am 3160-3 (April 2004)

N.M. Oil Cons. DiV-Dist. 2 1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

Lease Serial No. NM 24160 6/582

APPLICATION FOR PERMIT TO	DRILL OR REENTERMAY	1 6 2005	6. If Indian, Alloto	ee or Tribe Name	
la. Type of work: DRILL REENT	ER OCD	MITES	If Unit or CA Ag	greement, Name and No. laware Unit	
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multi	ple Zone	8. Lease Name and PDU, Well #	1001	5
Name of Operator St Mary Land & Exploration Company	154903		9. API Well No.	5-34121	
3a. Address 580 Westlake Park Blvd., Suite 600 Houston, TX 77079	3b. Phone No. (include area code) 281-677-2800		10. Field and Pool, or Parkway Del	r Exploratory laware 4,962	. &
4. Location of Well (Report location clearly and in accordance with an			· · · · · · · · · · · · · · · · · · ·	Blk. and Survey or Area	
At surface (B), 995' FNL & 1461' FEL At proposed prod. zone "	Secretary's Potes	18	Sec 35, T19S,	, R29E	
 Distance in miles and direction from nearest town or post office* 17 miles NE of Carlsbad 			12. County or Parish Eddy	13. State	M
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of acres in lease	17. Spacing	g Unit dedicated to this	well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. /50'	19. Proposed Depth 4600'	20. BLM/B	IA Bond No. on file	New York Control of the Control of t	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3318'	22. Approximate date work will stan 05/01/2005	t*	23. Estimated duration 15 days)n	
	24. Attachments				
The following, completed in accordance with the requirements of Onshord 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).	4. Bond to cover the ltem 20 above). ands, the 5. Operator certification	e operations ation pecific infor	s unless covered by an	existing bond on file (s	•
25. Signature	Name (Printed/Typed) Alan D. Means			Date /29/05	
itle Operations Engineer					
Approved by (Signature) /S/ Linda S. C. Rundell	Name (Printed Typed) S.	C. Run	dell	Date MAY 1 3 20	05
STATE DIRECTOR			OFFICE		
Application approval does not warrant or certify that the applicant holds onduct operations thereon. Conditions of approval, if any, are attached.			ct lease which would en VAL FOR		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

APPROVAL SUBJECT TO General requirements and SPECIAL STIPULATIONS ATTACHED

Capiter Controlled Water Basin

Sati

25 N. French Dr., I I obbs. NM 88240 District 11 130 I W. Grand Avenue. Artesia. NM 88210 District III 1000 Rio Brazos Road. Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc. NM 87504~,

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure Is pit below grade tank covered by a "general plan" Yes No

Type of action. Registration of a pix	or below-grade tank 22 Closures of a pit of below-gr	aue taux
Operator: St Mary Land & Exploration Company Telephone:	e-mail address:	
Address: 580 Westlake Park Blvd,#600, Houston, TX 7707		
Facility or well name: Parkway Delaware 207 API 4- pendin		
County: Latitude Longitude		wner Federal X State Private Indian
Lea plats attached	Section 35, T19S, R29E, Wells #514	
Pit	Below-grade tank	, 113, 231, 231
Type: Drilling X Production Disposal	Volume:bbI Type of fluid:	
Workover Emergency	Construction material:	-
Lined \(\sum Unlined \(\sum \)	Double-walled, with leak detection? Yes 0 If not	, explain why not.
Liner type: Synthetic X Thickness 12 Man Clav		
Pit Volume 3500 bbl		
	Less than 100 feet	(29 points)
Depth to ground water (vertical distance from bottom of pit to sessonal ghigh	100 feet or more, build less than 100 feet	(10 points)
water elevation of ground water.) 400'	100 feet or more 100 ft.	(0 points) ()
		<u> </u>
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No No	(0 points) 0
Distance to much as western (hamiltones) to all westerness where	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephomeral watercourses.)	I 686 feet or more 1000 ft or more	(0 points) O
	Ranking Score (Total Points)	0 Points
Is this an oil closure, (I) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indicate	e disposal location: (check the onsite box if-
you are burying in place) onsite: offsite O If offsite,name of facility		scription of remedial action taken including,
remediation start date and end date (4) Groundwater encountered: No 0 Ye	If yes, show depth below ground surface	I'L and attach sample results. (;,)
Attach soil sample results and a diagram of sample locations and excavations.		(3)
Additional Comments:		Asset
		7 70
		5. 00
		F
I hereby certify that the information above is true and complete to the best of r	my knowledge and belief. I further certify that the s	above-described pit or below-grade tank has
been/will be constructed or closed according to NMOCD guidelines X . a Date: $3/29/3$	general permit, . or in (attached) alternative OC	D-approved plan .
Printed Name title Alan D. Means, Operations Engineer	Signa tura	~
Your certification and NMOCD approval of this application/closure does not reotherwise endanger public health or the environment. Nor does it relieve the or regulations.		
Approval: Printed Name/Title / / / / / / / / / / / / / / / / / / /	Signature	MAY 17 2005
P GIGULANUS, C	And the same of th	

