HOBBS OCD MAR 3 1 2014 RECEIVED

30-025-40942

One Source Environmental

C-144 Closure Plan for the Quail State 16 #7H drilling pit

Prepared for Fasken Oil & Ranch, LTD Midland, Texas

commented

Environmental Specialist NMOCD-DIST 1 414/14

Prepared by Julio C Martinez 4-1-2014

FEB 0 1 2016

3/31

30 025 40942

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

April 1, 2014

Description:

Quail State 16 Com 7H drilling pit SHL – 200' FSL & 225' FEL, Sec 16, T20S, R34E BHL – 330' FNL & 330' FEL Sec 16, T20S, R34E Lea County, NM

Pit Closure

Tracking #<u>10182</u>
Project <u>Quail State 16 7H deep trench burial</u>

To:

Jeffrey Leking, Environmental Engineer NMOCD Hobbs, NM

Dear Mr. Leking,

On behalf of Fasken Oil & Ranch, LTD. **One Source Environmental** submits the attached C-144 application for the closure of the above referenced drilling pit. Our current schedule calls for the dirt work to start in 7 to 14 days.

Please note the following:

- We have referenced the original siting plan on Form C-144 submitted and approved by Geoffrey Leking on 2/1/2013 – OCD Permit Number: PI-05658
- We anticipate "Trench Burial" of the stabilized pit contents to be in conformance with the applicable NMOCD Rules.
- 3. This letter and application is copied to the State Land Office **to notify the surface landowner** of the operator's intent to use the deep trench burial procedures to bury the drilling pit.
- In compliance with the requirements set out in Subsection E of 19.15.17.10 NMAC, we are giving notice of deep trench burial at least 72 hours, but not more than one week prior to any closure operations.
- 5. We propose to deep bury the contents of the drilling pit in a 120' x 120' x 18' poly lined trench per requirements set forth in 19.15.17.13 NMAC.
- Once the burial has been completed, a closure report will be submitted and Form C-103 will be filed with the division. A steel marker will be erected at least 4' above grade with all applicable information.

One Source Environmental would like to thank you for your prompt attention to this matter. If you should have any questions/comments, please feel free to contact me @ the above numbers.

Sincerely,

Julio C Martínez

Julio C Martinez, Project Manager

One Source Environmental 9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096 Pit Closure Tracking #<u>10182</u> Project Quail State 16 7H deep trench burial

Attachment to Form C-144

Deep Trench Burial

Legals

API Number: 30-025-40942

ULSTR: P-16-20S-34E

Footages 200 FSL & 225 FEL

Well Name & Number: QUAIL 16 STATE No. 007H

Operator: FASKEN OIL & RANCH LTD

Siting Criteria Compliance Demonstration

 Has been demonstrated by Form C-144 submitted and approved by Geoffrey Leking on 2/1/2013 – OCD Permit Number: PI-05658

Proof of Surface Owner Notice

See attached letter

Construction/Design Plan

A trench will be constructed as described below and in compliance with Subsection K of 19.15.17.11 NMAC

- An excavation will be dug out approximately 120' x 120' x 18'
- A geotextile underlayment will be installed if there is evidence of rocks, sharp edges, or irregularities that could rupture or tear the geomembrane.
- The trench will be lined with a 20-mil string reinforced LLDPE liner.
- The liner seams will be oriented up and down and parallel to the line of maximum slope.
- There will be sufficient liner installed to reduce the stress-strain on the liner and the outer edges will be secured for the deposit of the excavated waste material into the trench

2

 Pit Closure

 Tracking # 10182

 Project
 Quail State 16 7H deep trench burial

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096



Protocols and Procedures

The procedure for the deep burial of the pit are based on the appropriate requirements set forth in 19.15.17.13 NMAC. They are outlined below;

