

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

SWD
Energen Resources Corporation
162928
Red RUBY 35 FEDERAL
30-025-34003
Pool
SWD: DELAWARE
96100

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brenda F. Rathjen

Print or Type Name

Brenda F. Rathjen
Signature

Regulatory Analyst 432-688-3323

Energen Resources Corporation

Title

Brenda.rathjen@energen.com

5/28/14
Date

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage
Application qualifies for administrative approval? XX Yes No
- II. OPERATOR: Energen Resources Corporation
ADDRESS: 3300 N. "A" St. Bldg. 4 Ste. 100 Midland, TX 79705
CONTACT PARTY: Ken Pittaway - Sr. District Engineer PHONE: 432-686-3596
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary. See attachment III.
- IV. Is this an expansion of an existing project? Yes XX No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. See Attachment V.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. See Attachment VI.
- VII. Attach data on the proposed operation, including: See Attachment VII.
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. See Attachment VIII.
- IX. Describe the proposed stimulation program, if any. See Attachment IX.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
Logs enclosed. No test data was gathered.
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. No known fresh water wells w/in 1 mile.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. See Attachment VIII
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. See Attachment XIV.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Brenda F. Rathjen TITLE: Regulatory Analyst
SIGNATURE: Brenda F Rathjen DATE: 5/28/2014
E-MAIL ADDRESS: Brenda.rathjen@energen.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: Energen Resources Corporation OGRID #162928WELL NAME & NUMBER: Red Ruby 35 Federal SWD 1WELL LOCATION: 1100' FNL 830' FEL

FOOTAGE LOCATION

A

UNIT LETTER

35

SECTION

T23S

TOWNSHIP

R32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

See attached wellbore diagrams.

Hole Size: 17-1/2" Casing Size: 13-3/8" @ 865'Cemented with: 725 sx. or ft³Top of Cement: Surface Method Determined: Circ.Intermediate CasingHole Size: 11" Casing Size: 8-5/8" @ 4762'Cemented with: 1575 sx. or ft³Top of Cement: Surface Method Determined: Circ.Proposed Injection/Production CasingHole Size: 7-7/8" Casing
Size: 5-1/2"Cemented with: sx. or 1800 ft³Top of Cement: Surface Method Determined: CalculatedTotal Depth: 6750'Injection Interval5050 feet to 6650 (Perforated)
(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET
(Red Ruby 35 Federal SWD 1)

Attachment III

Tubing Size: 3-1/2" Lining Material: IPC (Internal Plastic Coated)Type of Packer: Baker Lok-setPacker Setting Depth: 4950'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes XX No

If no, for what purpose was the well originally drilled? Drilled and plugged test of Bone Spring
to 9100'

2. Name of the Injection Formation: Delaware (Bell Canyon & Cherry Canyon)

3. Name of Field or Pool (if applicable): Triste Draw

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

SEE ATTACHED Form 3160-4, 3160-5 from Patterson Petroleum Inc.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Next Higher – None Known, Next lower – Brushy Canyon 7030',
Bone Spring 8780' Avalon 8890'

Red Ruby 35 Federal 1 (Dry Hole)
Lea County, New Mexico

KB 3694'

A, Sec 35, T-23-S, R-32-E

Completed: 8/18/1997

P&A: 8/17/1997

Current Status - P&A
as of 5/2/2014

13-3/8" 48 & 61#, J-55
Set @ 865', Cmt w/725 sx
Class C, Cmt circulated
TOC @ surface
Hole size 17-1/2" 8

Cement to Surface with 15 sx from 15'

Formation Tops

Rustler: 1218'

Delaware Lime: 4850'

Delaware Sand: 5050'

Bone Springs: 8860'

8-5/8" 32#, NS80 set @ 4762'
Cmt w/1575 sx Class C
TOC @ Surface
Hole size 11"

30 sx cmt plug 919' - 809'

30 sx cmt plug @ 2700'-2590'

70 sx cmt plug @ 4825' - 4700', Tagged plug

45 sx cmt plug @ 7106'-7005'

60 sx plug 9075' - 8873'

TD: 9100'

Energen Resources
Red Ruby 35 Federal SWD 1
Lea County, New Mexico

Elevation: GL 3681'

KB 3694'

Location: 1100' FNL, 830' FEL

A, Sec 35, T-23-S, R-32-E

Spudded: 7/27/1997

Completed: 8/18/1997

API #: 30-025-34003

P&A: 8/17/1997

Surface csg:

13-3/8" 48 & 61#, J-55
Set @ 865', Cmt w/725 sx
Class C, Cmt circulated
TOC @ surface
Hole size 17-1/2"

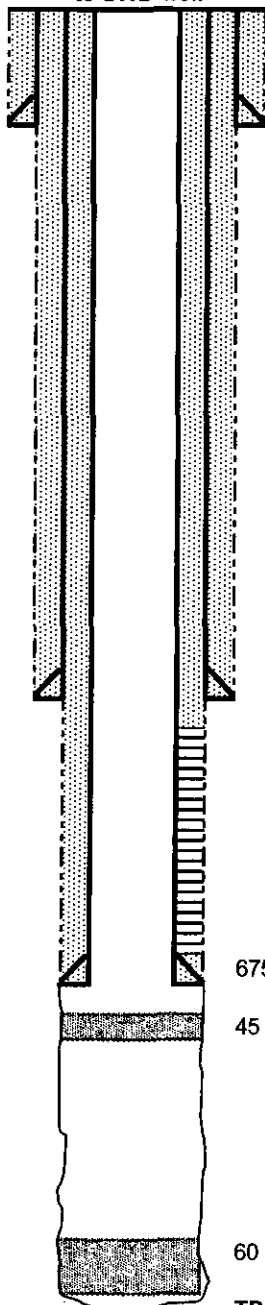
Intermediate csg:

8-5/8" 32#, NS80 set @ 4762'
Cmt w/1575 sx Class C
TOC @ Surface
Hole size 11"

Injection csg:

5-1/2" 17#, L-80 set @ ~6750'
Cmt to Surface
Hole size 7-7/8" ✓

**Proposed Conversion
to SWD well**



Perfs: 5050' - 5624', 265' with 1056 perfs
5676' - 6183', 209' with 836 perfs
6210' - 6650', 215' with 860 perfs

1600'

6750' - Bottom plug ✓

45 sx cmt plug @ 7106'-7005'

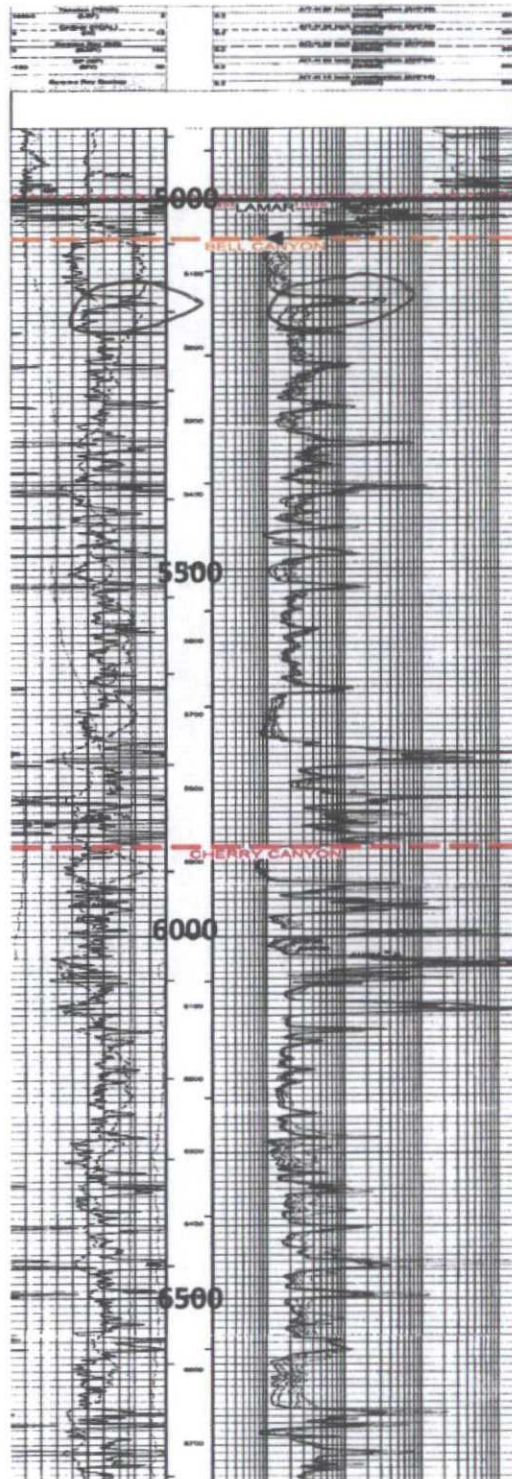
60 sx plug 9075' - 8873'

TD: 9100'

30025340030000

PATTERSON PETRLM INC
RED RUBY '35' FEDER 1
1101 FNL/829 FEL
TWP: 23 S - Range: 32 E - Sec. 35

8 5/8 TO 4762'



PLUGS

0-15'
809-919'
2590-2700'
4700-4825'
7000-7106'
8873-9075'

PROPOSED INJECTION
INTERVAL

TD=9100

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NO. 0110
1991
NM

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry

2. Name of Operator

Patterson Petroleum, Inc.

3. Address and Telephone No.

P.O. Drawer 1416, Snyder, TX 79550 915/573-1938

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1101' FNL & 229' FEL SEC 35, T. 23S, R. 32E.

5. Lease Designation and Serial No.

NM89059

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Red Ruby 35 Federa

9. API Well No.

300253400300

10. Field and Pool, or Exploratory Area

Triste Draw

11. County or Parish, State

Lea, NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

08/16/97 Set 60 sk cement plug from 9075 - 8873'
Set 45 sk cement plug from 7106 - 7005'
Set 70 sk cement plug from 4825 - 4700'

Tagged plug

08/17/97 Set 30 sk cement plug from 2700 - 2590'
Set 30 sk cement plug from 919 - 809'
Set 15 sk cement plug from 15' - Surface
Welded on dry hole marker.

RECEIVED
SEP 19 11:12
BUREAU OF LAND MGMT.
OFFICE OF LAND RIGHT
MANAGEMENT AREA

14. I hereby certify that the foregoing is true and correct

Signed David E. Glass

Title Petroleum Engineer

Date 09/17/97

(This space for Federal or State office use)

APPROVED FOR
ORIGINAL SUDJ DAVID E. GLASS

Approved by
Conditions of approval, if any:

Title DAVID E. GLASS

Date SEP 25 1997

18 U.S.C. Section 1001, makes 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.

*See instruction on Reverse Side

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

(See other in-
structions on
reverse side)

Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☐	DRY ☒	2. NAME OF OPERATOR		3. ADDRESS AND TELEPHONE NO.		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*		5. LEASE DESIGNATION AND SERIAL NO.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. CENVE. ☐	Patterson Petroleum, Inc.		P.O. Drawer 1416, Snyder, TX 79550		NM89059		7. UNIT ACREAGE NAME		
14. PERMIT NO.		DATE ISSUED		15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF. RNS. RT. OR. ETC.)*		19. ELEV. CASINGHEAD		8. FARM OR LEASE NAME, WELL NO.	
At surface		1101' FNL & 829' FEL		07/27/97		08/15/97		08/18/97		K.B. 3694'		3680'		Red Ruby 35 Federal	
At top prod. interval reported below				20. TOTAL DEPTH, MD & TVD		21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY		24. ROTARY TOOLS		25. CABLE TOOLS	
At total depth				9100'		9100'				→		X			
26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*												27. WAS DIRECTIONAL SURVEY MADE			
												Yes			
28. TYPE ELECTRIC AND OTHER LOGS RUN												29. WAS WELL CORED			
Platform Express (CNL/TDD/AIT/GR)												No			
30. CARING RECORD (Report all strings set in well)															
CASING SIZE/GRADE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		TOP OF CEMENT, CEMENTING RECORD				AMOUNT PULLED			
13 3/8" J55		48# & 61#		865'		17 1/2"		Surface 725 sx "C"				0			
8 5/8" NS80		32#		4762'		11"		Surface 1575 sx "C"				0			
31. LINER RECORD															
SIZE		TOP (MD)		BOTTOM (MD)		BACKS CEMENT*		SCREEN (MD)		32. TUBING RECORD		SIZE		DEPTH SET (MD)	
33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.															
34. PREPARATION RECORD (Interval, size and number)								35. DEPTH INTERVAL (MD)							
								AMOUNT AND KIND OF MATERIAL USED							
36. PRODUCTION															
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)								WELL STATUS (Producing or abandoned)			
												DRYHOLE			
DATE OF TEST		HOURS TESTED		CHOKER SIZE		PROD'N. FOR TEST PERIOD		OIL—BSL.		GAS—MCF.		WATER—BSL.		GAS-OIL RATIO	
FLOW, TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BSL.		GAS—MCF.		WATER—BSL.		OIL GRAVITY-API (CORR.)			
37. DISPOSITION OF GAS (Hold, used for fuel, vented, etc.)												38. TEST WITNESSED BY			
												ACCEPTED FOR RECORD			
39. LIST OF ATTACHMENTS												40. ORIG. SIGN. DAVID R. GLASS			
41. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records												42. DATE 09/17/97			
SIGNED <u>John R. Ross</u> TITLE <u>Petroleum Engineer</u>												DATE <u>09/17/97</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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.

DISTRICT I
1825 N. French Dr., Hobbs, NM 58240

DISTRICT II
811 South First, Artesia, NM 58210

DISTRICT III
1000 Rio Brazos Rd., Arisco, NM 87410

DISTRICT IV
2040 South Pantheon, Santa Fe, NM 87506

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to Appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34003		Pool Code 96803		Pool Name TRISTE DRAW BONE SPRING	
Property Code 40257		Property Name RED RUBY 35 FEDERAL			Well Number 1D
OGRID No. 162928		Operator Name ENERGEN RESOURCES CORPORATION			Elevation 3681'

Surface Location

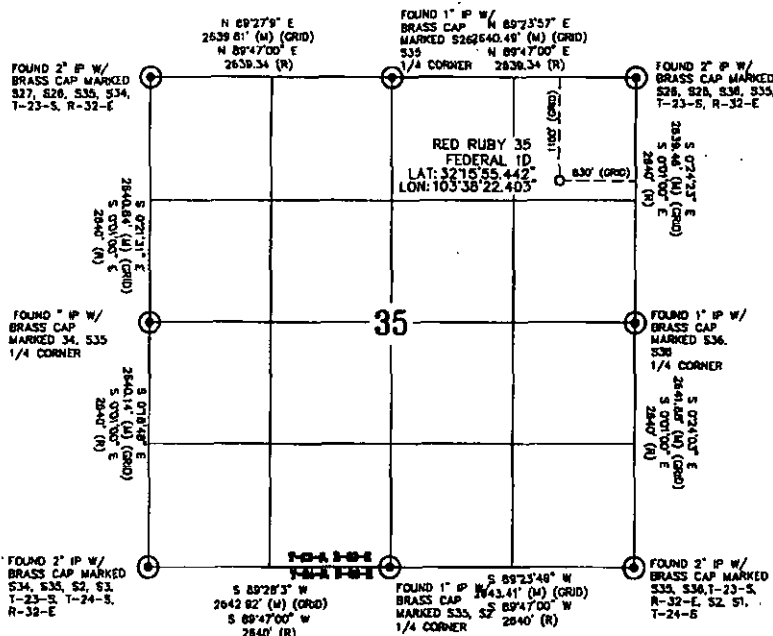
UL or lot No. A	Section 35	Township 23-S	Range 32-E	Lot Idn	Feet from the 1100	North/South line North	Feet from the 830	East/West line East	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SECTION 35
T-23-S, R-32-E



NOTES:
1. COORDINATES AND BEARINGS ARE BASED ON LAMBERT CONICAL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM NAD 83, CORRS 95, TEXAS CENTRAL ZONE WITH A CONVERGENCE ANGLE OF 0.37067599 AND DISTANCES ARE OF GRID VALUE WITH A CENTRAL COMBINED SCALE FACTOR OF 0.99978903. THE POSITIONAL TOLERANCE OF THIS SURVEY EXCEEDS THE REQUIREMENTS FOR A CONSTRUCTION SURVEY.
2. SCALE 1" = 2000'

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

Date _____

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

5/1/12

Date

Signature

Professional Surveyor

No. 3959

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

WATSON

Certificate No. WATSON D. WATSON JR.
P.L.S. #3959

WATSON-1100-00

WATSON PROFESSIONAL GROUP INC

SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Rustler	1218'	
				Delaware Lime	4850'	
				Delaware Sand	5050'	
				Bone Springs	8860'	

Attachment VII section

Red Ruby 35 Federal SWD 1

Lea County, New Mexico

Includes:

1. Proposed average and maximum daily rate and volume of fluids to be injected.
2. Whether the system is open or closed.
3. Proposed average and maximum injection pressure.
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water.
5. A chemical analysis of the disposal zone formation water.

Attachment VII, #1, #3
Red Ruby 35 Federal SWD 1

Energen Resources Corporation, 3300 N. A Street, Bldg. 4, Ste. 100, Midland, Texas 79705, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to inject fluid into a formation productive of oil or gas.

Proposed injection fluid into the Red Ruby 35 Federal SWD 1 is water from area wells producing from the Bone Spring formation.

Disposal water will be injected into the Bell Canyon and Cherry Canyon formations at a depth of 5050'-6650'.

