



ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

16 January 2008

Mr. Larry Johnson
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RECEIVED

JAN 17 2008

HOBBS OCD

Re: Initial C-141
Apache Corporation (O-grid 873)
North Monument Grayburg San Andres Unit (NMGSAU) #368
API # 30-025-~~4~~38459
UL-O (SW $\frac{1}{4}$ of the SE $\frac{1}{4}$) Section 19, Township 19 South, Range 37 East
Latitude N 32° 38' 29.54" and Longitude W 103° 17' 24.07"

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Apache Corporation, submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above-referenced leak site.

The site is located approximately 2 miles northwest of Monument, New Mexico (reference *Figure 1*) on land owned by the State of New Mexico (administered by the New Mexico State Land Office) and agriculturally leased by Mr. Jimmie T. Cooper.

Information obtained from the New Mexico Office of the State Engineer's website and a United States Geological Survey (USGS) database indicates no water supply wells exist within a 1,000-foot radius of the release site. However, eight (8) water supply wells are located within a 1.0-mile radius of the release site (reference *Figure 2*). Groundwater level data indicates an average depth of approximately 40-feet below ground surface (reference *Table 1*). The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

Approximately 45 barrels of drilling brine (~25 barrels on location and ~20 barrels off location) were released due to excessive flow back during well logging.

Should you have any questions or concerns please contact me at (505) 394-3481 or via e-mail at jstegemoller@envplus.net or Mr. Harold Swain at (505) 390-4368 or via e-mail at harold.swain@usa.apachecorp.com. All official communication should be addressed to:

