

FORM INSP

Rev 05/11

**State of Colorado
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Inspection Date:
12/18/2013

Document Number:
670600184

Overall Inspection:
Unsatisfactory

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>233483</u>	<u>316957</u>	<u>NOTO, JOHN</u>	<input type="checkbox"/>	

Operator Information:

OGCC Operator Number: _____

Name of Operator: RITCHIE EXPLORATION INC

Address: P O BOX 783188

City: WICHITA State: KS Zip: 67278-

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED
- INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

Contact Information:

Contact Name	Phone	Email	Comment
LEONARD, MIKE		mike.leonard@state.co.us	
Niernberger, John	316-691-9500 off/95520	jniernberger@ritchie-exp.com	
AXELSON, JOHN		john.axelson@state.co.us	

Compliance Summary:

QtrQtr: NWNW Sec: 22 Twp: 3S Range: 54W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
03/07/2013	664000829	PR	PR	Unsatisfactory			No
11/15/2007	200122523	PR	SI	Satisfactory			No
10/18/2007	200121175	PR	PR	Unsatisfactory			Yes
03/12/2007	200106673	PR	PR	Satisfactory		Pass	No
11/13/2004	200062833	PR	PR	Satisfactory		Pass	No
04/06/2004	200052887	ES	PR	Satisfactory		Pass	No
07/16/2003	200041682	PR	PR	Satisfactory		Pass	No
02/25/2002	200024456	CO	SI	Unsatisfactory		Fail	Yes
06/21/2001	851496	ES	PR	Satisfactory		Pass	No
01/08/2001	882461	ES	PR	Unsatisfactory		Fail	Yes
08/05/1999	500158356	CO	PR			Pass	No
05/15/1998	500158355	PR	PR			Pass	No
04/14/1998	500158354	PR	PR			Fail	Yes
12/08/1995	500158353	PR	PR			Pass	
11/08/1995	500158352	PR	PR			Fail	Yes
09/26/1995	500158351	PR	PR			Fail	Yes

Inspector Comment:

Inspector Name: NOTO, JOHN

Inspection conducted in response to request by CDPHE to check the status of produced water discharge and to examine potentially damaged drainages below produced water pits. Wellhead not inspected. 200 bbl tank at former skim pit location. Production water was flowing into pits. No observed water discharge from facility. Pit below skim pit had oil on water, oil-stained soil on bank and moderate sheen. Operator notified of violation. Apparent salt impacts observed included stressed vegetation and unvegetated drainage on adjacent property. Pit diagram and aerial photo are attached to inspection. COGCC requires operator to submit a Form 27 by February 28, 2014 for assessment and remediation of the apparent salt impacted areas below pit #107634.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
107633	PIT	CL	06/03/2013		-	ANN ALLISON 1	CL	X
107634	PIT		09/23/1999		-	ANN ALLISON 1		X
107635	PIT		09/23/1999		-	ANN ALLISON 1		X
107636	PIT		09/23/1999		-	ANN ALLISON 1		X
107637	PIT		09/23/1999		-	ANN ALLISON 1		
233483	WELL	PR	10/22/2003	OW	121-05527	ANN ALLISON 1	PR	

Equipment:

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: _____	Production Pits: _____
Condensate Tanks: _____	Water Tanks: _____	Separators: _____	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: _____	Oil Pipeline: _____	Water Pipeline: _____
Gas Compressors: _____	VOC Combustor: _____	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: _____	Fuel Tanks: _____

Location

Lease Road:

Type	Satisfactory/Unsatisfactory	comment	Corrective Action	Date
Access	Unsatisfactory	road is rutted and eroded from battery to well	improve road, eliminate ruts, control erosion runoff in accordance with Rule 1002.f.	02/09/2014

Signs/Marker:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
TANK LABELS/PLACARDS	Satisfactory			
BATTERY	Satisfactory			
CONTAINERS	Unsatisfactory	treater has no signage, labels or placards, propane tank not labeled	Install sign to comply with rule 210.	02/07/2014

Emergency Contact Number: (S/U/V) Satisfactory

Corrective Date: _____

Comment: _____

Corrective Action: _____

Good Housekeeping:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WEEDS	Unsatisfactory	weeds in produced water pits, on pits berms, and along base of berms	control weeds, cut or remove	02/21/2014

Spills:				
Type	Area	Volume	Corrective action	CA Date
Crude Oil	Tank	<= 5 bbls	treat or dispose the oil stained soil in tank battery bermed area at valve behind oil tank in accordance with Rule 907.e	02/21/2014
Produced Water	Treater	> 5 bbls	standing water inside treater berm is indication of ongoing leak. determine source of water, repair leaks, estimate quantity spilled and submit a Form 19 to COGCC	02/21/2014

Multiple Spills and Releases?

