



Amanda Trujillo
Senior Environmental Coordinator

February 13, 2014

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Mr. Bratcher,

During the completion of the Falabella 31 Fee #1H (30-015-40814), crews discovered a surface release at an adjacent plugged well, Metcalf LT Com #1 (30-015-23025). The well was formally plugged by Yates Petroleum. COG Operating LLC re-entered the well and re-plugged in accordance with OCD rule 19.15.25 NMAC. The impacted area was addressed per OCD Guidelines Leaks, Spills and Releases (1993).

Sampling analysis indicates all RRALs, outlined in the previously mentioned guidelines, recommended for a site ranking of zero have been met. At this time COG Operating LLC is requesting closure.

Sincerely,

Amanda Trujillo

Enclosed

- (1) C-141 Final
- (2) C-141 Initial
- (3) Site Diagram
- (4) Area Map
- (5) Laboratory Analysis

CORPORATE ADDRESS
One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS
Concho West | 2208 Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.746.2096

Figures

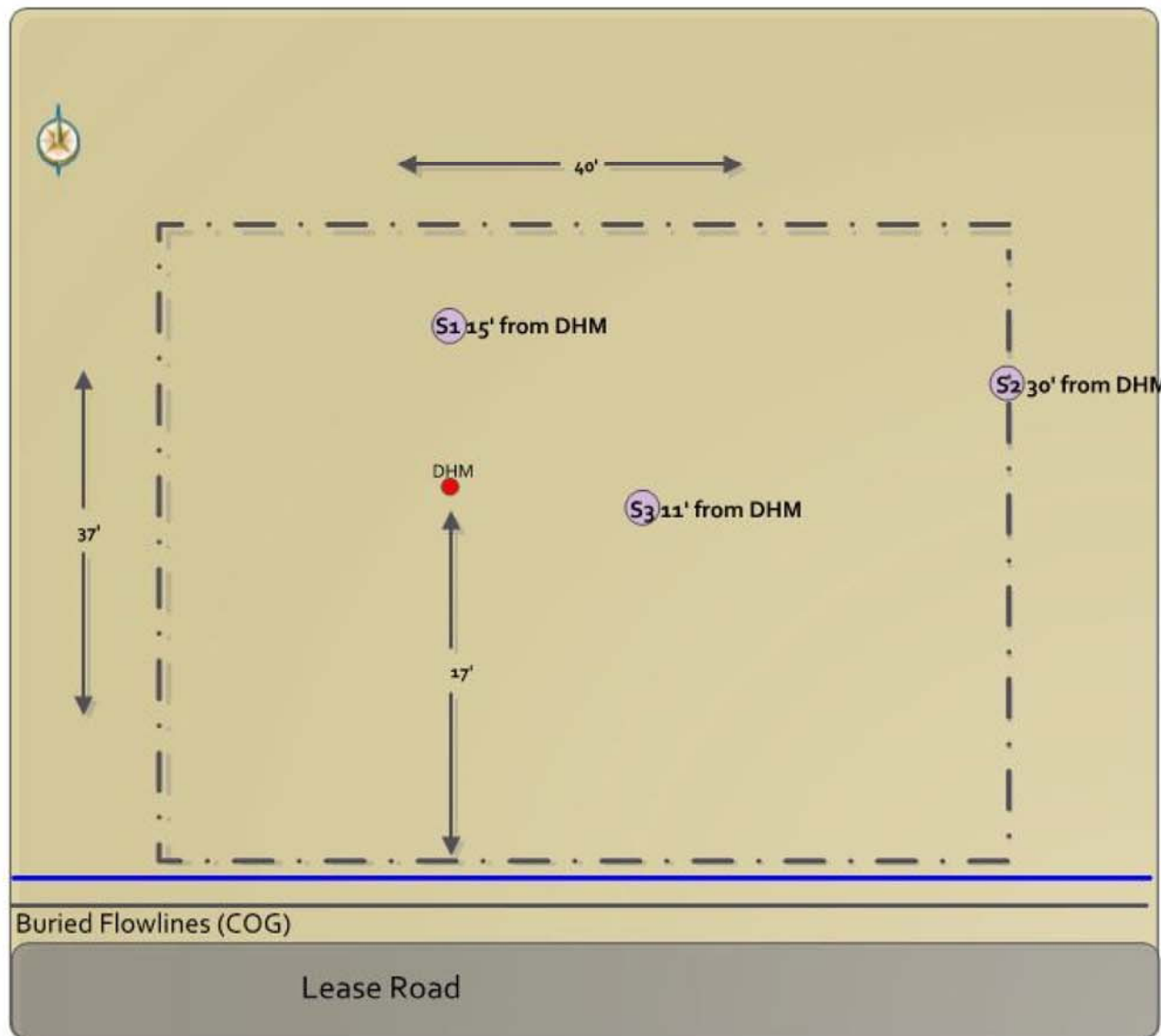


Metcalf LT Com #1



February 13, 2014

Metcalf LT Com #1



Site Ranking: Zero

Depth to GW per SEO: 270'

S1	DRO	GRO	TPH	BTEX	
2'	< 10.0	< 10.0	< 10.0	< 0.300	040
4'	< 50.0	< 50.0	< 50.0	< 0.300	224
6'	< 10.0	< 10.0	< 10.0	< 0.300	704
S2	DRO	GRO	TPH	BTEX	CI-
1.5'	< 10.0	< 10.0	< 10.0	< 0.300	1460
4'	< 10.0	< 10.0	< 10.0	< 0.300	1250
6'	< 10.0	< 10.0	< 10.0	< 0.300	1170
8'	< 10.0	< 10.0	< 10.0	< 0.300	960
S3	DRO	GRO	TPH	BTEX	CI-
2'	< 10.0	< 10.0	< 10.0	< 0.300	1310
4'	< 10.0	< 10.0	< 10.0	< 0.300	928
6'	< 10.0	< 10.0	< 10.0	< 0.300	890
8'	< 10.0	< 10.0	< 10.0	< 0.300	1640
10'	< 10.0	< 10.0	< 10.0	< 0.300	1340

Bold values exceed RRALs per NMOCD Guidelines (1993)