Mr. Harold Swain
Apache Corporation
P.O. Box 848
Wink, TX 79789

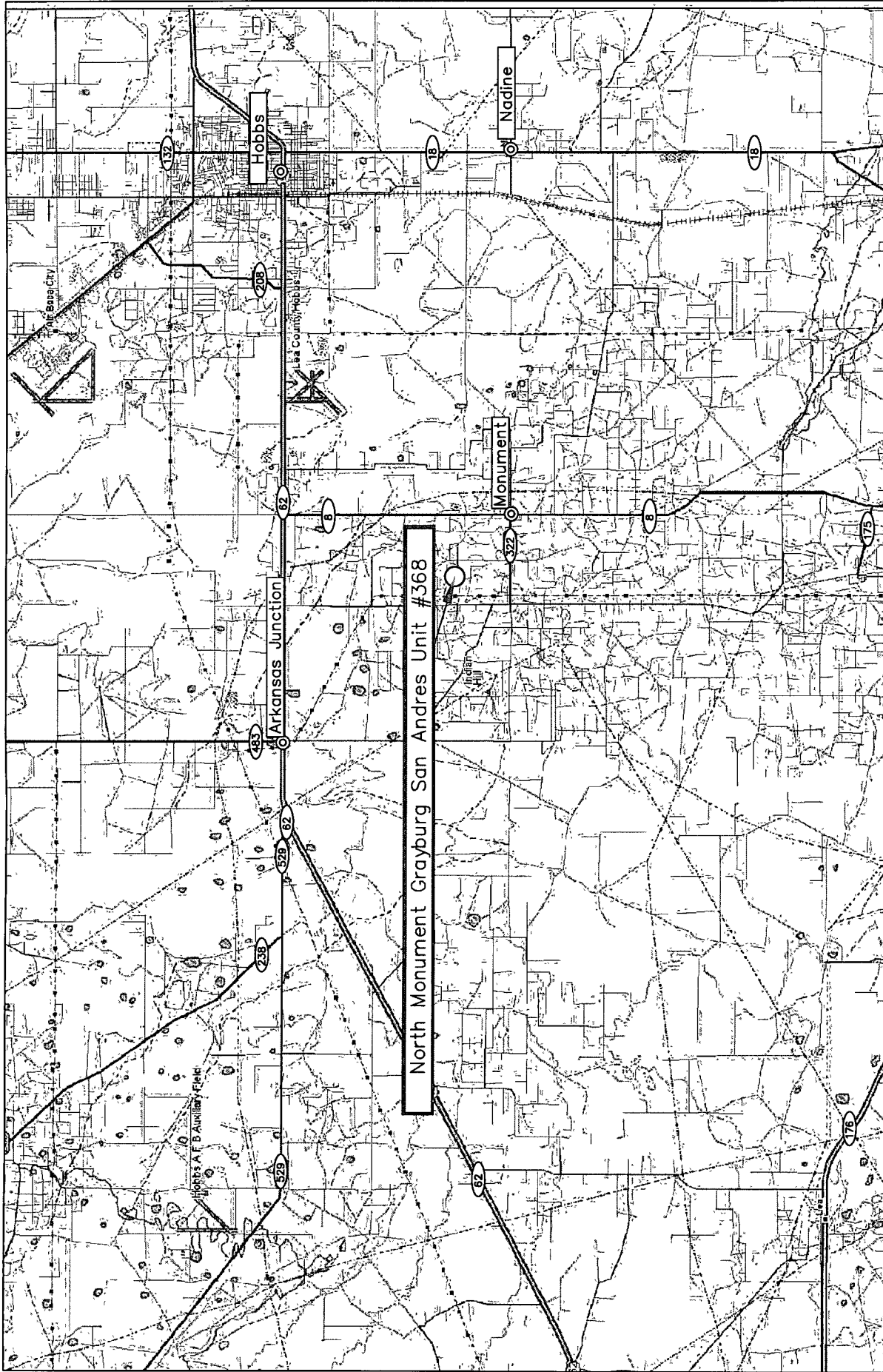
Sincerely,

ENVIRONMENTAL PLUS, INC.



Jason Stegemoller
Environmental Scientist

cc: Harold Swain, Apache Corp.
Jimmie T. Cooper, Agricultural Lessee
Thaddeus Kostrubala, NMSLO – Sante Fe
Myra Meyers, NMSLO – Hobbs
File