#1. Proposed average daily rate: 4000 BWPD with a maximum daily rate of 10,000 BWPD.
Volume of fluid to be injected : ~20 MMB

#3. Proposed average surface pressure: 800 PSI with a maximum surface pressure of 1010 PSI.

ENERGEN RESOURCES CORPORATION

Red Ruby 35 Federal SWD 1

1100' FNL and 830' FEL
Sec 35, T-23-S, R-32-E
Lea, Co. NM
Triste Draw Delaware Field
Cherry Canyon SWD Procedure

Date: April 29, 2014

API#: 30-025-34003

AFE No: PB041214

Cost: \$1,703,272

TD: 9100'

PBTD: SURF' (P&A - 8/17/97)

KB: 3694'

GL: 3681'

Surface Casing: 13-3/8" 48-61#/ft, J-55 at 865'.
Cemented w/725 sx Class C, circulated.

Intermediate Casing: 8-5/8" 32#/ft, N-80 @ 4762'.
Cemented w/1575 sx Class C, circulated.

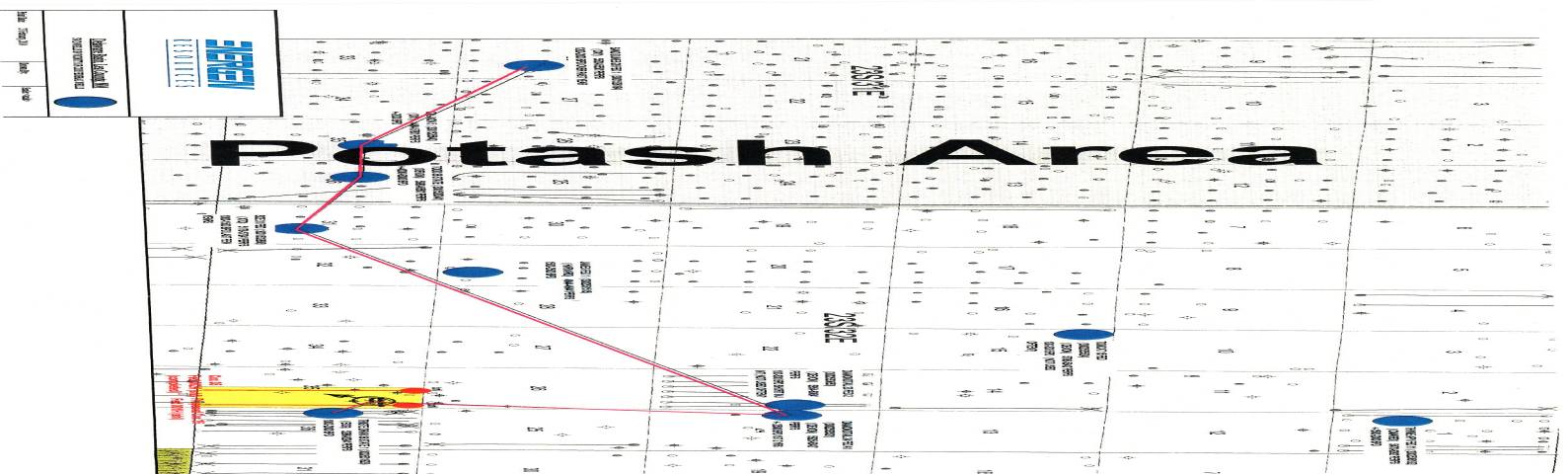
Tubing: None

Perforations: None

Re-entry Procedure

- 1) Set and test Anchors.
- 2) Dig out to 8-5/8" and prepare wellhead and flange.
 - a) After welding flange, test to 5000 psi against surface plug.
- 3) MIRU Pulling Unit
- 4) Install BOPE. PU Bit and collars and RIH w/tbg.
 - a) PU 6,800 feet of 2 7/8 7.9# PH-6 Workstring, 5 drill collars and a 7 5/8" cut bit.
- 5) RU Reverse Unit. Drill cement plugs @ 15', 809', 2590', and 4700'.
 - a) Drill with 9.0# KCl based drilling mud. Maintain circulation while drilling. Bottoms up after each plug drill.
- 6) Drill to 6,750', Circulate clean.
 - a) CBU x2.
- 7) Prep hole for casing and cement. POOH.
 - a) POOH to surface, PU Casing scrapper, TIH to 6750. Ream if necessary. CBU x1.
- 8) RU to run 5.5" casing. RIH to TD.
 - a) RIH 5.5" 17# L-80 to 6750' feet. Include cmt shoe, floats. Bowspring centralizer every 3rd jt.
- 9) Cement 5.5" casing. WOC.
 - a) Tail slurry 15.2 ppg 65:35 Class C:Poz 25 lbs/sk silica flour + LCM. Slurry to 4500 feet + 50% excess.
 - b) Lead Slurry 12.2 ppg 50:50 Class C:Poz + LCM. Slurry to surface + 25% excess.
 - c) Bump plug to 3000 psi, SI well.
 - d) WOC 36 hrs.

- 10) Run CBL/GR/CCL.
 - a) Run Radial CBL from TD to Surface.
- 11) Perforate & acidize per schedule from 5050' to 6650'
 - a) Perf and Acid via 3 stages.
 - i) Stage 1 6650-6210 215 feet of perfs – 860 perfs - 30,100 gallons of acid
 - ii) Stage 2 6183-5676 209 feet of perfs – 836 perfs – 29,260 gallons of acid plug @ 6200 ft
 - iii) Stage 3 5624-5050 264 feet of perfs – 1056 perfs – 36,960 gallons of acid plug @ 5660 ft
 - b) Set wireline conveyed composite bridge plug between stages
 - c) All shots 4 spf 120 deg phasing 3 ½ inch carrier guns 21 gram charges
 - d) Acid 15% Inhibited HCl. Pumped with acid compatible bio-diverter balls. Acid Matrix rate @ 6 bpm.
 - e) Acid displaced to top perf between stages.
- 12) RIH with PH-6 and drill out plugs using 4 ½ inch cut bit. CBU x1.
- 13) RIH with injection equipment.
 - a) 3.5" 7.7# L-80 tubing. LT at 5010 ft. BHA – X nipple – 1 jt – XN nipple – Baker Super Hornet Packer – Wireline guide.
- 14) Circulated packer fluid.
- 15) Set packer in compression and allow for air to work out of annulus, then pressure test.
 - a) Pressure test to 3000 psi. Hold for 60 minutes.
- 16) ND BOP, NU Injection wellhead.
- 17) Notify OCD personnel for final mechanical integrity testing.
- 18) RDMO pulling unit
- 19) RU SWD facility. Begin injection after C-108 injection permit is approved.



Wells Co AR

9 74th Div
3 74th Lt
12 74th
and 3 hole

Social

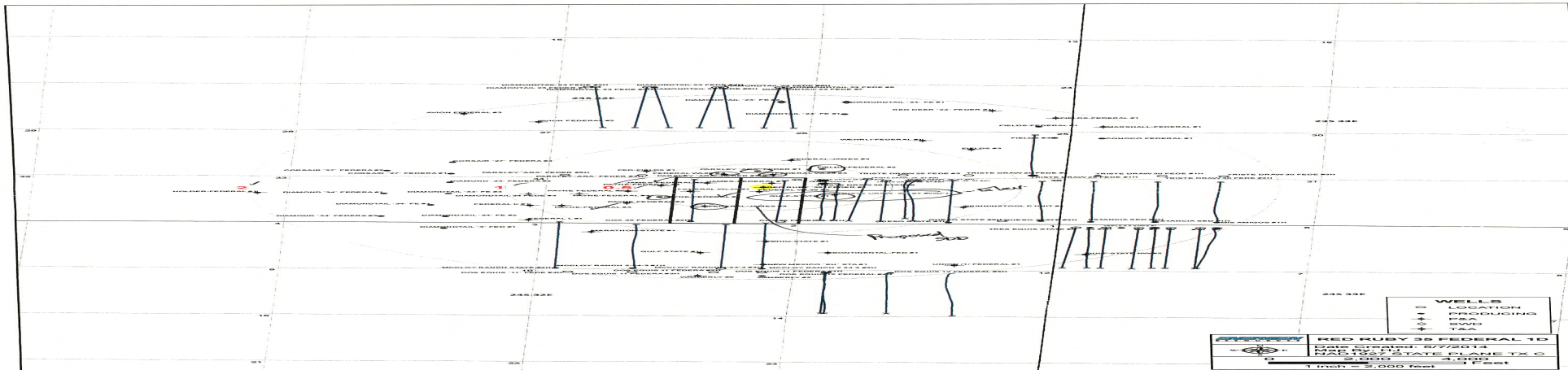
Area of Interest
Well Data 1/2 mile

Red River Off Federal WPT

[Handwritten notes:]

7000
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000

[illegible]



Attachment I

ATTACHMENT II

Area of Interest
Well Data (1/1/2014)
Red Shale (S. Poland) (WV)

3

Operator	Well Name	API	Type	Status	Location	Distance	Spud Date	Total Depth	TWC	Percent of Completion
Vaca Petroleum Corporation	Prophet #1	34424-4107	Oil	Non-Producing	P-34424-SE	130'	Not Drilled			
	Prophet #2				20770-707E					
Vaca Petroleum Corporation	Prophet #1	34424-4108	Oil	Non-Producing	S-34424-SE	170'	Not Drilled			
	Prophet #2				20770-707E					
* Operator who well was drilled										

Energen Resources
Red Ruby 35 Federal 1 (Dry Hole)
Lea County, New Mexico

Elevation: GL 3681'

KB 3694'

Location: 1100' FNL, 830' FEL

A, Sec 35, T-23-S, R-32-E

Spudded: 7/27/1997

Completed: 8/18/1997

API #: 30-025-34003

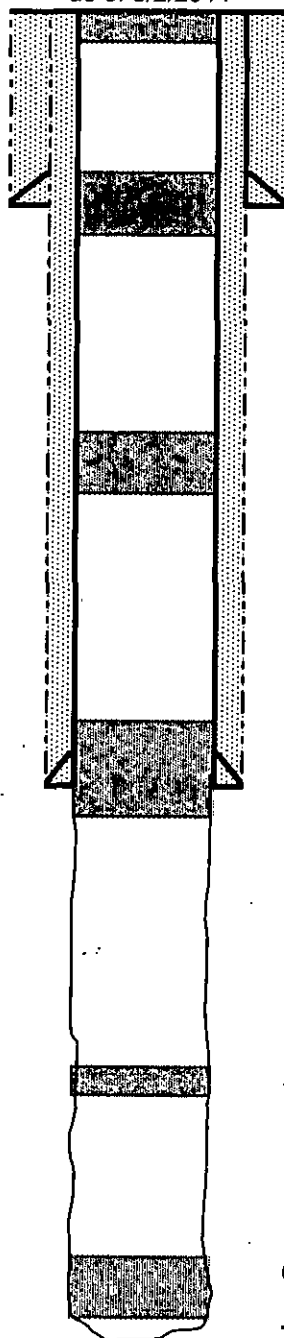
P&A: 8/17/1997

Current Status - P&A

as of 5/2/2014

Surface csg:

13-3/8" 48 & 61#, J-55
Set @ 865', Cmt w/725 sx
Class C, Cmt circulated
TOC @ surface
Hole size 17-1/2" 865'



Cement to Surface with 15 sx from 15'

30 sx cmt plug 919' - 809'

30 sx cmt plug @ 2700'-2590'

70 sx cmt plug @ 4825' - 4700', Tagged plug

45 sx cmt plug @ 7106'-7005'

60 sx plug 9075' - 8873'

TD: 9100'

Formation Tops

Rustler: 1218'

Delaware Lime: 4850'

Delaware Sand: 5050'

Bone Springs: 8860'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM89059

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Red Ruby 35 Federal

9. API Well No.

300253400300

10. Field and Pool, or Exploratory Area

Triste Draw

11. County or Parish, State

Lea, NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry

2. Name of Operator

Patterson Petroleum, Inc.

3. Address and Telephone No.

P.O. Drawer 1416, Snyder, TX 79550 915/573-1938

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1101' FNL & 829' FEL SEC. 35, T. 23S, R. 32E.

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

08/16/97 Set 60 sk cement plug from 9075 - 8873'
Set 45 sk cement plug from 7106 - 7005'
Set 70 sk cement plug from 4825 - 4700'

Tagged plug

08/17/97 Set 30 sk cement plug from 2700 - 2590'
Set 30 sk cement plug from 919 - 809'
Set 15 sk cement plug from 15' - Surface
Welded on dry hole marker.

RECEIVED
1991 SEP 19 4 11:12
BUREAU OF LAND MANAGEMENT
U.S. DEPARTMENT OF THE INTERIOR

14. I hereby certify that the foregoing is true and correct

Signed David E. Glass

Title Petroleum Engineer

Date 09/17/97

(This space for Federal or State office use)

APPROVED FOR
KORIG. SUDO DAVID E. GLASS

Approved by
Conditions of approval, if any:

Title DAVID E. GLASS

Date SEP 25 1997

Under 18 U.S.C. Section 1001, makes 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.

*See instruction on Reverse Side

Tempo Energy Inc.
James Federal #1 SWD
Lea County, New Mexico

Elevation: GL 3665'

Location: 660' FNL, 660' FEL, A Sec 35, T-23-S, R-32-E

Spudded: 1/26/1961

Completed: 2/10/1961

API #: 30-025-08128

P&A: 11/24/2003

Current Status - P&A

5/2/14

Surface csg:

8-5/8", 24# set @ 309'
Cmt w/ 220 sx
Cement circulated
15" hole

Spot 25 sx from 254' - surface

Formation Tops

T/Rustler: 1220'
Top of Salt: 4162'
Base of Salt: 4759'
Lamar Lime: 5005'
Delaware Sand: 5060'

309'

Perforated @ 350'

Sqz 45 sx @ 350'

Sqz 45 sx @ 350' - 254' tag

Spotted 50 sx, then 40 sx, then 40 sx @ 4206'
Total 130 sx cmt plug 4206-3988' tag

Production csg:

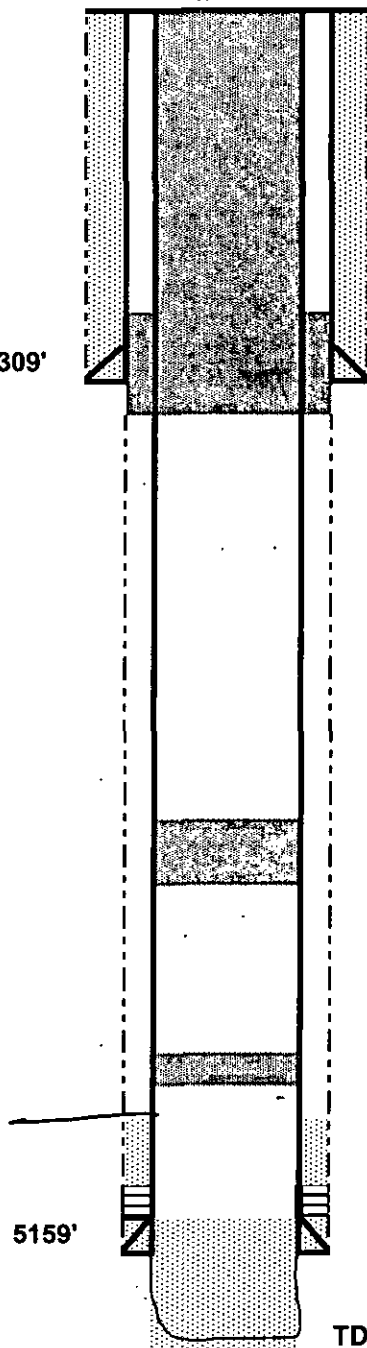
4-1/2" 9.5#
Set @ 5159'
Cmt w/200 sx
TOC @ 4159'
7-7/8" hole

30 sx cmt plug 4700' - 4600' tag ✓

5159'

Perfed 5070' - 5097' when converting to SWD
Sand to 5100'

TD: 5200'



Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

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

WELL API NO. 30-025-08128-00-00
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name James Federal
8. Well Number 001
9. OGRID Number 22223
10. Pool name or Wildcat Trieste Draw

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 ☐ Gas Well ☒ OTHER SWD	7. Lease Name or Unit Agreement Name James Federal
2. Name of Operator Tempo Energy, Inc.	8. Well Number 001
3. Address of Operator Po Box 1034 Midland, TX 79702	9. OGRID Number 22223
4. Well Location Unit Letter <u>A</u> : <u>660'</u> feet from the <u>N</u> line and <u>660'</u> feet from the <u>E</u> line Section <u>35</u> Township <u>23S</u> Range <u>32E</u> NMPM County <u>Lea</u>	10. Pool name or Wildcat Trieste Draw
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: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒ CASING TEST AND CEMENT JOB ☐ OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

11/14/03 MIRU Mayo Mars Pluggers
11/17/03 Spot 30 sxs @ 4700-4600'
11/18/03 Spot 50 sxs @ 4206- no tag
11/19/03 Spot 40 sxs @ 4206- no tag
11/20/03 Spot 40 sxs @ 4206-3988' Tag
11/21/03 Perforate @ 350'
11/21/03 Squeeze 45 sxs @ 350-350' Tag
11/24/03 Squeeze 45 sxs @ 350-254' Tag
11/24/03 Spot 25 sxs @ 254' to surface
Install Dry Hole Marker

Approved as to plugging of the Well Bore.
Liability under bond is retained until
surface restoration is completed.