Tables

Table 1
COG Operating LLC.
MetCalf LT Com #1
Eddy County, New Mexico

Sample ID	Sample Depth (ft)	Sample Date	TPH (mg/kg)			Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	Total			
S1	2	1/24/2014	<50.0	<50.0	<50.0	<0.05	<0.30	1,040
S1	4	1/24/2014	<50.0	<50.0	<50.0	<0.05	<0.30	224
S1	6	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	704
S2	18"	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,460
S2	4	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,250
S2	6	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,170
S2	8	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	960
S3	2	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,310
S3	4	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	928
S3	6	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	896
S3	8	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,640
S3	10	1/24/2014	<10.0	<10.0	<10.0	<0.05	<0.30	1,340
S-4	4	1/24/2014	11	301	312	<0.05	0.073	2,000
S-4	6	1/24/2014	<10.0	123	123	<0.05	<0.300	1,760
S-4	10	1/24/2014	<10.0	20.1	20.1	<0.05	<0.300	1,680
S-4	12	1/24/2014	<10.0	11.3	11.3	<0.05	<0.300	1,840

(-) Not Analyzed

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
20 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED

AUG 27 2013

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form.

Release Notification and Corrective Action

JMW 1324632667

Name of Company		COG OPERATING LLC <i>229137</i>	Contact	Robert McNeill
Address		600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name		Falabella 31 Fee #001H	Facility Type	Well
Surface Owner		Private	Mineral Owner	
			Lease No. (API#)	30-015-40814

OPERATOR ☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	31	18S	26E					Eddy

Latitude 32.69764

Longitude 104.42860

NATURE OF RELEASE

Type of Release	Completion fluid	Volume of Release	2340bbls	Volume Recovered	2210bbls
Source of Release	Metcalf LT Com #1	Date and Hour of Occurrence	8-12-2013	Date and Hour of Discovery	08-12-2013 08:30am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Brucher - NMOCD		
By Whom?	Robert McNeill	Date and Hour	08-12-2013 08:30am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

* A Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

During the completion of the Falabella 31 Fee #1H well, discovered surface release at an adjacent plugged well, Metcalf LT Com #1, formerly plugged by Yates Petroleum. Will re-enter and re-plug well.

Describe Area Affected and Cleanup Action Taken.*

A containment berm was constructed around the plugged well. A 20' x 30' area was affected. To date recovered 2210bbls of fluid.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Robert Grubbs Jr.</i>		OIL CONSERVATION DIVISION	
Printed Name:	Robert Grubbs Jr.	Approved by District Supervisor:	Signed By <i>Mike Brucher</i>
Title:	Senior Environmental Coordinator	Approval Date:	SEP 03 2013
E-mail Address:	rgrubbs@concho.com	Expiration Date:	
Date:	08-26-2013	Phone:	432-661-6601
* Attach Additional Sheets If Necessary		Conditions of Approval:	Attached <input type="checkbox"/>

Remediation per OCD Rule &
Guidelines. SUBMIT REMEDIATION
PROPOSAL NO LATER THAN:

October 03, 2013

2RP-1884

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	COG OPERATING LLC	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Falabella 31 Fee #001H	Facility Type	Well
Surface Owner	Private	Mineral Owner	
		Lease No. (API#)	30-015-40814

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	31	18S	26E					Eddy

Latitude 32.69764

Longitude 104.42860

NATURE OF RELEASE

Type of Release	Completion fluid	Volume of Release	2340bbls	Volume Recovered	2210bbls
Source of Release	Metcalf LT Com #1	Date and Hour of Occurrence	8-12-2013	Date and Hour of Discovery	08-12-2013 08:30am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher - NMOCD		
By Whom?	Robert McNeill	Date and Hour	08-12-2013 08:30am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

During the completion of the Falabella 31 Fee #1H well, discovered surface release at an adjacent plugged well, Metcalf LT Com #1, formerly plugged by Yates Petroleum. Will re-enter and re-plug well.

Describe Area Affected and Cleanup Action Taken.*

A containment berm was constructed around the plugged well. A 20' x 30' area was affected. To date recovered 2210bbls of fluid.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Amanda Trujillo	Approved by District Supervisor:	<i>Ashley Maxwell</i>
Title:	Senior Environmental Coordinator	Approval Date:	5/8/2023
E-mail Address:	atrujillo@concho.com	Expiration Date:	
Date: 2/13/14	Phone: 505-350-1336	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Appendix B



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 03975			ED	3	1	3	36	18S	25E	551942	3618353*	430	270	160

Average Depth to Water: **270 feet**

Minimum Depth: **270 feet**

Maximum Depth: **270 feet**

Record Count: 1

PLSS Search:

Section(s): 36

Township: 18S

Range: 25E

*UTM location was derived from PLSS - see Help

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.

2/13/14 12:13 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 08999			ED	4	2	1	31	18S	26E	554138	3619158*	222	80	142

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

Record Count: 1

PLSS Search:

Section(s): 31

Township: 18S

Range: 26E

*UTM location was derived from PLSS - see Help

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.

1/10/14 2:24 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Appendix C

Plugging Report Performed by COG 2013

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

RECEIVED
 SEP 05 2013

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103

Revised August 1, 2011

OIL CONSERVATION DIVISION

220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO.

30-015-23025

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Metcalf LT Com

8. Well Number

1

9. OGRID Number

229137

10. Pool name or Wildcat

Penasco Draw; San Andres Yeso

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 ☐

2. Name of Operator

COG Operating LLC

3. Address of Operator

2208 W. Main Street, Artesia, NM 88210

4. Well Location

Unit Letter M : 660 feet from the South line and 1100 feet from the West line
 Section 31 Township 18S Range 26E NMPM Eddy County

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

3437' GR

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 COMPL ☐
 DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☒
 CASING/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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Plugged well as follows:

8/23/13 to 8/29/13 Drilled out cmt plug 0-450'. Tag cmt plug @ 800' & drilled out plug 800-1110'. Cleaned out to 2260'. Found free point @ 2220'. Jet cut 5 1/2" csg @ 2050' & POOH w/2050' of csg. RIH to 2100' (50' into 5 1/2" csg stub) & spotted 150 sx Class C. Tagged plug @ 1652' & spotted 150 sx Class C @ 1652'. Tagged plug @ 1329' & spotted 170 sx Class C @ 1329'. Tagged cmt @ 941'. Set CIBP @ 933'. Tested 8 5/8" csg to 500 psi for 30 mins. Tagged CIBP @ 933' & spotted 125 sx Class C @ 933'. Tagged cmt @ 425' & spotted 125 sx Class C from 425' to surface. Topped csg off w/cmt, weld on plate & installed dry-hole marker.

