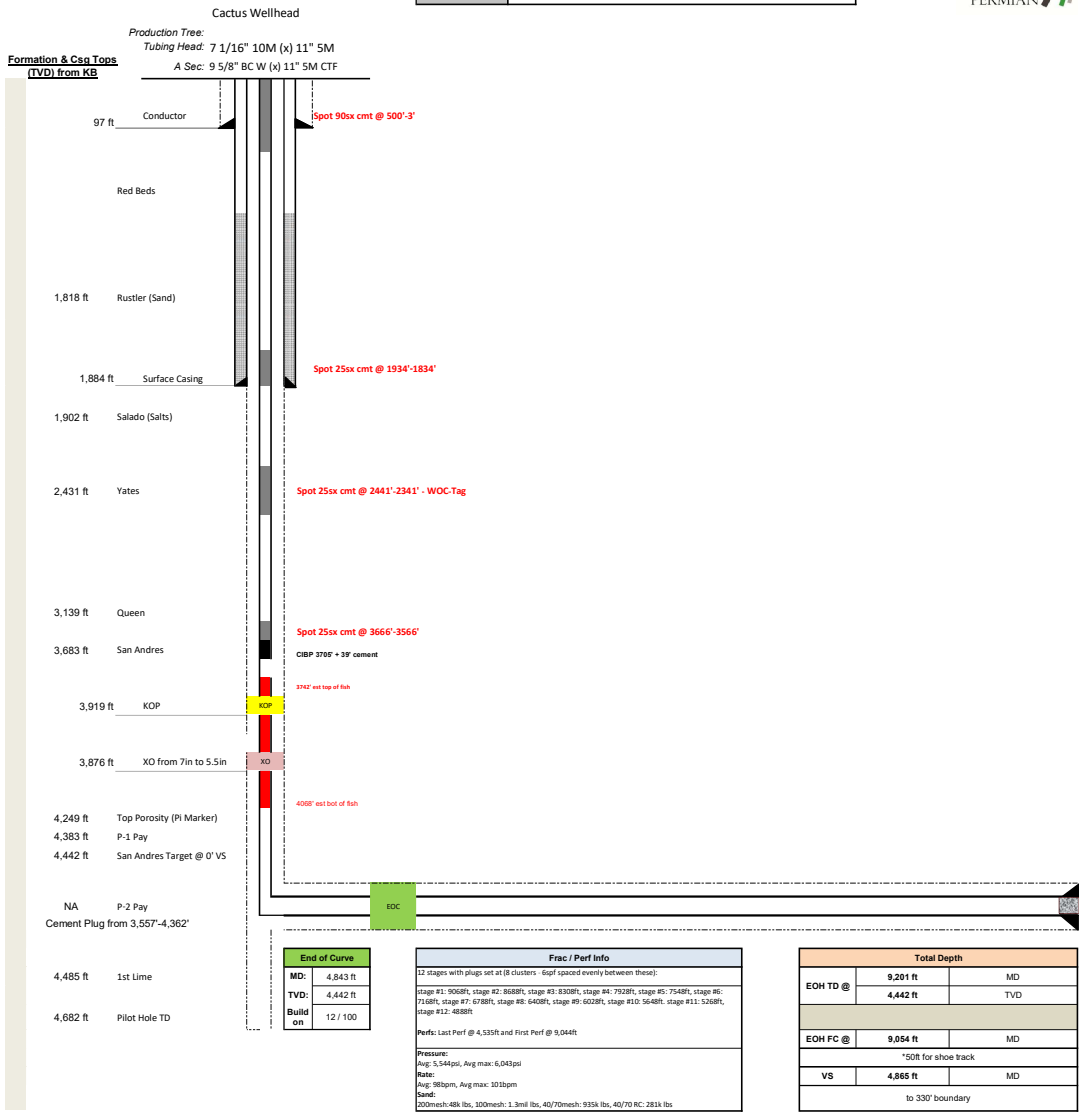
ELEVATIONS:	
GL: NAD 88	4391
KB:	4407
KB Calc:	16