- Ensure that all free liquids have been removed prior to commencing the pit closure.
- All pit contents will be removed and placed into a division approved facility (deep trench burial), if needed the contents will be stabilized/solidified with earthen material and zeolite in a ratio not to exceed 3:1 (3 parts earthen material/zeolyte to 1 part pit contents).
- 5 composite samples of the pit contents will be collected to ensure that the parameters listed in Table II of 19.15.17.13 NMAC are met

Closure criteria for this Burial Trench (based on depth to ground water which is >100		
feet)		
Constituent	Limit	
Chloride	80,000 mg/kg	
ТРН	2,500 mg/kg	
GRO + DRO	1,000 mg/kg	
BTEX	50 mg/kg	
Benzene	10 kg/kg	
If the analytical results are higher than concentrations shown above, then closure will proceed in accordance with Subsection C of 19.15.17.13 NMAC (Dig and Haul)		

3

One Source Environmental 9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure Tracking # 10182 Project Quail State 16 7H deep trench burial

 5 composite samples of will be collected beneath the pit to ensure that the parameters listed in Table I of 19.15.17.13 NMAC are met

on depth to ground water which is >100 feet)		
Constituent Limit		
Chloride	20,000 mg/kg	
ТРН	2,500 mg/kg	
GRO + DRO	1,000 mg/kg	
BTEX	50 mg/kg	
Benzene	10 kg/kg	
If the analytical results are higher th halt until approval has	nan concentrations shown above, then closure will been given by the division to continue	

Confirmation and Soil Sampling Plan

Sample ID	Depth	Analytical
BH 1	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene
BH 2	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene
BH 3	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene
BH 4	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene
BH 5	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene
Background	Surface	Chlorides, TPH, BTEX, GRO + DRO, Benzene

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure Tracking # 10182

Project Quail State 16 7H deep trench burial



Waste Material Sampling Plan

Prior to closure, a five-point (minimum) random composite samples of the residual solids in the pit will be tested in a laboratory to demonstrate that the stabilized material will not exceed the contaminant concentrations listed in Table II of 19.15.17.13 NMAC mixed in a ratio of 3:1 with the earth material to be used for mixing and stabilization of the residual cuttings and mud.

Soil Cover and Design of Pit Location and Trench

At least 3-feet of compacted, uncontaminated, non-waste containing earthen fill with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0 will be placed over the pit and the deep trench burial pit. The soil cover will include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater, over the 3-foot earth material. The site will be recontoured to blend with the surrounding topography and to prevent erosion of the cover and ponding over the cover.

Site Reclamation and Re-vegetation Plan

Top soils and sub soils will be replaced to their original relative positions and contoured so as to achieve erosion control, long term stability and preservation of surface water flow patterns. Reseeding will commence on the first favorable growing season following closure.

The operator will notify the division when the surface grading work element of reclamation is complete.

One Source Environmental 9205 WCR 127 Midland, TX 79706 Office (432) 561-8804

 Pit Closure

 Tracking # 10182

 Project
 Quail State 16 7H deep trench burial

The operator will notify the division when the site meets the surface owner's requirements or exhibits a uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent (50%) of predisturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

The operator will notify the division when the reclamation and re-vegetation are complete.

Closure Report

Cell (432) 202-3096

Within 60 days of closure completion, we will submit a

- Closure report on form C-144, with all necessary attachments
- A certification that all information in the report and attachments are correct, that the operator has complied with all applicable closure requirements and conditions specified in the approved closure plan
- A plat of the pit location on form C-105 and a separate C-105 showing the exact location of the trench.
- We will place at the center of an onsite burial trench a steel marker that is not less than four inches in diameter. It will placed at the bottom of a three-foot deep hole (minimum) that is filled with cement to secure the marker at least four feet above mean ground level which permanently displays the operator name, lease name, well number, unit letter, section, township and range in welded or stamped legible letters/numbers

Timing of Closure

"The operator will close the temporary pit within 6 months from the date the drilling or workover rig was released from the site. This date will be noted on form C-105 or C-103 filed with the division upon the well's or workover's completion".