Equipment:					
Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Facilities:					
<input type="checkbox"/> New Tank		Tank ID: _____			
Contents	#	Capacity	Type	SE GPS	
CRUDE OIL	1	500 BBLS	STEEL AST	,	
S/U/V:	Satisfactory	Comment:			
Corrective Action:				Corrective Date:	

Paint	
Condition	Adequate
Other (Content)	_____
Other (Capacity)	_____
Other (Type)	_____

Berms					
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	
Earth	Adequate				
Corrective Action				Corrective Date	
Comment					

Facilities:		<input type="checkbox"/> New Tank	Tank ID: _____		
Contents	#	Capacity	Type	SE GPS	
PRODUCED WATER	1	500 BBLS	STEEL AST	,	
S/U/V:	Satisfactory		Comment:		
Corrective Action:				Corrective Date:	
<u>Paint</u>					
Condition	Adequate				
Other (Content) _____					
Other (Capacity) _____					
Other (Type) _____					
<u>Berms</u>					
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	
Earth	Adequate				
Corrective Action				Corrective Date	
Comment					

Facilities:		<input type="checkbox"/> New Tank	Tank ID: _____		
Contents	#	Capacity	Type	SE GPS	
PRODUCED WATER	1	200 BBLS	FIBERGLASS AST	,	
S/U/V:	Satisfactory		Comment:		
Corrective Action:				Corrective Date:	
<u>Paint</u>					
Condition	Adequate				
Other (Content) _____					
Other (Capacity) _____					
Other (Type) _____					
<u>Berms</u>					
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	
Earth	Adequate				
Corrective Action				Corrective Date	
Comment					

Venting:				
Yes/No		Comment		
Flaring:				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Predrill

Location ID: 233483

Site Preparation:

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

S/U/V: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

Form 2A COAs:

S/U/V: _____ **Comment:**

CA: **Date:** _____

Wildlife BMPs:

S/U/V: _____ **Comment:**

CA: **Date:** _____

Stormwater:

Comment: _____

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Landman Name: _____ Phone Number: _____

Date Onsite Request Received: _____ Date of Rule 306 Consultation: _____

Request LGD Attendance: _____

LGD Contact Information:

Name: _____ Phone Number: _____ Agreed to Attend: _____

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

Facility

Facility ID: 107633 Type: PIT API Number: - Status: CL Insp. Status: CL

Facility ID: 107634 Type: PIT API Number: - Status: _____ Insp. Status: _____

Facility ID: 107635 Type: PIT API Number: - Status: _____ Insp. Status: _____

Facility ID: 107636 Type: PIT API Number: - Status: _____ Insp. Status: _____

Environmental

Spills/Releases:

Inspector Name: NOTO, JOHN

Type of Spill: WATER Description: Estimated Spill Volume:

Comment: indication of spill is apparent salt damage in drainage below southern berm

Corrective Action: submit Form 27 with plan for assessment and remediation Date: 02/28/2014

Reportable: GPS: Lat Long

Proximity to Surface Water: Depth to Ground Water:

Water Well:

DWR Receipt Num: Owner Name: GPS: Lat Long

Field Parameters:

Sample Location:

Waste Management:

Type	Management	Condition	Comment	GPS (Lat)	(Long)

Emission Control Burner (ECB):

Comment:

Pilot: Wildlife Protection Devices (fired vessels):

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: Date Interim Reclamation Completed:

Land Use:

Comment:

1003a. Debris removed? CM CA CA Date

Waste Material Onsite? CM CA CA Date

Unused or unneeded equipment onsite? CM CA CA Date

Pit, cellars, rat holes and other bores closed? CM CA CA Date

Guy line anchors removed? CM CA CA Date

Guy line anchors marked? CM CA CA Date

1003b. Area no longer in use? Production areas stabilized ?

1003c. Compacted areas have been cross ripped?

1003d. Drilling pit closed? Subsidence over on drill pit? Cuttings management:

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing?