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

SIGNATURE Frank Pannell TITLE Vice President DATE 12/15/03
Type or print name Frank Pannell E-mail address: frank.pannell@state.nm.gov Telephone No. (432) 689-2951
(This space for State use)

APPROVED BY Harry W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE DEC 23 2003
Conditions of approval, if any:

Tempo Energy Inc.

Payne Federal #1 (Dry Hole)

Lea County, New Mexico

Elevation: GL 3678'

Location: 2310' FNL, 2310' FWL

F, Sec 35, T-23-S, R-32-E

Spudded: 5/20/1961

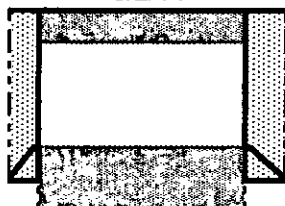
Completed: 5/30/1961

API #: 30-025-08127

P&A: 9/20/1991

Current Status - P&A

5/2/14



323'

Surface csg:

8-5/8", 24# set @ 323'

Cmt w/ 130 sx

Cement circulated

12-1/4" hole

Circulate Cement to Surface with 14 sx from 50'

50 sx cmt plug 431' - 258'

Formation Tops

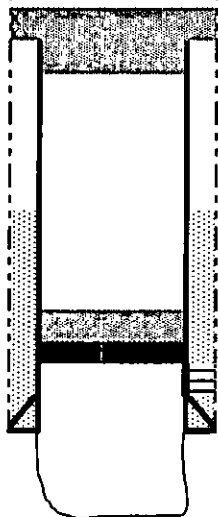
T/Rustler: 1193'

T/Salt: 4110'

B/Salt: 4693'

T/Lamar: 4934'

T/Delaware Sand: 4985'



5081'

Production csg:

4-1/2" 9.5#

Set @ 5081'

Cmt w/200 sx

TOC @ 4100'

7-7/8" hole

Cut 4-1/2" Csg @ 3040'

40 sx cmt plug @ 2986' - 3090'

CIBP @ 4902' capped w/35 sx cmt to 4855'

Perf 4992-5000, 5014-5021

TD: 5200'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM 03226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Payne Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Tristi Draw Delaware

11. SEC., T., R., M., OR BLM. AND
SURVEY OR AREA

35-235-32E

12. COUNTY OR PARISH 13. STATE

Lea

NM

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—" for such proposals.)

SEP 26 11 33 AM '91

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Tempo Energy, Inc.

3. ADDRESS OF OPERATOR

4000 N. Big Spring, Suite 109 Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

F-2310 ~~FF~~ North & 2310 ~~FF~~ West

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, CR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

- 9-18-91 Plug # 1. Set 4-1/2" CIBP @ 4900 Ft. capped with 35 SXS Cement to 4855 ft.
9-18-91 Plug # 2. Circ. hole with 10 Lbs. brine with 25 lbs salt water gel per bbl.
from 4850 ft. to surf.
9-19-91 Plug # 3. Cut 401.2" casing @ 3040 ft. lay casing down.
9-19-91 Plug # 4. Spot 40 SXS plug inside 4-1/2" casing stub @ 3090 ft. WOC.
9-20-91 Plug # 5. RIH with tubing & tag plug @ 2986 ft.
9-20-91 Plug # 6. Spot 50 SXS plug @ 431 ft. WOC.
9-20-91 Plug # 7. Tag cement plug @ 258 Ft.
9-20-91 Plug # 8. Spot 14 SXS cement from 50 ft. to surf.
9-20-91 Plug # 9. Install dry hole marker.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Acquisition Manager

DATE Sept. 23, 1991

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

Union Oil Company of California

Federal 'WL' #1

Lea County, New Mexico

Elevation: GL 3693'

Location: 1650' FSL, 2310' FWL,

G, Sec 35, T-23-S, R-32-E

Spudded: 3/6/1962

API #: 30-025-08132

Completed: 3/24/1962

P&A: 6/23/1981

Current Status - P&A

5/2/14

Surface csg:

8-5/8", 24#, J-55 set @ 365'

Cmt w/ 275 sx

TOC unknown

9.5# mud pumped
between cmt plugs

365'

Cement to Surface with 10 sx from 30'

Formation Tops

Rustler: 1208'

Base of Salt: 4725'

Lamar Lime: 4967'

Delaware Sand: 5025'

50 sx cmt plug 308' - 430' tag

50 sx cmt plug @ 1206'-1250' tag

Cut 4-1/2" Csg @ 2691' & LD 86 jts

50 sx cmt plug @ 2576' - 2791' tag

Production csg:

4-1/2" 9.5# J-55

Set @ 5092'

Cmt w/100 sx

TOC @ Unknown

7-7/8" hole

5092'

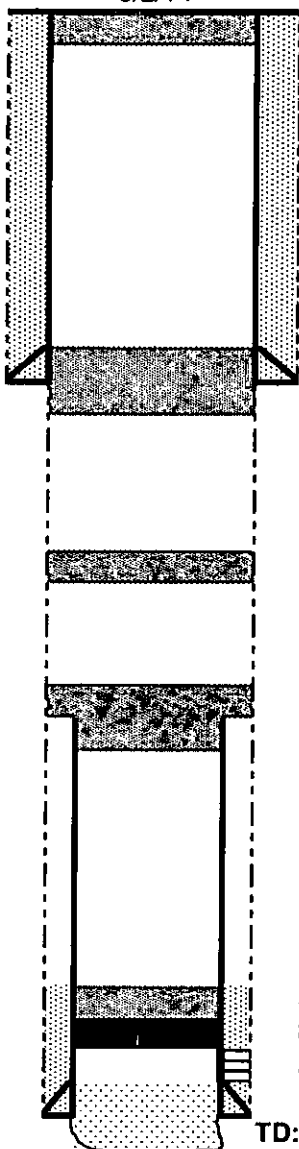
CIBP @ 4980'

88 sx cmt 4945'-4980' tag

Perf 5030-5034

TD: 5110'

PBTD: 5090'



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions reverse side)

Form approved
Budget Bureau No. 42-R1424

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—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-04465	
2. NAME OF OPERATOR Union Oil Company of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 671 Midland, Texas		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SW/4, NE/4, Section 35, T-23-S, R-32-E 1650/N 2310/E		8. FARM OR LEASE NAME Federal "WL"	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DT, RT, CR, etc.)		10. FIELD AND POOL, OR WILDCAT Triste Draw Delaware	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 35 T-23-S R-32-E	
		12. COUNTY OR PARISH Lea	
		13. STATE New Mexico	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	(Other)	☐
(Other)	☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	☐
PULL OR ALTER CASING	☐	REPAIRING WELL	☐
MULTIPLE COMPLETE	☐	ALTERING CASING	☐
ABANDON*	☐	ABANDONMENT*	☒
CHANGE PLANS	☐		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6-16-81 Rig up PU, pulled rods, pump and tubing.

6-19-81 Set C.I. Bridge Plug in 4-1/2" OD casing at 4,980'. Spotted plug No. 1 from 4,980' to 4,945' with 88 sx cement. Tagged cement at 4,945'.

6-20-81 Shot 4-1/2" OD casing at 2,691'. Pulled and laid down 86 jts. 4-1/2" OD casing.

6-22-81 Ran 2-3/8" OD tubing, spotted plug No. 2 from 2,791' to 2,576' in 4-1/2" OD casing and 7-7/8" open hole with 50 sx cement. Tagged top of cement at 2,576'. Pulled 2-3/8" OD tubing to 1,250', spotted plug No. 3 from 1,250' to 1,206' in 7-7/8" open hole with 50 sx cement. Tagged top of cement at 1,206'.

6-23-81 Pulled 2-3/8" OD tubing to 430', spotted plug No. 4 from 430' to 308' in 7-7/8" open hole and bottom of 8-5/8" OD casing with 50 sx cement. Tagged top of cement at 308'. Spotted plug No. 5 from 30' to surface in top of 8-5/8" OD casing with 10 sx cement. Welded 1/2" steel plate on top of 8-5/8" OD casing. Installed 4" x 4' dry hole marker. 9.5# mud pumped between cement plugs. WELL PLUGGED AND ABANDONED 6-23-81.

18. I hereby certify that the foregoing is true and correct

SIGNED J.R. Hughes TITLE Dist. Drilling Supt. DATE July 9, 1981

(This space for Federal or State official use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

*See Instructions on Reverse Side

API 30-025-08132

SEP 7 1982
JAMES A. CANNAN
DISTRICT SUPERVISOR

Union Oil Company of California

Federal 'WL' #2

Lea County, New Mexico

Elevation: GL 3680'

Location: 1650' FNL, 990' FEL,

H, Sec 35, T-23-S, R-32-E

Spudded: 3/17/1962

Completed: 3/25/1962

API #: 30-025-08133

P&A: ~11/15/1972

Current Status - P&A

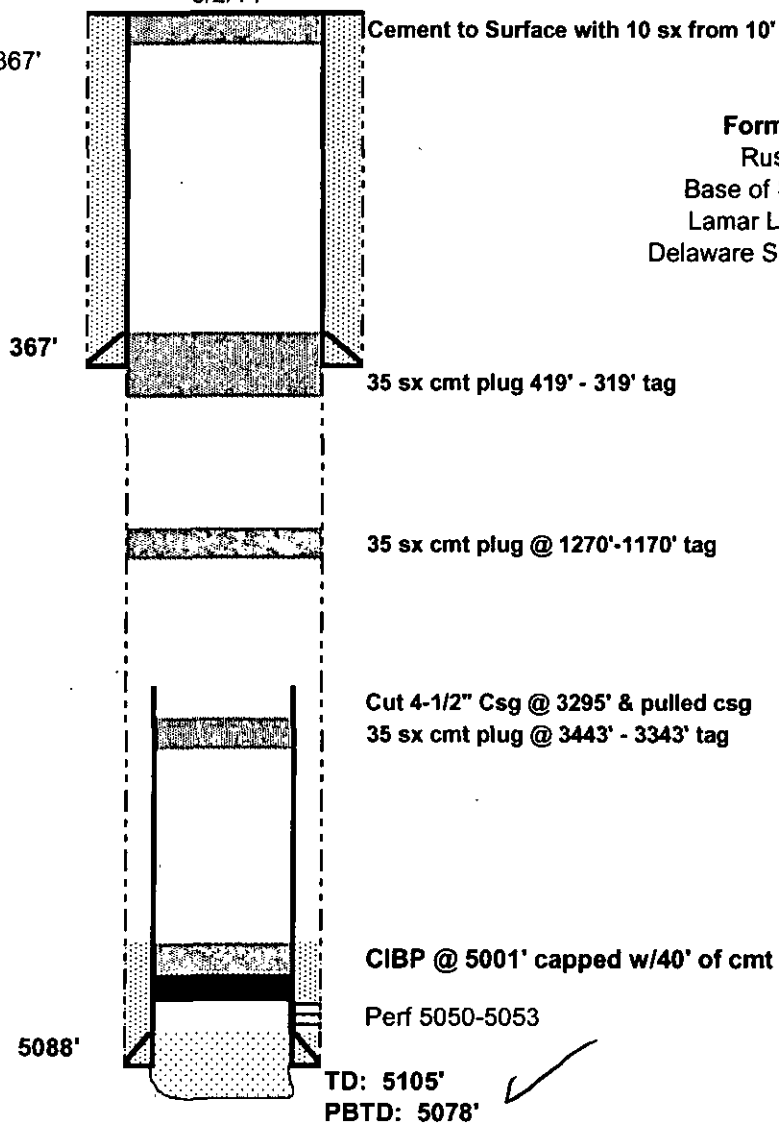
5/2/14

Surface csg:

8-5/8", 24#, J-55 set @ 367'

Cmt w/ 275 sx

TOC unknown



Formation Tops

Rustler: 1205'

Base of Salt: 4743'

Lamar Lime: 4987'

Delaware Sand: 5042'

Production csg:

4-1/2" 9.5#, J-55

Set @ 5088'

Cmt w/100 sx

TOC Unknown

7-7/8" hole

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-B1424.

API 30-025-08133

5. LEASE DESIGNATION AND SERIAL NO.

NM-04465

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal Well

9. WELL NO.

2-38

10. FIELD AND POOL, OR WILDCAT

Triste Draw

11. SEC., T., R., W., OR BLK. AND
SURVEY OR AREA

35. 23S, 32E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

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" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

30-025-08133

2. NAME OF OPERATOR

Gene A. Snow

3. ADDRESS OF OPERATOR

606 So. 13th, Lovington, N.M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1650' FNL & 790' FEL

SPC. 35, TS 23S, Rq 32E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

3680

G.L.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT*

☒

(Other)

☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plugged well in the following manner:

1. Set C.I. bridge plug on wire line @ 5001'
2. Capped plug with 40' of cement by deep baker.
3. Broke hole with salt mud, mixed 1 sack gel to 460k brine.
4. Cut 4" casing at 3395'. Pull back casing.
5. Set plugs through tubing as follows:
35 lbs cement plug @ 3443' to 3393'
35 " " " @ 1270' to 1190'
35 " " " @ 417' to 319'
10 " " " @ 10' to 0'
6. Installed regulation manometer

I will notify when location is ready for inspection

18. I hereby certify that the foregoing is true and correct

SIGNED

Gene A. Snow

TITLE

DATE

11-15-72

(This space for Federal or State office use)

APPROVED BY

TITLE

APPROVED

DATE

CONDITIONS OF APPROVAL, IF ANY:

MAY 21 1973

*See Instructions on Reverse Side J. L. GORDON
COUNTY DISTRICT ENGINEER

Tempo Energy Inc.

James Federal #3 (Dry Hole)

Lea County, New Mexico

Elevation: GL 3633'

Location: 1980' FSL, 1980' FEL

J, Sec 35, T-23-S, R-32-E

Spudded: 6/11/1961

Completed: 6/21/1961

API #: 30-025-08130

P&A: 3/7/1962

Current Status - P&A

5/2/14

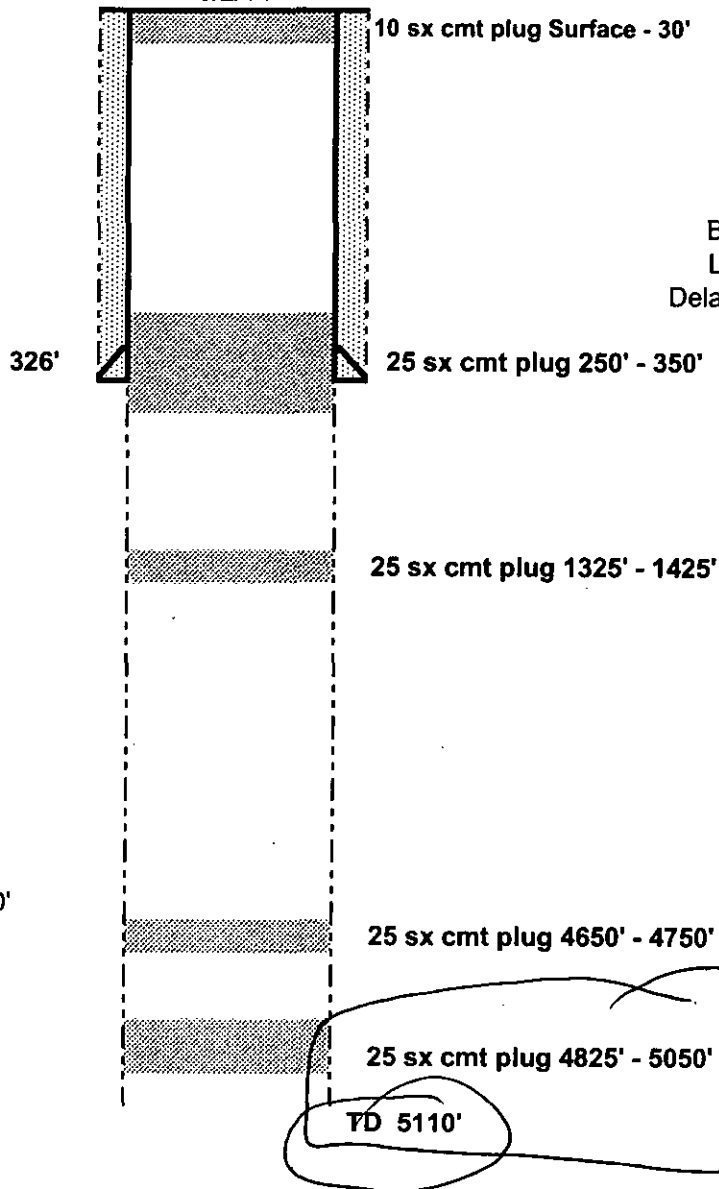
Surface csg:

8-5/8", 24# set @ 326'

Cmt w/ 200 sx

Cement circulated

12-1/4" hole



Formation Tops

Rustler: 1193'

Top of Salt: 4110'

Base of Salt: 4693'

Lamar Lime: 4934'

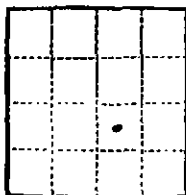
Delaware Sand: 4985'

Production csg:

Never Set

Drilled 7-7/8" hole to 5110'

APPROVED

Form 9-221a
(Feb. 1961)

MAR 9 1962

E. W. STANDLEY
DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

*Suspected 4-7-61
Subsequently converted to water well
C. F. for 1st and 2nd*

Budget Bureau No. 42-2328.4
Approval expires 12-31-61.