Leking, Geoffrey R, EMNRD

From:	Leking, Geoffrey R, EMNRD
Sent:	Friday, April 04, 2014 2:48 PM
То:	'Julio C Martinez'
Subject:	RE: Quail State 16 Com 7H deep trench burial Attachment to Form C144 DRAFT

Julio

Comments Re: C-144 Closure Plan for the Quail State 16 #7H drilling pit, Prepared for Fasken Oil & Ranch, LTD Midland, Texas, Prepared by Juio C Matinez, 4-1-2014:

- Construction/Design, pg. 2 Include language that addresses the 19.15.17.11. K. (4) requirement that states "Prior to field seaming, the operator shall overlap liners four to six inches..." and "...Qualified personnel shall preform field welding and testing.".
- Protocols and Procedures, pg.3 Include language that addresses the 19.15.17.13 D.(4) requirement that states "...The waste mixture must pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division).
- Protocols and Procedures , pg.3 and pg.4, bullets 3 and 4 Change "5 composite samples..." to "A 5 point composite sample..."
- Confirmation and Soil Sampling Plan, pg. 4 The 6" depth stated is fine for soils, but the waste materials must be sampled for their entire thickness which may exceed 6". Please clarify and add language if necessary.
- 5) Waste Material Sampling Plan pg.5, line 1-Change "samples" to "sample".
- 6) Waste Material Sampling Plan pg.5 Include the language as required in 2) above.
- 7) Soil Cover and Design of Pit Location and Trench, pg.5 Include language that addresses the requirements of 19.15.17.13 D. (8) (a) & (b) which states "Upon achieving all applicable waste stabilization in the temporary pit or transfer of stabilized wastes to the temporary pit or burial trench, the operator shall (a) fold the outer edges of the trench liner to overlap the waste material into the trench prior to the installation of the geomembrane cover; (b) install a geomembrane cover over the waste material in the lined trench or temporary pit, the operator shall install the geomembrane cover in a manner that prevents the collection of infiltration waste into the lined trench or temporary pit and onto the geomembrane cover after the soil cover is in place, the geomembrane cover shall consist of a 20-mil string reinforced LLDPE liner or equivalent cover the appropriate division district office approves, the geomembrane cover shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions; cover compatibility shall comply with EPA SW-846 Method 9090A.".
- 8) General Comment Due to the difference in siting requirements between those stated on the Form C-144 July 21, 2008 and the Form C-144 Revised June 6, 2013, the company will be required to submit a fully completed Form C-144 Revised June 6, 2013 and include the documentation to validate the answers to the statements found under Section 15. Siting Criteria (regarding on-site closure methods only). These should include graphics that address each criteria including, but not limited to, topographic maps, photographs from visual inspection, aerial photographs, satellite images, NM Office of the State Engineer IWATER database info, NMOCD Trend Map Data or information provided to the operator by OCD personnel based on this map, US Fish and Wildlife Wetland Identification maps, NM EMNRD- Mining and Mineral Division maps, NM Bureau of Geology & Mineral Resources maps, USGS maps, NM Geological Society maps, and FEMA or insurance maps.

Please contact me if you have any questions. Thank you.

Geoffrey Leking

Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240 Office: (575) 393-6161 Ext. 113 Cell: (575) 399-2990 email: geoffreyr.leking@state.nm.us

From: Julio C Martinez [mailto:jmartinez@onesourceindustrial.com]
Sent: Monday, March 31, 2014 5:30 AM
To: Leking, Geoffrey R, EMNRD
Subject: Quail State 16 Com 7H deep trench burial Attachment to Form C144 DRAFT

Mr. Leking,

I spoke with you on the phone over the trench burial of this drilling pit awhile ago. I have finally completed the C144 attachment and would like your input before I send you an official copy.

I certainly appreciate your time.