<p>Figure 1 Area Map Apache Corporation North Monument Grayburg San Andres Unit #368</p>	<p>Lea County, New Mexico SW 1/4 of the SE 1/4, Sec. 19, T19S, R37E N 32° 38' 29.54" W 103° 17' 24.07" Elevation: 3,657 feet amsl</p>	<p>DWG By: Jason Stegemoller January 2008</p> <p>REVISED:</p> <p>SHEET 1 of 1</p> <p>0 3 6 Miles</p>
--	---	--

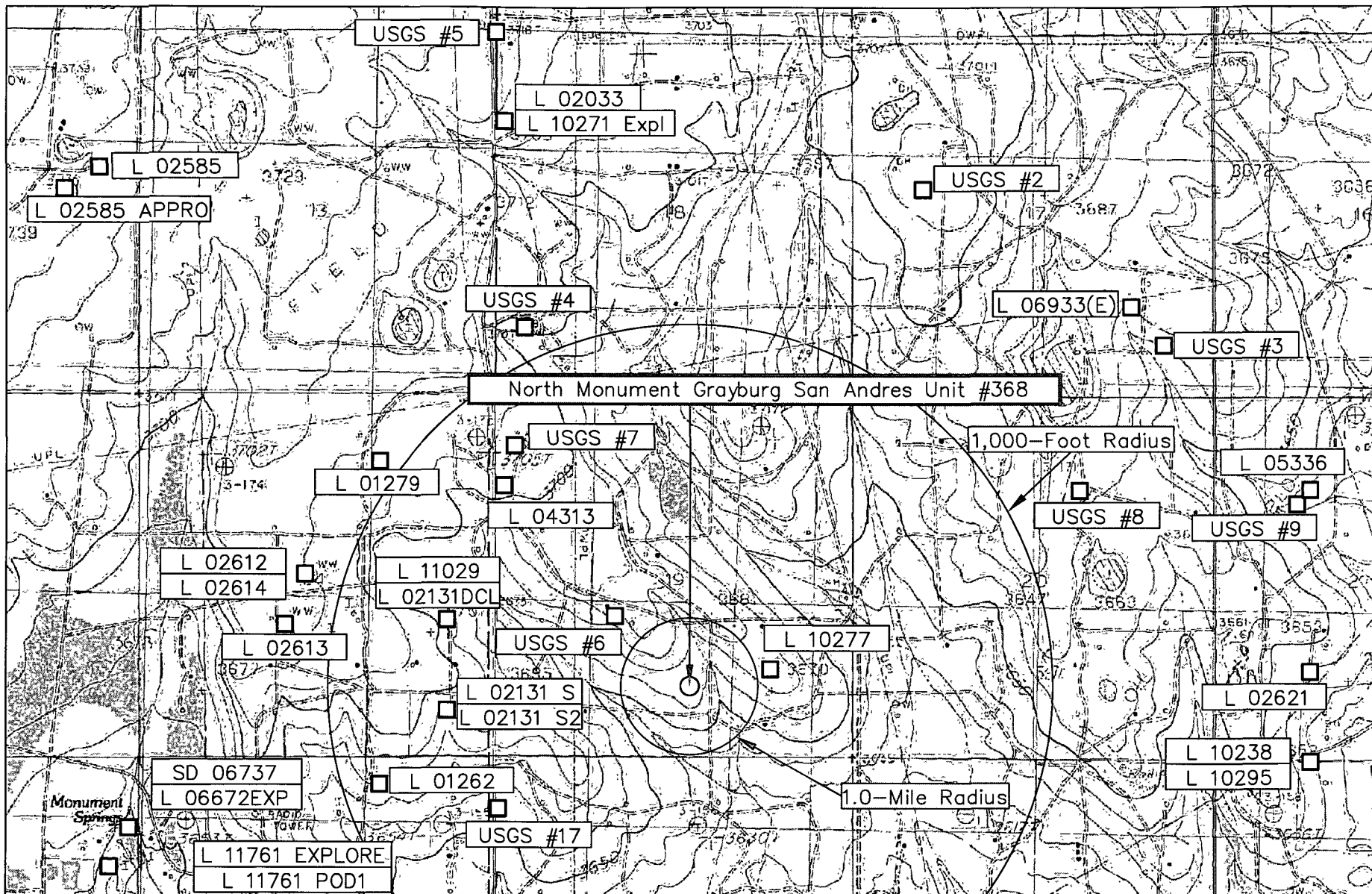
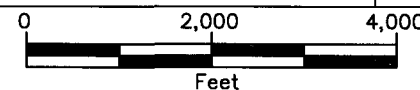