Land Office

Lease No. NM 04465

MAR 8 1962

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

James Federal

March 7, 19 62

Well No. 3 is located 1980 ft. from [S] line and 1980 ft. from [E] line of sec. 35

NW/4 SE/4
(1/4 Sec. and Sec. No.)238
(Twp.)32E
(Range)100W
(Meridian)Triste Draw
(Field)Lee
(County or Subdivision)New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 3660 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Cement plug from 4825' to 5050' w/25 sac cement

Cement plug from 4650' to 4750' w/25 sac cement

Cement plug from 1325' to 1425' w/25 sac cement

Cement plug from 250' to 350' w/25 sac cement

Cement plug from 0' to 30' w/10 sac cement

336' of 8 5/8" 24# casing left in hole

T.D. 5110'

Dry hole marker installed

Location cleaned up and ready for inspection

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company J. B. Palmer & A. G. McGarver, DBA P-M Drilling Company

Address 1004 V & J Tower

Midland, Texas

By

E. W. Standley

Title

Asst.

P M Drilling Co
James Federal #2
Lea County, New Mexico

Elevation: GL 3658'

Location: 660' FNL, 1980' FEL

B, Sec 35, T-23-S, R-32-E

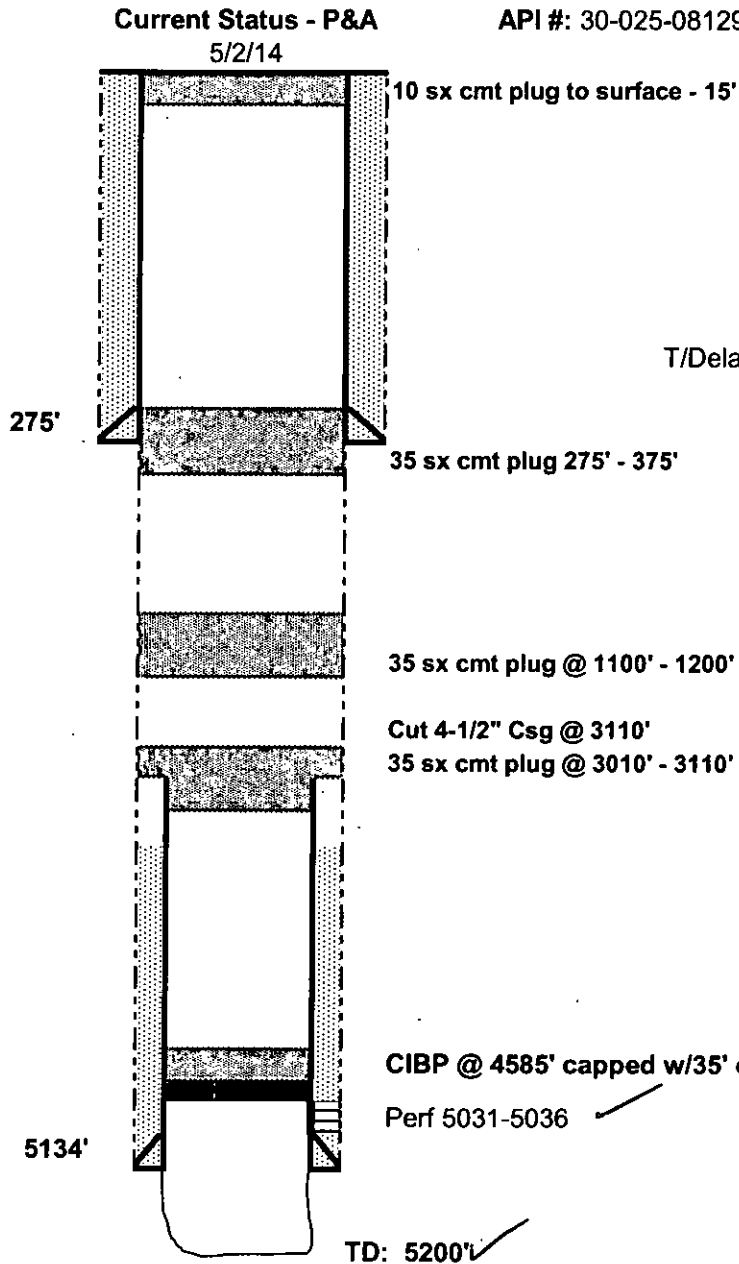
Spudded: 3/2/1961

Completed: 3/16/1961

API #: 30-025-08129

P&A Date: 8/2/1976

Surface csg:
8-5/8", 24# set @ 322'
Cmt w/ 200 sx
Cement circulated
12-1/4" hole



Formation Tops
T/Rustler: 1220'
T/Salt: 4162'
B/Salt: 4759'
T/Lamar: 5005'
T/Delaware Sand: 5060'

Production csg:

4-1/2" 9.5#

Set @ 5134'

Cmt w/200 sx

TOC: 3975' (calc)

7-7/8" hole

CIBP @ 4585' capped w/35' cmt on top of plug ✓

Perf 5031-5036 ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved
Budget Bureau No. 42 R1424
5. LEASE, WELL, SECTION, AND WELL NO.

NMP No. NM 04465

6. IF EXISTING, REMITTEE OR OTHER NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Use not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. WELL NO.	2. NAME OF OPERATOR	3. ADDRESS OF OPERATOR	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	5. UNIT AGREEMENT NAME	6. FARM OR LEASE NAME	7. WELL NO.	8. FIELD AND POOL, OR WILDCAT	9. SEC. T. R. S. OR BLK. AND SURVEY OR AREA	10. COUNTY OR PARISH	11. STATE
OIL WELL ☒ GAS WELL ☐ OTHER ☐	P-M Drilling Company	2900 N. Big Spring, Midland, Texas 79701	Federal James No. 2 Lea County, New Mexico 660'FNL and 1980'FEL Sec. 35	Federal James	2	Triste Draw Delaware	Sec. 35, T 23 S., R 32 E	Lea	New Mexico	
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, AT, GR, etc.)	3685.4 GR								

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ALTERING PLANT

(Note: Report results of multiple completion of Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and set a pertinent to this work.)*

- 7-24-76 Pulled rods and tubing
7-25-76 Muddied hole. Set CIBP @ 4585' and dumped 35' of cement on top of plug.
7-31-76 Cut 4 1/2" casing @ 3110'. Lay down casing.
8-2-76 Ran tubing to 3110'. Spotted 35 sx cement @ 3110' to 3010'; pulled up and spotted 35 sx cement 1200' to 1100'; pulled up and spotted 35 sx cement 375' to 275' and spotted 10 sx cement 15' to 0'. Welded plate over surface and installed dry hole marker.

Note: Will clean up surface as instructed.

18. I hereby certify that the foregoing is true and correct

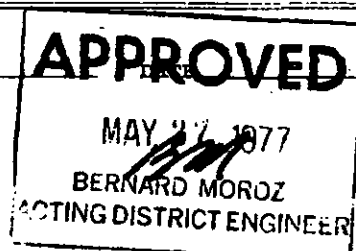
SIGNED H. A. M. C.TITLE Owner-OperatorDATE August 30, 1976

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

*See Instructions on Reverse Side



Tempo Energy Inc.
Payne Federal #2
Lea County, New Mexico

Elevation: GL 3691'

Location: 990' FNL, 2310' FWL

C, Sec 35, T-23-S, R-32-E

Spudded: 5/16/1962

Completed: 5/24/1962

API #: 30-025-08131

P&A: 9/17/1991

Current Status - P&A
5/2/14

Surface csg:
10-3/4", 32# set @ 317'
Cmt w/ 220 sx
Cement circulated
15" hole

Circulate Cement to Surface with 22 sx from 50'

Formation Tops

T/Rustler: 1204'

B/Salt: 4710'

T/Lamar: 4951'

T/Delaware Sand: 5001'

317'

75 sx cmt plug 350' - 248'

Cut 4-1/2" Csg @ 1247' & LD 38 jts
40 sx cmt plug @ 1209' - 1300'

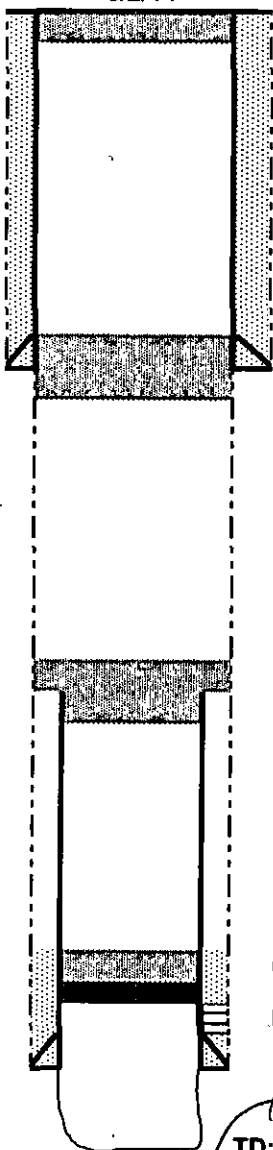
Production csg:
4-1/2" 9.5#
Set @ 5074'
Cmt w/200 sx
TOC @ 4090'
7-7/8" hole

CIBP @ 4875' capped w/3 sx cmt

Perfs 5010-5020

5074'

TD: 5200'



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL

NM 03226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Payne Federal

9. WELL NO.

2

10. FIELD AND POOL OR WILDCAT

Tristi Draw Delaware

11. SEC., T., R., M., OR BLM. AND
SURVEY OR AREA

35-23S-32 East

12. COUNTY OR PARISH 13. STATE

Lea

NM

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" for such proposals.)

1. OIL ☒ GAS ☐
WELL ☒ WELL ☐ OTHER

2. NAME OF OPERATOR

Tempo Energy, Inc.

3. ADDRESS OF OPERATOR

4000 North Big Spring, Suite 109 Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

C 990 F North & 2310 F West

14. PERMIT NO.

15. ELEVATIONS (Show whether of, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

1. SHUT WATER SHUT OFF

2. FRACTURE TREAT

3. STIMULANT OR ACIDIZING

4. REPAIR WELL

(Other)

5. PULL OR ALTER CASING

6. MULTIPLE COMPLETION

7. ABANDON*

8. CHANGE PLANT

SUBSEQUENT REPORT OF:

1. WATER SHUT OFF

2. FRACTURE TREATMENT

3. STIMULANT OR ACIDIZING

(Other)

4. REPAIRING WELL

5. ALTERING CASING

6. ABANDONMENT*

X

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-13-91 Plug # 1 Set 4-1/2" CIBP @ 4875 Ft. Capped with 3 SXS Cement
9-13-91 Plug # 2 Circ. Hole with 10 # brine with 25 # Salt Gel per bbl.
9-16-91 Plug # 3 Cut 4-1/2" Casing @ 1237 Ft. Laydown 38 Jts.
9-16-91 Plug # 4 Spot 40 SXS plug @ 1300 Ft. WOC 4 hrs. Tag plug @ 1209
9-16-91 Plug # 5 Circ. Hole with 10 # brine with 25 # Salt Gel per bbl.
9-16-91 Plug # 6 Spot 75 SXS @ 350 Ft. POOH WOC
9-17-91 Plug # 7 RIH & Tag plug @ 248 Ft.
9-17-91 Plug # 8 Circ. cement to surf. with 22 SXS from 50 Ft.
9-17-91 Plug # 9 Install Dry Hole Marker

Abstract of this report is to be filed
with the Bureau of Land Management
and the State of New Mexico.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE President

DATE Sept. 16, 1991

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE 9/27/91

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Penroc Oil Corp and DB Baxter

Triste - State #1

Lea County, New Mexico

Elevation: GL 3687'

Location: 330' FNL, 330' FWL

D, Sec 36, T-23-S, R-32-E

Spudded: 10/4/1962

Completed: Dry Hole

API #: 30-025-08135

P&A: 10/13/1962

Current Status - P&A

5/2/14

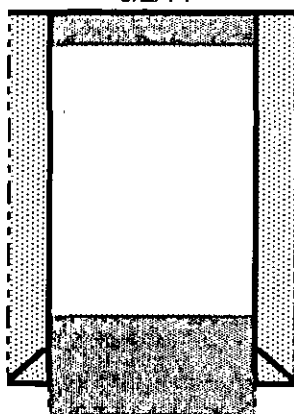
Surface csg:

7", 20# set @ 880'

Cmt w/ 175 sx

Cement circulated

8-3/4" hole



5 sx cmt plug from 26' to surface'

Formation Tops

Red Beds: 0-800

Anhy and Salt: 800

Anhy: 4763

Ls. & Shale: 5012

Ss. & Shale: 5042

25 sx cmt plug 816' - 950'

Production casing not set

30 sx cmt plug @ 5026' - 5192'

TD: 5192'

3681
3687

API 30-025- 08135

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PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

FORM C-103
(Rev 3-55)

(Submit to appropriate District Office as per Commission Rule 9106)

Name of Company Penroc Oil Corporation and L. B. Baxter		Address Box 1004, Midland, Texas	
Lease Triste State	Well No. 1	Unit Letter 36	Section 36 Township 43N Range 32E
Date Work Performed 12-13-66	Pool Triste Draw	County Midland	

THIS IS A REPORT OF: (Check appropriate block)

☒ Beginning Drilling Operations	☐ Casing Test and Cement Job	☐ Other (Explain):
☐ Plugging	☐ Remedial Work	

Detailed account of work done, nature and quantity of materials used, and results obtained.

7" log casing set at 880' cemented to surface.

Hole loaded with mud laden fluid.

Drilled 6-1/4" hole to 5192' T. D.

**Set 5 sack cement plug from surface to 20'.
 25 sack cement plug from 816' to 950'.
 30 sack cement plug from 5026' to 5192'.**

Witnessed by R. E. Corbell	Position Pusher	Company Tom Brown Drilling Company
-----------------------------------	------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P BTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by Leslie H. Clements	Name V. L. Production		
Title	Position		
Date	Company Penroc Oil Corporation		

David Fasken
Gulf- State #1
Lea County, New Mexico

Elevation: GL 3687'

Location: 1980' FNL, 660' FWL

E, Sec 36, T-23-S, R-32-E

Spudded: 3/3/1962

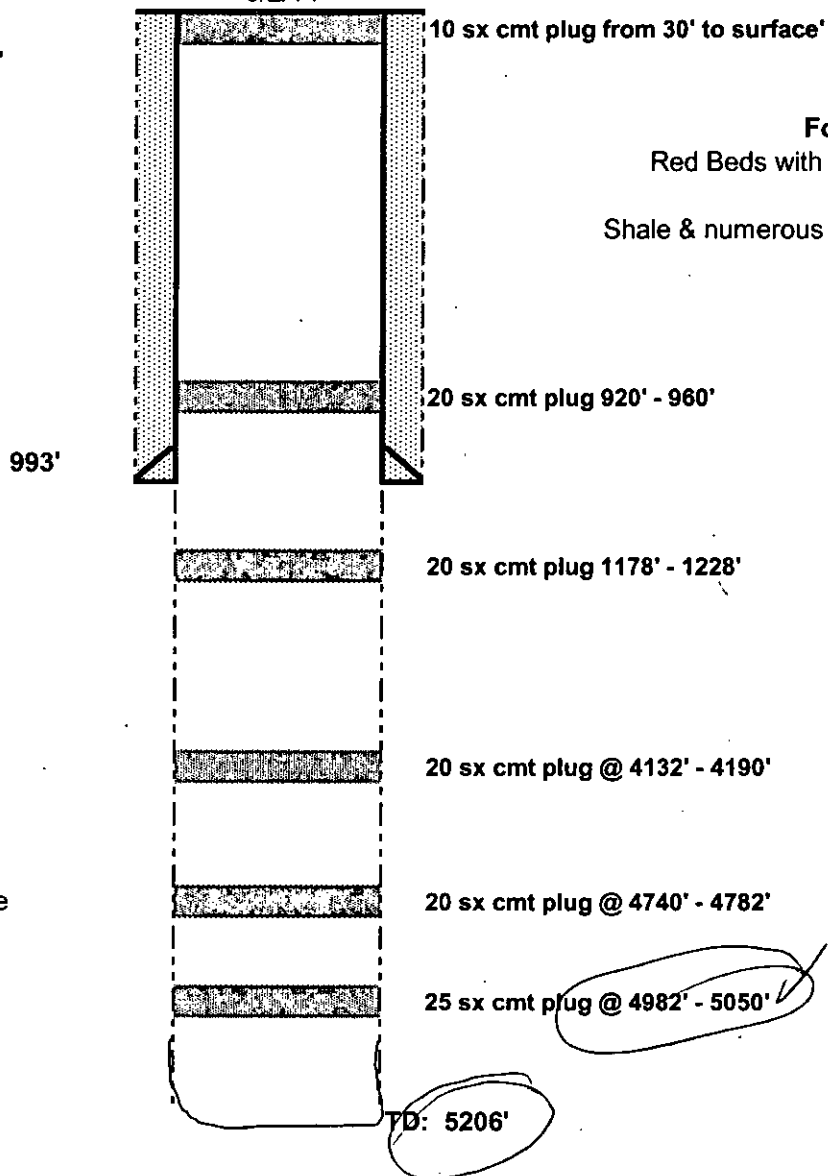
Completed: 3/17/1962

API #: 30-025-08134

P&A: 3/18/1962

Current Status - P&A
5/2/14

Surface csg:
8-5/8", 32# set @ 993'
Cmt w/ 500 sx
Cement circulated
12-1/4" hole



Formation Tops

Red Beds with anhydrite Interbeds: 1210'
Anhy and Delomite: 1350'
Shale & numerous anhydrite interbeds: 3520'
Anhydrite: 4175'
Salt: 4370'
Anhydrite: 4475'
Salt: 4755'
Anhydrite: 5000'
Lamar: 5030'
Delaware: 5206'

Production Csg:
4 1/2 not set. Dry Hole

API 30-025-08134

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REGISTRATION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company David Fasken		Address 608 First National Bank Bldg., Midland, Texas	
Lease Gulf-state	Well No. 1	Unit Letter E	Section 36 Township 23 S Range 32 E
Date Work Performed March 18, 1962	Pool Triste Draw	County Lea	

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations ☐ Casing Test and Cement Job ☐ Other (Explain):
☒ Plugging ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

TD 5,206. Used 10# mud in plugging operations and set the following cement plugs;
 25 Sxs. from 4,982' to 5,050', 20 Sxs. from 4,740' to 4,782', 20 Sxs. from 4,132' to 4,190'
 because of an existing salt section, 20 Sxs. from 1,178' to 1,228', 14 Sxs. from 920' to 960',
 and 10 Sxs. from surface to 30'. Also, ~~was~~ left 993' of 8-5/8" -32# surface casing in the
 hole. Mud pits were filled. Location was levelled, cleared of junk and properly marked.

