District I
1625 N French Dr., Hobbs, NM 88240
District II
811 S Frist 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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

10230

<u>Pit, Closed-Loop System, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Type of action Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
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
invitonment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations of ordinances
Operator _ Thompson Engineering and Production Corp OGRID #37581
Address7415 E Main St , Farmington, NM 87402
Facility or well name Kinbeto 16#3
API Number 30-045-35384 OCD Permit Number
U/L or Qtr/Qtr L Section 16 Township23N Range 10W County _San Juan
Center of Proposed Design Latitude36 22497 N Longitude107 90814 W NAD1927 ⊠ 1983
Suiface Ownei Federal State Private Tribal Trust or Indian Allotment
2
∑ Ptt: Subsection F or G of 19 15 17 11 NMAC RCVD JUN 25 12
Temporary Drilling Workover OIL CONS. DIV.
Permanent Emergency Cavitation P&A
☐ String-Reinforced Line: Seams ☑ Welded ☑ Factory ☐ Other Volume1700bbl Dimensions L_80' x W_20' x D_8'
Liner scans & weided & ractory & other
Closed-loop System: Subsection H of 19 15.17 11 NMAC
Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of
intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other
Liner Scams
4
Below-grade tank: Subsection I of 19 15 17 11 NMAC
Volumebbl Type of fluid
Tank Construction material
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Usible sidewalls and liner Usible sidewalls only Upper Uppe
Line: type Thicknessmil
5 Alternative Method:
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify_4' hog wire with one strand of barbed wire on top	hospital,
Netting: Subsection E of 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	
Administrative Approvals and Exceptions: 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: Administrative approval(s). Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office foi
Siting Criteria (regarding permitting): 19 15 17 10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acception material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ⊠ No
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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ⊠ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ⊠ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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 - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ 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
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

Temporary 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 11 NMAC Operating and Maintenance 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
12
Closed-loop Systems 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.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance 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
Picviously Approved Design (attach copy of design) API Number
Previously Approved Operating and Maintenance Plan API Number (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13
Permanent Pits Permit Application 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 - 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 Liner Specifications and Compatibility Assessment - 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 Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Proposed Closure: 19 15 17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type Dulling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System 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 Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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 F 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 G of 19 15 17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Statements Please indentify the facility or facilities for the disposal of liquids, and the statement of								
facilities are required. Disposal Facility Name	Disposal Facility Permit Number							
	Disposal Facility Name Disposal Facility Permit Number							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No								
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19 15 17 13 NMAC I of 19.15 17 13 NMAC	C						
Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC f	e administrative approval from the appropriate distr Bureau office for consideration of approval. Justi,	ict office or may be						
Ground water is less than 50 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 50 and 100 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 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	∑ Yes □ No □ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signalake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Ycs ⊠ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site, Aerial photo, Satellite		☐ Yes ⊠ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or spring the State Engineer - iWATERS database, Visual inspection (oring, in existence at the time of initial application	☐ Yes ⊠ No						
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approve	·	☐ Yes ☒ No						
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visua	l inspection (certification) of the proposed site	☐ 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 Society, Topographic map	& Mineral Resources, USGS, NM Geological	☐ Yes ⊠ No						
Within a 100-year floodplain - FEMA map		☐ Yes ⊠ No						
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19 15 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19 15 Waste Material Sampling Plan - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and d Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	surements of 19 15 17 10 NMAC Subsection F of 19 15 17 13 NMAC propriate requirements of 19 15 17 11 NMAC ad) - based upon the appropriate requirements of 19 17 13 NMAC urements of Subsection F of 19 15 17 13 NMAC Subsection F of 19 15 17 13 NMAC rill cuttings or in case on-site closure standards cannot of 19 15 17.13 NMAC I of 19 15 17.13 NMAC	15 17 11 NMAC						

Operator Application Certification: The above contributed to the contribute of the
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief
Name (Print)Paul C Thompson, P E TitlePresident
Signature Paul C. Thomps Date June 19, 2012
c-mail addiesspaul@walsheng nct
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 6/20/20/20/20/20/20/20/20/20/20/20/20/20/
Closure Report (required within 60 days of closure completion): Subsection K of 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:
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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) 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 1927 1983
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

Hydro geological report for Kinbeto 16 #3

Regional Hydro geological context:

The Kinbeto 16 #3 is located on New Mexico State Trust Lands in San Juan County, New Mexico The well location sits on the top of a small ridge that dips gently to the southeast into an un-named drainage that runs southwest and eventually into Black Lake. The area around the location is mainly gently sloping and of primarily dry, sandy soil with occasional boulders and scattered Juniper trees. There are numerous small arroyos which drain southeast towards the un-named drainage.