detailed closure plan must be submitted prior to closure.

NOTICE OF STAKING Not to be used in place of Application for Permit to Drill (Form 3160-3)	6. Lease Number NM - 24160			
1. Oil Well X Gas Well Other (Specify)		r Tribe Name		
2. Name of Operator: St Mary Land & Exploration Company	8. Unit Agreement Na Parkway Delaware			
3. Name of Specific Contact Person: Dennis Goins	9. Farm or Lease Nan Federal			
4. Address & Phone No. of Operator or Agent 580 Westlake Park Blvd., Suite 600 Houston, TX 77079 Phone 281-677-2800	10. Well No.			
5. Surface Location of Well B, 995 FNL & 1461 FEL	11. Field or Wildcat Name Parkway Delaware			
Attach: a) Sketch showing road entry onto pad, pad dimensions, and reserve plt. b) Topographical or other acceptable map showing location, access road, and lease boundaries.	12. Sec., T., R., M., or Blk and Survey or Area Sec 35, T19S, R29E			
	13. County, Parish, or Borough	14. State		
Delaware Sands 4600'	Eddy	NM		

Note:

Upon receipt of this Notice, the Bureau of Land Management (BLM) will schedule the date of the onsite predrill-inspection and notify you accordingly. The location must be staked and access road must be flagged prior to the onsite.

Operators must consider the following prior to the onsite:

- a) H₂S Potential-
- b) Cultural Resources (Archeology)
- c) Federal Right of Way or Special Use Permit-

State of New Mexico

Energy, Minerals and Natural Resources Department

TRICT II

CH. DR., HOBBS, NW 88240

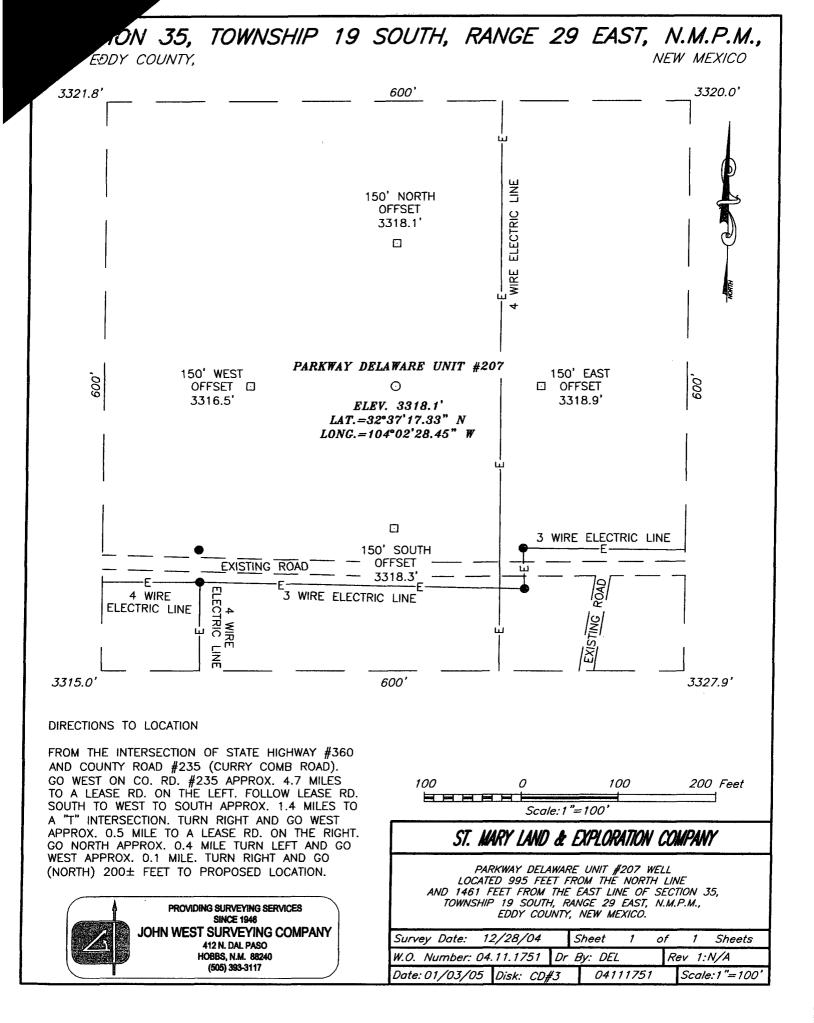
OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

