District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88240
District III
1000 Rio Brazos Road, Aztec, NM 8740
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico AUG _ 5 7000 gy Minerals and Natural Resources Department

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> Conservation Division South St. Francis Dr. Santa Fe, NM 87505

Form C-144 July 21, 2008

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 the standard of the santa fee and the standard of the standard of the santa fee.

provide a copy to the appropriate NMOCD District Office.

Proposed Alternative Method Permit or Closure Plan Application
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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Samson Resource Co. OGRID#: 20165
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary:
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 Seams: Welded Factory Other Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Form: C.141

Office servators Division

Pogs (+ 1) 5

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	le a mital
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)	поѕриаі,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7. 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)	
8.	
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 19.15.3.103 NMAC	
9.	
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:	office for
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.	office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10. 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 accep	ptable source
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office 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.	
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).	Yes X No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
 (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes 🂢 No ☐ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes X No
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	l res A No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes 🔀 No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	_ ~
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 ☐ Yes No ☐ 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 19.15.17.12 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: or Permit Number:
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
Previously 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)
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 Leak Detection 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 19.15.17.12 NMAC Freeboard and Overtopping Prevention 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 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: Drilling 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 On-site Trench 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 Site Reclamation 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 Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.									
Disposal Facility Name: Sun donce Services, Inc Disposal Facility Permit Number: 1/11-01-	0003								
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 ser Yes (If yes, please provide the information below) No	vice and operations?								
Required for impacted areas which will not be used for future service and operations: 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.									
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 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No								
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; 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								
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 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 19.15.17.11 NMAC 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 Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC									

19.	
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 belief.
Name (Print): Curtis Flanagan	Title: Engineering Technician
Signature: Unter Hornogram	Date:
e-mail address: cflonagon O somson. Co	om Telephone: (432) 686-6322
OCD Approval: Permit Application (including closure plan)	
OCD Representative Signature:	Approval Date: 8/22/08
Title: Geologist501099	OCD Permit Number: P1- DD321
Closure Report (required within 60 days of closure completion): Solutions: Operators are required to obtain an approved closure parties the closure report is required to be submitted to the division within 6 section of the form until an approved closure plan has been obtained	plan prior to implementing any closure activities and submitting the closure report. 60 days of the completion of the closure activities. Please do not complete this
22.	
Closure Method:	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop	p Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: iquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	
	Disposal Facility Permit Number:
Yes (If yes, please demonstrate compliance to the items below)	rmed on or in areas that will not be used for future service and operations? No
Required for impacted areas which will not be used for future service a	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 formark in the box that the decrease in the last the last the decrease in the last the last the decrease in the last the decrease in	ollowing 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	e 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
25.	
Operator Closure Certification:	
	s closure report is true, accurate and complete to the best of my knowledge and
Name (Print):	<u>-</u>
Signature:	
e-mail address:	Telephone:



Centennial Tower 200 N. Loraine, Suite 1010 Midland, TX 79701 USA 432/683-7063 Fax 432/683-6847

As required by provisions of Subsection B of 19.15.17.13 of the New Mexico Pit Rule Closure Requirements for Temporary Pits, Samson Resources (Samson) presents the following information and Confirmation Sampling Plan for the Osudo 33 State Com. #1 located in Section 33, Township 20S, Range 36E in Lea County, New Mexico.

Protocols and Procedures:

- 1. The permitted Lined Temporary Drilling Pit at the above location will be closed at cessation of operations and as soon as practicable. The closure will not extend beyond the six month statute limit.
- 2. All liquids will be removed from pit prior to beginning the closure process.
- 2. The temporary pit will be closed by excavating all contents, including synthetic pit liner prior and transferring pit materials to a division-approved facility to be reported on form C-144 Closure Report.

Confirmation Sampling Plan:

- 1. Sampling will be performed in accordance with rules of 19.15.17.10 NMAC.
- 2. To determine whether a release has occurred, at a minimum, a five point composite sample will be collected beneath the temporary pit by Mobil Lab, a third party consultant.
- 3. Individual grab samples will be collected from any area that is wet, discolored or showing other evidence of a release.
- 4. The samples will be analyzed for benzene, total BTEX, TPH, the GRO and DRO combined fraction of chlorides to demonstrate that the concentrations do not exceed the division approved EPA method's standards.
- 5. Notification of the confirmation sampling analytical results will be submitted on form C-141.