Figure 2
Site Location Map
Apache Corporation
North Monument Grayburg
San Andres Unit #368

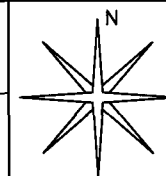
Lea County, New Mexico
SW 1/4 of the SE 1/4, Sec. 19, T19S, R37E
N 32° 38' 29.54" W 103° 17' 24.07"
Elevation: 3,657 feet amsl

DWG By: Jason Stegemoller
January 2008

REVISED:



SHEET
1 of 1



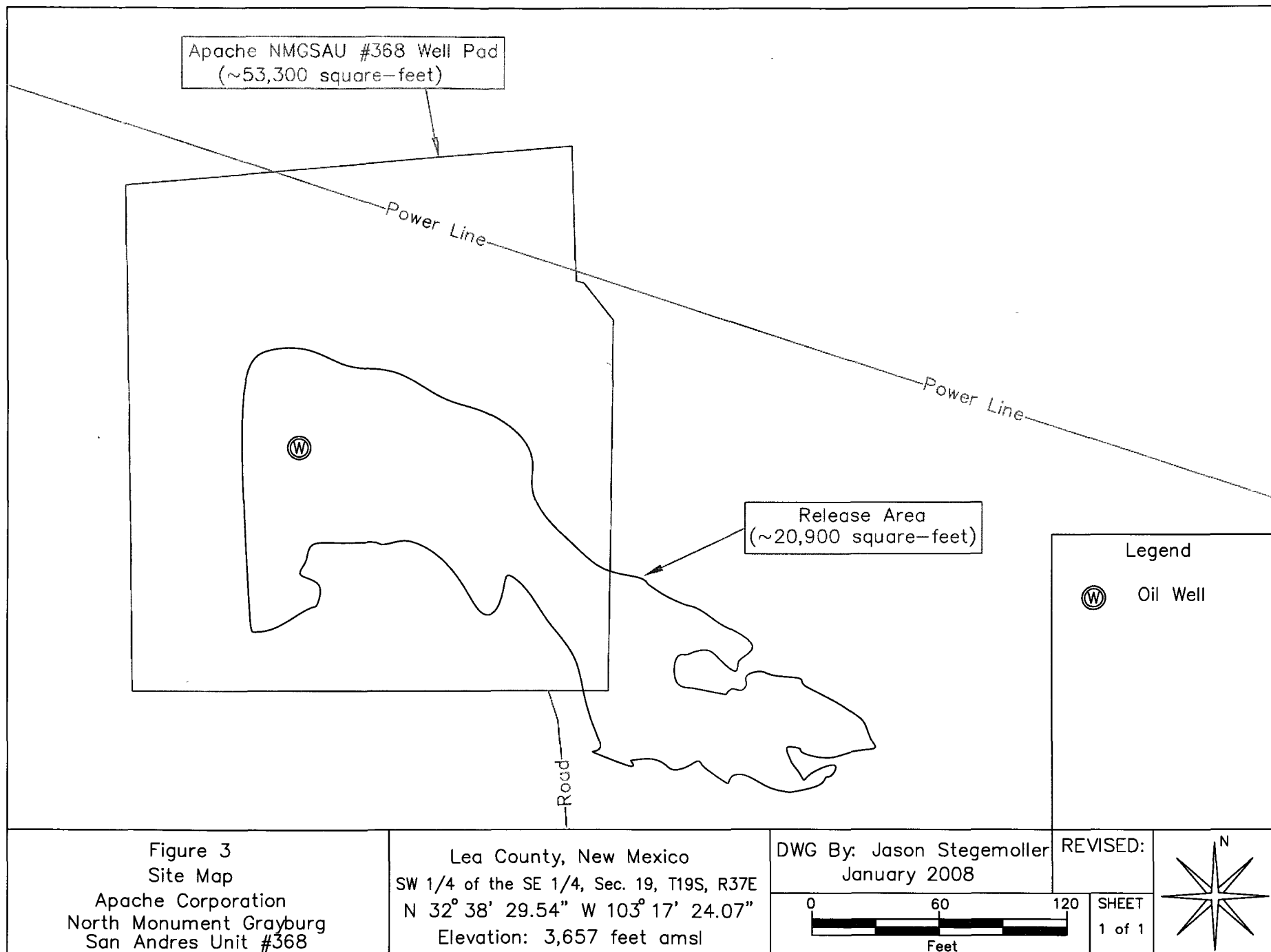


TABLE 1

Well Data

Apache Corporation - North Monument Grayburg San Andres Unit #368 (Ref. # 240017)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
L 06933 (E)	0	GULF OIL CORPORATION	PRO	19S	37E	17 4 2 3	N32° 39' 23.47"	W103° 16' 7.86"	12-Apr-72	3,678	65
USGS #2				19S	37E	17 1 3 4			27-Feb-96	3,706	62.54
USGS #3				19S	37E	17 4 3 1			24-Apr-91	3,670	36.96
USGS #4				19S	37E	18 3 3 1			18-Mar-54	3,701	51.93
USGS #5				19S	37E	18 1 1 1			22-Feb-91	3,716	63.87
L 02033	0	MONUMENT WATER USERS	DOM	19S	37E	18 1 1 1	N32° 39' 50.42"	W103° 17' 55.35"	12-Sep-47	3,717	35
L 10271 EXPL	0	INC SNYDER RANCHES	EXP	19S	37E	18 1 1 1	N32° 39' 50.42"	W103° 17' 55.35"	13-Jul-92	3,717	70
USGS #6				19S	37E	19 3 2 1			21-Feb-91	3,670	58.43
USGS #7				19S	37E	19 1 1 3			06-Mar-96	3,702	57.31
L 04313	3	MCVAY AND STAFFORD DRILLING CO	PRO	19S	37E	19 1 1	N32° 38' 58.03"	W103° 17' 55.36"	23-Oct-59	3,704	52
L 10277	3	INC. SNYDER RANCHES	STK	19S	37E	19 4 2 2	N32° 38' 31.48"	W103° 17' 9.65"	10-Jul-92	3,678	40
USGS #8				19S	37E	20 2 3 1			19-Apr-68	3,662	47.85
L 02621	3	LA MANCE DRILLING COMPANY	PRO	19S	37E	21 3 2 3	N32° 38' 31.20"	W103° 15' 37.02"	14-Sep-54	3,642	40
L 05336	0	GULF OIL CORPORATION	PRO	19S	37E	21 1 2 4	N32° 38' 57.29"	W103° 15' 37.00"	15-Feb-64	3,639	30
L 10238	3	W. S. ISRAEL	DOM	19S	37E	21 3 4 3	N32° 38' 18.16"	W103° 15' 37.03"	19-Mar-92	3,637	30
L 10295	3	TERRY ISRAEL	DOM	19S	37E	21 3 4 3	N32° 38' 18.16"	W103° 15' 37.03"	29-Oct-92	3,637	30
USGS #9				19S	37E	21 1 3 2			29-Feb-96	3,640	24.13
USGS #17				19S	37E	30 1 1 1			11-Feb-66	3,654	26.88