Production areas have been stabilized? _____

Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Cropland

Top soil replaced _____

Recontoured _____

Perennial forage re-established _____

Non-Cropland

Top soil replaced _____

Recontoured _____

80% Revegetation _____

1003 f. Weeds Noxious weeds? _____

Comment:

Overall Interim Reclamation

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____

Date Final Reclamation Completed: _____

Final Land Use: _____

Reminder: _____

Comment:

Well plugged _____

Pit mouse/rat holes, cellars backfilled _____

Debris removed _____

No disturbance /Location never built _____

Access Roads Regraded _____

Contoured _____

Culverts removed _____

Gravel removed _____

Location and associated production facilities reclaimed _____

Locations, facilities, roads, recontoured _____

Compaction alleviation _____

Dust and erosion control _____

Non cropland: Revegetated 80% _____

Cropland: perennial forage _____

Weeds present _____

Subsidence _____

Comment:

Corrective Action:

Date _____

Overall Final Reclamation _____

Well Release on Active Location

Multi-Well Location

Storm Water:

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/U/V: Unsatisfactory

Corrective Date: 02/28/2014

Comment: erosion and apparent salt damage from base of southern berm to E-W drainage

CA: Submit a Form 27 with plan to assess and remediate apparent salt impacted areas

Pits: NO SURFACE INDICATION OF PIT

Pit Type: Produced Water Lined: NO Pit ID: 107634 Lat: 39.781178 Long: -103.421674

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: NO 2+ feet Freeboard: _____

Pit (S/U/V): Satisfactory Comment: weeds in pit

Corrective Action: control/remove weeds when weather permits Date: 03/14/2014

Pit Type: Produced Water Lined: NO Pit ID: 107633 Lat: 39.781178 Long: -103.421674

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: NO 2+ feet Freeboard: _____

Pit (S/U/V): Satisfactory Comment: weeds in pit

Corrective Action: control/remove weeds when weather permits Date: 03/14/2014

Pit Type: Produced Water Lined: NO Pit ID: 107635 Lat: 39.781178 Long: -103.421674

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: NO 2+ feet Freeboard: _____

Pit (S/U/V): Satisfactory Comment: pit is iced over, weeds in pit

Corrective Action: control/remove weeds when weather permits Date: 03/14/2014

Pit Type: Produced Water Lined: NO Pit ID: 107636 Lat: 39.781178 Long: -103.421674

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: YES 2+ feet Freeboard: _____

Pit (S/U/V): Unsatisfactory Comment: Pit ID #170636 is two separate pits, east and west. East pit - below skim pit had oil on water and oil stained soil on bank. Called operator, operator agreed to remove oil. weeds in pit

Corrective Action: remove oil within 24 hours of being notified by COGCC, control/remove weeds when weather permits Date: 12/20/2013

Pit Type: Produced Water Lined: NO Pit ID: 107636 Lat: 39.781178 Long: -103.421674

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: YES 2+ feet Freeboard: _____

Pit (S/U/V): Unsatisfactory Comment: West pit. slight oil accumulation on water. Operator contacted, operator agreed to remove oil. weeds in pit

Corrective Action: remove oil within 24 hours of notification by COGCC. control/remove weeds when weather permits. Date: 12/17/2013

Pit Type: _____ Lined: _____ Pit ID: _____ Lat: _____ Long: _____

Lining:

Liner Type: _____ Liner Condition: _____

Comment: _____

Fencing:

Fencing Type: _____ Fencing Condition: _____

Comment: _____

Netting:

Netting Type: _____ Netting Condition: _____

Comment: _____

Anchor Trench Present: _____ Oil Accumulation: _____ 2+ feet Freeboard: _____

Pit (S/U/V): _____ Comment: _____

Corrective Action: _____ Date: _____

Monitoring:

Monitoring Type	Comment

Attached Documents

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
670600185	sign at tank battery	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267834
670600186	tank battery	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267835
670600187	oil stained soil in bermed area	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267836
670600188	propane tank and treater	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267837
670600189	treater - standing water inside bermed area	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267838
670600190	skim tank	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267839
670600191	oil on water in pit below skim tank	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267840
670600192	produced water pit	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267841
670600193	produced water pit #107634	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267842
670600194	outer berm at south end of facility	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267843
670600195	apparent salt impacted area adjacent to berm	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267844
670600196	apparent salt impacted drainage below facility	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267845
670600197	pit diagram	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267846
670600198	aerial photo of apparent salt damaged areas	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3267847