File Current C103 P&A
 for final inspection

Well Plugged & Abandoned 8/29/13.

Approved for plugging of well bore only.
 Liability under bond is retained pending receipt
 of C-103 (Subsequent Report of Well Plugging)
 which may be found at OCD Web Page under
 Form: www.emnrd.state.nm.us/ned.

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

SIGNATURE Stormi Davis

TITLE: Regulatory Analyst

DATE: 9/4/13

Type or print name: Stormi Davis

E-mail address: sdavis@concho.com

PHONE: (575) 748-6946

For State Use Only

APPROVED BY: R. Dade

TITLE: Asst. Supervisor

DATE: 9/12/2013

Conditions of Approval (if any):

* File Subsequent C-103

9W

Sequence of Events

7/13/2013	05:28 MST	Falabella 31 #1 Spud
7/26/2013	08:00 MST	Falabella 31 #1 Rig Release
08/02/2013		Open wet shoe @ 2,230 psig. Establish injection rate of 15 BPM @ 2,480 psig Perforate 1st stage. Total load to recover – 439 bbls
8/10/2013 (Saturday)	06:00 MST	Frac started
8/11/2013 (Sunday)	22:40 MST	Frac completed. (9) stages pumped as designed
8/12/2013 (Monday)	06:30 – 07:00 MST	Kill truck drive drove past Metcalf LT Com #1. Nothing out of the ordinary noticed
	08:30 MST	Kill truck driver noticed fluid coming from Metcalf LT Com #1 wellbore. Kill truck driver notified COG workover foreman that was on nearby location(Russell Hesser). Russell notified Mike Shannon & Rex Glenn in Artesia East office. Rex notified Midland office & called for vacuum trucks, backhoe & a dump truck to contain fluids. Metcalf flow estimated @ 75 bwph
	10:00 MST	Falabella 31 #1 started flowback to relieve pressure on Metcalf (204 BWPH, 980 psi on 30/64" choke)
	13:00-13:30 MST	Mike Allen (Yates) & Mike Brasher (OCD) arrive on Metcalf location simultaneously
8/13/2013 (Tuesday)	10:00 MST	Metcalf flow decreasing Estimated at 45 bwph
	22:00 MST	Metcalf flow estimated at 25 bwph
8/14/2013 (Wednesday)	06:00 MST	Falabella Flow 275 BWPH @ 225 psi w/o choke Metcalf flow estimated at 15-20 BWPH

Metcalf LT Com #1
30-015-23025
Yates Petroleum
31-18S-26E
660' FSL & 1100' FWL

Spud: 10/12/79

Permitted/Drilled to Morrow

Plugged back to San Andres/Yeso after unfavorable DST

13 3/8" @ 400'

8 5/8" @ 1,000' *See WBD for details*

5 1/2" @ 4,143'

1st zone attempted: 3,967'-4,016' (20 holes) Acidized/Swab. No oil/gas show. Set CIBP @ 3,900'.
Moved up hole

2nd zone attempted: 2,494'-2,682' (25) holes. Frac w/ 64,500 gal gel water & 95,000# sand

This was first and only producing interval

First production: 1/2/1980

Last production: 7/30/1996

Cum Production: 8.5 MBO

12 MMCF

6 MBW

P&A: 8/31/1996

- Set CIBP @ 2,450'
- (3) Class C cement plugs
 - 2,250'-2,450'
 - 950'-1,050'
 - Surface to 450'

Flow: First noticed on Monday (8/12) around 8:30 MST

Estimated at 75 BWPH

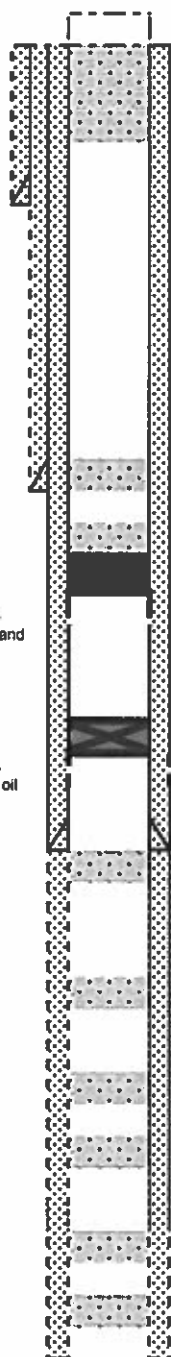
Currently estimated at 25 bwph

Metcalf LT Com #1

SPUD - 10/12/79
API 30-015-23025
Elevation - 3437' GL

31-1BS-26E
660' FSL & 1100' FWL

45 sx Class C from 450' - surface



13 3/8" 48# H-40 ST & C @ 400'. Cmt w 350 sx Class C 4% CaCl.
Circ 35 sxs to surface

8 5/8" 24# 8rd J-55 STC @ 1000'. Cmt w 250 sx Halliburton
Lite, 5#/sx gilsonite, 1/4# sx flocele 2% CaCl, 200 sx Class C
2% CaCl.