A records search of the NM Office of the State Engineer – iWATERS database indicates that there are two known water well west of the Kinbeto 16 #3 location in Section 19, T23N, R10W and Section 24, T23N, R11W. These wells are 2.5 miles and 3.0 miles away from the Kinbeto location By reviewing the locations on Google Earth, both locations are very near a wash and are 125' and 138' lower than the Kinbeto 16 #3 location respectively. The depth to ground water is listed as 45' and 50' Assuming that the ground water is at the same depth in the wash SE of the location (50') and the location is approximately 60' above the wash, then the depth to ground water at the proposed location would be approximately 110'

Geologic maps of the area indicate that the surface formation at the proposed well site is the San Jose formation. The San Jose Formation of Eocene age occurs in New Mexico and Colorado and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado – New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin)

Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modification, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unity are sandy and highly permeable and therefore readily absorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge of the unit

Stone et al, 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70p

Site specific information:

Surface hydrology: The site is located at the upper end of the Largo Wash drainage and is

drained by a number of small intermittent drainages

1st water-bearing formation: San Jose, tertiary
Formation thickness: 200 - 700 feet
Underlying formation: Necimiento, Tertiary

Depth to groundwater: Unknown. The closest water well in the valley bottom has a surface

elevation 50' lower that the well pad

FEMA Map - 100 year floodplain

The attached FEMA Map indicates that the proposed location is well outside 100 year floodplain

Siting Criteria Compliance Demonstrations

The Kinbeto 16 #3 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Thompson Engineering and Production Corp. Kinbeto 16 #3
Temporary Reserve Pit Application
Siting Criteria

- 1. A records search of the NM Office of the State Engineer iWATERS database indicates that there are two known water wells west of the Kinbeto 16 #3 location in Section 19, T23N, R10W and Section 24, T23N, R11W These wells are 2 5 miles and 3 0 miles away from the Kinbeto location By reviewing the locations on Google Earth, both locations are very near a wash and are 125' and 138' lower than the Kinbeto 16 #3 location respectively. The depth to ground water is listed as 45' and 50'. Assuming that the ground water is at the same depth in the wash SE of the location (50') and the location is approximately 60' above the wash, then the depth to ground water at the proposed location would be approximately 110'
- 2. As shown on the attached topographic map and aerial photos, there are no continuously flowing watercourses within 300' of the well, or any significant watercourses, lakebeds, sinkholes, or playa lakes within 200' of the well.
- There are no permanent residences, schools, hospitals, institutions, churches within 300' of the well.
- 4. There are no domestic water wells or springs within 500' of the well. See iWaters Database printout.
- 5. The well is not located within any municipal boundaries.
- 6 The well is not within 500' of any wetlands. See attached topographic map and aerial photos.
- 7. There are no subsurface mines in Section 16, T23N, R10W. See attached map from the NM EMNRD Mining and Mineral Division.
- 8. The Kinbeto 16 #3 is not located in an "unstable" area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of a continuously flowing watercourse or 200' from any other watercourse.
- 9. The well is not located in a 100-year floodplain as visible on the topographic map and the FEMA Flood Insurance Rate Map.
- 10. In the event that the composite pit sample that is mixed 3:1 with native soils does not meet the requirements for onsite burial, the pit contents will be removed and disposed of at the Envirotech Land farm #2 (NMOCD Permit #11).

