

03/26/14 DATE IN	SUSPENSE	ENGINEER PAG	LOGGED 03/30/14	TYPE SWD	PMAM 1408533309 APP NO.
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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 _____

Corrected Application

*Cimrex
Red Hills Unit No. 3
20-025-28144*

[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.

Kay Havenor	See C-108 Application	Agent	02/28/2014
_____ Print or Type Name	_____ Signature	_____ Title	_____ Date
		kayhavenor@georesources.com	
		e-mail Address	

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Cimarex Energy Co. of Colorado
ADDRESS: 600 N. Marienfeld St. Suite 600 Midland, TX 79702
CONTACT PARTY: Kay Havenor PHONE: 575-626-4518
- 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.
- IV. Is this an expansion of an existing project? Yes X 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.
- 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.
- VII. Attach data on the proposed operation, including:
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.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *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.
- 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.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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: Kay Havenor TITLE: Agent
- SIGNATURE: Kay C Havenor 904 Moore Ave, Roswell, NM 88201 DATE: Feburary 28, 2014
- E-MAIL ADDRESS: KHavenor@georesources.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

Tubing Size: 3-1/2" 12.95# L-80 Lining Material: Fiberglass coated

Type of Packer: Lok-Set or equivalent

Packer Setting Depth: Approx 5,124 ft

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

Additional Data

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

If no, for what purpose was the well originally drilled? Originally drilled as oil/gas well

2. Name of the Injection Formation: Delaware Mountain Group

3. Name of Field or Pool (if applicable): Red Hills Unit

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. Yes, see detail in Item VI (a) 1

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Brushy Canyon 7680, Bone Springs 9110, Morrow 14992', SiluroDev 17,446'

Wolfcamp - R-10233

Shared with
Red Hills Unit #2

WELL LOCATION:	1980' FSL & 2180' FWL	K	5	26S	33E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELL CONSTRUCTION DATA

Top of Cement: Surface Method Determined: Opr Report

Intermediate Casing

Top of Cement: Surface Method Determined: Opr Report

2nd Intermediate Casing

1st Liner

Top of Cement: 7700' Method Determined: Opr TS

53D

WELLBORE SCHEMATIC

See attached diagram

WELL CONSTRUCTION DATA

2nd Liner

Hole Size: NR

Casing Size: 4½" 11.6# LS-95

Cemented with: 180 sx.

or ft³

Top of Cement: (calc @T/liner)

Method Determined: est

3rd liner

Hole Size: NA

Casing Size: 7⅝" (0-12,658' pulled 9,928')

Cemented with: 5500 sx.

or ft³

Top of Cement: NR

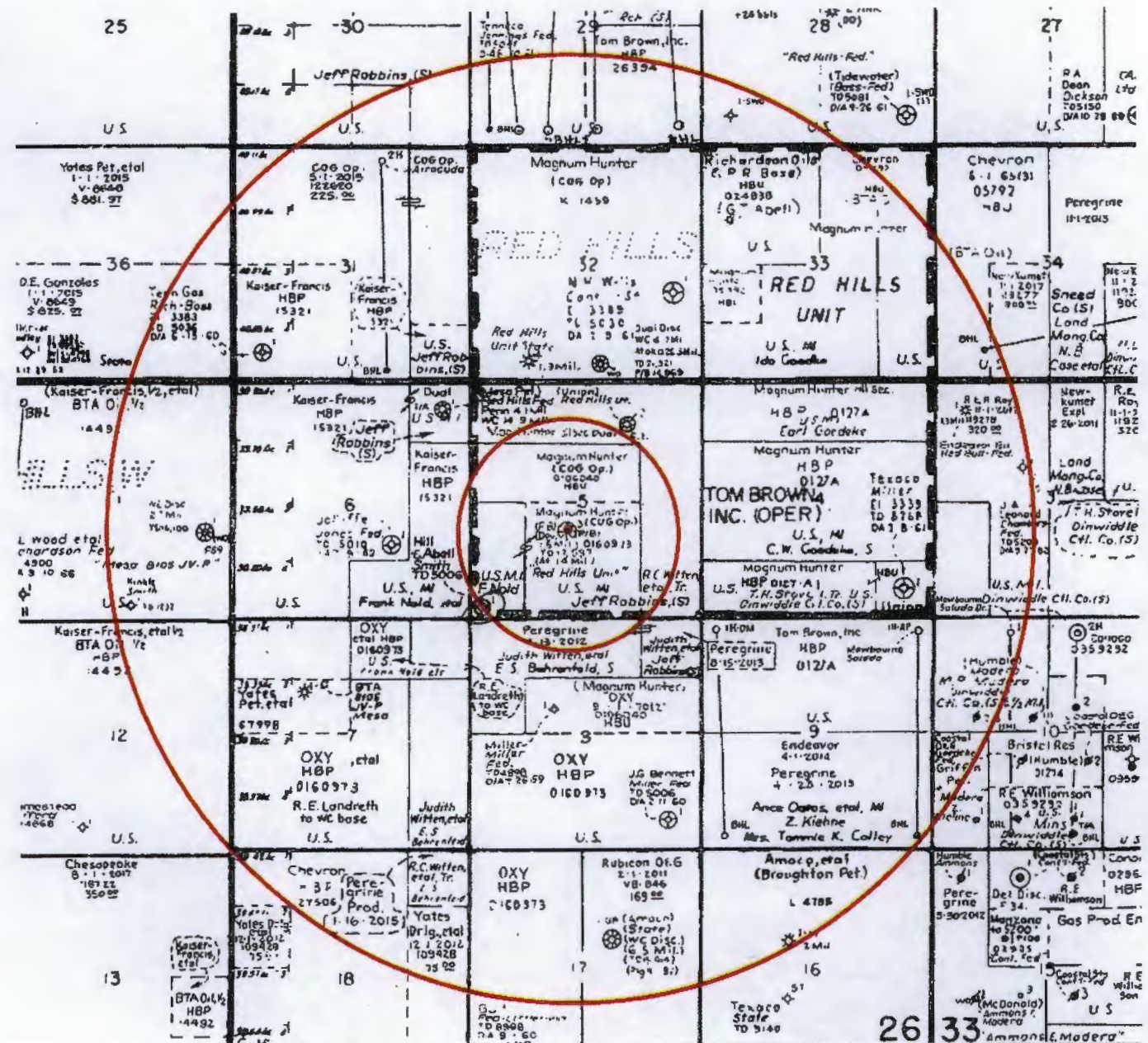
Method Determined:

Injection Interval

Perforated 5,174'- 7,385'

Perforated or Open Hole; indicate which)