Circ 30 sx to surface

25 sx Class C neat 950'-1,050'

25 sx Class C neat 2,250'-2,450'

CIBP @ 2,450'

Perf 2,494'-2,682' 25 holes. 0.45" holes.
Frac w/ 64,500 gal gel water, 95,000# sand

Produced 1/1980- 7/1996

CIBP @ 3,900' w 35 sx cmt on top

Perf 3,967'-4,016' 20 holes. 0.50" holes.
Acidize w 1500 gal. Swabbed. No show oil
or gas

PBTD - 4200'

5 1/2" 14# J-55 STC @ 4143'. Cmt w 150 sx 50-50 POZ 2%
gel, 5/10% CFR-2, 475 sx Class C 5/10% CFR-2
Circ 15 sxs to surface

6th Cmt Plug 4,200'-4,300'. 35 sx Class H neat

5th Cmt Plug 5,700'-5,800'. 35 sx Class H neat

4th Cmt Plug 6,800'-6,900'. 35 sx Class H neat

3rd Cmt Plug 7,600'-7,700'. 35 sx Class H neat

2nd Cmt Plug 8,670'-8,770'. 35 sx Class H neat

1st Cmt Plug 9,000'-9,150'. 50 sx Class H neat

TD 9370'

1996 Yates Plugging Report and Well Information

REVERSE CHRONOLOGICAL ORDER

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

Submit 3 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1001 E. Division Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-015-23025
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Metcalf LT Com
8. Well No. 1
9. Pool name or Wildcat Penasco Draw San Andres Yaso

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator YATES PETROLEUM CORPORATION	
3. Address of Operator 105 South 4th St., Artesia, NM 88210	
4. Well Location Unit Letter <u>4M</u> : <u>660</u> Feet From The <u>South</u> Line and <u>1100</u> Feet From The <u>West</u> Line Section <u>31</u> Township <u>18S</u> Range <u>26E</u> NMPM <u>Eddy</u> County	
10. Elevation (Show whether DF, NKB, RT, CR, etc.) 3437' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. 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.

8-31-9-3-96 - Moved in and rigged up pulling unit. POOH with rods and pump. Shut down for holiday. NOTE: Notified Ray Smith w/OCD-Artesia of commencing operations.
 9-4-96 - Nippled up BOP and wellhead. POOH with tubing, seating nipple, perforated sub and mud anchor. TIH with 5-1/2" CIBP on tubing and set CIBP at 2450'. Spotted 60 bbls plugging mud from 2450' to surface. Mixed and pumped 25 sacks Class C cement from 2450-2250' (in 5-1/2" casing). POOH with tubing to 1050'. Mixed and pumped 25 sacks Class C cement from 1050-950' (in 5-1/2" casing). Shut down for night. NOTE: Notified Ray Smith w/OCD-Artesia on cement plugs.
 9-5-96 - TIH with tubing and tagged top of cement at 835'. POOH with tubing to 450'. Mixed and pumped 45 sacks Class C cement from 450' to surface. POOH with tubing. Nippled down BOP. Rigged down pulling unit. Cleaned location and installed regulation abandonment marker. PLUGGED AND ABANDONED - FINAL REPORT. Plugging completed 9-4-96.

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

SIGNATURE Rusty Klein TITLE Operations Technician DATE Sept. 5, 1996

TYPE OR PRINT NAME Rusty Klein

TELEPHONE NO. 505/748-1471

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE 10/29/96

CONDITIONS OF APPROVAL, IF ANY:

N MEXICO OIL CONSERVATION DIVISION
P.O. DRAWER DD
ARTESIA, NEW MEXICO 88210

DATE Sept 17, 1996

Yates Petroleum Corp

105 South 4th Street

Artesia, NM 88210

Re: Plugging Reports

~~0000000000~~ Ken Beardemphl

Form C-103 Report of Plugging for your Metcalf LT Com #1 Lot 4 31-18-26
Lease Well No. Ut. S-T-R

cannot be approved until an N.M.O.C.D. representative has made an inspection of the location and found it to be cleared to comply with Division Rules and Regulations. Please check each item in the space provided to indicate that the work has been done.

- (X) 1. All pits have been filled and leveled.
- (X) 2. Rat hole and cellar have been filled and leveled.
- (X) 3. A steel marker 4" in diameter and approximately 4' above mean ground level has been set in concrete. It must show the quarter-quarter section or unit designation, section, township and range numbers which have been permanently stenciled or welded on the marker.
- (X) 4. The location has been leveled as nearly as possible to original top ground contour and has been cleared of all junk and equipment.
- (X) 5. The dead men and tie downs have been cut and removed.
- (X) 6. If a one well lease or last remaining well on lease, the battery and burn pit locations have been leveled and cleared of all junk & equipment.

The above are minimum requirements and no plugging bond will be cancelled until all locations for plugged and abandoned wells have been inspected and Form C-103 approved.

When all of the work outlined above has been done, please notify this office by filling in the blank form below and returning this letter to us so that our representative will not have to make more than one trip to the location.

OIL CONSERVATION DIVISION

Ray Smith
OIL AND GAS INSPECTOR

FILL IN BELOW AND RETURN

I certify that the above work has been done and the above mentioned lease is ready for your inspection and approval.

Ken Beardemphl
NAME

Landman 10-15-96
TITLE

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-015-23025
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Metcalf LT Com
8. Well No. 1
9. Pool name or Wildcat Penasco Draw San Andres Yeso

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

1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	2. Name of Operator YATES PETROLEUM CORPORATION
3. Address of Operator 105 South 4th St., Artesia, NM 88210	4. Well Location Unit Letter <u>M</u> : <u>660</u> Feet From The <u>South</u> Line and <u>1100</u> Feet From The <u>West</u> Line Section <u>31</u> Township <u>18S</u> Range <u>26E</u> NMFM <u>Eddy</u> County (10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3437' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER: <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

12. 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.

Propose to plug and abandon as follows:

1. Set CIBP at 2450' and cap with 35' of cement.
2. Spot a 100' cement plug across the 8-5/8" casing shoe at 1000'.
3. Spot a 100' cement plug across the 13-3/8" casing shoe at 400'.
4. Spot a 10 sack cement plug at surface.
5. Install regulation abandonment marker.