Date	History
Drill: 1/10/17 thru 1/29/17	Spud well on 1/10/17 with Norton #6. Drilled 12.25in hole to 1,890ft and set 9-5/8in csg @ 1,884ft. - Cement w/ 335bbls Allied light wt. class C + 54.5 bbl of class C premium. Displace w/ 200bls FW+11bbl brine. Bump plug and floats help. 170bbls cement returned to surface. Full returns throughout job. Drilled 8-3/4in pilot hole to a TD of 4,682ft. Took triple combo logs, sonic scanner and sidewall cores. Spot sidetrack cmt plug @ 3,578ft. Time drilled off plug w/ KOP @ 3,919ft and drilled curve and lateral. Reached Driller's TD of 9,201ft MD on 1/27/2017. Set 7in 32# L-80 tapered to 5-1/2in 23# L-80 csg @ 9,171ft MD. - Cement w/ 556bbls Lead of Halliburton EconoCem Class C + Tail: 461bbls NeoCem class C. Displace with displace with 100bls sugar water+240 bbls FW w/ clayweb (KCL 8.4ppg). Bump plug and floats help. 150bbls of cement returned to surface. Full returns throughout job. Release Rig on 1/29/17.
Complete: 3/1/2017 thru 3/31/17	3-1-17: Open Orio Toe v/v 3-14-17 thru 3-16-17: **Frac 12 stages with Keane.** Stage length of 380ft. 8 Clusters per stage and 6 spf. Total clean volume of 82k + pump down volumes is a TLR of 85k bbls. Total sand was 2.5mil lbs. 3-30-17 thru 3-31-17: Drill out plugs with a WO rig. No tight spots. 4.5in JZ bit. Had to use a rig assisted snubbing unit to come out of the hole. Well taking fluid entire DO. Well was died and did not need to flow before running ESP.
Install ESP: 3/31/17 - 4/1/17	Install ESP and run tubing as per table shown below.
Flowback on ESP: 4/1/2017	Flowback well. LTR remaining is 85k bbls
Pull ESP / Fish LIH: 1/12/2018	Attempt to pull ESP. Only top pump recovered. The following is LIH: (2) esp, agh, intake, protector, motor, sensor, desander, no-go,8 jts of tailpipe. A total of 347ft. + 70ft of capstring. Estimated depth of top of fish at: 3,724ft.
5/1/2018	Change of operator: Rockliff Energy to Riley Permian
12/11/2019	Set CIBP at 3705', dump bail 6 sx (39') cls C on top. MIT performed and passed. Well TA'ed and expires 12/13/2024.

Tubing Detail (top to bottom)

Joints	Description	Footage	ID	Depth
	KB	16		16
	7" CIBP, plus 6 sx Cls C cement			3,665
	Top of Fish			
1	Pump: 400 Series D3500N 89 Stage Pump	22		3,724
1	Pump: 400 Series D3500N 89 Stage Pump	22		3,746
1	AGH (Gas Handler) D20-60	6		3,768
1	INTAKE / VGSA	3		3,774
1	Protector	8		3,782
1	Motor: 456 OD: 270 HP	31.5		3,814
1	Sensor: XT 150 Type 0	2		3,816
1	ESP Cable #4 Flat - to surface			3,816
?	Cap string Inconel 862- 3/8in to surface			3,816
1	Cyclone "De-Sander" - 7.0in	2.8		3,818
1	ESP No Go Assembly	1.5		3,820
8	8qty joint of 2-7/8in 6.50# L-80 EUE 8rd SMLS tubing	248		4,067
1	Bull plug	1		4,068

Pump Intake @	3,774 ft	Sensor @	3,816 ft
EOT @	4,066 ft		



End of Curve	
MD:	4,843 ft
TVD:	4,442 ft
Build on	12 / 100

Frac / Perf Info

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to 330' boundary		

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 384355

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 384355
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	CBL must be submitted to OCD via OCD Permitting prior to submitting C-103P	10/1/2024