Disposal Facility Name and Permit Number:

- 1. The proposed primary Solid Waste Disposal Site will be Sundance Services, Inc., P.O. Box 1737, Eunice, NM 88231-1737 Phone: (505) 394-2511.
- 2. The facilities' Disposal Permit number is NM-01-0003

Soil Backfill and Cover Design Specifications:

1. If the Confirmation Sampling Plan demonstrates that a release has not occurred or that any release that has occurred does not exceed the division approved EPA method concentrations for the subject location, then the temporary pit excavation will be reclaimed according to Subsections G, H and I of 19.15.17.13 NMAC.



Centennial Tower 200 N. Loraine, Suite 1010 Midland, TX 79701 USA 432/683-7063 Fax 432/683-6847

Pg. 2

- 2. The temporary pit excavation will be backfilled and contoured with compacted, non-waste containing soil that consists of the background thickness of topsoil, which is approximately three to four feet.
- 3. The constructed soil cover will be that of the site's existing grade to prevent erosion and ponding of water and to allow the re-establishment of vegetation coverage.

Re-vegetation Plan:

- 1. Following the closure of the temporary pit at the Osudo 33 State Com. #1 in Lea County, New Mexico, the disturbed area(s) will be seeded within the first growing season.
- 2. Initial seeding will be accomplished by drilling on the contour. If re-seeding by drilling on the contour is not practical and can not be accomplished, an administrative approval from the Division District Office will be requested to use seeding by a broadcast technique as an alternative method.
- 3. A native perennial vegetative cover will be obtained through one or more of the methods described above that equal 70%.
- 4. The vegetative cover mixture will consist of at least three native plant species, including at least one native grass. Tomahawk Pumping will drill approximately 5 lbs of seed per acre.
- 5. The seed will consist of Sideoats Grama, Blue Grama, Buffalograss, and Sand Dropseed.
- 6. The vegetative cover will be maintained through two successive growing seasons with the addition of no artificial irrigation and will be re-seeded or planted until the required vegetative cover of 70% is achieved.

Site Reclamation Plan:

- 1. The temporary pit location and impacted surface area at the Osudo 33 State Com. #1 in Lea County, New Mexico will be reclaimed and restored to a stable condition that blends with the undisturbed surface area that existed prior to oil and gas operations.
- 2. As required by Subsections H and I of 19.15.17.13 NMAC, the location will be backfilled with non-waste containing soil, re-contoured to the original contour that blends with surrounding topography, and re-vegetated to achieve 70% of the native perennial cover.

WT Plastics, Ltd.

P.O. Bo:: 60004 Midland, Texas 79711

Phone 432-563-4005 Fax 432-561-5209

07/28/2008 15:05 FAX 4325615209



SEASON SERVICES	Marinesi 🖃		SINGE IN THE		
	Controller Con-	1 to 100 to			J.J.
		English	Metric	English	Metric
Appearance			Black or Black		k/Black
Thickness, Nominal		8 mil	0.20 mm	12 mii	0 30 mm
Weight		40 lbs/MSF	18kg/MSF	60 Iby/MSF	27 kg/MSF
		5.8 oz./yd1	197 GSM	8.6 oz/yd²	291 GSM
Construction		Extrusio	n laminated w	ith scrim reinf	orcement
I" Tensile Strength	ASTM D7003	52 lbf.	231 N	59 lbf.	263 N
Elongation at Break	ASTM D7003	600%	600%	650%	650%
Grab Tensile	ASTM D7004	70 lbf.	312 N	90 lbf.	400 N
*Trapezord Tear	ASTM D4533	55 lbf. '	245 N	72 lbf.	320 N
Hydrostatic Resistance	ASTM D751	70 psi	482 kPa	100 psi	689 kPa
Meximum Use Temperature		180°F	82°C	180°F	82°C
Minimum Use Temperature		· -70°F	-57°C	-70°F	•57°C
Permeability					-37 C
WVTR	ASTM E96 Procedure B	0.030 g/t00in4/day	0.46 g/m³/day	0.023 g/100in-/day	0.35 g/m/day
Perm Rating	ASTM E96 Procedure B	0.066 U.S. Parme	0,044 Metric Perres	0.051 U.S. Porms	0.034 Matria Perma

^{*}Tests are an average of diagonal directions.