→ Verbed for 20 SXS.

Witnessed by J. C. Joy	Position Engineer	Company David Fasken
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

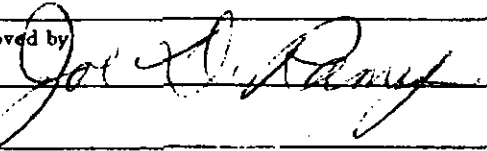
D F Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by 	Name J. C. Joy
Title	Position Engineer
Date	Company David Fasken

Continental Oil Co.
Fields #002
Lea County, New Mexico

Elevation: GL 3687'

Location: 990' FSL, 330' FWL, Sec 25, T-23-S, R-32-E
M, Sec 25, T-23-S, R-32-E

Spudded: 7/21/1962

Completed: 7/30/1962

API #: 30-025-08120

P&A: 2/9/1989

Current Status - P&A
5/2/2014

Surface csg:

7-5/8", 24#, H-40
Set @ 395'
Cmt w/200 sx
Cement circulated

Formation Tops

T/ Salt: 4155'

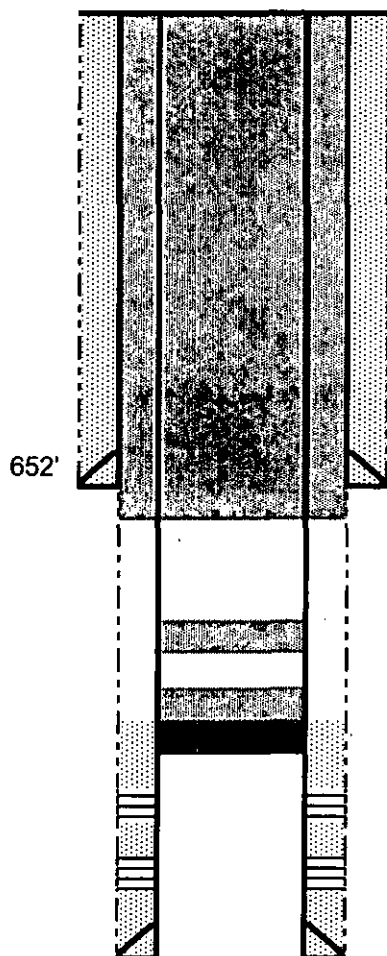
Castile: 4766'

Lamar: 5013'

Ramsey: 5066'

Ford: 5145'

Olds: 5161'



Filled production casing and annulus from 1000' to surface

100' cmt plug @ 4765'

CICR: 5000' with 35' cmt

Perfs: 5074' - 5076' (August, 1962)

Perfs: 5100' - 5145' (August, 1979)

PBTD: 5185'

TD: 5206'

Production Casing:

4 1/2", 9.5#, J-55
Set @ 5206'
Cmt w/200 sx
TOC unknown

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

LC-063228

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Fields Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Triste Draw Delaware

11. SEC., T., R., M., OR BLK. AND
SUBSET OR AREA

Sec. 25, T-23-S, R-32-E NME

12. COUNTY OR PARISH

Lea

13. STATE

NM

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" for such proposals.)

MAR 6 10 33 AM '89

1. WELL NO. SWD Well

2. NAME OF OPERATOR

Estacado, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 5587, Hobbs, New Mexico 88241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

990' FSL & 330' FWL
Unit Letter "M"

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3713 DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to the work.)

1. Moved in, rigged up. Dug pit & installed BOP.
2. Picked up 161 jts of 2 3/8" work string & tagged CICR. Layed down 1 jt. & circulated hole clean & spotted 25' cement plug.
3. Pulled up hole to 4765' & spotted 100' cement plug.
4. POOH w/tubing & pressured up to 800#, casing would not hold.
5. Picked up 4 1/2" packer on 2 3/8" tubing & located hole at 400'. Layed tbgr. down.
6. Rigged up wireline, ran in hole w/4 shots to 1175' & perforated casing.
7. Ran tubing in hole to 1000' & squeezed cement to surface between 7 5/8" & 4 1/2" valve. Opened 4 1/2" valve & brought cement to surface. Pumped 287 sx.
8. Dug cellar, cut wellhead off & installed P&A marker. Completed 2/9/89

18. I hereby certify that the foregoing is true and correct

SIGNED

President

DATE 3/1/89

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE 3-13 89

CONDITIONS OF APPROVAL, IF ANY:

Approved as to plan of the well bore,
Logging, and to be run in until
surface completion is completed.

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

R B

3/3/89

E

Gene A. Snow
Federal 'WL' #4
Lea County, New Mexico

Elevation: GL 3702'

Location: 330' FSL, 1650' FEL

O, Sec 26, T-23-S, R-32-E

Spudded: 4/5/1962

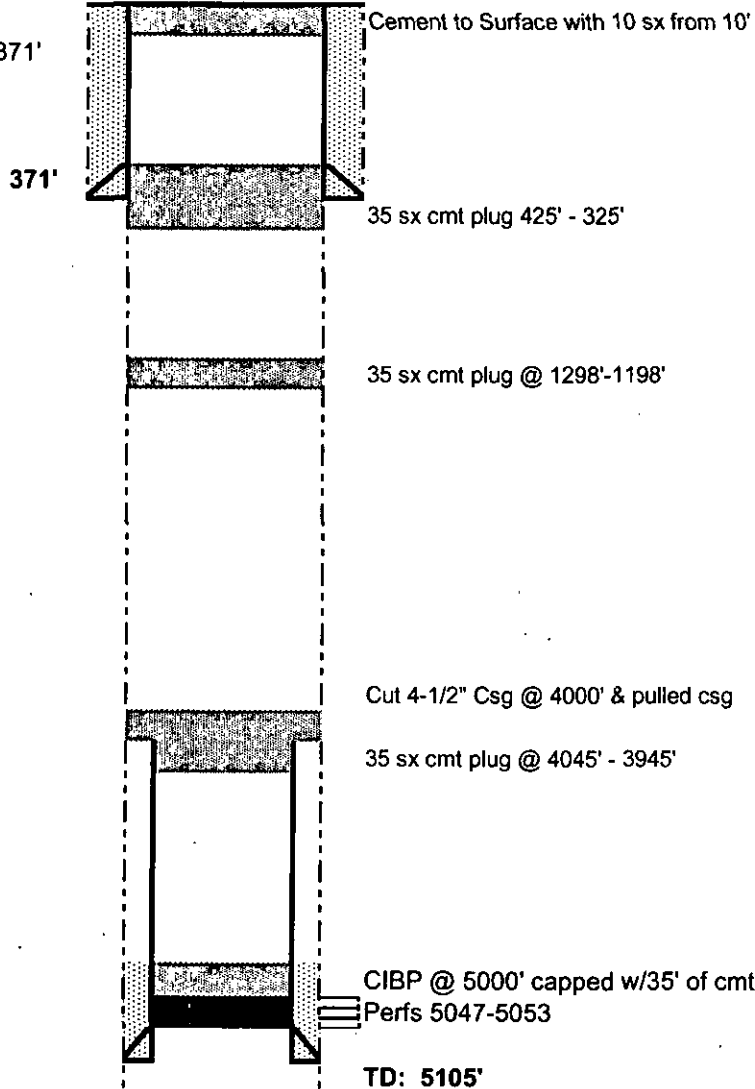
Completed: 4/13/1962

API #: 30-025-08124

P&A: 2/1/1974

Current Status - P&A
as of 5/2/2014

Surface csg:
8-5/8", 24#, J-55 set @ 371'
Cmt w/ 275 sx
TOC unknown



Formation Tops
Anhydrite: 1223'
Salt: 1362'
Base of Salt: 4741'
Lamar: 4985'
Ramsey: 5038'

Production csg:
4-1/2" 9.5#, J-55
Set @ 5095'
Cmt w/100 sx
TOC Unknown
7-7/8" hole

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLI
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-04465

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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—" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Gene A. Snow

3. ADDRESS OF OPERATOR

606 So. 13th Lovington

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1650' FEL # 330 F.S.L.

Sec. 26; T5 23S; Rq 32 E

14. PERMIT NO.

15. ELEVATIONS (Show whether ft., ST, GR, etc.)

3701.7 Gr

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal WL

9. WELL NO.

4 - 33

10. FIELD AND POOL, OR WILDCAT

Triste Draw

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

26.T523S.Rq32E

12. COUNTY OR PARISH

Lee

13. STATE

N.M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plugged well in following manner:

1. Set C.I. bridge plug @ 5000' by wire line and capped w/ 35' of cement.

2. Loaded casing with good mud. Salt mud mixed 1 sack gel to 4 bbls. of brine water.

3. Cut 4" casing @ 4000'. Pulled casing.

4. Set 35 sks. cement plug 4045' to 3945'.

" " " " 1248' to 1148'.

" " " " 425' to 325'.

" 10 " " 10' to 0'.

5. Installed regulation marker.

6. Location is clear and ready for inspection.

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

DATE

2-1-74

FEB 9 1974

ARTHUR R. BROWN

DISTRICT ENGINEER

*See Instructions on Reverse Side

Gene A. Snow
Federal 'WL' #3
Lea County, New Mexico

Elevation: GL 3707'

Location: 330' FSL, 660' FEL

P, Sec 26, T-23-S, R-32-E

Spudded: 3/26/1962

Completed: 4/4/1962

API #: 30-025-08123

P&A: 11/15/1972

Current Status - P&A

5/2/14

Surface csg:

8-5/8", 24#, J-55 set @ 360'
Cmt w/ 260 sx
TOC unknown

360'

Cement to Surface with 10 sx from 10'

35 sx cmt plug 410' - 310' tag

35 sx cmt plug @ 1260'-1160'

Cut 4-1/2" Csg @ 2877' & pulled csg

35 sx cmt plug @ 2898' - 2798'

Formation Tops

Rustler: 1224'

Salt: 1362'

Base of Salt: 4760'

Lamar: 5008'

Ramsey: 5062'

Ford Shale: 5139'

Production csg:

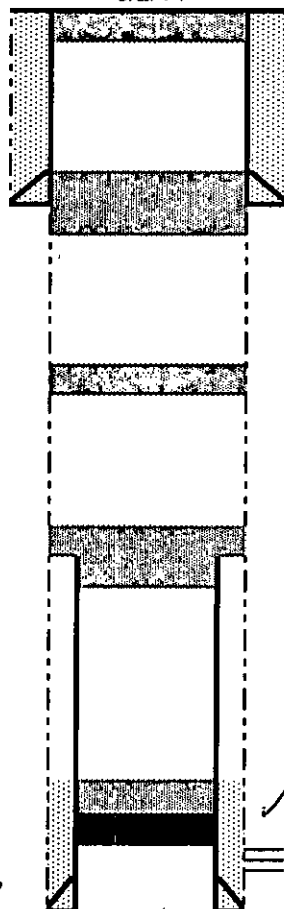
4-1/2" 9.5#, J-55
Set @ 5140'
Cmt w/100 sx
TOC Unknown
7-7/8" hole

5140'

CIBP @ 5001' capped w/40' of cmt
perf 5071-5073

PBTD: 5115'

TD: 5144'



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-04465

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Gene A. Snow	8. FARM OR LEASE NAME Federal "WL"
3. ADDRESS OF OPERATOR 606 So 13th Nowington, N.M.	9. WELL NO. 3- 2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 330 FSL & 660 FEL Sec. 26, T. 5. 23 E.; R. 32 E	10. FIELD AND POOL, OR WILDCAT Trieste Draw
14. PERMIT NO.	15. ELEVATIONS (Show whether FT, MT, OR, etc.) 3707.1 G.R.
	11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sec. 26, T. 5. 23 E., R. 32 E.
	12. COUNTY OR PARISH Lea
	13. STATE N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plugged well in the following manner:

1. Set C.I. bridge plug @ 5000'.
2. Capped bridge plug with 45' of cement by damp bails.
3. Isolated hole with good mud. Salt gel mixed 1 each to 4 bbls. brine water.
4. Cut 4 1/2" casing @ 2877'. Pulled casing.
5. Set plugs by tubing as follows:
35 lbs @ 2893' to 2798'
" " " 1260' to 1160'
" " " 410' to 310'
10 " " 10' to 0'.
6. Installed regular iron marker.

I will notify when location is ready for inspection

18. I hereby certify that the foregoing is true and correct

SIGNED

Gene A. Snow

TITLE

DATE

11-15-72

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

DATE

MAY 11 1973

*See Instructions on Reverse Side

J. L. GORDON
FEDERAL DISTRICT ENGINEER

Analysis of Injection Water

Red Ruby 35 Federal SWD 1
Lea County, New Mexico

Water will be from Cox 35 Federal 2H (drilled), Cox 35 Federal 1H, 3H, & 4H (proposed).
Analysis of Cox 35 Federal 2H water attached.

Disposal zone water analysis is included from a Texaco well, Cherry Canyon,
in Lea County, NM, Sec 30, T21S, R32E.



MIXED WATERS SCALING INDICIES - WATER #1

Company:	Texaco	Date Sampled:	2000
Lease:	Cherry Canyon	Date Analyzed:	2000
Well #:	-	Lab ID #:	1/0/1900
Location:	Lea Co. NM	Account Manager:	C. Struck
Attention:	Accnt Mgr	Requested By:	Lab
		File Name:	TexacoCherry Canyon-2000

pH: 5.75
Sp. Gr.: 1.131
Calcium: 10400 mg/L
Magnesium: 1944 mg/L
Sodium: 57856 mg/L
Barium: 0 mg/L
Iron: 7.38 mg/L
Carbonate: 0 mg/L
Bicarbonate: 37 mg/L
Sulfate: 1750 mg/L
Chloride: 112000 mg/L
TDS: 183977 mg/L

MIXED WATERS SCALING INDICIES - WATER #2

Company:	Energen	Date Sampled:	5/12/14
Lease:	Cox Federal	Date Analyzed:	5/13/14
Well #:	32-2H	Lab ID #:	1/0/1900
Location:	Heater	Account Manager:	C. Struck
Attention:	Accnt Mgr	Requested By:	Lab
		File Name:	EnergenCox Federal32-2H5/12/14

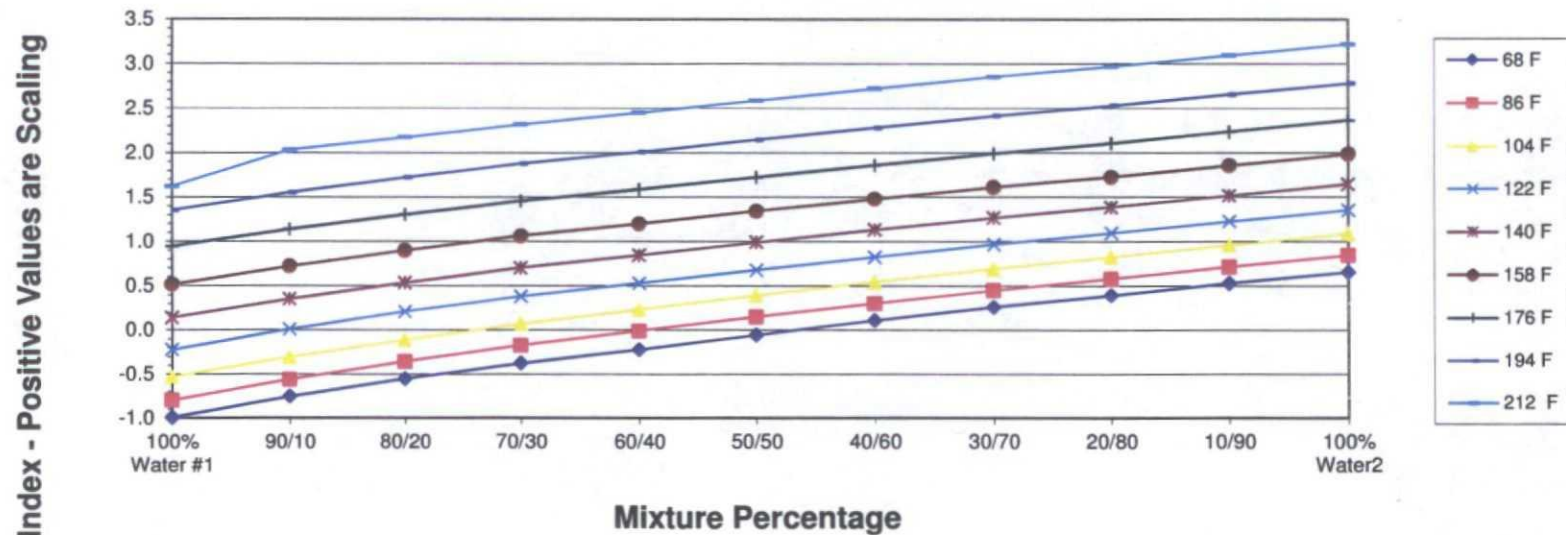
pH: 7.2
Sp. Gr.: 1.105
Calcium: 6320 mg/L
Magnesium: 1580 mg/L
Sodium: 51227 mg/L
Barium: 0 mg/L
Iron: 14 mg/L
Carbonate: 0 mg/L
Bicarbonate: 171 mg/L
Sulfate: 964 mg/L
Chloride: 94000 mg/L
TDS: 154441 mg/L