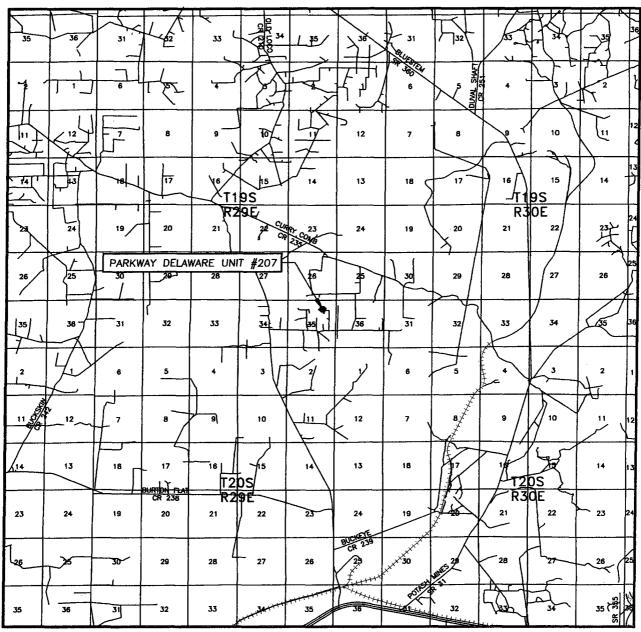
01 W. GRAND AVENUE, ARTESIA, NW 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, N DISTRICT IV	1	WELL LO	CATION	AND ACRE	AGE DEDICAT	ON PLAT		TIR. DEPO AT
1220 S. ST. FRANCIS DR., SANTA PE. API Number	NM 87505		Pool Code			Pool Name	□ AMEND	ED KEPOI
Property Code		. ,	PARK	Property Naz WAY DELAW			Well Nur	
OGRID No.		ST. MA	RY LAN	Operator Name of the Operator Name of	RATION COM	PANY	Elevation 331	
· · · · · · · · · · · · · · · · · · ·				Surface Loc		· · · · · · · · · · · · · · · · · · ·		
UL or lot No. Section 35	Township 19-S	Range 29-E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line EAST	EDDY
			Hole Loc		erent From Sur	L	L	
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or	Infill Con	nsolidation (Code Oro	ler No.				
NO ALLOWABLE W					NTIL ALL INTER APPROVED BY		EN CONSOLIDA	TED
	LA	DDETIC CO NAD 27 Y=58992 X=58993 AT.=32*37' G.=104*02	ORDINATE NME 19.2 N 32.9 E 17.33" N	3315.0 33 	27.9' — — — — — — — — — — — — — — — — — — —	Contained herein best of my know best of my know signature. Signature: High Printed Name Title 3 29 Date SURVEYO I hereby certify on this plat was actual surveys supervison and correct to the DECEM Date Surveyed Signature as Seriessional surveyed Signature as Series S	that the well location is plotted from field made by me or that the same is best of my betief. BER 28, 2004 Survieyor. 4.11.1751	ON m shown notes of inder my true and



