

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM0405444A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
TODD 22B FED 2

2. Name of Operator Contact: JEANETTE BARRON
DEVON ENERGY PRODUCTION CO Email: jeanette.barron@dvn.com

9. API Well No.
30-015-32203-00-S1

3a. Address
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)
Ph: 515-748-1813

10. Field and Pool, or Exploratory
INGLE WELLS-DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 22 T23S R31E NWNE 510FNL 1980FEL

11. County or Parish, and State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

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

Number 14-MB-W215
1 Producing from Delaware formation
2 Producing 12 BBL per day
4 Water is stored in 2-500 BBL tanks
5 Water being piped
6 Facility operator Devon Energy
7 a.) Well name Todd Fed 26 permit #493 b.)Barclay 11 Fed 1 permit #935
8 a.)S-26/T-23s/R-31E b.)S-11/T-23S/R-31E

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Accepted for record
NMOC

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

**Electronic Submission #253576 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMSS for processing by LINDA DENNISTON on 07/25/2014 (14LD0282SE)**

Name (Printed/Typed) JEANETTE BARRON	Title FIELD ADMIN TECH
Signature (Electronic Submission)	Date 07/17/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
Conditions of approval; if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____

APPROVED

NOV 18 2014

[Signature]
JAMES A. AMOS
SUPERVISOR-EPs

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

WATER PRODUCTION & DISPOSAL INFORMATION

In order to process your disposal request, the following information must be completed in full

Site Name: Todd 22-2

1. Name(s) of formation(s) producing water on the lease:
Delaware

2. Amount of water produced from all formations in barrels per day:
23 BBLS

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
(One sample will suffice if water is commingled)

4. How water is stored on lease:
2-500 BBL TANKS

5. How water is moved to the disposal facility:
Piped

6. Identify the Disposal Facility by:

A. Facility Operators Name: a.) Devon Energy

B. Facility or well name/number: a.) Todd Fed 26 Permit # 493 b.) Barclay 11 Fed 1 Permit # 935

C. Type of Facility or well (WDW) (WIW): a.) WDW b.) WDW

D.A. Location by SW4/NE4 Section 26 Township 23S Range 31E

D.B. Location by SE4/NE4 Section 11 Township 23S Range 31E

7. Attach a copy of the State issued permit for the Disposal Facility.
(Info on the NMOCD Website or on the Artesia LDrive)

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 5 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)

Natural Gas Analysis Report

AKM Measurement Services

DS

Sample Information

Sample Information	
Sample Name	Todd 22 B Fed #2(13155052)
Injection Date	2013-11-19 17:20:48

Component Results

Component Name	Norm%	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	4.6291	0.000
Methane	70.1944	0.000
CO2	0.0641	0.000
Ethane	12.1731	3.268
H2S	0.0000	0.000
Propane	7.7879	2.154
iso-Butane	0.9547	0.314
n-Butane	2.3657	0.749
iso-Pentane	0.5979	0.220
n-Pentane	0.5434	0.198
Hexanes Plus	0.6897	0.300
Water	0.0000	0.000
Total:	100.0000	7.202

Results Summary

Result	Dry	Sat.
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	0.0	
Flowing Pressure (psia)	0.0	
Gross Heating Value (BTU / Real cu.ft.)	1318.1	1295.7
Relative Density (G), Real	0.7997	0.7970
Total GPM	7.202	7.180
Total Molecular Weight	23.076	22.988



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

Report Date: 6/25/2014

Complete Water Analysis Report SSP v.8

Customer:	DEVON ENERGY	Sample Point Name	TODD 22B FED 2
District:	New Mexico	Sample ID:	201401010620
Sales Rep:	Gene Rogers	Sample Date:	6/17/2014
Lease:	TODD 22B FED	Log Out Date:	6/24/2014
Site Type:		Analyst:	Sandra Sanchez
Sample Point Description:			