File Name: TexacoCherry Canyon-Lea Co. NM2000EnergenCox Federal32-2HHeater5/13/14

Calcium Carbonate Scaling Index at Various Temperatures and Various Water #1/Water #2 Compositions

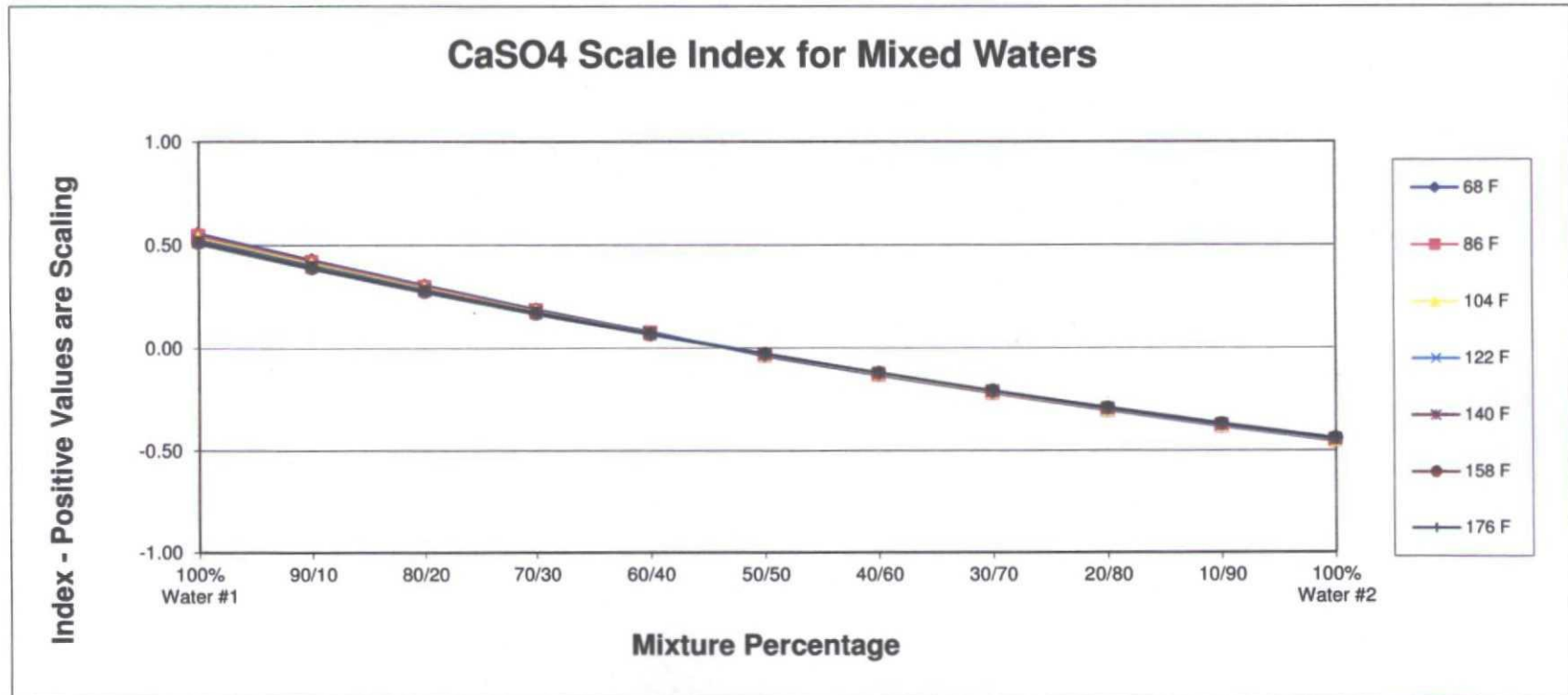
	100% Water #1	90/10	80/20	70/30	60/40	50/50	40/60	30/70	20/80	10/90	100% Water2
68 F	-0.99	-0.75	-0.55	-0.37	-0.22	-0.05	0.11	0.26	0.39	0.53	0.65
86 F	-0.80	-0.56	-0.35	-0.17	-0.01	0.15	0.30	0.45	0.58	0.72	0.84
104 F	-0.53	-0.30	-0.11	0.07	0.23	0.39	0.54	0.69	0.82	0.96	1.08
122 F	-0.22	0.01	0.21	0.38	0.53	0.68	0.82	0.97	1.09	1.22	1.35
140 F	0.14	0.35	0.53	0.70	0.84	0.99	1.13	1.27	1.38	1.52	1.64
158 F	0.51	0.72	0.90	1.06	1.20	1.34	1.48	1.61	1.73	1.86	1.98
176 F	0.94	1.14	1.30	1.45	1.58	1.72	1.86	1.99	2.11	2.24	2.36
194 F	1.35	1.55	1.72	1.87	2.00	2.14	2.28	2.41	2.53	2.65	2.77
212 F	1.61	2.03	2.17	2.31	2.44	2.58	2.72	2.85	2.97	3.09	3.21

CaCO3 Scale Index for Mixed Waters



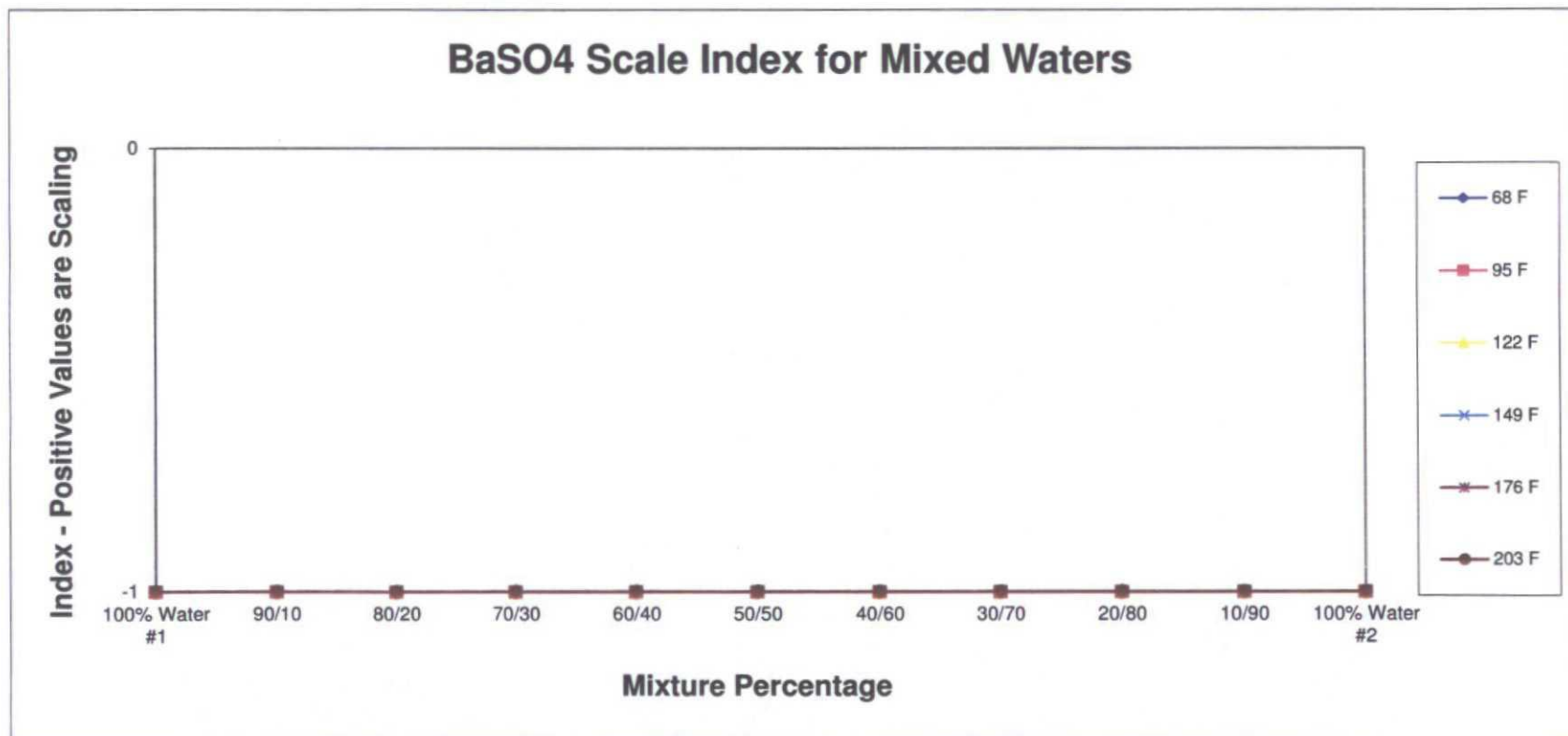
Calcium Sulfate Scaling Index at Various Temperatures and Various Water #1/Water #2 Compositions

	100% Water #1	90/10	80/20	70/30	60/40	50/50	40/60	30/70	20/80	10/90	100% Water #2
68 F	0.55	0.43	0.30	0.19	0.08	-0.04	-0.13	-0.22	-0.31	-0.38	-0.45
86 F	0.54	0.42	0.30	0.18	0.07	-0.04	-0.13	-0.22	-0.30	-0.38	-0.45
104 F	0.53	0.41	0.29	0.18	0.07	-0.03	-0.13	-0.22	-0.30	-0.38	-0.45
122 F	0.52	0.40	0.28	0.18	0.07	-0.03	-0.12	-0.21	-0.30	-0.37	-0.45
140 F	0.52	0.39	0.28	0.17	0.07	-0.03	-0.12	-0.21	-0.30	-0.37	-0.44
158 F	0.51	0.39	0.27	0.17	0.07	-0.03	-0.12	-0.21	-0.29	-0.37	-0.44
176 F	0.50	0.38	0.27	0.16	0.06	-0.03	-0.12	-0.21	-0.29	-0.37	-0.44



Barium Sulfate Scale Index at Various Temperatures and Various Water #1/Water #2 Compositions

	100% Water #1	90/10	80/20	70/30	60/40	50/50	40/60	30/70	20/80	10/90	100% Water #2
68 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
95 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
122 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
149 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
176 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
203 F	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1





Permian Basin Area Laboratory
2101 S Market St. / Building B
Midland, TX. 79711

Report Date: 5/16/2014

Complete Water Analysis Report SSP v.8

Customer:	CHEVRON	Sample Point Name:	C Fed 912
District:	New Mexico	Sample ID:	201401001963
Sales Rep:	Jeremy Spears	Sample Date:	2/3/2014
Lease:	LOTOS	Log Out Date:	2/23/2014
Site Type:		Analyst:	SS
Sample Point Description:			

CHEVRON, LOTOS

, C Fed 912

Field Data		Analysis of Sample			
		Anions:		Cations:	
		mg/L	meq/L	mg/L	meq/L
Initial Temperature (°F):	250	Chloride (Cl ⁻):	160483.0	Sodium (Na ⁺):	68542.0
Final Temperature (°F):	55	Sulfate (SO ₄ ²⁻):	306.0	Potassium (K ⁺):	1364.0
Initial Pressure (psi):	80	Borate (H ₂ BO ₃):	ND	Magnesium (Mg ²⁺):	4541.0
Final Pressure (psi):	15	Fluoride (F ⁻):	ND	Calcium (Ca ²⁺):	25028.0
		Bromide (Br ⁻):	ND	Strontium (Sr ²⁺):	1434.0
pH:	6.2	Nitrite (NO ₂ ⁻):	ND	Barium (Ba ²⁺):	4.5
pH at time of sampling:	6.2	Nitrate (NO ₃ ⁻):	ND	Iron (Fe ²⁺):	41.0
		Phosphate (PO ₄ ³⁻):	ND	Manganese (Mn ²⁺):	8.0
		Silica (SiO ₂):	ND	Lead (Pb ²⁺):	ND
				Zinc (Zn ²⁺):	ND
Alkalinity by Titration:	mg/L meq/L	Organic Acids:			
Bicarbonate (HCO ₃ ⁻):	38.0 0.6	Formate:	ND	Aluminum (Al ³⁺):	ND
Carbonate (CO ₃ ²⁻):	ND	Acetate:	ND	Chromium (Cr ³⁺):	ND
Hydroxide (OH ⁻):	ND	Propionate:	ND	Cobalt (Co ²⁺):	ND
aqueous CO ₂ (ppm):	260.0	Butyrate:	ND	Copper (Cu ²⁺):	ND
aqueous H ₂ S (ppm):	ND	Valerate:	ND	Molybdenum (Mo ³⁺):	ND
aqueous O ₂ (ppb):	ND			Nickel (Ni ²⁺):	ND
Calculated TDS (mg/L):	261790			Tin (Sn ²⁺):	ND
Density/Specific Gravity (g/cm ³):	1.1722			Titanium (Ti ²⁺):	ND
Measured Density/Specific Gravity	1.1780			Vanadium (V ²⁺):	ND
Conductivity (mmhos):	ND			Zirconium (Zr ²⁺):	ND
MCF/D:	No Data			Total Hardness:	82917
BOPD:	No Data				
BWPD:	No Data	Anion/Cation Ratio:	0.97		N/A

ND = Not Determined

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
55°F	15 psi	0.74	2.183	0.82	6.461	-0.23	0.000	-0.38	0.000
77°F	22 psi	0.61	2.013	0.96	7.126	-0.17	0.000	-0.24	0.000
98°F	29 psi	0.48	1.780	1.07	7.562	-0.15	0.000	-0.13	0.000
120°F	37 psi	0.35	1.475	1.15	7.893	-0.14	0.000	-0.03	0.000
142°F	44 psi	0.23	1.090	1.23	8.157	-0.14	0.000	0.07	22.267
163°F	51 psi	0.12	0.623	1.29	8.372	-0.15	0.000	0.17	49.690
185°F	58 psi	0.01	0.069	1.34	8.548	-0.15	0.000	0.28	71.819
207°F	66 psi	-0.09	0.000	1.38	8.691	-0.16	0.000	0.39	89.323
228°F	73 psi	-0.18	0.000	1.42	8.807	-0.16	0.000	0.49	102.879
250°F	80 psi	-0.26	0.000	1.45	8.897	-0.18	0.000	0.60	113.171

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
55°F	15 psi	0.40	112.595	-0.38	0.000	-8.66	0.000	-0.45	0.000
77°F	22 psi	0.43	119.082	-0.39	0.000	-8.69	0.000	-0.25	0.000
98°F	29 psi	0.45	122.255	-0.41	0.000	-8.70	0.000	-0.08	0.000
120°F	37 psi	0.46	124.032	-0.43	0.000	-8.71	0.000	0.07	0.781
142°F	44 psi	0.47	125.415	-0.45	0.000	-8.71	0.000	0.19	1.992
163°F	51 psi	0.48	126.967	-0.46	0.000	-8.72	0.000	0.27	2.850
185°F	58 psi	0.49	128.944	-0.48	0.000	-8.72	0.000	0.33	3.425
207°F	66 psi	0.50	131.379	-0.50	0.000	-8.73	0.000	0.37	3.764
228°F	73 psi	0.52	134.133	-0.52	0.000	-8.74	0.000	0.38	3.894
250°F	80 psi	0.54	136.957	-0.53	0.000	-8.75	0.000	0.37	3.822