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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

320 (S/2)

1220 S St Francis Dr , Santa Fe, NM 87505 Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code 7/629	7			
⁴ Property Code		⁵ Property Name KINBETO 16			
7 OGRID № 37581		Operator Name RING & PRODUCTION CORP.	⁹ Elevation 6585		

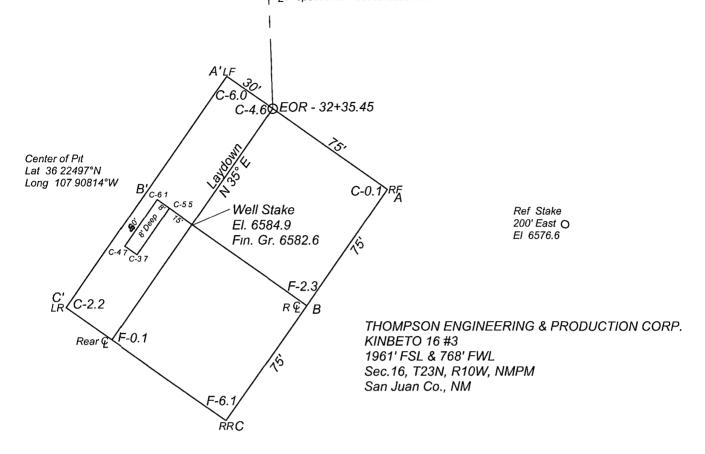
¹⁰ Surface Location

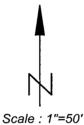
UL or Lot No	Section 16	Township 23 N	1 "	Lot Idn	Feet from the 1961	North/South Line South	Feet from the	East/West Line West	County San Juan		
11 Bottom Hole Location If Different From Surface											
UL or Lot No	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County		
								11			
12 Dedicated Acres	13 Joint o	r Infill	14 Consolidation	Code 15 (de 15 Order No						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division

division	S 89°47′ W	79 89 Ch.		
79.58 Ch.			79 68 Ch.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Taul C. Johnstow Signature Date
	Sec.			Printed Name PALL @ WALSHENG, NET E-mail Address
Lat. 36 22497° N Long. 107 90806° W (NAD 83) 768'		16	Fd BLM Cap (Typ)	18 SURVEYOR CERTIFICATION 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 belief
N 0°28' W			N 1°19'W	30 May 2012 Date of Survey M.E. M.A. Signature and san of the Menny Survey Su
	S 90°55' M	91 14 Ch		Certificale Maybbe 8466 MD

Bearings from GLO PLat





Ref Stake 200' South O El 6569 9

C-C'
6580



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

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

water right file)	closed)	(quarte	ers a	are	sm	nalle	st to la	argest)		(NAD	83	UTM in me	ters)	(1	n feet)	
POD Number	POD Code Subbasin (County		Q 16			Tws	Rng			Ž.	Ţ. Ÿ.	Distance	•	Depth Water C	
RG 31052	ऽ ग	-RA	1	2	3	19	23N	10W	2	23554	7	4011381*	3408	65	45	20
SJ 03555		SJ	2	2	2	24	23N	11W	2	23497	2	4012208*	3741	257	50	207
SJ 01713		SJ		4	4	33	24N	10W	2	23993	6	4017203*	4645	373		
SJ 01714		SJ		3	4	36	24N	10W	2	244334	4	4017107*	7151	442	284	158
SJ 03141		SJ	3	2	1	29	24N	10W	2	237520	0	4019956*	7317	640	595	45
SJ 00144		SJ	1	1	3	31	23N	09W	2	244786	6	4007922*	7774	100		
SJ 04008 POD1		SJ	1	3	3	34	24N	11W	2	230590	0	4017663	9472	320		
												Averag	e Depth to	Water	243 fe	eet
													Mınımum	Depth	45 fe	eet
													Maxımum	Depth	595 fe	eet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 238677