Respectfully yours, Julio C Martínez, RSO

Julio C Martinez, RSO One Source Environmental <u>imartinez@onesourceindustrial.com</u> Cell: (432) 202-3096 Office: (432) 561-8804

HOBBS OCD APR 2 1 2014 RECEIVED

One Source Environmental

C-144 Closure Plan for the Quail State 16 #7H drilling pit

Prepared for Fasken Oil & Ranch, LTD Midland, Texas

Prepared by Julio C Martinez 4-1-2014

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

April 1, 2014

Description:

Quail State 16 Com 7H drilling pit SHL – 200' FSL & 225' FEL, Sec 16, T20S, R34E BHL – 330' FNL & 330' FEL Sec 16, T20S, R34E Lea County, NM

Pit Closure

Tracking #<u>10182</u>
Project Quail State 16 7H deep trench burial

To:

Jeffrey Leking, Environmental Engineer NMOCD Hobbs, NM

Dear Mr. Leking,

On behalf of Fasken Oil & Ranch, LTD. **One Source Environmental** submits the attached C-144 application for the closure of the above referenced drilling pit. Our current schedule calls for the dirt work to start in 7 to 14 days.

Please note the following:

- 1. We anticipate "Trench Burial" of the stabilized pit contents to be in conformance with the applicable NMOCD Rules.
- 2. This letter and application is copied to the State Land Office **to notify the surface landowner** of the operator's intent to use the deep trench burial procedures to bury the drilling pit.
- In compliance with the requirements set out in Subsection E of 19.15.17.10 NMAC, we are giving notice of deep trench burial at least 72 hours, but not more than one week prior to any closure operations.
- 4. We propose to deep bury the contents of the drilling pit in a 120' x 120' x 18' poly lined trench per requirements set forth in 19.15.17.13 NMAC.
- 5. Once the burial has been completed, a closure report will be submitted and Form C-103 will be filed with the division. A steel marker will be erected at least 4' above grade with all applicable information.

One Source Environmental would like to thank you for your prompt attention to this matter. If you should have any questions/comments, please feel free to contact me @ the above numbers.

Sincerely,

Julio C Martínez

Julio C Martinez, Project Manager

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application				
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method				
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.				
1. Operator: Fasken Oil & Ranch OGRID #: 151416 Address: 303 W. Wall St. Ste. 1800, Midland, TX 79701-5116				
2. [<u>Pit:</u> Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover [Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx Wx D				
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material:				
 <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 				
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify				

Oil Conservation Division

Netting:	Subsection E of	f 19.15.17.11	NMAC (Applies to	permanent pits and	permanent open top tanks)
----------	-----------------	---------------	------------------	--------------------	---------------------------

Screen Netting Other

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

7.

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

	1
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accumaterial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ Yes □ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	1 2 4 9 5
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	P. C. V.
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🗌 No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes or 300 feet of any other fresh water well or spring in existence at the time of the initial application	□ Yes □ No

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No			
Temporary Pit Non-low chloride drilling fluid	1. C. E. S.			
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	T Yes T No			
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No			
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
Permanent Pit or Multi-Well Fluid Management Pit	1.1.1			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).				
 Topographic map; Visual inspection (certification) of the proposed site 	Yes No			
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No			
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application				
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No			
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 10. Temporarv Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 				
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 1915179 NMAC	19 240 2 3 3			
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are				
attached.				
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC				
A List of wells with approved application for permit to drill associated with the pit.				
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC				
Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC				

Previously Approved Design (attach copy of design) API Number:

or Permit Number:

^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are			
attracted. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan				
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.				
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial				
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 				
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	rce material are Please refer to			
Ground water is less than 25 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA			
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells				
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells				
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🛛 No			
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗋 Yes 🛛 No			
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No			
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗆 Yes 🛛 No			
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	18 4 G 18			