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

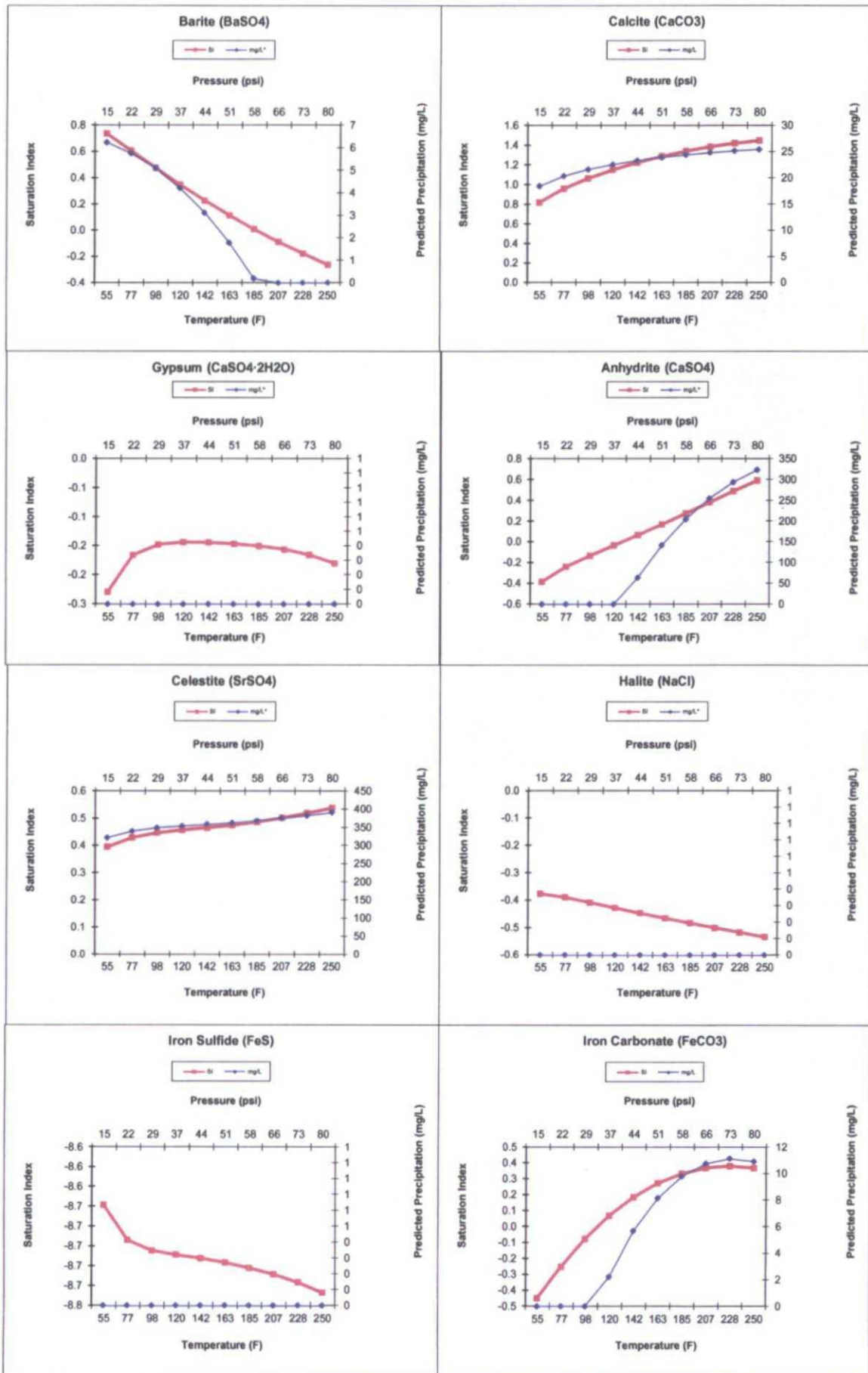
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



ScaleSoft®
ScaleSoft® Fitter™
SSP2010

Comments:



Ken Pittaway

From: Ken Pittaway
Sent: Monday, May 19, 2014 2:18 PM
To: Brenda Rathjen
Subject: FW: Cherry Canyon

Fyi

Ken Pittaway
Sr. District Engineer
Energen Resources Corp.
432-686-3596

From: Clifton Struck [<mailto:cstruck@keltechinc.com>]
Sent: Monday, May 19, 2014 6:58 AM
To: Eric Fortner; Ken Pittaway; Paul Callaway; Randy Billingsley; Stan Logie; Steve Blevins
Subject: FW: Cherry Canyon

From: John Mosley [<mailto:jmosley@keltechinc.com>]
Sent: Friday, May 16, 2014 11:32 AM
To: 'Clifton Struck'
Subject: Cherry Canyon

The Cherry Canyon well used in the compatibility was located in Lea County, New Mexico in Section 30, Township 21S, Range 32E. The location is approximately 32 miles west of Eunice, NM.

Red Ruby 35 Federal #1

TROLEUM INC
FEDERAL #1

Inc.

Red Ruby 35 Federal #1

ste Draw

STATE: New Mexico

2194.1
Schlumberger

PLATFORM EXPRESS
Array Induction Imaging
Gamma Ray / MCFL

FNL & 829' FEL

on 35, Town 23S, Range 32E

Elev.: K.B.
G.L.
D.F.

anent Datum: Ground Level

Elev.: 3681 F.

Log Measured From: Kelly Bushing

13.0 F above P

Drilling Measured From: Kelly Bushing

Field:
Location:
Well:
Company:

API Serial No.
30-025-34003

SECTION
35

TOWNSHIP
23 S

Logging Date		15-AUG-1997	
Run Number		One	
Depth Driller		9100 F	
Schlumberger Depth		9080 F	
Bottom Log Interval		9072 F	
Top Log Interval		4754 F	
Casing Driller Size @ Depth		8,625 IN @ 4762 F	
Casing Schlumberger		4754 F	
Bit Size		7.875 IN	
Type Fluid In Hole		Fresh	
Density	Viscosity	8.6 LB/G	29 S
Fluid Loss	PH		12
Source Of Sample		Circulation Pit	
RM @ Measured Temperature		0.455 OHMM @ 101 DEGF	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF	RMC		
RM @ MRT	RMF @ MRT	0.375 @ 124	@ 124
Maximum Recorded Temperatures		124 DEGF	
Circulation Stopped	Time	15-AUG-1997	3:00
Logger On Bottom	Time	15-AUG-1997	18:40
Unit Number	Location	3125	Hobbs, NM
Recorded By	Kevin Pettyjohn		
Witnessed By	Nolan Von Roeder		

attachment **X**

Red Ruby 35 Federal #1

PTROLEUM INC
FEDERAL #1

, Inc.

Red Ruby 35 Federal #1

Site Draw

STATE: New Mexico

1101FN 829FE
PATTERSON PETROLEUM LP
RED RUBY 35 FEDERAL #1
30-025-34003

32194.2
Schlumberger

PLATFORM EXPRESS
Compensated Neutron Log
Three-Detector Density /

01' FNL & 829' FEL
Section 35, Town 23S, Range 32E
Elev.: K.B. 3694 F
G.L. 3681 F
D.F. 3693 F

Permanent Datum: Ground Level
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Elev.: 3681 F
13.0 F above Perm. D.

Field Location Well Company

API Serial No. 30-025-34003		SECTION 35	TOWNSHIP 23 S	RANGE 32
Logging Date		15 AUG 1997		
Run Number		One		
Depth Driller		8100 F		
Schlumberger Depth		9080 F		
Bottom Log Interval		9082 F		
Top Log Interval		200 F		
Casing Driller Size @ Depth		8.625 IN @ 4782 F		
Casing Schlumberger		4754 F		
Bit Size		7.875 IN		
Type Fluid in Hole		Fresh		
Density	Viscosity	8.6 LB/G 29 S		
Fluid Loss	PH	12		
Source of Sample		Circulation Prt		
RM @ Measured Temperature		0.455 OHMM @ 101 DEGF		
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF RMC		@		
RM @ MRT	RMF @ MRT	0.375 @ 124 @ 124		
Maximum Recorded Temperature		124 DEGF		
Circulation Stopped	Time	15-AUG-1997 3:00		
Logger On Bottom	Time	15-AUG-1997 18:44		
Unit Number	Location	3125 Hobbs, NM		
Recorded By	Kevin Petyjohn			
Witnessed By	Nolan Von Roeder			

Brenda Rathjen

To: Brenda Rathjen (Brenda.Rathjen@energen.com)
Subject: FW: COMPLETE WATER ANALYSIS
Attachments: TEXACO CHERRY CANYON & ENERGEN COX FEDERAL 32-2H COMMINGLE PRINT ANALYSIS 051414.pdf; TEXACO CHERRY CANYON & ENERGEN COX FEDERAL 32-2H COMMINGLE PRINT GRAPH 051414.pdf

-----Original Message-----

From: Clifton Struck [<mailto:cstruck@keltechinc.com>]
Sent: Wednesday, May 14, 2014 3:24 PM
To: Randy Billingsley; Steve Blevins; Stan Logie
Subject: FW: COMPLETE WATER ANALYSIS

The waters should be compatible as far as we can tell. We got a water sample from one well that was Cherry Canyon in that area. At high temperature there is calcium carbonate scale. I would recommend injecting scale inhibitor.

Thanks,
Clifton Struck
Account Manager
Kel-Tech, Inc.
432-425-3427

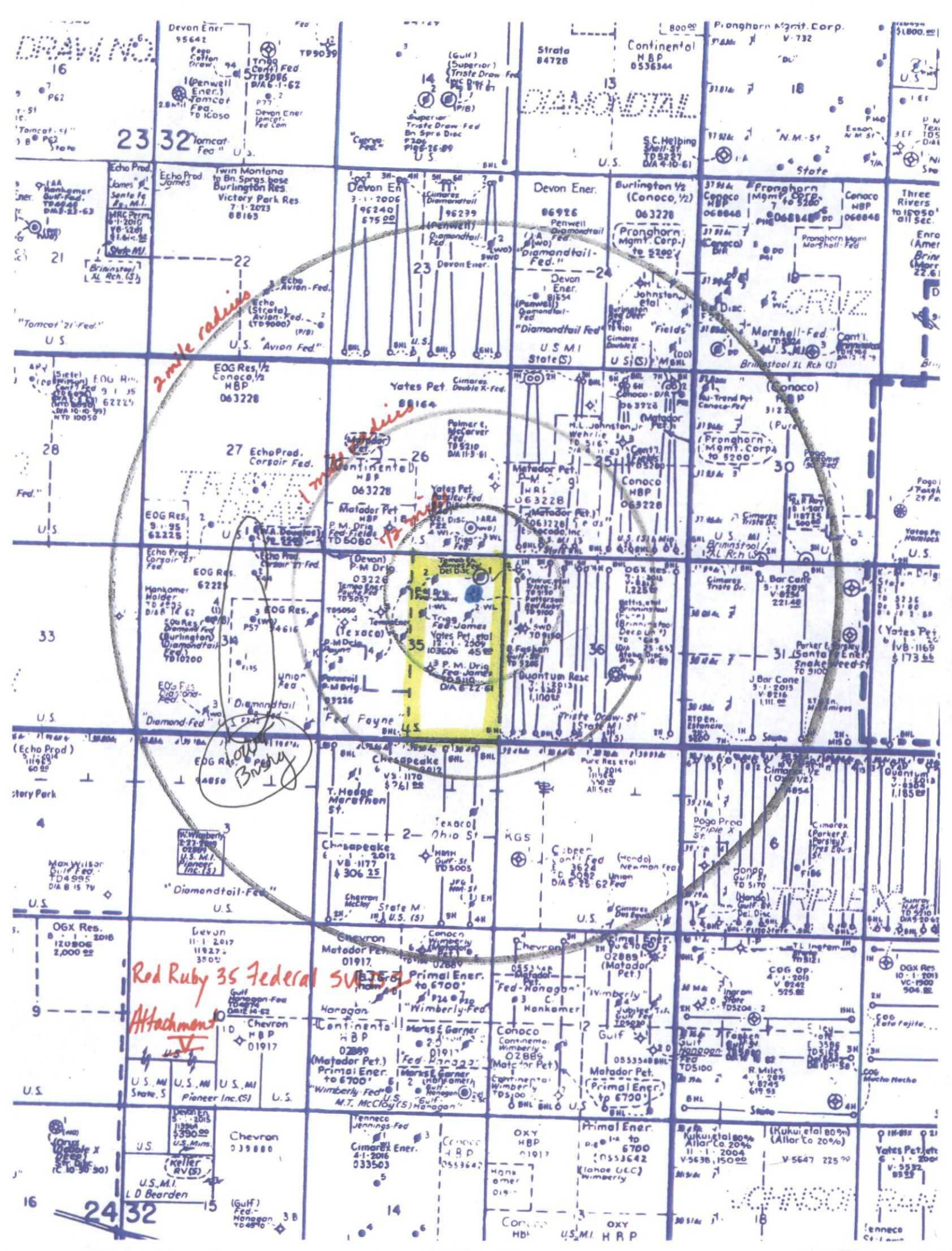
-----Original Message-----

From: Courtney Palmore [<mailto:cpalmore@keltechinc.com>]
Sent: Wednesday, May 14, 2014 11:48 AM
To: Clifton Struck; Clifton Struck (Yahoo acct)
Subject: COMPLETE WATER ANALYSIS

Your message is ready to be sent with the following file or link attachments:

TEXACO CHERRY CANYON & ENERGEN COX FEDERAL 32-2H COMMINGLE PRINT ANALYSIS
051414
TEXACO CHERRY CANYON & ENERGEN COX FEDERAL 32-2H COMMINGLE PRINT GRAPH
051414

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



May 28, 2014

RE: Energen Resources Corporation
Application for Authorization to Inject
Red Ruby 35 Federal SWD 1 / API 30-025-34003
Lea County, New Mexico

Dear Surface Owner and Leaseholders,

Energen Resources Corporation is applying to the New Mexico Oil Conservation Commission (NMOC) in the above-referenced matter to re-enter and convert the Red Ruby Federal 35 Well No. 1 to injection. This letter is being provided with a copy of the application to you as the Surface Owner and Leaseholders within the area of review, per the requirements set forth by the NMOC.

Should there be any objection to the application; the objection must be filed in writing to:

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

within 15 days of the date of this letter.

If you have any questions, please contact as noted below.

Respectfully,



Brenda F. Rathjen
Regulatory Analyst
Energen Resources Corporation
432-688-3323 direct
432-687-1155 main
brathjen@energen.com

Sent to: Attached list of Owners (2 pages)

Red Ruby 35 Federal #1 / API 30-025-34003
Surface Owner and Leaseholders w/in area of review:

Conoco, Inc.
P.O. Box 2197
Houston, TX 77001

Certified Mail #7013 1090 0000 5649 2661

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Certified Mail #7013 1090 0000 5649 2654

Oxy Y-1 Company
P.O. Box 27570
Houston, TX 77227

Certified Mail #7013 1090 0000 5649 2647

Abo Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Certified Mail #7013 1090 0000 5649 2630

Myco Industries, Inc.
105 South Fourth Street
Artesia, NM 88210

Certified Mail #7013 1090 0000 5649 2623

Endurance Properties, Inc.
15455 Dallas Parkway, Suite 600
Addison, TX 75001

Certified Mail #7013 1090 0000 5649 2616

Tritex Energy, LLC
P.O. Box 430
Reno, OH 45773

Certified Mail #7013 1090 0000 5649 2609

Bureau of Land Management
620 E Greene St.
Carlsbad, NM 88220-6292

Certified Mail #7013 1090 0000 5649 2593

COG Production, LLC
600 W. Illinois Ave.
Midland, TX 79701

Certified Mail #7013 1090 0000 5649 2586

Red Ruby 35 Federal #1 / API 30-025-34003
Surface Owner and Leaseholders w/in area of review:

Chevron Midcontinent, LP
11111 S. Wilcrest
Houston, TX 77009

Certified Mail #7013 1090 0000 5649 2579

Oxy USA Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046

Certified Mail #7013 1090 0000 5649 2562

The Allar Company
P.O. Box 1567
Graham, TX 76450

Certified Mail #7013 1090 0000 5649 2555

Twin Montana, Inc
P.O. Box 1210
Graham, TX 76450

Certified Mail #7013 1090 0000 5649 2548

Talus, Inc.
P.O. Box 1210
Graham, TX 76450

Certified Mail #7013 1090 0000 5649 2531

Chevron U.S.A. Inc.
P.O. Box 1635
Houston, TX 77251-1635

Certified Mail #7013 1090 0000 5649 2524

Affidavit of Publication

State of New Mexico,
County of Lea.

I, DANIEL RUSSELL
PUBLISHER
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
May 24, 2014
and ending with the issue dated
May 24, 2014



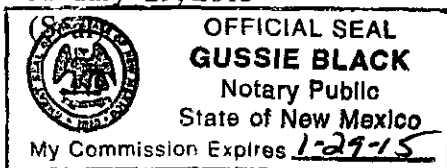
PUBLISHER

Sworn and subscribed to before me
this 27th day of
May, 2014



Notary Public

My commission expires
January 29, 2015



This newspaper is duly qualified to
publish legal notices or
advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.

LEGAL	LEGAL
LEGAL NOTICE May 24, 2014.	
NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT:	
Energen Resources Corporation, 3300 N. A Street, Bldg. 4, Ste. 100, Midland, Texas 79705, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to inject fluid into a formation productive of oil or gas.	
The applicant proposes to inject fluid into the Red Ruby 35 Federal SWD 1 for the purpose of disposing of water from area wells producing from the Bone Spring formation. The proposed disposal well is located 1100' ENL & 830' FEL, Section 35, Township 23 South, Range 32 East, Lea County, New Mexico. Disposal water will be injected into the Bell Canyon and Cherry Canyon formations at a depth of 5050'-6650', a maximum surface pressure of 1010 psi, and a maximum rate of 10,000 BWPD.	
Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of this publication, to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. Additional information can be obtained by contacting Brenda F. Rathjen, Energen Regulatory Analyst, at 3300 N. A Street, Bldg. 4, Ste. 100, Midland, Texas 79705, or 432-688-3323.	
#29079	

02107745

00137039

ENERGEN RESOURCES
3300 NORTH A STREET
BUILDING 4, SUITE 100
MIDLAND, TX 79705



RECEIVED
COPY
MAY 30 2014

May 30, 2014

Oil Conservation Division
State of New Mexico
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Re: **Application for Authorization to Inject C-108**
Red Ruby 35 Federal SWD 1
API 30-025-34003
Lea County, New Mexico

Dear Oil Conservation Division,

Enclosed are the original and one copy of the C-108 Application for Authorization to Inject for the Red Ruby 35 Federal SWD 1 in Lea County, New Mexico. An Application for Permit to Drill/Re-enter (APD) has been submitted to the BLM to re-enter this plugged well and convert to a SWD. In conjunction with this submittal to you a copy has been sent to the OCD District office in Hobbs.

If you have any questions or require any additional information, please contact me at 432-688-3323 or via email at Brenda.rathjen@energen.com.