L 01262		GULF OIL CORPORATION	PRO	19S	36E	25 2 1 2				3,655	
L 01279		GULF OIL CORPORATION	PRO	19S	36E	24 2 1 4				3,707	
L 02131 DCL		THE TEXAS COMPANY	COM	19S	36E	24 4 2				3,695	
L 02131 S		THE TEXAS COMPANY		19S	36E	24 4 4				3,695	
L 02131 S 2		THE TEXAS COMPANY		19S	36E	24 4 4				3,695	
L 02585		DILLARD & WALTERMIRE DRILLING	PRO	19S	36E	14 2 4			13-Jul-54	3,735	63
L 02585 APPRO		DILLARD & WALTERMIRE DRILLING		19S	36E	14 2 4 3			13-Jul-54	3,735	63
L 02612		VERSADO GAS PROCESSORS, LLC	IND	19S	36E	24 3 2 2				3,710	
L 02613		VERSADO GAS PROCESSORS, LLC	IND	19S	36E	24 3 2 4				3,712	
L 11029		CHEVRON USA INC	POL	19S	36E	24 4 2			14-Oct-99	3,695	59
L 02614		VERSADO GAS PROCESSORS, LLC	IND	19S	36E	24 3 2 2				3,710	
L 06672 EXP		JINNIE T COOPER	DOM	19S	36E	26 2 2 4				3,650	
L 11761 EXPLORE		JIM COOPER	EXP	19S	36E	26 2 4 2				3,645	
L 11761 POD1				19S	36E	26 2 4 2				3,645	
SD 06737		MONUMENT SPRINGS RANCH	PLS	19S	36E	26 2 2 4			12/31/1869	3,650	
L 05123 EXPL		CLIMAX CHEMICAL COMPANY	EXP	19S	36E	14 1 3			15-Feb-64		55
L 02881		HOWARD P. HOLMES DRILLING	PRO	19S	36E	14			30-May-55		50
L 02881 APPRO		HOWARD P. HOLMES DRILLING		19S	36E	14			30-May-55		50
L 03097		OSCAR BOURG DRILLING CO	PRO	19S	36E	14			11-Feb-56		50
L 03097 APPRO		OSCAR BOURG DRILLING CO		19S	36E	14			11-Feb-56		50
L 01140		ELLEN WEIR & SONS	STK	19S	36E	23 1			13-Oct-51		45
L 01140 APPRO		ELLEN WEIR & SONS		19S	36E	23 1			13-Oct-51		45
L 01140 REPAR		ELLEN WEIR & SONS		19S	36E	23 1	N32° 38' 44.26"	W104° 21' 37.39"	18-Jul-53		45
L 03098		THE TEXAS COMPANY	PRO	19S	36E	23 1 2			25-Jan-56		55
L 03098 APPRO		THE TEXAS COMPANY		19S	36E	23 1 2			25-Jan-56		55
L 04719		MONUMENT, LLC	IND	19S	36E	23 1 1	N32° 38' 58.04"	W103° 19' 59.05"			
L 04719		STATE OF NEW MEXICO	IND	19S	36E	23 1 1	N33° 38' 58.04"	W104° 19' 59.05"			
L 04746 EXPL		CLIMAX CHEMICAL COMPANY	EXP	19S	36E	23			29-Nov-61		57
L 04772 EXPL		CLIMAX CHEMICAL COMPANY	EXP	19S	36E	24			28-Dec-61		70