DEVON ENERGY, TODD 22B FED, TODD 22B FED 2

Field Data		Analysis of Sample					
		Anions:		Cations:			
		mg/L	meq/L	mg/L	meq/L		
Initial Temperature (°F):	250	Chloride (Cl ⁻):	168500.0	4753.2	Sodium (Na ⁺):	79454.4	3457.5
Final Temperature (°F):	81	Sulfate (SO ₄ ²⁻):	340.0	7.1	Potassium (K ⁺):	1741.2	44.5
Initial Pressure (psi):	100	Borate (H ₃ BO ₃):	164.1	2.7	Magnesium (Mg ²⁺):	3665.1	301.7
Final Pressure (psi):	15	Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	22633.0	1129.4
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	1258.7	28.7
		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	3.5	0.1
pH at time of sampling:	5.4	Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	46.0	1.6
		Phosphate (PO ₄ ³⁻):	ND		Manganese (Mn ²⁺):	5.0	0.2
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	ND	
					Zinc (Zn ²⁺):	0.0	0.0
					Aluminum (Al ³⁺):	ND	
					Chromium (Cr ³⁺):	ND	
					Cobalt (Co ²⁺):	ND	
					Copper (Cu ²⁺):	ND	
					Molybdenum (Mo ²⁺):	ND	
					Nickel (Ni ²⁺):	ND	
					Tin (Sn ²⁺):	ND	
					Titanium (Ti ³⁺):	ND	
					Vanadium (V ²⁺):	ND	
					Zirconium (Zr ²⁺):	ND	
					Total Hardness:	73120	N/A
Alkalinity by Titration:	mg/L meq/L	Organic Acids:		mg/L meq/L			
Bicarbonate (HCO ₃ ⁻):	49.0 0.8	Formate:	ND				
Carbonate (CO ₃ ²⁻):	ND	Acetate:	ND				
Hydroxide (OH ⁻):	ND	Propionate:	ND				
aqueous CO ₂ (ppm):	26.0	Butyrate:	ND				
aqueous H ₂ S (ppm):	1.7	Valerate:	ND				
aqueous O ₂ (ppb):	ND						
Calculated TDS (mg/L):	277860						
Density/Specific Gravity (g/cm ³):	1.1802						
Measured Density/Specific Gravity	1.1950						
Conductivity (mmhos):	ND						
MCF/D:	No Data						
BOPD:	No Data						
BWPD:	No Data	Anion/Cation Ratio:	0.96				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)
81°F	15 psi	0.55	1.498	0.37	4.899	-0.11	0.000	-0.14	0.000
100°F	24 psi	0.43	1.318	0.40	5.204	-0.10	0.000	-0.06	0.000
119°F	34 psi	0.32	1.085	0.45	5.672	-0.10	0.000	0.02	8.315
137°F	43 psi	0.21	0.793	0.50	6.127	-0.11	0.000	-0.10	35.041
156°F	53 psi	0.10	0.435	0.54	6.530	-0.12	0.000	0.18	57.800
175°F	62 psi	0.00	0.006	0.58	6.878	-0.13	0.000	0.27	77.145
194°F	72 psi	-0.09	0.000	0.62	7.176	-0.14	0.000	0.35	93.391
212°F	81 psi	-0.18	0.000	0.66	7.519	-0.15	0.000	0.44	106.820
231°F	91 psi	-0.27	0.000	0.70	7.817	-0.17	0.000	0.52	117.737
250°F	100 psi	-0.35	0.000	0.74	8.082	-0.19	0.000	0.60	126.465