Area of Review
½ Mile AOR and 2 Mile Radius



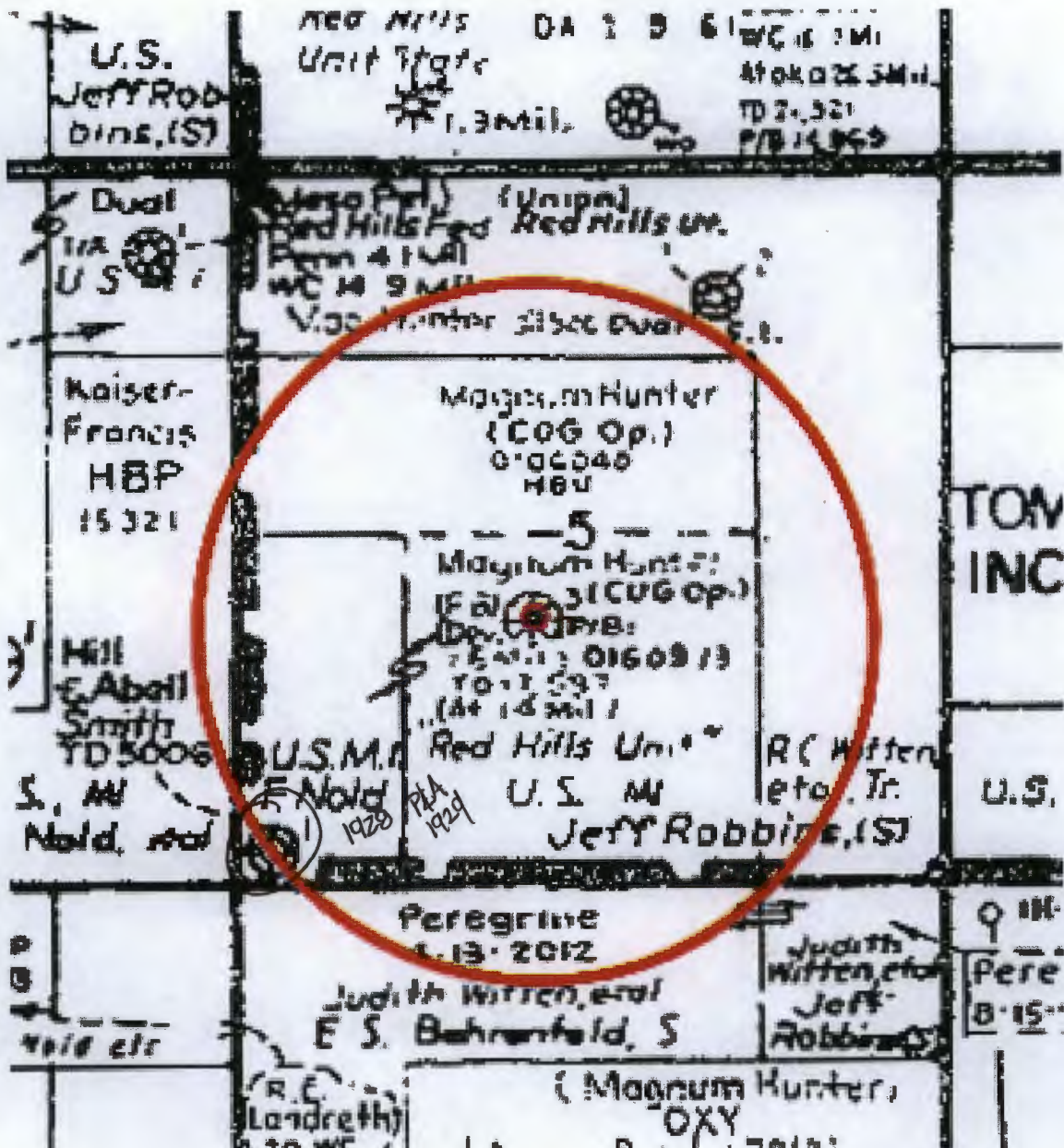
Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item V (a):

Area of Review

1/2-Mile AOR



Cimarex Energy Company of Colorado
 Red Hills Unit #3
 1980' FSL & 2180' FWL
 Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item VI: Data on wells in AOR:

API	WELL_NAME	STATUS	SDIV	SEC	TWN	RANGE	FTG_NS	NS	FTG	EW	OCD	OPERATOR	WELL	LAND	PLUG_DATE	SPUD	ELEVGL	TVD_DEPTH
3002528144	RED HILLS UNIT 003	Active	K	5	26.0S	33E	1980 S		2180 W	K		CIMAREX ENERGY CO. OF COLORADO	G	F		06-Apr-95	3349	17597
3002508400	MAECHTEL PERMIT 001	Plugged	M	5	26.0S	33E	330 S		330 W	M		RECTOR OIL CO	O	F	08-Jan-29	28-Oct-28	3294	5006

Item VI: Known wells in the AOR that penetrate the proposed disposal interval:

1. **30-025-28144** Cimarex Energy Co. of Colorado Red Hills Unit #3. OCD Unit K, 1980' FSL & 2180' FWL, Sec. 5, T26S-R33E, Lea Co. Elev 3349 GL Spud 4/5/1983 (Union Oil). 26" hole set 20" 94# K-55 @825' w/1450 sx cmt, circ 300 sx. 17½" hole set 13¾" 61/68# L-80-K-55 @4877' w/5500 sx (orig w/1000 sx) cmt, Opr reported circ. 12¼" hole set 9⅝" 47/53.5# LSS-95/C-95 @13,000' DV 8491' w/4350 sx. TOC 7700' TS. 8½" hole 13,000'-17,010'. 1st liner 7¾" 46.1# P110 /S-95 12,685'-16,986' w/200 sx. 6½" hole ran 2nd liner 4½" 11.6# LS-95 16,387'-17,597' w/180 sx cmt. 10/12-25/1990 acid perfs 17,453-483 (OA) w/7500 gal 15% rec gas + wtr. 12/19/1990 proposed abandon Siluro-Devonian w/retainer 16,330 to complete Atoka 14,528'-14,545'. 4/3/91 tbg not free, cut @16,316'. Cmt retainer @16,240'. 7/14/1991 ran 12,652' 7⅝" 39# T-125 TOC 11,000' TS. Perf 14,528-545' w/205 holes 12 SPF. Re-perf 14,528-538' w/61 holes. Sqzd 14,528'-545' w/50 sx cmt. CIBP 14,027' +65' cmt. PBTD 13,962'. Cut & pulled 9,928' 7⅝". Perf Wc 13,017'-292' w/101 shots. Well currently SI.

2. No API #. Rector Oil Co. Maechtel #1. OCD Unit M, 330' FSL & 330' FWL, Sec. 5, T26S-R33E, Lea Co. Elev (scout) 3294' GL. Spud 10/28/1928. Set 1086' 12½" cem not reported. Set 1295' 10" reported "cmt" but not volume. TD 5006'. T/salt 1150', B/salt 4565'. TD 5006' ✓ P&A Jan 1929.

30-025-08400

1295' to 5006'

No casing
 Probable mud P&A'd

3294' GL
 - 5006' TD
 - 1712 SL/BH

Red Hills #3
 Top of interval
 3349
 - 5174
 - 1825
 3349
 - 5374
 - 2025
 additional 200 ft

Cimarex Energy Company of Colorado
 Red Hills Unit #3
 1980' FSL & 2180' FWL
 Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item VII:

1. The maximum injected volume anticipated is 7,000 BWPD. Average anticipated is 4,500 BWPD.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 1,035 psi, or as allowed by depth.
4. Sources will be produced water. These will be compatible with waters in the disposal zone.
5. Water sample analysis from the EOG Endurance 36 State Com #1H Unit H, Sec. 26-T26 is Bone Springs produced water. This water quality will be similar and compatible with proposed disposal into the Cimarex Red Hills #3. This sample has TDS of approximately 216,715 mg/l.



Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
 Billing Address: P.O. BOX 68210 • ODESSA, TEXAS 79769-0210
 Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764
 PHONE (432) 337-4744
 FAX (432) 337-6781

MR. PAUL CORRALES

EOG RESOURCES

P.O. BOX 1331

JAL, NEW MEXICO 88252

SAMPLE SOURCE: ENDURANCE 25 FED COM 1H

ANALYSIS COMPLETED: 06-28-2012

SAMPLE RECEIVED: 06-21-2012

LAB NUMBER: 12140

DISSOLVED SOLIDS:

CATIONS:	MEQ/L	mg/L
SODIUM (CALC.) (Na+)	2897.68	66647
CALCIUM (Ca++)	484.00	9680
MAGNESIUM (Mg++)	112.00	1366
ANIONS:		
CHLORIDE (Cl-)	3468.00	123114
SULFATE (SO4=)	18.42	884
CARBONATE (CO3=)	0.00	0
BICARBONATE (HCO3-)	7.26	443
HYDROXIDE (OH-)	0.00	0
TOTAL DISSOLVED SOLIDS:		202134

OTHER PROPERTIES:

pH	6.03	P-ALKALINITY (AS CaCO3)	0 mg/L
SPEC. GRAV.	1.12	M-ALKALINITY (AS CaCO3)	363 mg/L
CONDUCTIVITY 387100 µMHOS/CM @ 77 °F		CALCIUM HARDNESS (AS CaCO3)	24200 mg/L
		MAGNESIUM HARDNESS (AS CaCO3)	5600 mg/L
		TOTAL HARDNESS (AS CaCO3)	29800 mg/L
H2S	0 mg/L		
CO2	282 mg/L		
IRON	0.20 mg/L		

Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item VIII:

The surface of the area included in the 2-mile radius, as shown in Item V above, is Quaternary alluvium and Recent blow-sand deposited on Cretaceous/Triassic Dewey Hills redbeds. No shallow samples have been found in the greater area to clearly define shallow tops. E-logs show the Rustler Formation at about 824'.

The surface geology of the greater area, including the 2-mile radius is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age. These are underlain by the Permian Rustler Formation and evaporites.



New Mexico Office of the State Engineer
Wells with Well Log Information

UTMNA083 Radius Search (in meters):

Easting (X): 632595

Northing (Y): 3548941

Radius: 3200

No wells found.

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/3/14 6:46 PM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION

Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item IX:

Acidize perforations 5174' to 7,385' in 9⁵/₈" casing with approximately 20,000 gal of 15% Hcl.

Item X:

Logs are on file with the OCD.

Item XI:

No water wells are reported within a 2-mile radius of the proposed SWD. Please note Item VIII discussion above.

Item XII:

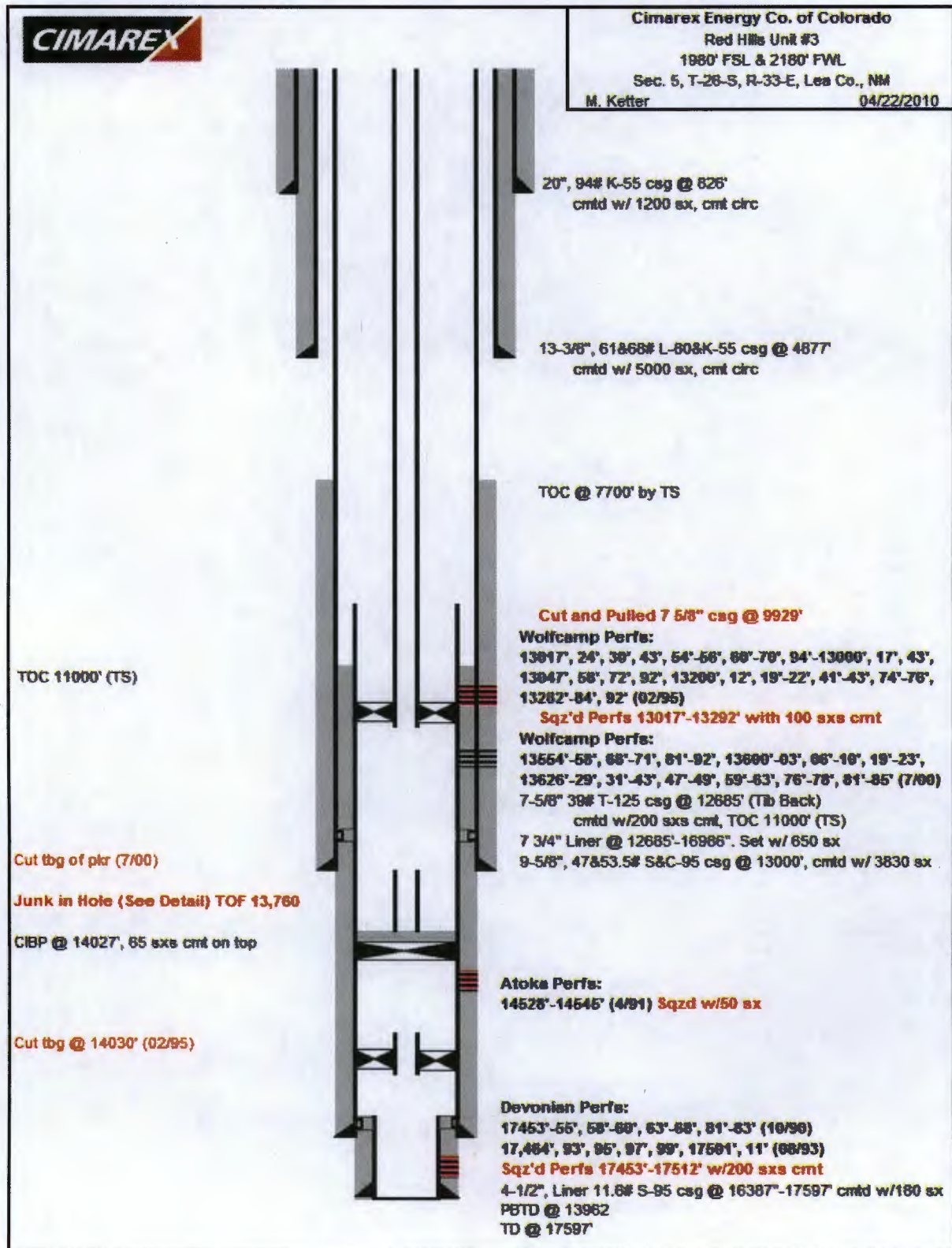
There is no geological evidence of open faults nor hydrologic connection between the disposal zone and any possible underground source of protectable water.

Addendum:

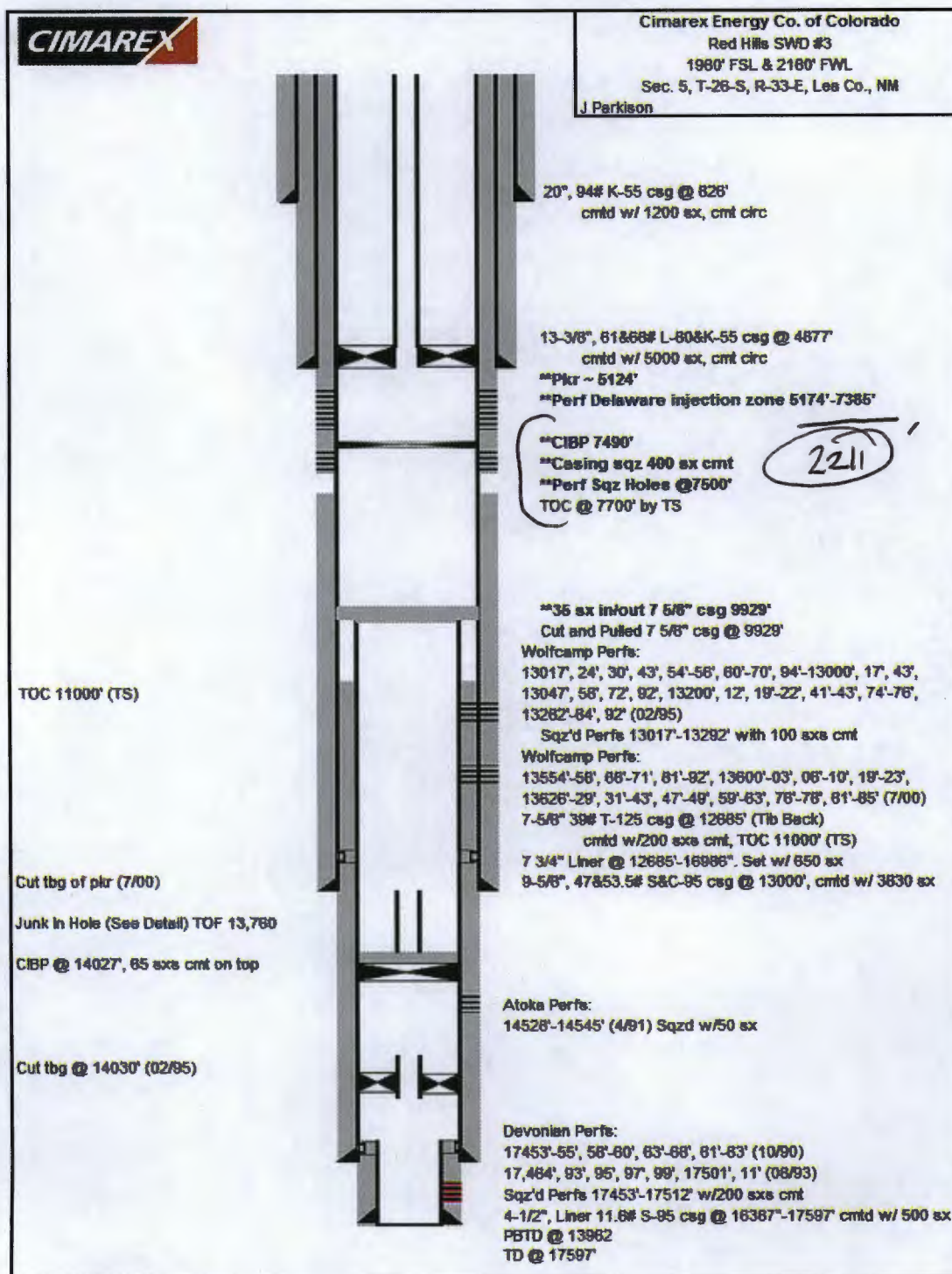
Extensive geophysical logging/evaluation of Delaware Bell Canyon and Cherry Canyon during and post drilling does not indicate evidence for viable hydrocarbon production. Production quality porosity in these intervals is accompanied by e-log low resistivity indicating high water saturations.

Formation Tops:		KB 3383	3349 GR		
Rustler	880	Cherry Canyon	5963 ^{SL} -2614	Morrow	14992
1 st Salt	2475	Brushy Canyon	7680 -4331	Woodford	17292
Main Salt	3138	Bone Springs	9010	Siluro-Devonian	17446
B/Salt (approx)	4650	Wolfcamp	11961		
Lamar	4868	Cisco	13852		
Ramsey	4904 -1555	Strawn	14148		
Olds	4958 -1609	Atoka	14417		

Present Configuration of Cimarex Red Hills Unit No. 3



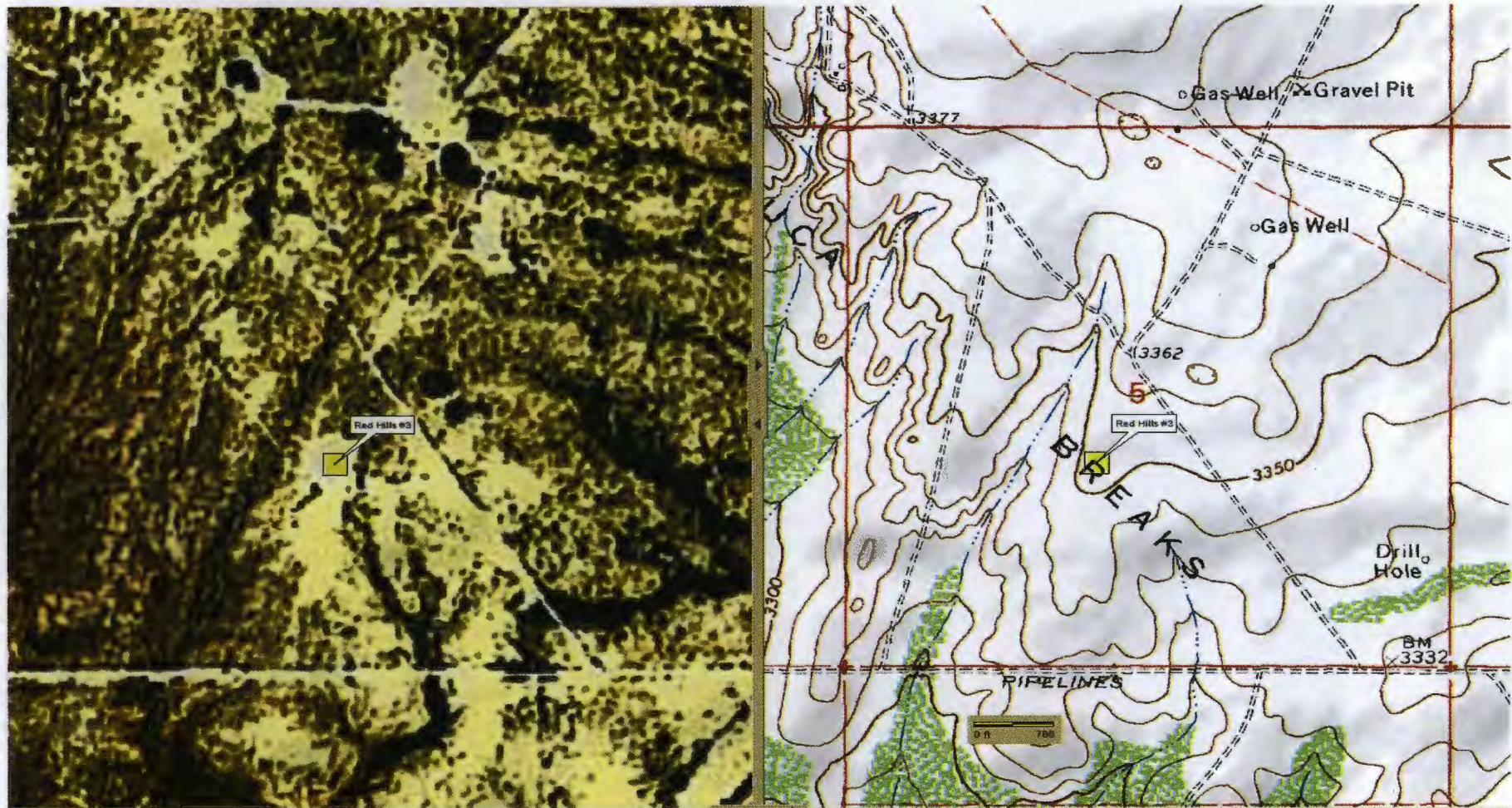
Proposed Configuration for Cimarex Red Hills Unit #3



Note: Change in name back to Red Hills Unit #3 made after publication.

Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144



NM-123 at CR-1 (Orla Rd) south 10.5 miles, east 5.0 miles, NW 0.5 miles. Location on west 0.6 miles.

Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item XIII: Proof of Notice

Minerals Owner:

Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

Surface Owner:

Mr. Jeff Robbins
301 Orla Rd.
Jal, NM 88252

Operators:

Cimarex Energy Co. of Colorado

Red Hills Unit Operator and lessor

Item XIII: Legal Publication

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

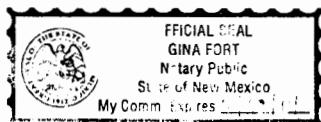
Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of March 6, 2014 and ending with the issue of March 6, 2014.