BWE BBB 12br Lnr. used

DURA-SKRIM® 8 and 12 both meet or exceed ASTM E-1745, Class "C" standard for water vapor retarders used in contect with soil or granular fill under concrete slabs.

DURA-SKRIM® 8BBR, 8WB and 12BBR are four layer reinforced extrusion laminates. The black outer layers cons st of a high-strength polyethylene film containing carbon black. The white side contains UV and thermal stabilizers.

DURA-SKRIM® 8BBR, 8WB & 12BBR are reinforced with a minimum of 1000 denier scrim laid in a diagonal pattern-spaced 3/8" apart with an additional machine direction scrim every 3" across the width. The individual plies are laminated together with molten polyethylene.

NOTE: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. WEST TEXAS PLASTICS, INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

\$100cuments/specialters/BRB,RWB,12BBOetoban/6.ml

Test Hole Osudo 33 5+#1

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5/11/08
     Min/2'
0-21 Sandy Soil
  4 -
  8 -
 10-
  61
  81
20 - Caliche + Clay
 81
401 - Mstly Rd Clay, Some
       Layer of Sil+stone
 31
502
 81-
601
 21
 41
 81
70 1
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Drilled 4/2" Hole W/ Drag Bit + Air Foam Rotary. Shut Now N 25 Min. After Blowing Hole Clear. Restorted air And blew hole to check for water. None Was found. Plugged hole to surface w/ Bentonice Was found. Plugged hole to surface w/ Bentonice Chips.

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 20S Range: 36E Sections:							
NAD27 X: Y: Zone: Search Radius:							
County: LE Basin: Number: Suffix:							
Owner Name: (First) (Last) C Non-Domestic C Domestic C All							
POD / Surface Data Report Avg Depth to Water Report Water Column Report							
Clear Form iWATERS Menu Help							

POD / SURFACE DATA REPORT 07/15/2008

						(quarters are	1=NW	2=NE 3	=SW 4=SE)		
	(acre ft	per annu	ım)			(quarters are	bigge	est to	smallest	хуа	are ir
DB File Nbr	Use Di	version	Owner	POD	Number	Source	Tws	Rng Se	cqqq	Zone	3
L 01522	STK	3	B.E. HUGHES	L	01522		20S	36E 08	1 1 1		
				L	01522 APPRO		20S	36E 08	1 1 1		
L 02420	PRO	3	MORAN DRILLING CO.	L	02420	Shallow	20S	36E 18	1 2		
				L	02420 APPRO	Shallow	20S	36E 18	1 2		
L 02540	PRO	3	AMERANDA PETROLEUM CORP.	L	02540		20S	36E 34	2 4 3		
L 02552	PRO	3	AMERDA PETROLEUM CO.	L	02552		20S	36E 34	2 4		
L 02584	PRO	0	AMERADA PETROLEUM CORPORATION	L	02584	Shallow	20S	36E 26	1 4 4		
				L	02584 APPRO	Shallow	20S	36E 26	1 4 4		
L 02707	PRO	3	CONTINENTAL OIL CO.	L	02707	Shallow	20S	36E 09	2 2 2		
				L	02707 APPRO	Shallow	20S	36E 09	2 2 2		
L 03188	PRO	3	AMERADA PETROLEUM CORPORATION	L	03188		20S	36E 01	4 1 2		
				L	03188 APPRO		20S	36E 01	4 1 2		
L 03814	DOM	3	W. C. BYRD	L	03814	Shallow	20S	36E 01	2 2 2		
				L	03814 APPRO	Shallow	20S	36E 01	2 2 2		
L 04506	PRO	3	CONTINENTAL OIL CO.	L	04506	Shallow	20S	36E 14	3 3		
				L	04506 APPRO	Shallow	20S	36E 14	3 3		
L 04507	PRO	3	CONTINENTAL OIL CO.	L	04507	Shallow	20S	36E 14	2 3		
				L	04507 APPRO	Shallow	20S	36E 14	2 3		
L 04736	DOM	3	CLIMAX CHEMICAL COMPANY	L	04736	Shallow	20S	36E 02	1 1		
				L	04736 APPRO	Shallow	20S	36E 02	1 1		
L 06667	STK	0	COOPER BROTHERS	L	06667 EXP		20S	36E 14	4 1 1		