Respectfully,

Brenda F. Rathjen
Regulatory Analyst
Energen Resources Corporation

Enclosures

cc: Oil Conservation Division
Hobbs, New Mexico



C-108 Review Checklist:

Received 06/06/14 Add. Request: 09/21/14 Reply Date: 09/23/14 Suspended: NA [Ver 13]PERMIT TYPE: WFX / PMX / SWD Number: 1501 Permit Date: 09/30/14 Legacy Permits/Orders: NAWell No. 1 Well Name(s): Red Ruby 35 Federal SWDAPI: 30-0 25-34003 Spud Date: 07/27/97 New or Old: New (UIC Class II Primacy 03/07/1982)Footages 1100 FNL/830 FFL Lot — or Unit A Sec 35 Tsp 23S Rge 32E County LeaGeneral Location: Six miles east of County Line / 6.5 mi SE of WPP SWD: Delaware (96100) Pool: Triste Draw, Delaware Pool No.:BLM 100K Map: Jal Operator: Energen Resources Corp. OGRID: 162928 Contact: Brenda RathjenCOMPLIANCE RULE 5.9: Total Wells: 1555 Inactive: 13 Fincl Assur: Yes Compl. Order? NA IS 5.9 OK? No Date: 9/30/2014WELL FILE REVIEWED ☒ Current Status: P&A'd in year drilled - no production Plan includes to Run CBLWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: YesPlanned Rehab Work to Well: Clean out plugs to 4700'; run 5 1/2 inch casing and cement to surface; perf zone

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Ct	Cement Top and Determination Method
Planned ☐ or Existing ☒ Surface	<u>11 1/2 / 13 3/8</u>	<u>0 to 865</u>	<u>725</u>	<u>Cir. to Surface</u>
Planned ☐ or Existing ☒ Intern (Prod)	<u>11 / 8 5/8</u>	<u>0 to 4762</u>	<u>None</u>	<u>Cir. to surface</u>
Planned ☐ or Existing ☒ Intern (Prod)	<u>8 1/2 / 5 1/2</u>	<u>0 to 6750</u>	<u>None</u>	<u>Cir to Surface/CBL</u>
Planned ☐ or Existing ☐ Prod/Liner	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned ☐ or Existing ☐ Liner	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned ☐ or Existing ☒ OH (PERF)	<u>Open hole below</u>	<u>5050 to 6650</u>	<u>Inter length 1500</u>	<u>—</u>

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>Salado</u>	<u>~1300</u>	Drilled TD <u>9100</u> PBDT <u>Various P&A</u>
Confining Unit: Litho. Struc. Por.	<u>±100</u>	<u>Delaware Line</u>	<u>~4700</u>	NEW TD <u>—</u> NEW PBDT <u>Show at 6650</u>
Proposed Inj Interval TOP:	<u>5150</u>	<u>Bell Canyon</u>	<u>5049</u>	NEW Open Hole ☐ or NEW Perfs ☒
Proposed Inj Interval BOTTOM:	<u>6650</u>	<u>Cherry Canyon</u>	<u>5877</u>	Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.	<u>±570</u>	<u>Brushy Canyon</u>	<u>~1720</u>	Proposed Packer Depth <u>4950</u> ft
Adjacent Unit: Litho. Struc. Por.		<u>Bone Spring</u>	<u>~8800</u>	Min. Packer Depth <u>5050</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1010</u> psi
				Admin. H. Press. <u>1030</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information			
POTASH: R-111P ☒ Noticed? <u>Not Required</u>	BLM Sec Ord ☒ WPP ☒ Noticed? <u>NA</u>	SALADO T: <u>1300</u>	B: <u>4700</u> CLIFF HOUSE <u>NA</u>
FRESH WATER: Aquifer <u>Alluvial / possible / Bone Spring</u>	Max Depth <u>350</u>	HYDRO AFFIRM STATEMENT By Qualified Person ☒	
NMOSE Basin: <u>Carlsbad</u>	CAPITAN REEF: thru ☐ adj ☐ <u>NA</u>	No. Wells within 1-Mile Radius? ☒	FW Analysis <u>NA</u>
Disposal Fluid: Formation Source(s) <u>Bone Spring</u>	Analysis? <u>Yes</u>	On Lease ☐ Operator Only ☒ or Commercial ☐	
Disposal Int: Inject Rate (Avg/Max BWPD): <u>4000/10000</u>	Protectable Waters? <u>NA</u>	Source: <u>Produced water from initial</u>	System: Closed ☒ or Open ☐
HC Potential: Producing Interval? <u>Yes</u>	Formerly Producing? <u>Yes</u>	Method: Logs/DS/P&A/Other <u>from initial</u>	2-Mile Radius Pool Map <u>NA</u>
AOR Wells: 1/2-M. Radius Map? <u>Yes</u>	Well List? <u>Yes</u>	Total No. Wells Penetrating Interval: <u>15</u>	Horizontals? <u>1</u>
Penetrating Wells: No. Active Wells <u>3</u>	Num Repairs? <u>0</u>	on which well(s)? <u>—</u>	Diagrams? <u>Yes</u>
Penetrating Wells: No. P&A Wells <u>12</u>	Num Repairs? <u>0</u>	on which well(s)? <u>Add 100' to top perf due to increased holes</u>	Diagrams? <u>Yes</u>

NOTICE: Newspaper Date 05/24/2014 Mineral Owner BLM Surface Owner BLM N. Date 05/28/14

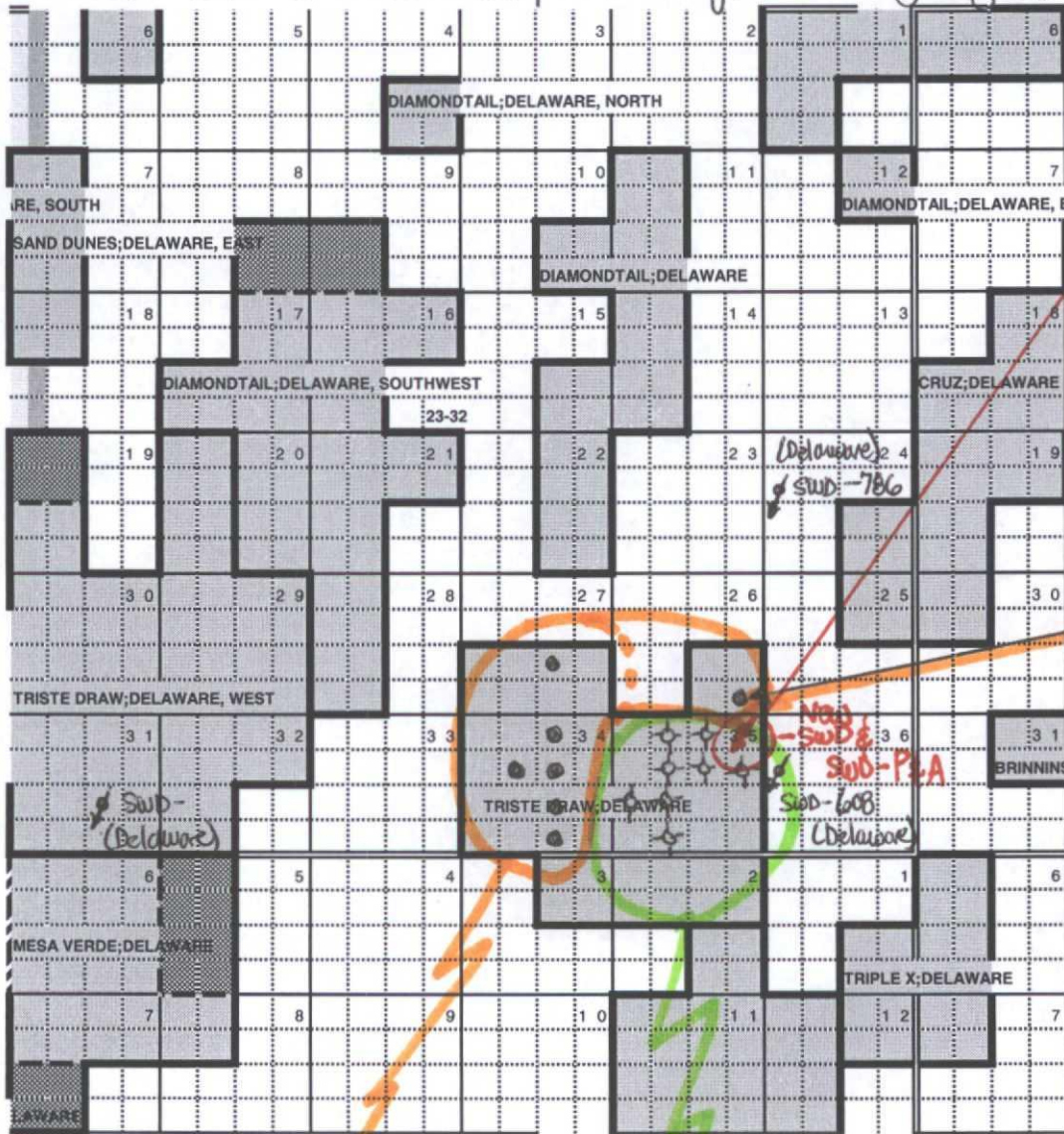
RULE 26.7(A): Identified Tracts? Yes Affected Persons: COG/Bonco/Yates/Abo/Mico/Triex/Enduron/Chewon & MDC N. Date 05/28/14

Permit Conditions: Issues: Top perfs RE: Triste state #1 & James Fed #1; HC potential; injection survey

Add Permit Cond: Top perf at 5150 ft; injection survey 1# every 4th; Swab test

Delaware Potential - Triste Draw, Delaware (PC 59930)

Proposed well within Triste Draw, Delaware pool. Pool extends over entire Delaware "formation"; two distinct production zones - shallow pay at top of Bell Canyon fm / Lamar (top of Delaware) and deeper pay zone in Brushy Canyon fm (perf intervals from <1,000 ft to 29 ft). Shallow zone wells are plugged and abandoned while the deeper zone shows continued production from Brushy Canyon; see info on Yates



Parsley ARA Fed. #1 below.

P&A James Fed. #1
R-3415

perf 5062' to 5100'; operation:

T 23 S 1969 to 2003;
total injected volume: 4.1×10^6 Bow (est.)

Yates Parsley ARA Fed. #1
30-025-33863
Perfs: 8521 to 8550

29 ft in Brushy Canyon fm

Approved for

DHC of Bone Spring fm - but zone plugged off - only Delaware perfs open

Deep Zone

Shallow Zone

This portion of pool completed in lower Brushy Canyon fm; several wells approved for DHC with Bone Springs; ~200 to 500 BOPD for 30-day report

This portion of Delaware pool has no current production - wells completed at top of Bell Canyon fm / top of Delaware - 10 to 20-foot net pay

Production - Yates
Parsley ARA Fed. #1
[30-015-33863]

Rpt	BO	BW	Mcf	Prod. Days
5/14	38	0	0	6 days
6/14	24	0	0	4 days
7/14	33	0	0	5 days

Red Ruby 35 Federal 001

Proposed Injection Zone

The proposed injection interval will be selected zones within the Delaware Mountain Group, which consists of three formations, two of which will provide capacity for the injection of produced fluids.

Injection zones will be selected within the upper formation of the Delaware Mountain Group, known as the Bell Canyon Formation; the top of which is located at a depth of 5049', and exhibits a gross thickness of over 800'. Also, porous zones that exist throughout the upper 800' or so of the 1350' thick underlying Cherry Canyon Formation (formation top of 5877') will be viable candidates for injection, thereby making the total injection gross interval equal to approximately 1600'.

Strata that comprise the proposed injection interval consist of very fine-fine-grained, arkosic sandstone, with interbedded siltstone.

If any strata that contain water with $\leq 10,000$ mg/liter happened to be encountered, the expected depth would be ~50' – 1500'. There are no known sources of drinking water below the proposed injection zone.

In review of local geologic data, no evidence is seen of faults or fracture zones that could cause migration of injected fluids into possible shallow fresh water aquifers.

Protection of Potential Shallow Aquifers

There are several units near the surface and shallow subsurface within the subject area that possibly could have aquifer potential. They range from the surficial Quaternary age eolian sands, the Triassic Santa Rosa Formation at approximately 400', the Upper Permian Dewey Lake Formation at approximately 700', and the Upper Permian Rustler Formation, the base of which is estimated to be ~1500'.

The Ruby 35 Federal 001 was drilled by Patterson Petroleum in August 1997, and has 8 5/8 casing set to a depth of 4762'. Based on this fact, the surface casing in this well will more than adequately provide protection for these potential aquifers.

I affirm that all of the above statements are true and correct to the best of my knowledge.

A handwritten signature in black ink, reading "Terry Burns", is written over a horizontal line.

Terry Burns, Senior Geologist

Energen Corporation

Inactive Well List

Total Well Count: 1551 Inactive Well Count: 9
Printed On: Thursday, October 23 2014

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	TA Exp Date
3	30-039-06514	JICARILLA 108 #013	A-13-26N-05W	A	162928	ENERGEN RESOURCES CORPORATION	J	G	01/2013	PCANT TO P&A/BLM 8-6-14		
3	30-039-06384	JICARILLA 110 #003	I-19-26N-05W	I	162928	ENERGEN RESOURCES CORPORATION	J	G	03/2013	PC/INT TO P&A/BLM 8-6-14		
3	30-039-06106	JICARILLA 123 C #001	I-7-25N-04W	D	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	PC/INT TO P&A/BLM 8-6-14		
3	30-039-20730	JICARILLA 67 #011	3-19-25N-05W	L	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	INT TO P&A/BLM 7-7-14		
3	30-039-06347	JICARILLA 98 #001	M-19-26N-03W	M	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	GAVILAN PC/INT TO P&A/BLM 8-5-14		
3	30-039-05498	LINDRITH UNIT #006	B-14-24N-03W	B	162928	ENERGEN RESOURCES CORPORATION	F	G	06/2013	P&A/BLM/9-25-14		
1	30-025-31767	WEST LOVINGTON STRAWN UNIT #002	P-33-15S-35E	P	162928	ENERGEN RESOURCES CORPORATION	F	O	04/2013			
1	30-025-31646	WEST LOVINGTON STRAWN UNIT #007	3-1-16S-35E	C	162928	ENERGEN RESOURCES CORPORATION	P	G	08/2012	STRAWN - CONV FROM MW		
1	30-025-33175	WEST LOVINGTON STRAWN UNIT #013	O-28-15S-35E	O	162928	ENERGEN RESOURCES CORPORATION	P	O	03/2004	STRAWN TA 11/22/10 TA EXP 11/23/2012	T	11/23/2012

WHERE Ogrid: 162928, County: All, District: All, Township: All, Range: All, Section: All, Production(months): 15, Excludes Wells Under ACOI, Excludes Wells in Approved TA Period

Energen Resources Corp.

Inactive Well List

Total Well Count: 1555 Inactive Well Count: 13
Printed On: Tuesday, September 30 2014

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	TA Exp Date
3	30-039-06514	JICARILLA 108 #013	A-13-26N-05W	A	162928	ENERGEN RESOURCES CORPORATION	J	G	01/2013	PC/INT TO P&A/BLM 8-6-14		
3	30-039-06384	JICARILLA 110 #003	I-19-26N-05W	I	162928	ENERGEN RESOURCES CORPORATION	J	G	03/2013	PC/INT TO P&A/BLM 8-6-14		
3	30-039-06106	JICARILLA 123 C #001	I-7 -25N-04W	D	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	PC/INT TO P&A/BLM 8-6-14		
3	30-039-20730	JICARILLA 67 #011	3-19-25N-05W	L	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	INT TO P&A/BLM 7-7-14		
3	30-039-06347	JICARILLA 98 #001	M-19-26N-03W	M	162928	ENERGEN RESOURCES CORPORATION	J	G	04/2013	GAVALAN PC/INT TO P&A/BLM 8-5-14		
3	30-039-05498	LINDRITH UNIT #006	B-14-24N-03W	B	162928	ENERGEN RESOURCES CORPORATION	F	G	06/2013			
3	30-039-05519	LINDRITH UNIT #048	O-10-24N-03W	O	162928	ENERGEN RESOURCES CORPORATION	F	G	06/2013	INT TO P&A/BLM 4-10-14		
3	30-039-20919	LINDRITH UNIT #077	N-12-24N-03W	N	162928	ENERGEN RESOURCES CORPORATION	F	G	05/2013	INT TO P&A/BLM 8-27-14		
1	30-025-31767	WEST LOVINGTON STRAWN UNIT #002	P-33-15S-35E	P	162928	ENERGEN RESOURCES CORPORATION	F	O	04/2013			
1	30-025-31648	WEST LOVINGTON STRAWN UNIT #007	3-1 -16S-35E	C	162928	ENERGEN RESOURCES CORPORATION	P	G	08/2012	STRAWN - CONV FROM WW		
1	30-025-32812	WEST LOVINGTON STRAWN UNIT #009	M-34-15S-35E	M	162928	ENERGEN RESOURCES CORPORATION	P	O	06/2013	SIDETRACK 02/22/09 BLM		
1	30-025-33175	WEST LOVINGTON STRAWN UNIT #013	O-28-15S-35E	O	162928	ENERGEN RESOURCES CORPORATION	P	O	03/2004	STRAWN TA 11/22/10 TA EXP 11/23/2012	T	11/23/2012
1	30-025-37846	WEST LOVINGTON STRAWN UNIT #023	O-34-15S-35E	O	162928	ENERGEN RESOURCES CORPORATION	P	O	10/2012	Strawn		

WHERE Ogrid:162928, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15, Excludes Wells Under ACOI, Excludes Wells in Approved TA Period