And that the cost of publishing said notice is the sum of \$ 35.69 which sum has been (Paid) as Court Costs.

Joyce Clemens
Joyce/Clemens, Advertising Manager
Subscribed and sworn to before me this 7th
day of March, 2014.

Gina Fort
Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2014



Legal Notice

Cimarex Energy Company of Colorado, 600 N. Marienfeld St., Ste 600, Midland, Texas, 432-571-7800, is seeking approval from the New Mexico Oil Conservation Division to re-complete the Cimarex Energy Co. of Colorado Red Hills Unit No. 3, API 30-025-28144, located 1980 feet from the south line and 2180 feet from the west line of Section 5, T26S, R33E, Lea County, NM, 23.8 miles west of Jai, New Mexico, and complete for non-commercial produced water disposal as the Cimarex Energy Company of Colorado Red Hills SWD No. 3. The proposed disposal interval is into the lower Delaware Bell Canyon and the Cherry Canyon Formations through 9 5/8" casing perforated from 5,174 feet to 7,385 feet (OA). Cimarex Energy plans to dispose of a maximum of 7,000 BWPD at a maximum pressure of 1,035 psi, or as allowed by depth. Parties with questions regarding this proposal are urged to contact Cimarex at the address or phone number above. Interested parties must file objections or requests for hearing within 15 days to the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505.

Published in the Lovington Daily Leader, Lovington, N.M. March 6, 2014.

Note: Change in name back to Red Hills Unit #3 made after publication.

Cimarex Energy Company of Colorado
Red Hills Unit #3
1980' FSL & 2180' FWL
Sec. 5, T26S-R33E Lea County, NM

API 30-025-28144

Item XIII:

Certified Mail Receipts

7012 2920 0002 2178 2122

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)		
For delivery information visit our website at www.usps.com		
CARLSBAD NM 88220		
Postage	\$ 1.61	0602
Certified Fee	\$3.30	08
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.61	03/03/2014
Sent To Bureau of Land Management		
Street, Apt. No., or PO Box No. 620 E. Greene Street		
City, State, ZIP+4 Carlsbad, NM 87220		

PS Form 3800, August 2006 See Reverse for Instructions

7012 2920 0002 2178 2122

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)		
For delivery information visit our website at www.usps.com		
JAL NM 88252		
Postage	\$ 1.61	0602
Certified Fee	\$3.30	08
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.61	03/03/2014
Sent To Mr. Jeff Robins		
Street, Apt. No., or PO Box No. 301 Orla Rd.		
City, State, ZIP+4 JAL, NM 88252		

PS Form 3800, August 2006 See Reverse for Instructions



C-108 Review Checklist:

* 03/24/14 Two applications - Corrected well name due to BLM stipulation
 Received: Add. Request: Reply Date: Suspended: [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number: 1505 Permit Date: 10/21/14 Legacy Permits/Orders: R-10233

Well No. 3 Well Name(s): Red Hills Unit

Wolfcamp - production between RHU #2 and RHU #3

API: 30-0 25 - 28144 Spud Date: 04/05/1983 New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 1980 FSL / 2180 FUL Lot - or Unit K Sec 5 Tsp 26S Rge 33E County Lea

General Location: 24 miles W of Jal Pool: Red Hills; WC (Gas) Pool No.: 86300

BLM 100K Map: Jal Operator: Cimarex Co. of Colorado OGRID: 162683 Contact: K. Haverar

COMPLIANCE RULE 5.9: Total Wells: 1028 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 10/21/14

WELL FILE REVIEWED Current Status: Depleted Wolfcamp producer - Shut in

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: Sonic / Net / Resist / CBI

Planned Rehab Work to Well: Lines cut & pulled - SWD to be above / use existing 4 1/2" - squeeze to surface - CIBP

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned or Existing Surface	26/20	0 to 826	1450	Cir to surface
Planned or Existing Intern Prod	17 1/2 / 13 3/8	0 to 4877	5500	Cir to surface
Planned or Existing Intern Prod	12 1/4 / 9 9/8	Drilled to 13000 w/ 12 1/4" 0 to 13000	4350	[TS-7100] Cir to surface when re-entered
Planned or Existing Prod Liner	- 7 3/4	12683 to 16986	4350	TS-11000
Planned or Existing Liner	- 4 1/2	16287 - 17597	180	Calc - top of liner
Planned or Existing OH / PERF	Perfs - Above Decomur / WC	5374 to 7385	Int Length 2011	

Injection Lithostratigraphic Units:	Existing Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		> Base Salt 4650	
Confining Unit: Litho. Struc. Por.		Lamar	4868
Proposed Inj Interval TOP:	5374	Bell Canyon	4904
Proposed Inj Interval BOTTOM:	7385	Cherry Canyon	5963
Confining Unit: Litho. Struc. Por.		G L. Brushy Canyon	7680
Adjacent Unit: Litho. Struc. Por.		Bone Spring	9010

Completion/Operation Details:

Drilled TD 17597 PBDT 13/692
 NEW TD - NEW PBDT 7490 CIBP
 NEW Open Hole or NEW Perfs
 Tubing Size 3 1/2 in. Inter Coated? Yes
 Proposed Packer Depth 5124 ft
 Min. Packer Depth 5274 (100-ft limit)
 Proposed Max. Surface Press 1035 psi
 Admin. Inj. Press. 1025 1015 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? NA BLM Sec Ord WIPP Noticed? NA SALT SALADO T: 2475 B: 4680 CLIFF HOUSE NA

FRESH WATER: Aquifer Shallow alluvial / Denny Hills / Max Depth < 200 / 200 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Carlbad CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 0 FW Analysis

Disposal Fluid: Formation Source(s) Bone Spring Analysis? Yes On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 4500/7500 Protectable Waters? No Source: historical System: Closed or Open

HC Potential: Producing Interval? Shallow / Del in Area Formerly Producing? No Method: Logs / DST / P&A / Other 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 1 Horizontals? 0

Penetrating Wells: No. Active Wells 0 Num Repairs? 0 on which well(s)? NA Diagrams?

Penetrating Wells: No. P&A Wells 1 Num Repairs? * on which well(s)? * reduced top of interval by 200 ft Diagrams? NA