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No			
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🛛 No			
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🛛 No			
Within a 100-year floodplain. - FEMA map	🗌 Yes 🛛 No			
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Seite Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate				
 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and be 	lief.			
Name (Print): Julio C Martinez Title: Consultant	14			
Signature: Julio C Martinez Date: 4/7/2014				
e-mail address: jmartinez@onesourceindustrial.com Telephone: 432-202-3096				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:				
Title: OCD Permit Number:	<u>A 1999</u>			
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.				
Closure Completion Date:	Service State			
20. Closure Method: □ Waste Excavation and Removal ⊠ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-D □ If different from approved plan, please explain.	loop systems only)			
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please it mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: 192	ndicate, by a check 7 🔲 1983			

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

One Source Environmental 9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096 Project Quail State 16 7H deep trench burial

Attachment to Form C-144

Deep Trench Burial

Legals

API Number: 30-025-40942

ULSTR: P-16-20S-34E

Footages 200 FSL & 225 FEL

Well Name & Number: QUAIL 16 STATE No. 007H

Operator: FASKEN OIL & RANCH LTD

Siting Criteria Compliance Demonstration (Section 15)

Criteria	Answer	Source Material					
Ground Water is < 25'	No	Per Geoffrey Lecking, Environmental Engineer, OCD Hobbs – the ground water is found at 135' (see C- 144 dated 02/01/2013 - Permit # PI-05658)					
Ground water is between 25'-50'	No	Per Geoffrey Lecking, Environmental Engineer, OCD Hobbs – the ground water is found at 135'					
Ground Water is > 100' below bottom of buried waste	Yes	Per Geoffrey Lecking, Environmental Engineer, OCD Hobbs – the ground water is found at 135'					
Within 100' of continuously flowing water course or 200' of any other significant watercourse	No	Nearest watercourse is > 300' from location – per USFW National Wetlands Inventory (see attached) Certification: A visual inspection of the immediate area has been made and there are no known watercourses within 1 mile radius of the well location.					
Within 300 feet from a permanent residence, school, hospital, institution or church	No	See attached "Google Map" showing the surrounding area. Certification: A visual inspection of the immediate area has been made and there are no permanent					

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Project Quall State 16 7H deep trench burial

		residences, schools, hospitals, institutions or churches within 300' of the well location.					
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes	No	There are no known water wells within 300 horizontal feet of the well location – per USFW National Wetlands Inventory (see attached). Certification: A visual inspection of the immediate area has been made and there are no known water wells within 300 horizontal feet of the well location.					
Written confirmation or verification from the municipality	No	This well location does not fall within any municipalities.					
Within 300' of a wetland	No	Nearest wetland is > 500' from location – per USFW National Wetlands Inventory (see attached). Certification: A visual inspection of the immediate area has been made and there are no known wetlands within 1 mile radius of the well location.					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978. Section 3-7-3 as amended	No	This well location does not fall within any municipalities.					
Within the area overlying a subsurface mine	No	See letter from Larry J Rybal of the State Land Office signed 1/29/2013					
Within an unstable area	No	See attached "Geologic Map of New Mexico"					
Within a 100-flood plan	No	FEMA reports that a 100-year flood plain map has not been constructed for this area. Certification: A visual inspection of the immediate area has been made and there are no indications of that flooding or standing water would occur.					
Form C-102		Form c-102 is attached showing the pit location. The latitude and longitude is shown on the plat. This data reference is the center of the pit.					

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure Tracking #<u>10182</u> Project <u>Quall State 16 7H deep trench burial</u>

Proof of Surface Owner Notice

See attached letter

Construction/Design Plan

A trench will be constructed as described below and in compliance with Subsection K of 19.15.17.11 NMAC

- An excavation will be dug out approximately 120' x 120' x 18'
- A geotextile underlayment will be installed if there is evidence of rocks, sharp edges, or irregularities that could rupture or tear the geomembrane.
- The trench will be lined with a 20-mil string reinforced LLDPE liner.
- Prior to field seaming, we will overlap the liners four to six inches. A qualified operator or a technician under his direct supervision will perform the field welding and testing.
- The liner seams will be oriented up and down and parallel to the line of maximum slope.
- There will be sufficient liner installed to reduce the stress-strain on the liner and the outer edges will be secured for the deposit of the excavated waste material into the trench