RECEIVED

JUL 11 1996

OIL CON. DIV.
P.O. 2

NOTIFY OCD-ARTESIA (505-748-1283) 24 HOURS PRIOR TO COMMENCING PLUGGING OPERATIONS

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

SIGNATURE Rusty Klein TITLE Operations Technician DATE July 10, 1996

TYPE OR PRINT NAME Rusty Klein TELEPHONE NO. 505/748-1471

(This space for State Use)

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

JUL 19 1996

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

COMPANY Gates Petroleum Corp.		PROPERTY NAME Metcalf "L1" Cen.	WELL NO. 7
DATE 7-17	LOCATION ULSTR M 31-18-26	FOOTAGE 660 S/1100 W	
API NO. 23025		POOL Permian Draw; SA-6050	

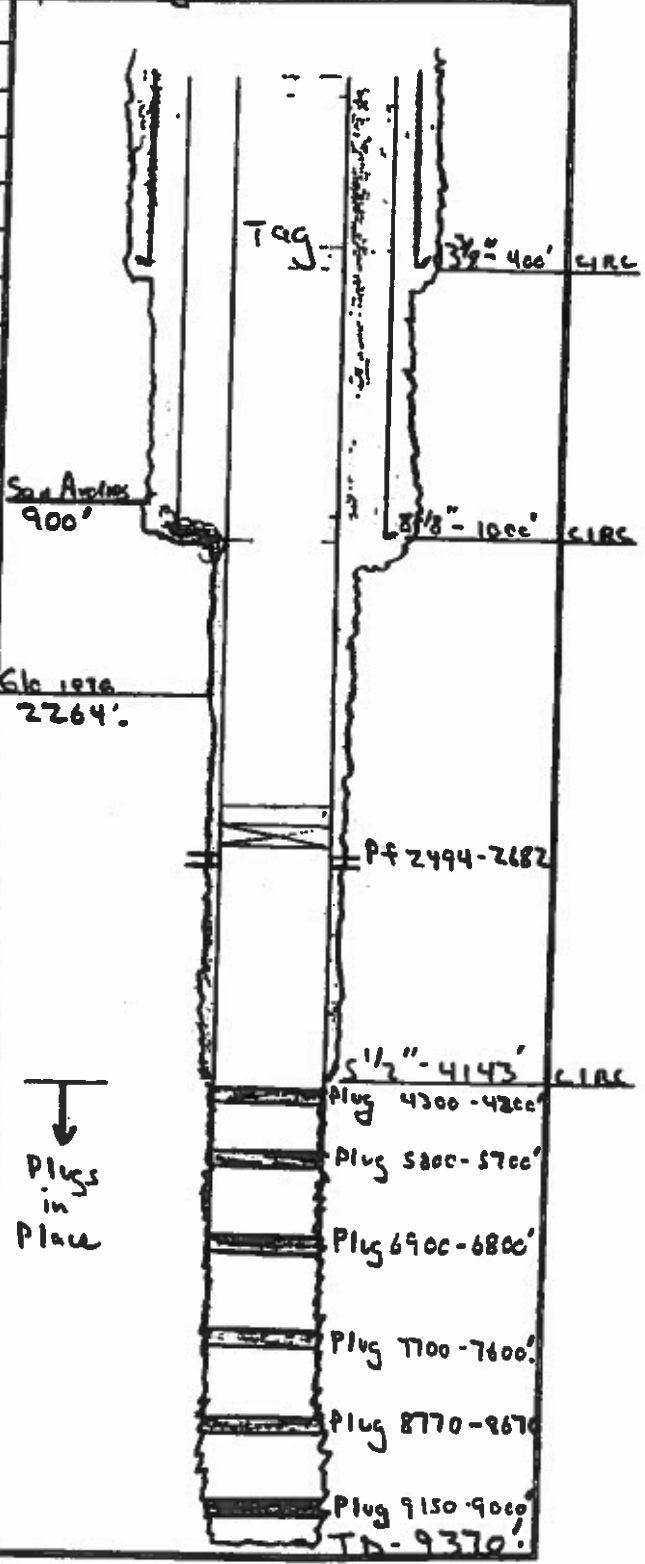
1. 61BP 2450' u 135' Conn.

2. 5 per 100' conn. plug. 100' at 1000'

3. 5 per 100' conn. plug. 100' at 400'

4. 5 per 100' conn. plug. 100' at 100'

Plugging Mtd. Between all Plug
OCD to Witness Tags.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPAR

OIL CONSERVATION DIVISION

~~Drauer DD~~ Artesia, NM

DISTRICT OFFICE #2

Jan. thru April, 1980

NO. 2098 NSUPPLEMENT TO THE OIL PRORATION SCHEDULEDATE 2-21-80PURPOSE ALLOWABLE ASSIGNMENT FOR A NEW WELL (N-S)

Effective 2-1-80, an allowable of 34 barrels of oil per day is hereby assigned to the Yates Petr. Corp.
Metcalf LT Com #1-M, 31-18-26, Penasco Draw SA Yaso Assoc. Pool.

Feb. total, 986 bbls
Mar. " , 1054 "
Apr. " , 1020 "

L - P
MP - P

WAG:jw

Yates Petr. Corp.

NCO

P--YPC

OIL CONSERVATION DIVISION

DISTRICT SUPERVISOR

DISTRIBUTION: WHITE - OPERATOR, YELLOW - TRANSPORTER, PINK - OCC SANTA FE, GOLD - OFFICE COPY, GREEN - EXTRA COPY.

NO. OF COPIES REQUIRED	
TRANSPORTER	OIL
AND OFFICE	GAS
TRANSPORTER	
AND OFFICE	
TRANSPORTER	
AND OFFICE	

**REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Item C-101
Supersedes C-101 and C-11
Effective 1-1-63

RECEIVED

JAN - 1980

Yates Petroleum Corporation

**O.C.D.
ARTESIA OFFICE**

207 South 4th Street- Artesia, NM

Reason(s) for filing (check proper box)

Change in Transporter of Oil ☒ ☐ ☐
 Change in Transporter of Gas ☐ ☐ ☐
 Change in Ownership ☐ ☐ ☐

Other (Please explain)

change of ownership give name
and address of previous owner

DESCRIPTION OF WELL AND LEASE

Well Name	Well No.	Well Name, Location, Formation	Kind of Lease	Lease No.
Metcalf LT Com	1	Undesignated	State, Federal or Fee	Fee
Location	Unit Letter	Feet From The	Line and	Feet From The
	M	660	South	1100
			Line and	West
	Line of Section	Township	Range	County
	31	18S	26E	Eddy

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Navajo Crude Oil Purchasing Company	P.O. Freeman Ave. - Artesia, NM 88210
Name of Authorized Transporter of Crude Oil <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Yates Petroleum Corporation	207 So. 4th Street-Artesia, NM 88210
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When approx.
Unit Sec. Twp. Rge.	
M 31 18S 26E	No 1-15-80