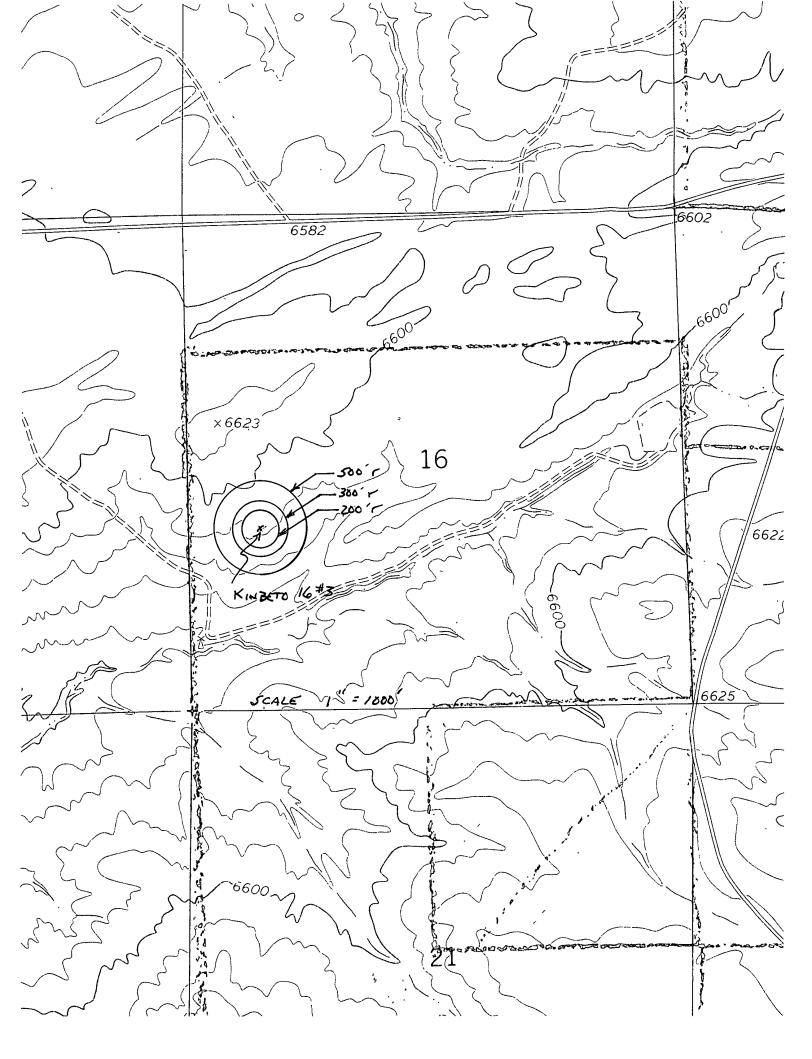
Northing (Y): 4012731

Radius: 10000

*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

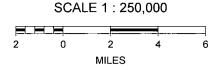
- Kinbelo 16#3



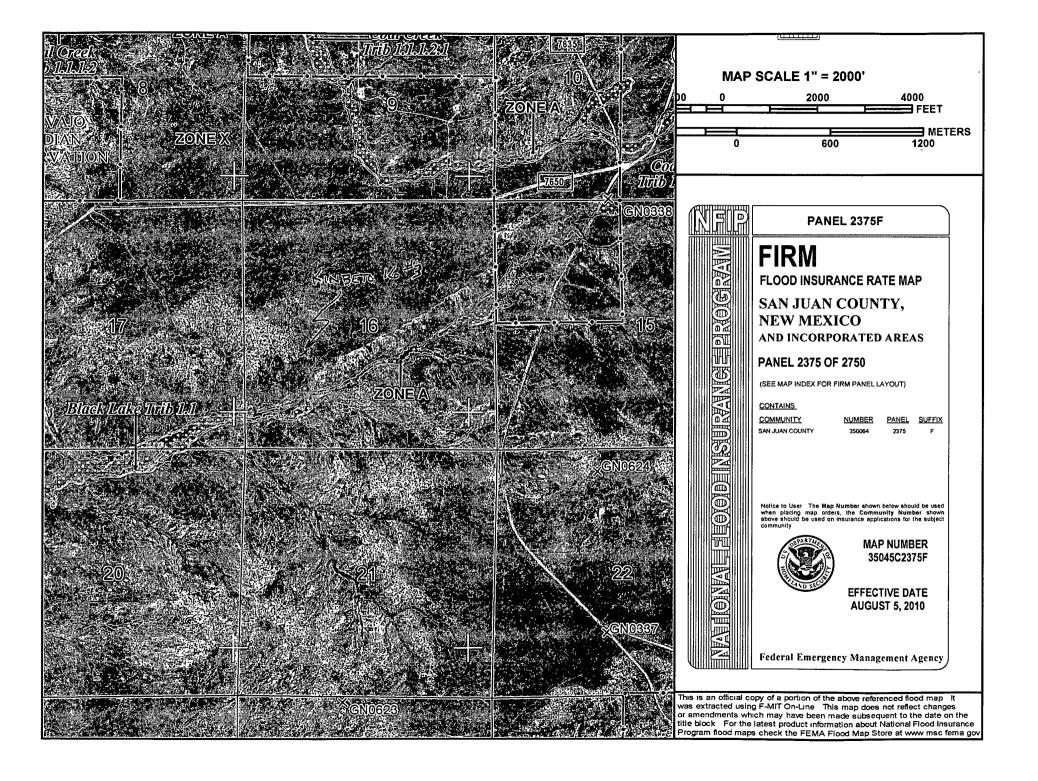
MMQonline Public Version

Mines, Mills & Quarries Commodity Groups **Aggregate & Stone Mines Coal Mines Industrial Minerals Mines Industrial Minerals Mills Metal Mines and Mill Concentrate Potash Mines & Refineries** Smelters & Refinery Ops. **Uranium Mines Uranium Mills Population** Cities (2000 Census) **Transportation** Railways **Interstate Highways Major Roads**









THOMPSON ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax (505) 327-9834

June 19, 2012

CERTIFIED MAIL

Mr. Larry Roybal New Mexico State Land Office Oil, Gas, and Minerals Division 310 Old Santa Fe Trail Santa Fe, NM 87501-2708

Re:

Thompson Engineering and Production Corp.

Kınbeto 16 #3

Section 16, T23N, R10W

Dear Mr. Roybal

According to NMOCD rules, Thompson Engineering and Production Corp. is notifying you that they intend to bury the drill cuttings in the reserve pit, assuming that they qualify as per Subsection B of 19.15.17.13 (B) (1)(b) NMAC. No action is required on your part. If you have any questions, please don't hesitate to call me.

Sincerely,

Paul C. Thompson, P.E.

Paul C. Thomps -

Agent for Logos Capital Management, LLC

PS Form 3811, February 2004 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, (Transfer from service label) Article Number Article Addressed to: or on the front if space permits. U.S. Postal Service™ CERTIFIED MAILTM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) Postage Certified Fee Return Receipt Fee (Endorsement Required) Postmark unials Here 1011 Restricted Delivery Fee (Endorsement Required) Domestic Return Receipt 1570 A. Signature D. Is delivery address different from item 1? 1000 B. Received by (Printed Name) × COMPLETE THIS SECTION ON DELIVERY 3. Service Type

Lip Certified Mail

Registered

Insured Mail Restricted Delivery? (Extra Fee) If YES, enter delivery address below: 1650 Express Mail

(I) Return Receipt for Merchandise

C.O.D. **E2T**h C.O.D. C. Date of Delivery 102595-02-M-1540 ☐ Agent ☐ Addressee S & € Yes