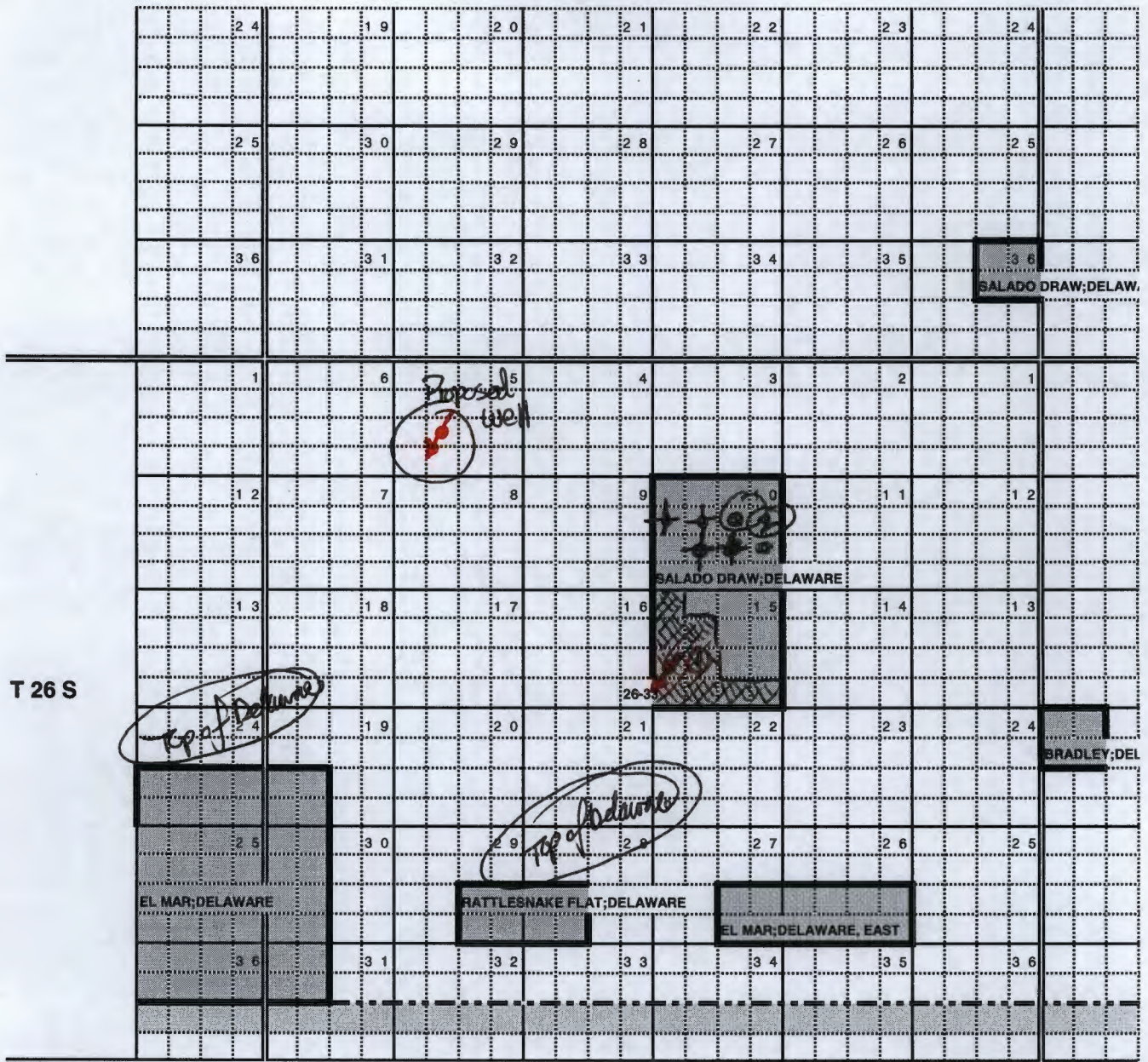
NOTICE: Newspaper Date 03/06/14 Mineral Owner BLM Surface Owner Private N. Date 03/06/14

RULE 26.7(A): Identified Tracts? Yes Affected Persons: - Cimarex only operator for internal N. Date NA

Permit Conditions: Issues: Injection interval > 1500 ft; HC potential; 1928 P&A'd well (TD 5006')

Add Permit Cond: Injection survey / HC swab / production test / reduce injection interval by 200 ft

Red Hills Unit #3



R 33 E

Saldo-Draw; Delaware

>16 wells - 7 P&A'd / 8 Producers ① Injector

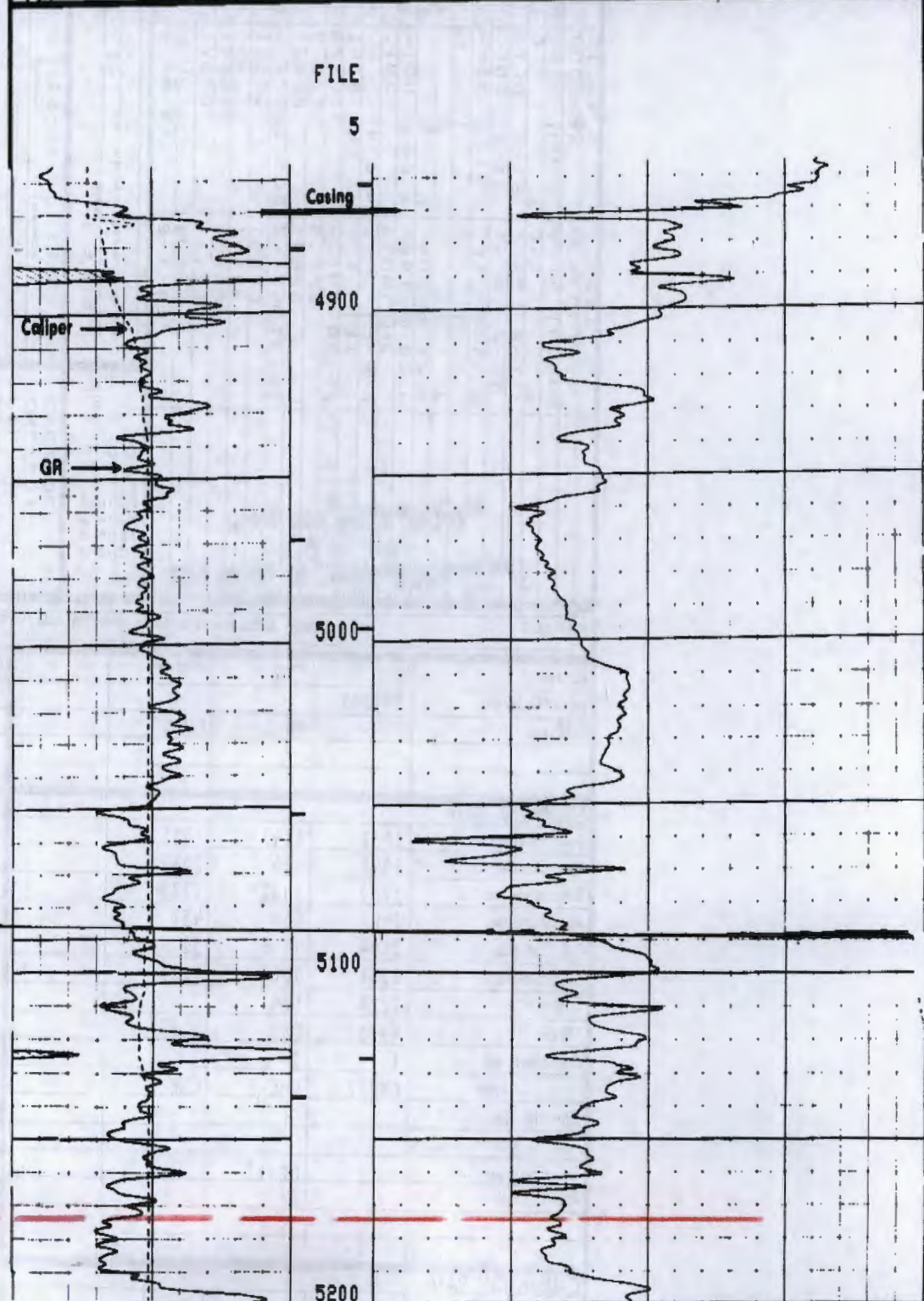
② Closest Producer: 30-025-08407
 Perf'd: 5076' to 5011'
 Surface/G.L.: 3339'
 Ramsay Production TD: 5124'
 07/2014: 96 BO & 146 BW - 31 days
 3BOPD with 5BOPD

Interval: 5002' to 5085'
 Sec: 15- "Continental Federal-Ammons
 Mader Fee Coop Leasehold
 WF Project"
 Ramsay Prod

GR	BKG. CPS	SEE CAL	SEE CAL	SEE CAL	
	Source CPS	FILM	FILM	FILM	
	Tc Sec				
					Velocity (ft/sec) = 1,000,000
					Interval Transit Time (microseconds per foot)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

GR (GAPI)			DT (US/F)
100.00	200.00	Run 1	
CAL (IN)			
10.000	20.000		160.00
GR (GAPI)			DT (US/F)
0.0	100.00		100.00
			40.000



Applicant's
Top of Int: 5174

K-6-T26S-R33E

1980FS 2180FW

UNION OIL CO OF CALIFORNIA

RED HILLS UNIT #3

30-025-28144

Company of California
it #3
nberger

SOLE COMPENSATED SONIC LOG

COMPANY UNION OIL COMPANY OF

CALIFORNIA

WELL _____ RED HILLS UNIT #3

FIELD _____ WILDCAT _____

COUNTY LEA STATE NEW MEXICO

1980' FSL & 2180' FWL,

API SERIAL NO.	SEC.	TWP	RANGE
	5	26-S	33-E

Other Services:
DLL/MSFL-DI
FIL
CNL/LDT-
CNL/FDC

Permanent Datum: G. L.; Elev.: 3349
Log Measured From K. B. 34 Ft. Above Perm. Datum
Drilling Measured From K. B.