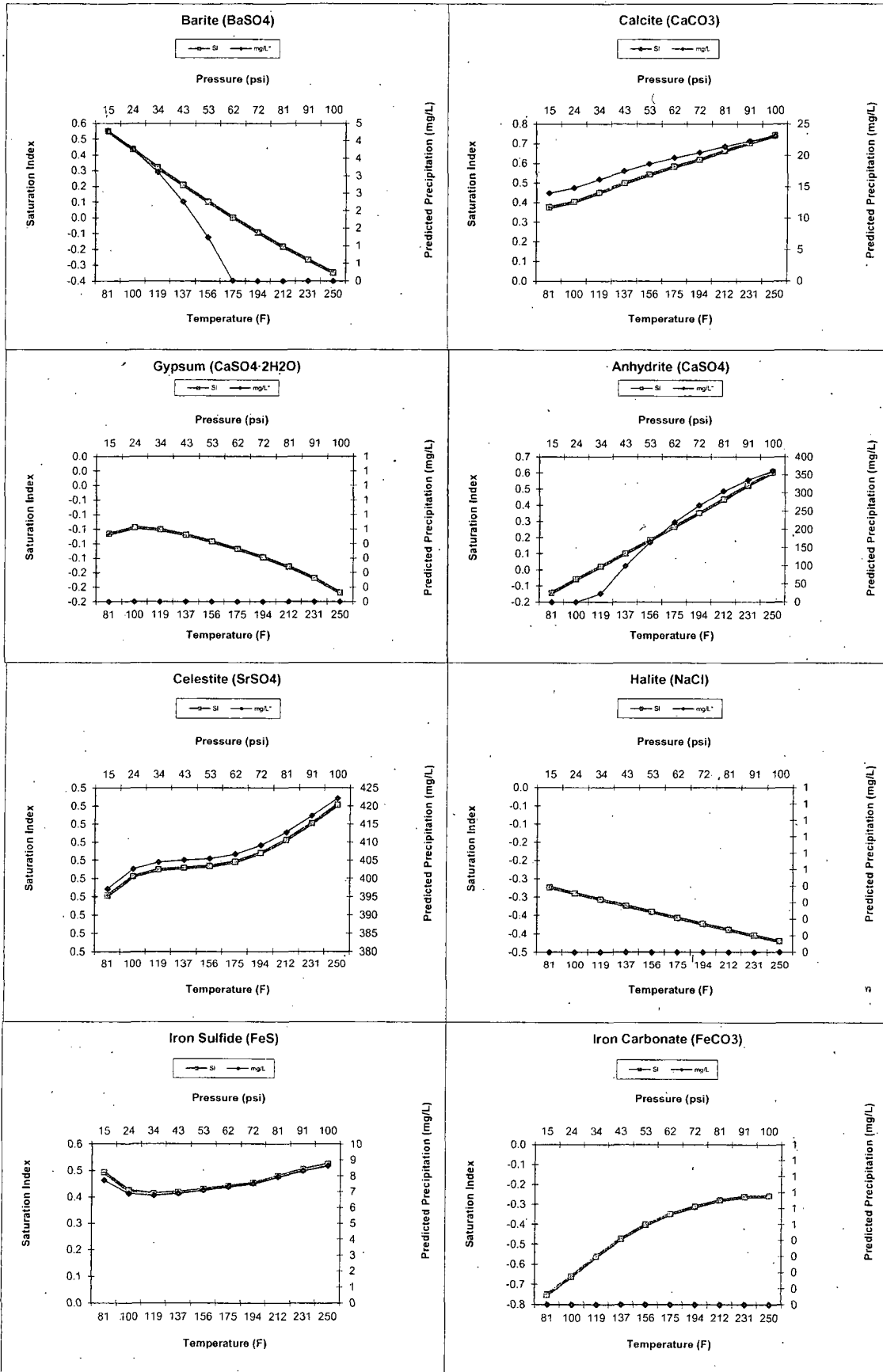
Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
81°F	15 psi	0.48	139.013	-0.27	0.000	0.49	2.706	-0.75	0.000
100°F	24 psi	0.49	140.916	-0.29	0.000	0.43	2.406	-0.66	0.000
119°F	34 psi	0.49	141.581	-0.31	0.000	0.41	2.362	-0.56	0.000
137°F	43 psi	0.50	141.752	-0.32	0.000	0.42	2.408	-0.47	0.000
156°F	53 psi	0.50	141.910	-0.34	0.000	0.43	2.483	-0.40	0.000
175°F	62 psi	0.50	142.345	-0.36	0.000	0.44	2.562	-0.35	0.000
194°F	72 psi	0.50	143.193	-0.37	0.000	0.45	2.635	-0.31	0.000
212°F	81 psi	0.51	144.460	-0.39	0.000	0.48	2.780	-0.28	0.000
231°F	91 psi	0.52	146.044	-0.40	0.000	0.50	2.906	-0.26	0.000
250°F	100 psi	0.53	147.765	-0.42	0.000	0.52	3.016	-0.26	0.000

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 Pitzer™
SSP2010

Comments:



BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Disposal of Produced Water From Federal Wells
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency shall be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
8. Disposal at any other site will require prior approval.
9. Subject to like approval by NMOCD.

7/10/14

Todd 22 Battery Site

Todd 22-2

API 30-015-32203

510 FNL & 1980 FEL

UNIT B S-22 T-23S R-31E

Production System: Closed

1) Oil sales by tank gauge to tank truck.

2) Seal requirements:

A. Production Phase: On all Tanks.

(1) All valves 5 sealed closed.

Sales Phase: On Tank being hauled.


(1) Valve 1 sealed closed. 

(2) Valve 3 sealed closed. 

(3) Valve 4 sealed closed. 

(4) Valve 5 sealed closed. 


(5) Misc. Valves: Plugged or otherwise inaccessible.  


NOTE: Valve 2 is either a test or roll line if there is a valve 2 it will be sealed closed. 