If this production is commingled with that from any other lease or pool, give commingling order number

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug back <input type="checkbox"/> Same hole, Unit, Re-vent.
Date Spudded	Total Depth
10-12-79	3370
Date Compl. Ready to Prod.	P.B.T.D.
1-2-80	3865'
Elevations (DF, RKB, RT, GR, etc.)	Tubing Depth
3437' GR	2479'
Perforations	Depth Casing Shoe
2494-2682'	4143'

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2"	13-3/8"	400'	350
12 1/4"	8-5/8"	1000'	450
7-7/8"	5 1/2"	4143'	625
	2-7/8"	2479'	

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top oil; able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
1-2-80	1-3-80	Pumping
Length of Test	Tubing Pressure	Casing Pressure
24	20	20
Actual Prod. During Test	Oil-Water	Water-Blk.
40	34	6
		29

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Blk. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Eddie M. Bradley
(Signature)

Engineer

(Title)

1-3-80

(Date)

OIL CONSERVATION COMMISSION

APPROVED FEB 21 1980
BY *W.A. Susselt*
SUPERVISOR, DISTRICT II
TITLE

This form is to be filed in compliance with RULE 1184.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the current tests taken on the well in accordance with RULE 111.
All portions of this form must be filled out completely for all wells on new and recompleted wells.
Fill out only Sections I, II, III, and VI for change of owner, well name or number, or transportation; other such change of well.

NO. OF COPIES RECEIVED	6
DISTRIBUTION	
SANTA FE	1
FILE	1
S.S.	2
AD OFFICE	
OPERATOR	hm

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
RECEIVED

5a. Indicate Type of Lease	State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Drill Agreement Date	
8. Name of Lease Owner	Metcalf "LT" Com
9. Well No.	1
10. Field and Pool, or District	Undesignated

a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐ C.D.
b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. PERFOR. ☐ OTHER ☐
Name of Operator
Yates Petroleum Corporation
Address of Operator
207 South Fourth Street - Artesia, NM 88210
Location of Well

RIT LETTER M LOCATED 660 FEET FROM THE South LINE AND 1100 FEET FROM
NE West LINE OF SEC. 31 TWP. 18S REG. 26E NADOM
5. Date Spudded 10-12-79 16. Date T.D. Reached 11-17-79 17. Date Compl. (Ready to Prod.) 1-2-80 18. Elevations (dip, Rkbl, RI, GR, etc.) 3437' GR 19. Elev. Casings (ft.)

9. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	24. Was Directional Survey Made
9370'	3865'		0-9370'	No
4. Producing Interval(s), of this completion -- Top, Bottom, Name				27. Was Well Cased
2494-2682' Yeso				No
6. Type Electric and Other Logs Run				
CNL/FDC; DLL				

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	400'	17-1/2"	350 sacks	
8-5/8"	24#	1000'	12-1/4"	450 sacks	
5-1/2"	14#	4143'	7-7/8"	625 sacks	

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	2479'	

1. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
2494-2682' w/25 .45" holes	DEPTH INTERVAL
	2494-2682'
	AMOUNT AND KIND MATERIAL USED
	Sand frac'd w/64500 gals treated gelled wtr, 95000# sand; 75000# 20-40 & 20000# 100 mesh

3. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
1-2-80		Pumping				Producing	
Rate of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	Oil - Pbl.	Gas - MCF	Water - Pbl.	Gas-Oil Ratio
1-3-80	24	2"		34	29	6	853/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Pbl.	Gas - MCF	Water - Pbl.	Oil Gravity - API (Corr.)	
20	20		34	29	6	39.0	

4. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed by
Vented	J. M. Morgan

5. List of Attachments
DST's & Plat
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
SIGNED Eddie M. Morgan TITLE Production Superintendent DATE 1-4-80

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any new well or the deepening of an existing well. It shall be accompanied by a copy of all electrical and mechanical logs run in the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured by the well owner. In the case of specially drilled wells, true vertical depth shall also be reported. For multiple completions, items 20 through 24 shall be reported for each zone. The form is to be filed in duplicate except on state land, where only one copy is required. See Rule 11-5.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon <u>7664</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>8254</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
R. Salt _____	T. Aluka <u>8707</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>900</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qizte _____
T. Glorieta <u>2264</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Dinobry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todillo _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>5684</u>	T. Morrow Clastics <u>9005</u>	T. Chinle _____	T. _____
T. Penn. _____	T. Chester <u>9311</u>	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.

No. 2, from _____ to _____ feet.

No. 3, from _____ to _____ feet.

No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	400	400	Surface and red bed				
400	821	421	Dolomite				
821	1000	179	Lime and sand				
1000	1121	121	Dolomite				
1121	2089	968	Dolomite and sand				
2089	3738	1649	Dolomite				
3738	4105	367	Dolomite and sand				
4105	4200	95	Lime and sand				
4200	4452	252	Lime and shale				
4452	4607	155	Dolomite and shale				
4607	9370	4763	Lime and shale				

Yates Petroleum Corporation
 Metcalf "LT" Com No. 1
 660' FSL & 1100' FWL of Section 31-18S-26E
 Eddy County, New Mexico

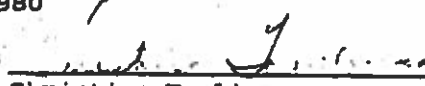
RECEIVED

FFB 21 1980

O. C. D.
ARTESIA OFFICEDEVIATION SURVEY

<u>Depth</u>	<u>Deviation</u>
400'	3/4 deg.
1000'	1 deg.
1514'	3/4 deg.
3040'	1 1/2 deg.
3510'	2 deg.
3819'	2 deg.
4065'	2 1/2 deg.
4240'	2 1/2 deg.
4378'	2-3/4 deg.
4563'	3-3/4 deg.
4625'	3-3/4 deg.
4688'	3 1/2 deg.
4785'	3-3/4 deg.
4874'	4 deg.
4935'	4 1/2 deg.
4966'	4 1/2 deg.
5029'	4 1/2 deg.
5096'	4 1/2 deg.
5153'	4 1/2 deg.
5245'	4 1/2 deg.
5369'	4 1/2 deg.
5462'	4 1/2 deg.
5587'	4 1/2 deg.
5743'	4 1/2 deg.
5869'	4-3/4 deg.
5960'	4-3/4 deg.
6053'	4 1/2 deg.
6177'	4 1/2 deg.
6367'	4 1/2 deg.
6579'	4 1/2 deg.
6858'	3 1/2 deg.
7078'	2 1/2 deg.
7573'	1-3/4 deg.
8395'	3/4 deg.
8491'	3/4 deg.
9070'	3/4 deg.