TABLE 1

Well Data

Apache Corporation - North Monument Grayburg San Andres Unit #368 (Ref. # 240017)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
L 01278		GULF OIL CORPORATION	MUL	19S	36E	26 4 1 2					
L 06121 EXP		W. B. BAUM	DOM	19S	36E	26 2					
L 03982 APPRO				19S	37E	28 3 3 3	N32° 37' 25.94"	W103° 15' 52.53"	10-Nov-58	3,606	31
L 03884	3	R. L. LEWIS	DOM	19S	37E	28	N32° 37' 25.94"	W103° 15' 52.53"	14-Jun-58	3,606	30
L 02596	3	MAKIN DRILLING COMPANY	PRO	19S	37E	29 3 2	N32° 37' 39.11"	W103° 16' 38.84"	20-Jul-54	3,609	20
L 03922	3	LEON DICKERSON	DOM	19S	37E	29	N32° 37' 26.10"	W103° 16' 54.28"	11-Aug-58	3,596	22
L 03949	3	ROY L. WHEELER	DOM	19S	37E	29	N32° 37' 26.10"	W103° 16' 54.28"	12-Aug-58	3,596	18
L 03956	3	DENNIS C. SMITH	DOM	19S	37E	29	N32° 37' 26.10"	W103° 16' 54.28"	13-Aug-58	3,596	20
L 03995	3	W. E. COPELAND	DOM	19S	37E	30 4 4	N32° 37' 26.16"	W103° 17' 9.72"	26-Sep-58	3,599	20
L 05995	3	H. L. STEPHENS	DOM	19S	37E	30 4 4 4	N32° 37' 26.16"	W103° 17' 9.72"	04-Aug-66	3,599	23
L 03905	3	LILLIE B. LONGNELKER	DOM	19S	37E	30 4 4 4	N32° 37' 26.16"	W103° 17' 9.72"	11-Aug-58	3,599	20
L 03906	3	ROBERT P. III SHORT	DOM	19S	37E	30 4 4 4	N32° 37' 26.16"	W103° 17' 9.72"	11-Aug-58	3,599	20
L 03954	3	K. W. LITTLE	DOM	19S	37E	30 4 4	N32° 37' 26.16"	W103° 17' 9.72"	10-Aug-58	3,599	20
L 01975 APPRO	3	O & W DRUG CO.	PRO	19S	37E	16 4 3	N32° 39' 10.30"	W103° 15' 21.56"	12-Feb-53	3,638	20
L 03185	3	CARPER DRILLING CO.	PRO	19S	37E	16 2 4	N32° 39' 36.37"	W103° 15' 6.16"	24-Apr-56	3,668	45
L 03228	3	MAKIN DRILLING COMPANY	PRO	19S	37E	16 4 4	N32° 39' 10.26"	W103° 15' 6.14"	18-Jun-56	3,641	42
USGS #1				19S	37E	16 2 3 3			08-Mar-91	3,648	26.94
L 04108	3	R. H. HUSTON	PRO	19S	37E	21 4 2	N32° 38' 31.15"	W103° 15' 6.17"	01-Apr-59	3,619	22
L 09163	3	LEROY LOTT	DOM	19S	37E	21 2 3 2	N32° 38' 44.21"	W103° 15' 21.58"	16-Apr-83	3,632	47
USGS #10				19S	37E	21 4 3 1			09-Jan-86	3,614	16.19
USGS #11				19S	37E	28 4 2 4			18-Apr-91		20.30
USGS #12				19S	37E	29 3 2 2			16-Jan-81		17.50
USGS #13				19S	37E	29 3 4 4			23-Mar-60		21.50P
USGS #14				19S	37E	29 4 4 4			22-Feb-80		34.45
USGS #15				19S	37E	29 4 4 4			19-Jan-71		35.05
USGS #16				19S	37E	29 3 3 3			18-Apr-91		13.01

^A = In acre feet per annum^B = Elevation interpolated from USGS topographical map based on referenced location

PRO = Prospecting or development of natural resource

DOM = Domestic

EXP = Exploration

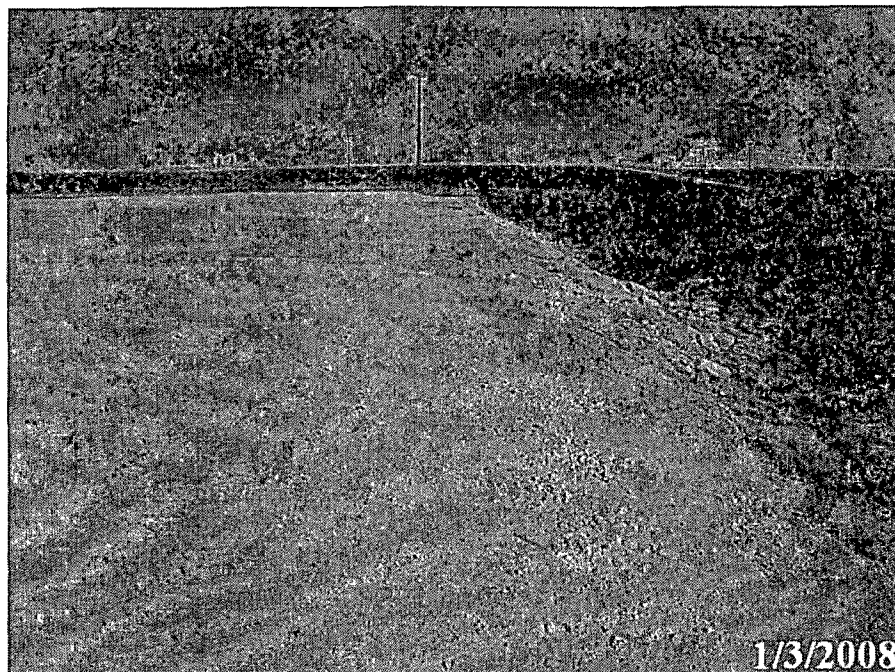
STK = Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE, quarters are biggest to smallest