Ledger for Site Diagram


Valve #1: Production Line 

Valve #2: Test or Roll line 


Valve #3: Equalizer Line 

Valve #4: Circ./Drain Line 

Valve #5: Sales Line 

Valve #6: BS&W Load Line 

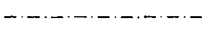
Buried Lines: 

Firewall: 

Wellhead: 

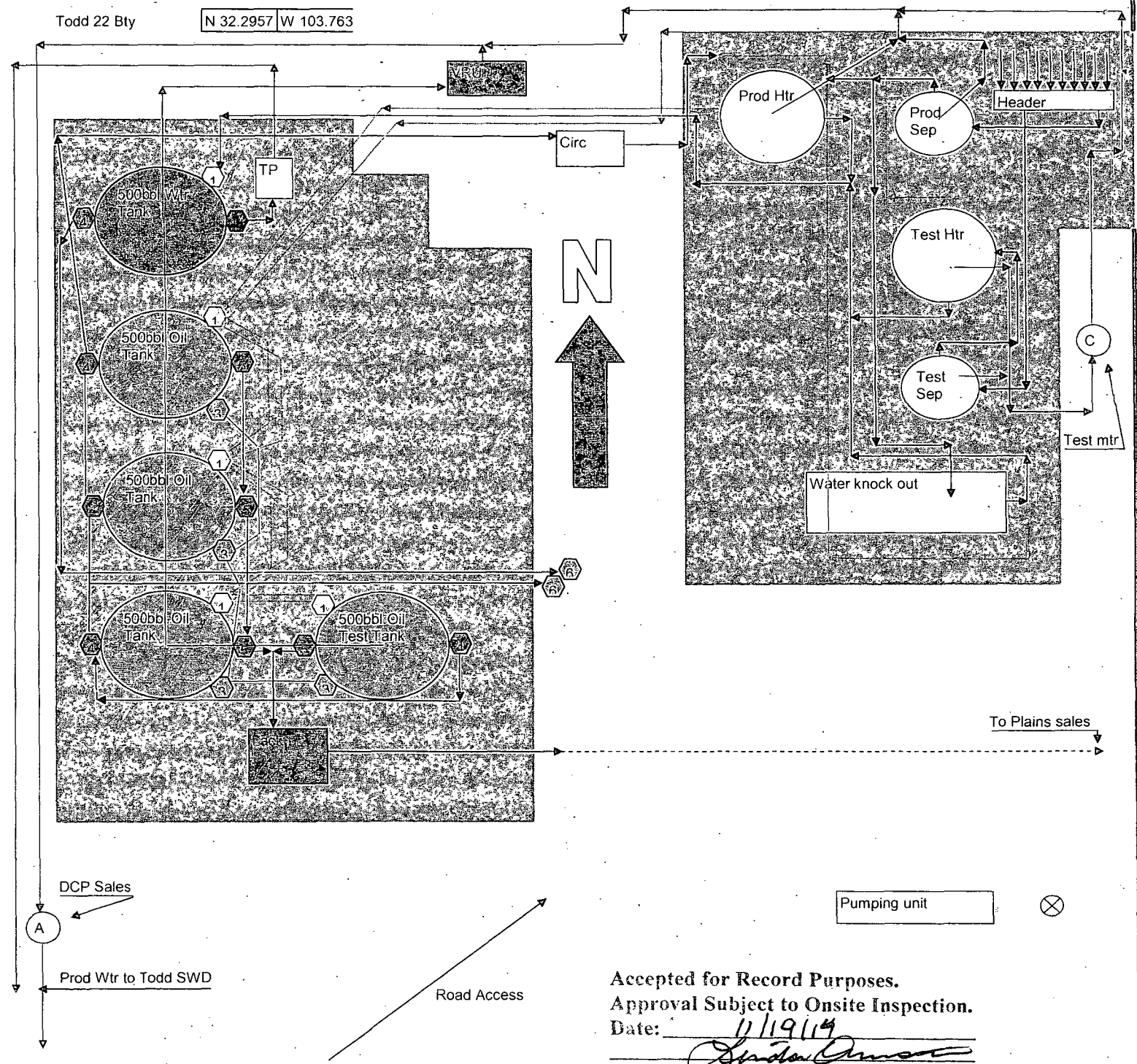
Stak-pak: 

Production line: 

Water line: 

Gas Meter   

Todd 22 Bty N 32.2957 W 103.763



Accepted for Record Purposes.
 Approval Subject to Onsite Inspection.
 Date: 11/19/14