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Thompson Engineering and Production Corp. San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19 15 17 the following information describes the design and construction for temporary pits on Thompson Engineering and Production Company's locations, this is Thompson Engineering and Production's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan

- 1 Thompson Engineering and Production will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2 Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration
- 3 Thompson Engineering and Production will post a well sign, not less than 12' by 14', on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator, the location of the well by unit letter, section, township rang, and emergency telephone numbers
- 4 Thompson Engineering and Production shall construct all new fences unitizing 48' steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or overwork operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5 Thompson Engineering and Production shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure
- 6 Thompson Engineering and Production shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot
- 7 Pit walls will be walked down by a crawler type tractor following construction
- 8 All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements
- 9 Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided
- 10 All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep
- 11 Thompson Engineering and Production will minimize liner seams and orient them up and down, not across a slope Factory seams will be used whenever possible. Thompson Engineering and Production will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. Thompson Engineering and Production will minimize the number of field seams in corners and irregularly shaped areas.
- 12 The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system
- 13 The pit shall be protected from run-off by constructing and maintaining diversion ditched around the location or around the perimeter of the pit in some cases
- 14 The volume of the pit shall not exceed 10 acre-feet, including freeboard
- 15 Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit
- 16 The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19 15 17 11 F 11
- 17 Thompson Engineering and Production will not allow freestanding liquids to remain on the unlined portion of temporary blow pit