Protocols and Procedures

The procedure for the deep burial of the pit are based on the appropriate requirements set forth in 19.15.17.13 NMAC. They are outlined below;

One Source Environmental 9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure Tracking # 10182 Project Quail State 16 7H deep trench burial

- Ensure that all free liquids have been removed prior to commencing the pit closure.
- All pit contents will be removed and placed into a division approved facility (deep trench burial), if needed the contents will be stabilized/solidified with earthen material and zeolite in a ratio not to exceed 3:1 (3 parts earthen material/zeolite to 1 part pit contents).
- Prior to burial, the waste mixture must pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division.
- A 5 point composite sample of the pit contents will be collected to ensure that the parameters listed in Table II of 19.15.17.13 NMAC are met

Closure criteria for this Burial Trene	ch (based on depth to ground water which is >100					
	feet)					
Constituent	Limit					
Chloride	80,000 mg/kg					
ТРН	2,500 mg/kg					
GRO + DRO	1,000 mg/kg					
BTEX	50 mg/kg					
Benzene	10 kg/kg					
If the analytical results are higher the	nan concentrations shown above, then closure will					
proceed in accordance with Sub	osection C of 19.15.17.13 NMAC (Dig and Haul)					

• A 5 point composite sample will be collected beneath the pit to ensure that the parameters listed in Table I of 19.15.17.13 NMAC are met

Closure criteria for soils beneath pi on depth to gro	ts where the contents have been removed (based bund water which is >100 feet)				
Constituent	Limit				
Chloride	20,000 mg/kg				
ТРН	2,500 mg/kg				
GRO + DRO	1,000 mg/kg				
BTEX	50 mg/kg				
Benzene 10 kg/kg					
If the analytical results are higher th	nan concentrations shown above, then closure will				
halt until approval has	been given by the division to continue				

Confirmation and Soil Sampling Plan

Sample ID	Depth	Analytical				
BH 1	6″	Chlorides, TPH, BTEX, GRO + DRO, Benzene				
BH 2	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene				
BH 3	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene				
BH 4	6″	Chlorides, TPH, BTEX, GRO + DRO, Benzene				
BH 5	6"	Chlorides, TPH, BTEX, GRO + DRO, Benzene				
Background	Surface	Chlorides, TPH, BTEX, GRO + DRO, Benzene				

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure

Tracking #<u>10182</u>
Project Quail State 16 7H deep trench burial



Waste Material Sampling Plan

Prior to closure, a five-point (minimum) random composite sample of the residual solids in the pit will be tested in a laboratory to demonstrate

- That the stabilized material will not exceed the contaminant concentrations listed in Table II of 19.15.17.13 NMAC mixed in a ratio of 3:1 with the earth material to be used for mixing and stabilization of the residual cuttings and mud.
- The waste mixture will pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division).

Soil Cover and Design of Pit Location and Trench

Upon achieving all applicable waste stabilization and transfer of stabilized wastes to the burial trench;

- We will fold the outer edges of the trench liner to overlap the waste material into the trench prior to the installation of the geomembrane cover;
- Install a geomembrane cover over the waste material in the lined trench, we will install the
 geomembrane cover in a manner that prevents the collection of infiltration waste into the lined
 trench or temporary pit and onto the geomembrane cover after the soil cover is in place, the
 geomembrane cover shall consist of a 20-mil string reinforced LLDPE liner or equivalent cover
 the appropriate division district office approves, the geomembrane cover shall be composed of

9205 WCR 127 Midland, TX 79706 Office (432) 561-8804 Cell (432) 202-3096

Pit Closure Tracking # 10182 Project Quail State 16 7H deep trench burial

an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions; cover compatibility shall comply with EPA SW-846 Method 9090A

 At least 3-feet of compacted, uncontaminated, non-waste containing earthen fill with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0 will be placed over the pit and the deep trench burial pit. The soil cover will include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater, over the 3-foot earth material. The site will be recontoured to blend with the surrounding topography and to prevent erosion of the cover and ponding over the cover.