Elev.: K.B. 3383
D.F. 3382
G.L. 3349

Date	5-27-83	7-15-83	8-1-83
Run No.	ONE	TWO	THREE
Depth-Driller	13000	17010	17597
Depth-Logger (Schl.)	13000	16985	17592
Btm. Log Interval	12986	16972	17586
Top Log Interval	4870	13000	16980
Casing-Driller	13 3/8 @ 4880	9 5/8 @ 13000	7 3/4 @ 16986
Casing-Logger	4870	13000	16980
Bit Size	12 1/4	8 1/2	6 1/2
Type Fluid in Hole	CUT BRINE	EZ OIL	BRINE DRISPAK STARCH
Dens.	9	14.6	9.2
Visc.	26	43	31
pH	10.5		11
Fluid Loss	ml	6.2 ml	9.8 ml
Source of Sample	FLOWLINE	CIRC.	FLOWLINE
Rm @ Meas. Temp.	.078 @ 70 °F	>100 @ 78 °F	.061 @ 82 °F
Rmf @ Meas. Temp.	.078 @ 70 °F	@ °F	.045 @ 82 °F
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F
Source: Rmf	M	M	C
Rm @ BHT	.026 @ 226 °F	>100 @ 235 °F	.02 @ 251 °F
Circulation Stopped	0300	0300 7-14	1500 7-31
Logger on Bottom	2000	0130 7-15	2330 8-1
Max. Rec. Temp.	226 °F	235 °F	251 °F
Equip.	8279	8069	8279
Location	HOBBS	HOBBS	HOBBS
Recorded By	O'SULLIVAN	MOBARAK	O'SULLIVAN
Witnessed By	O'HARE	SITES	EISERT

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

SCALE CHANGES

RUN NO.		ONE		TWO		THREE		SCALE CHANGES			
Service Order No.		399702		FULL		FULL		Type Log	Depth	Scale Up Hole	Scale Down Hole
Fluid Level											
EQUIPMENT DATA											
Sonic Panel No.		1033		1347		1035					
Sonic Cart No.		2045		126		2045					
Sonic Sonde No.		1292		1482		1282					

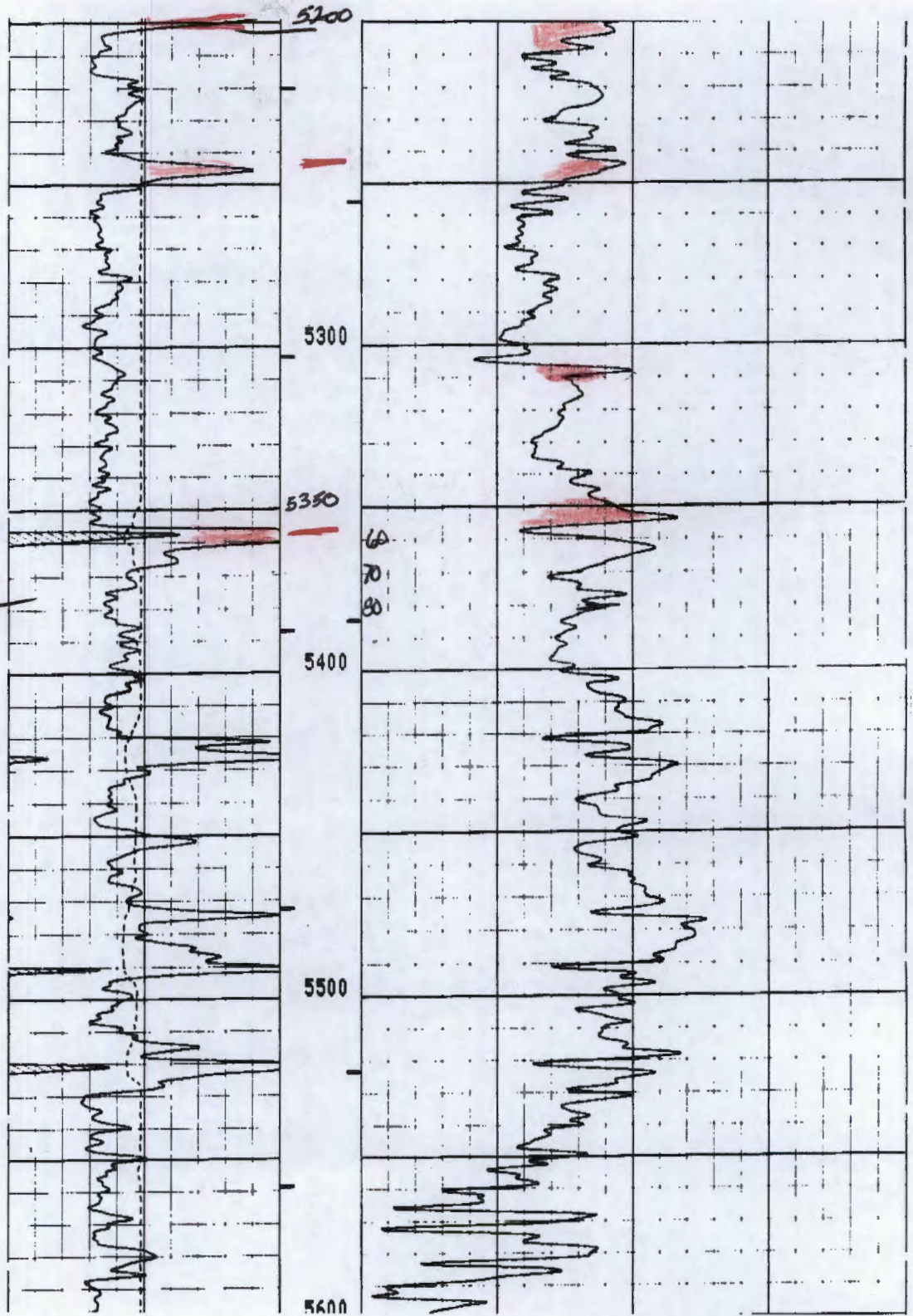
LOGGING DATA

LOGGING DATA																
	G.R. Corr. No.	G.R. Panel No.	Caliper No.	TR No.	Centralizers; No.	Type	Standoffs; No.	Type	Time Const.-Sec.	Speed - FPM	Parosity Selectors				Depth	
											ΔI_m	ΔI_r	Cp	ϕ Scale	From	To
	2184	2110	206	1231							50					
				1231							1231					
			684	1224												
			CSU	4933							431					
			2	1												
			CME-7	CME-7							CME-7					
			DC=1'													
			50													