Thompson Engineering and Production Resources Operating LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19 15 17 the following information described the operation and maintenance of temporary pits on Thompson Engineering and Production Company locations. This is Thompson Engineering and Production's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan

- 1 Thompson Engineering and Production will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2 Thompson Engineering and Production will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal, Inc. Permit # NM-01-005
- 3 Thompson Engineering and Production will not discharge or store any hazardous waste in any temporary pit
- 4 If any pit liner's integrity is compromised or if any penetration of the liner occurs above the liquid's surface, then Thompson Engineering and Production shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner
- If a leak develops below the liquid's level, Thompson Engineering and Production shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. Thompson Engineering and Production shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. Thompson Engineering and Production shall notify the Aztec division office as required pursuant to Subsection B of 19 15 3 116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1) and Subparagraph (d) of 19 15 3 116 NMAC shall be reported to the division's Environmental Bureau Chief
- The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or manifold system
- 7 The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases
- Thompson Engineering and Production shall immediately remove any visible layer or oil from the surface of temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will be stored on-site until closure of pit.
- 9 Only fluids generated during the drilling or workover process may be discharged into a temporary pit
- 10 Thompson Engineering and Production will maintain the temporary pit free of miscellaneous solid waste or debris
- 11 During drilling or workover operations, Thompson Engineering and Production will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. Thompson Engineering and Production will file this log with the Aztec Division office upon closure of the pit.
- 12 After drilling or workover operations, Thompson Engineering and Production will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at Thompson Engineering and Production's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13 Thompson Engineering and Production shall maintain at least two feet of freeboard for a temporary pit
- 14 Thompson Engineering and Production shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling or workover rig



Thompson Engineering and Production Company San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Thompson Engineering and Production Company's locations. This is Thompson Engineering and Production's standard procedure for all temporary pits. A Separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of the pit closure. Closure report will be filed on C-144 and incorporated the following.

- Detail on Capping and Covering, where applicable
- Plot Plan (Pit diagram)
- Inspection reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan

- 1 All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves
- 2 The preferred method of closure for all temporary pits will be on-site burial, assuming that all criteria listed in sub-section (B) of 19.15.17.13 are met
- The surface owner shall be notified of Thompson Engineering and Production's proposed closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested
- Within 6 months of the Rig Off status occurring Thompson Engineering and Production will ensure that temporary pits are closed, re-contoured, and reseeded
- Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally, The notification of closure will include the following
 - Operator's name
 - II. Location by Unit Letter, Section, Township, and Range Well name and API Number
- 6 Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken or remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liver will be disposed of at a licensed disposal facility.
- Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents
- A five point composite sample will be taken of the pit using sampling tools and all samples rested per Subsection B of 19.15.17 13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19 15 17 13 i e, Dig and haul

Components	Tests Method	Limit (mg/Kg)				
Benzene	EPA SW-846 8021B or 8260B	0 2				
BTEX	EPA SW-846 8021B or 8260B	50				
TPH	EPA SW-846 418.1	2500				
GRO/DRO	EPA SW-846 8015M	500				
Chlorides	EPA 300.1	1000				

- 9 Upon completion of solidification and testing, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 10 Re-contouring of location will match fit, shape, line, form and texture of the surrounding area Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11 Notification will be sent to OCD when the reclaimed area is seeded
- 12 Thompson Engineering and Production shall seed the distributed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods BLM or Forest Service stipulated seed mixed will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover thorough twp successive growing seasons Repeat seeding or planting will be continued until successful vegetative growth occurs
- 13 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be a four foot tall riser with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following. Operator Name, Lease Name, Well Name and Number, unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.