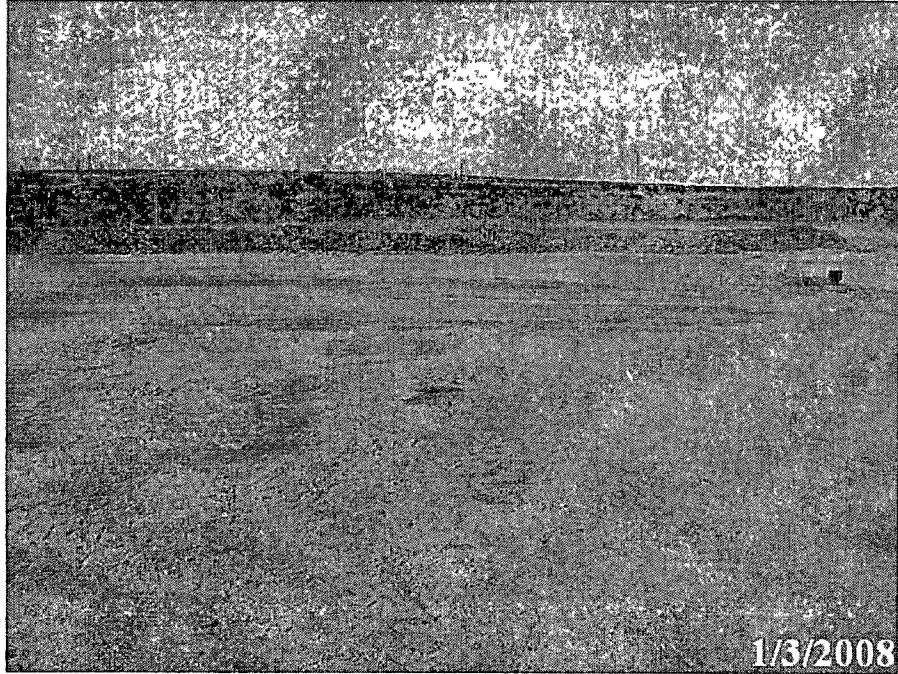
Shaded areas indicate wells not shown on Figure 2



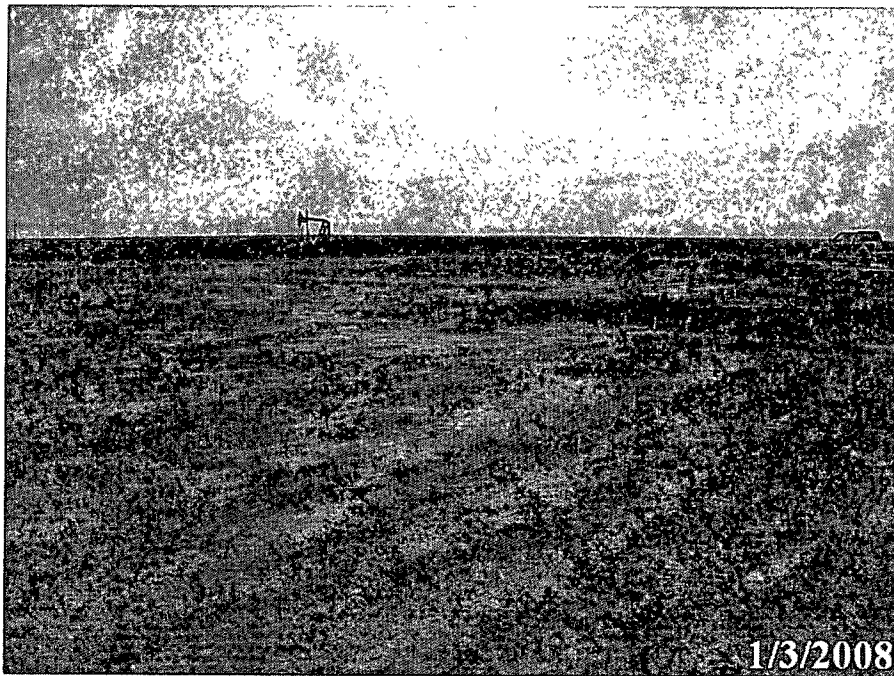
Photograph #1-Well Lease Sign



Photograph #2-Looking north across release area from southeast edge of well pad.



Photograph #3-Looking west across well pad release area.



Photograph #4-Looking southeasterly across well pad release area.



Photo #5- Looking easterly across pasture release area.



Photo #5- Looking northerly across pasture release area.