L L L L L L	06986 10135 10246 10247 10248 10249 10250 10251	DOM STK DOM DOM DOM DOM DOM DOM DOM	3 0 0 0 0 -	EDWARD H. KLEIN JIM COOPER KLEIN FAYE L KLEIN FAYE L KLEIN FAYE L KLEIN FAYE L FOR HARRY SCOTT & KLEIN FAYE L KLEIN FAYE L KLEIN FAYE L KLEIN FAYE L	L L L L L	06986 10135 10246 10247 10248 10249 10250 10251	Shallow Shallow Shallow Shallow Shallow Shallow Shallow Shallow	20S 20S 20S 20S 20S 20S 20S 20S 20S	36E 15 36E 14 36E 03 36E 05 36E 09 36E 10 36E 10 36E 11	1 1 2 4 4	1 1 3 3 3 3 4	=
<u>L</u>	10252 11184	DOM DOM	0 3	KLEIN FAYE L JIM COOPER	L L	10252 11184	Shallow Shallow	20S 20S	36E 15 36E 26	2	4 2 2	<u>}</u>

Record Count: 31

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 20S Range: 36E Sections: 33
NAD27 X: Y: Zone: Search Radius:
County: LE Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic O Domestic All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help
POD / SURFACE DATA REPORT 07/17/2008
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest X Y are ir B File Nbr Use Diversion Owner POD Number Source Tws Rng Sec q q q Zone }
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No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

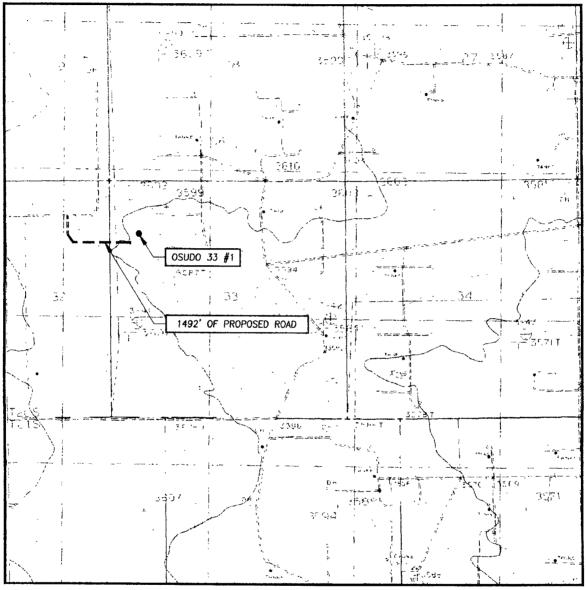
Township:	20S Range: 36E Sections:	
NAD27 X:	Y: Zone: Search Radius:	
County: LE	Basin: Number: Suffix:	
Owner Name: (First)	(Last) C Non-Domestic C Domestic All	
POD/Surface Data	Report Avg Depth to Water Report Water Column Report	
	Clear Form WATERS Menu Help	

AVERAGE DEPTH OF WATER REPORT 07/15/2008

							(Depth	Water in	Feet)
Bsn	Tws	Rng Se	c Zone	X	Y	Wells	Min	Max	Avg
L	20S	36E 01				3	40	40	40
L	20S	36E 02	:			2	92	92	92
\mathbf{L}	20S	36E 09	1			2	38	38	38
\mathbf{r}	20S	36E 14	:			5	20	53	45
L	20S	36E 15	•			1	265	265	265
L	20S	36E 18	3			2	34	34	34
L	20S	36E 26	;		-	2	170	170	170

Record Count: 17

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: MONUMENT SOUTH, N.M. - 5'

SEC. 33 TWP. 20-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1160' FNL & 660' FWL

ELEVATION 3597'

OPERATOR SAMSON RESOURCES

LEASE OSUDO 33

U.S.G.S. TOPOGRAPHIC MAP

MONUMENT SOUTH, N.M.



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