Sworn to this 20th day of February, 1980

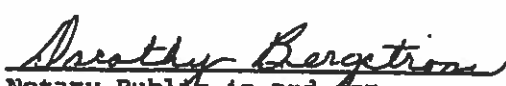

 Christine Tomlinson
 Geol. Secty for
 Yates Petroleum Corporation

STATE OF NEW MEXICO)
 : ss
 COUNTY OF EDDY)

The foregoing instrument was acknowledged before me this 20th day of February, 1980 by Christine Tomlinson agent for Yates Petroleum Corporation.

My Commission expires

7-21-83


 Notary Public in and for
 Eddy County, New Mexico

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator Yates Petroleum Corporation			Lease Metcalf LT Com		Well No. 1
Unit Letter M	Section 31	Township 18S	Range 26E	County Eddy	
Actual Footage Location of Well:					
Ground Level Elev. 3437'	Producing Formation Yeso	Pool <i>For use as a pool</i> Undesignated		Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or inkature marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

RECEIVED

JAN - 4 1980

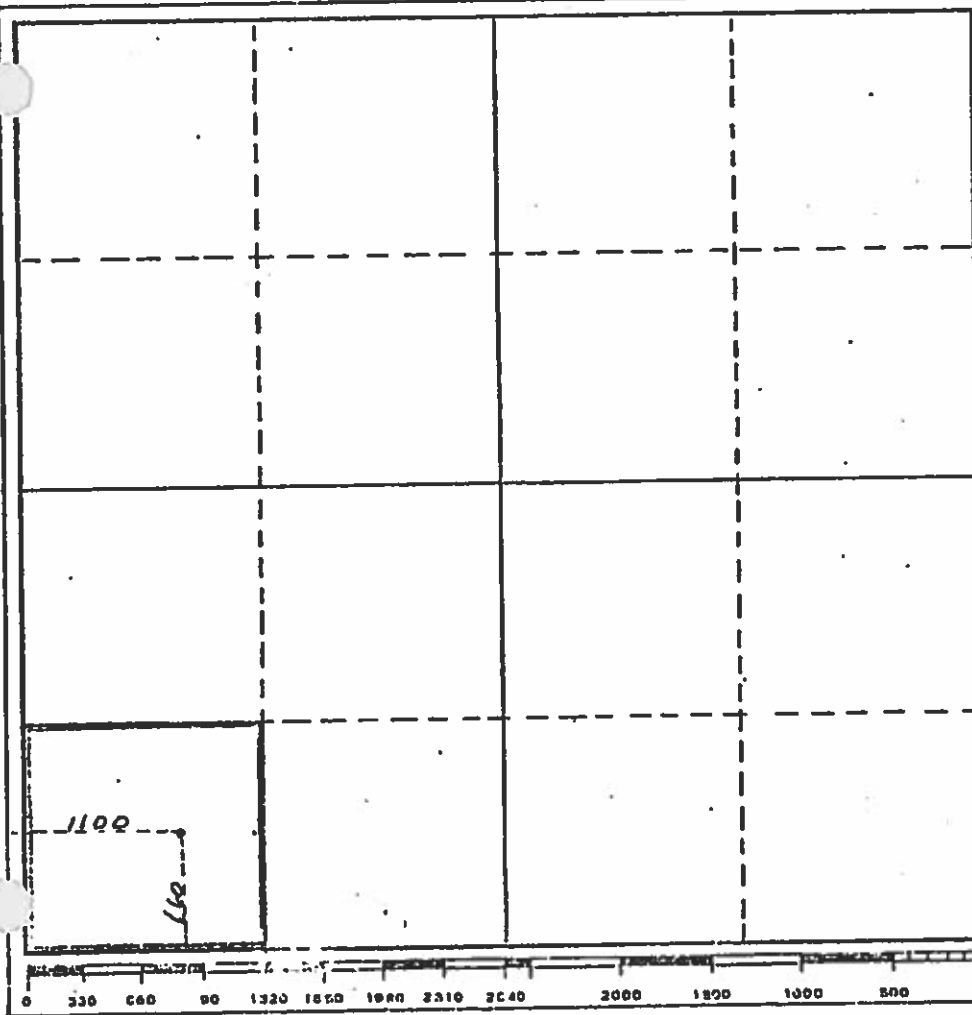
O.C.D.

ARTESIA OFFICE

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Eddie Mahfood

Name
Eddie Mahfood

Position
Engineer

Company
Yates Petroleum Corp.

Date
12-31-79

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 knowledge and belief.

Refer to original Plat

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

Yates Petroleum Corporation
Metcalf LT Com No. 1
660' FSL & 1100' FWL of Section 31-T18S-R-26E
Eddy County, New Mexico.

DRILL STEM TESTS

DST No. 1 - 7782-7890'. TO 30", SI 90", TO 60", SI 180". GTS 10" TSTM. Recovered 3' oil & 3567' CC SW. Sampler: 1600 cc black sulphur water and .04 cfg at 1000#. Pressures: IHP 3550-3550; IFP 278-752'; ISIP 3034; FFP 818-1554; FSIP 3034.

DST No. 2 - TO 30", SI 90", TO 60", SI 120". TO w/weak blo, increased to good blow, no GTS. Reopened w/ good blow. GTS in 10". TSTM. Recovered: 300' DM. Sampler: 100 psi, .2 cfg, 1500 cc fluid. BHT 159 degrees. Pressures: HP 3885-3885; IFP 108-108; ISIP 2802; FFP 80-80; FSIP 2651.

DST No. 3 - 9010-70'. TO 30", SI 90", TO 60", SI 120". Tool open w/good blow, increased to 2#. Reopened w/good blow, increased to 2#. No GTS. Recovered 183' drilling fluid, 1000' salt water. Sampler: 400 psi, .02 1450 cc salt water. BHT 170 degrees. Pressures: HP 4231-4231; IFP 95-316; ISIP 3664; FFP 332-585; FSIP 3677.