Site Reclamation and Re-vegetation Plan

Top soils and sub soils will be replaced to their original relative positions and contoured so as to achieve erosion control, long term stability and preservation of surface water flow patterns. Reseeding will commence on the first favorable growing season following closure.

The operator will notify the division when the surface grading work element of reclamation is complete.

The operator will notify the division when the site meets the surface owner's requirements or exhibits a uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent (50%) of predisturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

The operator will notify the division when the reclamation and re-vegetation are complete.

Closure Report

Within 60 days of closure completion, we will submit a

- Closure report on form C-144, with all necessary attachments
- A certification that all information in the report and attachments are correct, that the operator has complied with all applicable closure requirements and conditions specified in the approved closure plan
- A plat of the pit location on form C-105 and a separate C-105 showing the exact location of the trench.
- We will place at the center of an onsite burial trench a steel marker that is not less than four inches in diameter. It will placed at the bottom of a three-foot deep hole (minimum) that is filled with cement to secure the marker at least four feet above mean ground level which permanently displays the operator name, lease name, well number, unit letter, section, township and range in welded or stamped legible letters/numbers

Timing of Closure

"The operator will close the temporary pit within 6 months from the date the drilling or workover rig was released from the site. This date will be noted on form C-105 or C-103 filed with the division upon the well's or workover's completion".

State of New Mexico

HOBBS OCD DEC 1 3 2012

Energy, Minerals and Natural Resources Department

Susana Martinez Governor

John Bemis Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary

BUREAU OF LAND MANAGEMENT ATTN: Jim Rutley P O Box 1778 Carlsbad, NM 88221 Jami Balley Division Director Oil Conservation Division

State Land Office ATTN: Joe Mraz P O Box 1148 Santa Fe, NM 87504

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR Fasken Oil & Ranch Ltd

LEASE NAME Quail 16 State Com #7H

PRPOSED LOCATION Sect 16 20S-34E Unit P 200 FSL 225 FEL

PROPOSED DEPTH 10945

Gentlemen:

The application for permit to drill indentified above has been filed with this office of the new Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether the location is within an established Life-or-Mine Reserve are filed with an approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

EL Gonzales Supervisor, District I

Response:

The above reference location is in the LMR (20/Zyear)	Yes NO
The above reference location is within the Buffer Zone	Yes No
Signed	Date 12-14-2012
Printed Signature Amos D. TSUTLEY	1
Representing BCM-CFO	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -

Oil Conservation Division 1625 N French Drive, Hobbs New Mexico 88240 Phone (575) 393-6161• Fax (575) 393-0720 - www.emnrd.state.nm.us

FEB 0 4 2013

HOBBS OCD

State of New Mexico Energy, Minerals and Natural Resources Department JAN

JAN 29 2013

Susana Martinez Governor

John Bemis Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey Division Director Oil Conservation Division



BUREAU OF LAND MANAGEMENT ATTN: Jim Rutley P O Box 1778 Carlsbad, NM 88221 State Land Office ATTN: Joe Mraz P O Box 1148 Santa Fe, NM 87504

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR Fasken Oil & Ranch Ltd

LEASE NAME Quail 16 State Com #7H

PRPOSED LOCATION Sect 16 20S-34E Unit P 200 FSL 225 FEL

PROPOSED DEPTH 10945

Gentlemen:

The application for permit to drill indentified above has been filed with this office of the new Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether the location is within an established Life-or-Mine Reserve are filed with an approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

EL Gonzales Supervisor, District I

Response:

The above reference location is in the LMR (2011 year)	Yes NO X
The above reference lecation is within the Buffer Zone	Yes No X
Signed	Date 29 Jan 13
Printed Signature Larry J.R. Spal	21 K
Representing State Land a plice	

Oil Conservation Division 1625 N French Drive, Hobbs New Mexico 88240 Phone (575) 393-6161• Fax (575) 393-0720 • www.emnrd.state.nm.us

ISTRICT I 25 N. Prench Dr., Hobbs ane (575) 393-6161 Fax: (5 ISTRICT II	1, NM 8824 175) 393-07	MAR 2	2 0 2013	Energy, Mit	State o	f Ne Natura	w Mexico I Resources Dep	partme	nt ·	: Fo Revised Aug	rm C-102 gust 1, 201
1 S. First St., Artes: one (575) 748-1283 Fax: (5 ISTRICT III 000 Rio Brazos Rd., A one (505) 334-6176 Fax: (5 COTPLCT IV	ia, NM 8 175) 748-97 Lztec, NM 105) 334-61	8210 REC 87410	EIVOIIL	CON 12 San	SERV 20 South ta Fe, N	ATI St.	ON DIV Francis Dr Mexico 8750		ON	bmit one copy to Dis	appropriate strict Office
ISTRICT IV 20 S. St. Francis Dr., St one (505) 476-3460 Fax: (5	unta Fe, N 105) 476-34	M 87505 82	WELL LC	CATION	AND A	CRE	AGE DEDIC	ATIC	N PLAT		D REPORT
API Num 30-025-40	aber)942		3	Pool Code 7570		Lea	; Bone Spr	ing	Pool Name	- 41 - 58 	
Property Code 36547		-			QUAIL S	TATE	16 ·			Well Number 7H	
151416				FASKEN	V OIL A	ND R	RANCH, LTD)		364	2'
UL or lot No. Se	etion 16	Township	Range 34 F	Lot Idn	Feet from	the	North/South	line	Feet from the	East/West line	County
		20 5	Bottom	Hole Lo	cation If	Diff	Prent From	Surf	.220	EAST	
UL or lot No. Se	ction	Township 20 S	Range 34 F	Lot Idn	Feet from	the	North/South	line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Co	nsolidation	Code Or	der No.						LEA
NO ALLOWA	BLE W	ILL BE AS OR A N	SSIGNED '	TO THIS	COMPLET	ION (BEEN	JNTIL ALL IN APPROVED	TERI BY T	ESTS HAVE BE HE DIVISION	EN CONSOLID	ATED
E. 775270.58	75270.58 E. 77			PROPOSED BOTTOM HOLE LOCATION Lot - N 32'34'46.06 Long - W 103'33'27.84 NMSPCE - E 780242.91 (NAD-83)			E. 780570.43 330 E. 780570.43 330 Contained 1 hereby contained 1			OR CERTIFICATION ertify that the information ein is true and complete to y knowledge and belief, and that ion either owns a working leased mineral interest in the the proposed bottom hole s a right to drill this well at unrsuant to a contract with an a mineral or working interest, ary pooling agreement or a oling order heretofore entered by	
N. 573083.39								49.7	Signature Kim Tyson Printed Name kimt@for Email Address	3-19- n 1.com	Date
E. 775289.82	-+			<u>SURFACE</u>	LOCATION 32*33'59.08		enetration oint	(*)	SURVEYO I hereby certify on this plat was actual surveys supervison and correct to the SPITION Date Survey Signifure & S Professional	R CERTIFICAT that the well locats plotted from field made by me or that the same is best of my belief the same is best of my belief the same is best of my belief	TION ton shown thotes of under my true and r.
	1		1	NMSPCE-	570662.08 780382.62			200	X	This one the	

Penetration Point 11,175' MD, 10,942' TVD; 597' FSL & 330' FEL





KARST Potential Map at the Quail State 16 #7H for deep trench burial of pit contents by One Source Environmental



HIH