REMARKS

CALIBRATION DATA

+200'
5374



Production Summary Report

API: 30-025-28144

RED HILLS UNIT #003

Printed On: Tuesday, September 09 2014

Year	Pool	Month	Production				Injection				
			Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
1992 Cum	[83580] RED HILLS;DEVONIAN (GAS)	Dec	480	689251	60071	99	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Jan	7	614	91	31	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Feb	3	442	16	28	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Mar	1	426	9	31	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Apr	1	384	6	29	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	May	1	307	3	31	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Jun	3	412	6	30	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Jul	2	342	9	31	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Aug	0	320	9	31	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Sep	0	199	9	15	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Oct	0	2711	215	28	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Nov	0	1405	158	21	0	0	0	0	0
1993	[83580] RED HILLS;DEVONIAN (GAS)	Dec	0	377	0	10	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	Jan	0	60	0	7	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	Feb	0	125	0	7	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	Mar	0	389	0	1	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	Apr	0	86	0	6	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	May	0	28	0	3	0	0	0	0	0
1994	[83560] RED HILLS;PENN (GAS)	Jun	0	124	0	3	0	0	0	0	0
1995	[83560] RED HILLS;PENN (GAS)	Jan	0	0	0	1	0	0	0	0	0
1995	[83560] RED HILLS;PENN (GAS)	Feb	0	0	0	0	0	0	0	0	0
1995	[83560] RED HILLS;PENN (GAS)	Mar	0	0	0	0	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	345	1482	92	24	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	May	223	565	30	28	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	267	92	4	22	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	487	41	24	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	132	124	70	24	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	95	75	62	29	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	98	286	80	29	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	68	192	9	30	0	0	0	0	0
1995	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	79	385	59	26	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	37	314	0	24	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	7	14	0	2	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	78	7786	0	26	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	39	91	0	29	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	May	85	106	0	31	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	103	128	0	30	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	26	104	0	31	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	70	140	0	31	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	42	124	116	30	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	41	103	0	30	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	80	71	0	24	0	0	0	0	0
1996	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	43	87	82	22	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	55	109	61	29	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	25	60	19	28	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	59	690	18	31	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	37	61	3	30	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	May	32	47	0	31	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	9	54	0	30	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	22	102	75	31	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	25	17	35	31	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	17	28	36	30	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	75	0	31	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	160	0	30	0	0	0	0	0
1997	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	152	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	6	155	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	174	0	28	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	168	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	148	0	30	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	143	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	121	0	30	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	112	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	113	0	31	0	0	0	0	0

Production Summary Report

API: 30-025-28144

RED HILLS UNIT #003

Printed On: Tuesday, September 09 2014

Year	Pool	Production					Injection				
		Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	2	136	0	30	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	138	0	31	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	169	216	30	0	0	0	0	0
1998	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	181	0	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	169	250	38	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	22	92	14	28	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	2	93	0	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	27	81	14	13	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	May	39	80	8598	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	8	88	33	30	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	91	33	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	5	76	14	31	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	53	22	30	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	8	63	12	27	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	5	75	16	30	0	0	0	0	0
1999	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	25	125	8	17	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	11	155	18	31	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	7	142	9	29	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	3	152	0	27	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	147	0	30	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	145	0	31	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	33	126	0	30	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	41	84	30	18	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	21	2314	132	9	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	2452	0	19	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	1903	0	31	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	1510	0	30	0	0	0	0	0
2000	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	1507	0	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	1121	2	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	911	0	28	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	889	0	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	625	0	30	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	5286	0	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	30	412	20	30	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	1	1802	2	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	1	1419	0	31	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	805	0	30	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	5	956	5	26	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	838	0	30	0	0	0	0	0
2001	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	721	0	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	487	0	16	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	838	0	28	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	1087	0	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	2	1558	2	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	May	18	1164	35789	31	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	17	975	0	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	1053	0	31	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	1	1048	0	31	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	1017	0	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	783	0	31	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	718	0	30	0	0	0	0	0
2002	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	621	18	31	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	635	0	28	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	544	0	27	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	528	0	31	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	326	0	26	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	271	0	27	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	2	352	0	30	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	274	0	31	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	256	0	28	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	261	0	30	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	26	588	32	31	0	0	0	0	0
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	914	0	30	0	0	0	0	0

Production Summary Report

API: 30-025-28144

RED HILLS UNIT #003

Printed On: Tuesday, September 09 2014

Year	Pool	Month	Production				Injection				
			Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2003	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	7	622	0	24	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	797	0	27	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	931	0	29	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	11	1355	15	31	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	1751	0	30	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	1850	0	31	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	1449	0	28	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	1596	0	28	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	1157	0	28	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	1284	0	25	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	953	0	25	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	637	0	16	0	0	0	0	0
2004	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	337	0	12	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	25	961	8	28	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	785	0	28	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	5	877	0	28	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	698	0	30	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	May	18	864	5	31	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	11	989	0	29	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	774	0	28	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	21	903	17	23	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	7	861	5	29	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	1098	0	27	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	906	0	25	0	0	0	0	0
2005	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	1348	0	27	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	61	1000	0	31	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	863	0	27	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	608	2	29	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	1022	0	28	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	937	8	31	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	347	0	26	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	1459	0	18	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	1	1028	0	31	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	846	0	30	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	968	0	31	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	669	0	23	0	0	0	0	0
2006	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	958	0	28	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	764	0	31	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	749	0	25	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	764	0	31	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	1144	0	30	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	1527	0	31	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	1341	0	30	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	1041	0	31	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	1631	0	31	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	2040	0	30	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	1097	0	25	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	1596	0	30	0	0	0	0	0
2007	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	1051	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	1789	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	1351	0	29	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	1190	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	925	0	30	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	1250	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	923	0	30	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	1069	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	900	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	944	0	30	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	877	0	31	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	747	0	30	0	0	0	0	0
2008	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	482	0	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	100	759	75	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	195	0	28	0	0	0	0	0

Printed On: Tuesday, September 09 2014

		Production					Injection				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	170	0	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	130	0	30	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	106	0	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	58	0	30	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	87	0	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	47	0	31	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	17	0	30	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	97	0	30	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	8	0	16	0	0	0	0	0
2009	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	10	0	30	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	20	0	29	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	6	0	25	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	21	0	31	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	18	0	30	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	0	0	0	0	0	0	0	0
2010	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	57	0	5	1	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	11	0	1	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	19	0	28	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	28	0	31	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	70	0	30	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	49	0	17	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	52	0	30	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	8	0	4	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	0	0	0	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	12	0	2	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	6	0	2	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	10	0	9	0	0	0	0	0
2011	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	3	0	1	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	0	0	0	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	0	0	0	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	3	0	5	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	2	0	11	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	13	0	11	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	6	0	4	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	2	0	8	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	5	0	25	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	57	6	0	30	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	9	0	31	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	6	0	30	0	0	0	0	0
2012	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Jun	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Jul	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Aug	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Sep	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Oct	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Nov	0	0	0	0	0	0	0	0	0
2013	[83600] RED HILLS;WOLFCAMP (GAS)	Dec	0	0	0	0	0	0	0	0	0
2014	[83600] RED HILLS;WOLFCAMP (GAS)	Jan	0	0	0	0	0	0	0	0	0
2014	[83600] RED HILLS;WOLFCAMP (GAS)	Feb	0	0	0	0	0	0	0	0	0
2014	[83600] RED HILLS;WOLFCAMP (GAS)	Mar	0	0	0	0	0	0	0	0	0
2014	[83600] RED HILLS;WOLFCAMP (GAS)	Apr	0	0	0	0	0	0	0	0	0
2014	[83600] RED HILLS;WOLFCAMP (GAS)	May	0	0	0	0	0	0	0	0	0

Printed On: Tuesday, September 09 2014

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