Appendix D



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 07, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: METCALF LT COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 2' (H400293-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/03/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/03/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/03/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 4' (H400293-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/03/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/03/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/03/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

TPH 8015M			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	01/31/2014	ND	212	106	200	5.16		
DRO >C10-C28	<50.0	50.0	01/31/2014	ND	208	104	200	2.46		

Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 6' (H400293-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/04/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/04/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/04/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 78.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 18" (H400293-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/04/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/04/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/04/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 4' (H400293-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/04/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/04/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/04/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 6' (H400293-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2014	ND	2.13	107	2.00	1.01	
Toluene*	<0.050	0.050	02/04/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	<0.050	0.050	02/04/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	<0.150	0.150	02/04/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	<0.300	0.300	02/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 8' (H400293-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 84.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 2' (H400293-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 78.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 4' (H400293-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 6' (H400293-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 88.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 8' (H400293-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 79.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 10' (H400293-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEx	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

TPH 8015M			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/31/2014	ND	212	106	200	5.16		
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	208	104	200	2.46		

Surrogate: 1-Chlorooctane 71.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Amanda Trujillo
Project Manager: Concho
Address: 2208 West Main
City: Artesia State: NM Zip: 88210
Phone #: (575) 748-6930 Fax #:
Project #: 1 Project Owner:
Project Name: Metcalf LT Cam #1
Project Location: 31-185-26E
Sample Name:
FOR LAB USE ONLY

PO #: AFE #4624
Company: Concho
Attn: Amanda Trujillo
Address: 2208 West Main
City: Artesia
State: NM Zip: 88210
Phone #: 575-748-6946
Fax #:

Address: 2208 West Main		Company: Concho	
City: Artesia		Attn: Amanda Trujillo	
State: NM Zip: 88216		Address: 2208 West Main	
Phone #: (575) 748-6930		City: Artesia	
Fax #: Project #:		State: NM Zip: 88216	
Project Name: Metcalf LT Com #1		Phone #: 575-748-6946	
Project Location: 31-185-26E		Fax #:	
Sampler Name:		FOR LAB USE ONLY	
Lab I.D.		Sample I.D.	
H400293		1	
1		SI 2'	
2		SI 4'	
3		SI 6'	
4		SI 18' <u>AC</u>	
5		SI 6'	
6		SI 6'	
7		SI 8'	
8		SI 33' <u>AC</u>	
9		SI 4'	
10		SI 6'	
(G)RAB OR (C)OMP.		# CONTAINERS	
GROUNDWATER		WASTEWATER	
SOIL		OIL	
SLUDGE		OTHER :	
ACID/BASE:		ICE / COOL	
OTHER :		DATE	
10/14		8:30	
CI		BTX	
TPH			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Amanda Trujillo Date: 10/14/14 Received By: Joel Munson

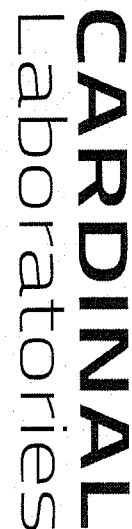
Relinquished By: Amanda Trujillo Date: 5:15 Received By: Joel Munson

Delivered By: (Circle One) UPS Bus Other -1.82
Sample - UPS - Bus - Other: -1.82

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

Please put CI on separate Report
atruijillo@concho.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 07, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: METCALF LT COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 2' (H400293-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	02/05/2014	ND	400	100	400	3.92	

Sample ID: S1 4' (H400293-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/05/2014	ND	400	100	400	3.92	

Sample ID: S1 6' (H400293-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S2 18" (H400293-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	02/07/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 4' (H400293-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S2 6' (H400293-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S2 8' (H400293-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	02/07/2014	ND	400	100	400	3.92		

Sample ID: S3 2' (H400293-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S3 4' (H400293-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	02/07/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: 1
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 6' (H400293-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	02/07/2014	ND	400	100	400	3.92		

Sample ID: S3 8' (H400293-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	02/07/2014	ND	400	100	400	3.92		

Sample ID: S3 10' (H400293-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	02/07/2014	ND	400	100	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

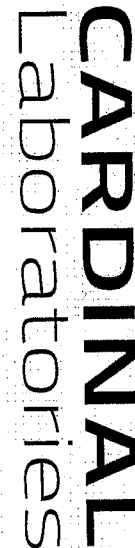
Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

atrwillb@concho.com

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:			

Please put CI on separate

+ Cardinal cannot accept verbal changes Please say written changes to (575) 302-2544



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Please fax written changes to (575) 393-2326 #54



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 07, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: METCALF LT COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: NOT GIVEN
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 4' (H400294-01)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	0.073	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.0	10.0	01/31/2014	ND	212	106	200	5.16	
DRO >C10-C28	301	10.0	01/31/2014	ND	208	104	200	2.46	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: NOT GIVEN
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 6' (H400294-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	123	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 81.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: NOT GIVEN
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 10' (H400294-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	20.1	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: NOT GIVEN
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 12' (H400294-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2014	ND	2.30	115	2.00	1.86	
Toluene*	<0.050	0.050	02/05/2014	ND	2.23	112	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/05/2014	ND	2.21	111	2.00	2.01	
Total Xylenes*	<0.150	0.150	02/05/2014	ND	6.38	106	6.00	1.74	
Total BTEX	<0.300	0.300	02/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/01/2014	ND	214	107	200	2.00	
DRO >C10-C28	11.3	10.0	02/01/2014	ND	214	107	200	2.09	

Surrogate: 1-Chlorooctane 82.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 07, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: METCALF LT COM #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received: 01/29/2014
 Reported: 02/07/2014
 Project Name: METCALF LT COM #1
 Project Number: NOT GIVEN
 Project Location: 31-18S-26E

Sampling Date: 01/24/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 4' (H400294-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S4 6' (H400294-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S4 10' (H400294-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/07/2014	ND	400	100	400	3.92	

Sample ID: S4 12' (H400294-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/07/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

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

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

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

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

CONDITIONS

Action 206383

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 206383
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	5/8/2023