Incident Date:
December 22, 2007

NMOCD Notified:
January 2, 2008

Information and Metrics

Site: North Monument Grayburg San Andres (NMGSAU) #368		Assigned Site Reference : #240017	
Company: Apache Corporation (O-grid 873)			
Street Address:			
Mailing Address: P.O. Box 848			
City, State, Zip: Wink, Texas 79789			
Representative: Harold Swain			
Representative Telephone: 915-527-3311 (office)			
Telephone:			
Fluid volume released (bbls): ~45 bbls (~25 bbls on location; ~20 bbls off location)		Recovered (bbls): >5 bbls	
<p>>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)</p>			
<p>5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)</p>			
Leak, Spill, or Pit (LSP) Name: North Monument Grayburg San Andres Unit (NMGSAU) #368; API# 30-025-38459			
Source of contamination: Drilling Fluids			
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico, Agriculturally leased by Mr. Jimmie T. Cooper			
LSP Dimensions: 328 feet by 153 feet (Maximum dimensions)			
LSP Area: ~20,900 ft ² Total Area (~14,100 ft ² of well pad and ~6,800 ft ² of pasture area)			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: N 32° 38' 29.54			
Longitude: W 103° 17' 24.07"			
Elevation above mean sea level: 3,657 feet			
Feet from South Section Line: 1,060 feet			
Feet from East Section Line: 2,420 feet			
Location- Unit or ¼¼: SW¼ of the SE¼		Unit Letter: O	
Location- Section: 19			
Location- Township: T19S			
Location- Range: R37E			
Surface water body within 1000 ' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to groundwater (DG): ~40feet			
Depth of contamination (DC): unknown			
Depth to groundwater (DG - DC = DtGW): unknown			
1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: <i>20 points</i>	If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i>	<200 horizontal feet: <i>20 points</i>	
If Depth to GW 50 to 99 feet: <i>10 points</i>		200-1000 horizontal feet: <i>10 points</i>	
If Depth to GW >100 feet: <i>0 points</i>	If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>	>1000 horizontal feet: <i>0 points</i>	
Site Rank (1+2+3) = 20			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis			

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

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

Form C-141
Revised October 10, 2003

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

Informational - Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Harold Swain
Address: P.O. Box 848, Wink, TX 79789	Telephone No.: (915) 527-3311
Facility Name: North Monument Grayburg San Andres Unit (NMGSAU) #368	Facility Type: Well Pad (New Well) API #30-025-38459

Surface Owner: State of New Mexico	Mineral Owner:	Lease No.:
------------------------------------	----------------	------------

LOCATION OF RELEASE

Unit Letter O	Section 19	Township 19S	Range 37E	Feet from the 1,060	North/South Line South	Feet from the 2,420	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	------------------------	---------------------------	------------------------	------------------------	---------------

Latitude: N 32° 38' 29.54" Longitude: W 103° 17' 24.07"

NATURE OF RELEASE

Type of Release: Drilling brine	Volume of Release: ~45 bbls	Volume Recovered: >5 bbls
Source of Release: Overflow of closed loop containment	Date and Hour of Occurrence: December 22, 2007 @ 09:00 hrs	Date and Hour of Discovery: December 22, 2007 @ 09:00 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Chris Williams, NMOCD - Hobbs	
By Whom? Billy L. Stockton	Date and Hour: December 22, 2007 @ 12:45 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* Well bore flow back volume during new well logging was in excess of closed loop system capacity. Drilling brine was released onto location (well pad) and flowed southeast off location into pasture. A berm was built around well cellar to contain flow back while vacuum trucks recovered free fluid within bermed area. Well was cemented and flow back ceased. Approximately 45 barrels (~25 bbls on location and ~20 bbls off location) of drilling fluid were released from containment system during drilling operations.

Describe Area Affected and Cleanup Action Taken.* Approximately 20,900 ft² of area (~14,100 ft² of well pad and ~6,800 ft² of pasture) were impacted by the release. A backhoe was utilized to blend impacted well pad materials. No actions were performed upon pasture area.

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

Signature: <i>Harold Swain</i>	OIL CONSERVATION DIVISION <i>Pat Richards</i> COMPLIANCE OFFICER Approved by <i>Pat Richards</i> in absence of <i>Larry Johnson</i>	
Printed Name: Harold Swain	Approval Date: <i>1/17/08</i> Expiration Date: <i>3/3/08</i>	
Title: Drilling Foreman, Permian Basin	Conditions of Approval: <i>Delineation of work</i>	Attached <input type="checkbox"/>
E-mail Address: Harold.swain@usa.apachecorp.com	Date: <i>1-10-08</i> Phone: 915-527-3311	

* Attach Additional Sheets If Necessary

due by:

RP# 1746