VICINITY MAP



SCALE: 1" = 2 MILES

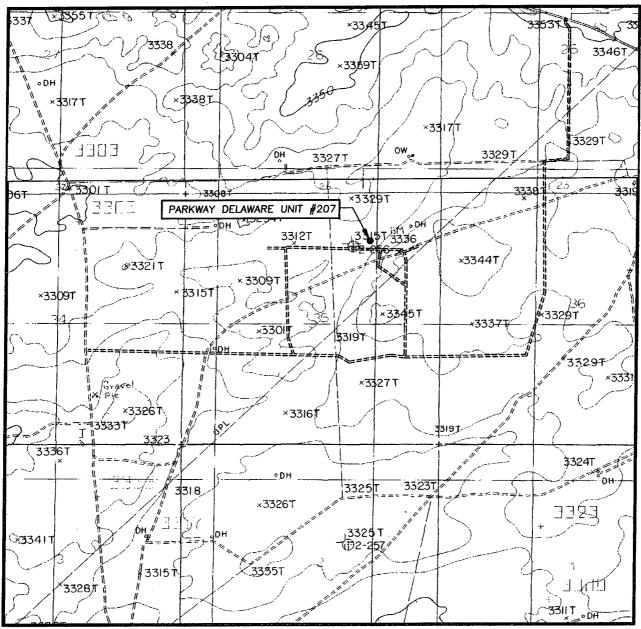
SEC. <u>35</u> TWP. <u>19-S</u> RGE. <u>29-E</u>
SURVEYN.M.P.M.
COUNTY EDDY
DESCRIPTION 995' FNL & 1461' FEL
ELEVATION 3318'
ST. MARY LAND & OPERATOR EXPLORATION COMPANY
LEASE PARKWAY DELAWARE UNIT



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 35 TWP. 19-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY____EDDY

DESCRIPTION 995' FNL & 1461' FEL

ELEVATION 3318'

ST. MARY LAND & OPERATOR EXPLORATION COMPANY

LEASE PARKWAY DELAWARE UNIT

U.S.G.S. TOPOGRAPHIC MAP

ILLINOIS CAMP SE, N.M. AND ILLINOIS CAMP NE, N.M.

CONTOUR INTERVAL:

ILLINOIS CAMP SE, N.M. - 10'

ILLINOIS CAMP NE, N.M. - 10'



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117

TITLE PAGE/ABSTRACT/ NEGATIVE SITE REPORT CFO/RFO_

1/03		CF(O/RFO		
1. BLM Report No.		2. Reviewer's Initia		3. NMCRIS No.: 91491	
4. Type of Report	1	Vegative(X)	Positive ()		
5. Title of Report: Class III A Company's Proposed Well P	archaeological	Survey for St. Mary L Parkway Delaware U	and & Exploration init No. 207 Well	6. Fieldwork I January 20, 7. Report Date	2005
Author: Stephen Smith				January 21,	
8. Consultant Name & Add Boons Archaeological Service				9. Cultural Res 190-2920-0	source Permit No.
2030 North Canal Carlsbad, NM 88220 Direct Charge: Danny Boon Field Personnel Name: Step	1	10. Consultant Report No. BAS 01-05-15			
Phone: (505) 885-1352 11. Customer Name: St. Ma Responsible Individual: Der Address: 580 Westlake Park Houston, Texas 77 Phone: (281) 677-2774	nnis Goins Blvd., Suite 6			12. Customer	Project No.:
13.Land Status	BLM	STATE	PRIVATE	OTHER	TOTAL
a. Area Surveyed (acres)	5.51	0	0	0	5.51
b. Area of Effect (acres)	3.67	0	0	0	3.67
14. Linear: Length: N/A Block: 600 ft 15. Location: (Maps Attache		Exercise ()		Width: N/A	
a. State: New Mexico b. County: Eddy c. BLM Office: Carlaba d. Nearest City or Town e. Legal Location: T 19 f. Well Pad Footages: 99 g. USGS 7.5 Map Name	ad a: Carlsbad, Ni S, R 29E, Sect 95 ft FNL; 146	M ion 35: SE%NW%NE 1 FEL		dition 1985) 32104-E1	

6. Project Data:

a. Records Search: Date of BLM File Review: January 19, 2005 Name of Reviewer: Stephen Smith

Date of ARMS Data Review: January 19, 2005 Name of Reviewer: Stephen Smith

Findings:

Sites within 0.25 mile of the project area: During the course of the pre-field investigation for this project it was learned that no previously recorded sites are plotted within 0.25 mile or one mile of the project area. The proposed well pad interacts with BLM previous project 04-918, 89-929, and one previous project that has no legible identification numbers. The pre-field investigation was supervised by Craig Johnson, BLM-CFO archaeologist.

- b. Description of Undertaking: St. Mary Land & Exploration Company plans to construct a well pad to serve the Parkway Delaware Unit No. 207 Well. Mr. Dennis Goins of St. Mary Land & Exploration Company contacted Boone Archaeological Services requesting an archaeological survey for the proposed project. The well pad is staked at 600 ft by 600 ft (8.26 acres). Because the proposed well pad interacts with BLM previous projects 04-918, 89-929, and one previous project that has no legible identification numbers, an estimated 2.75 acres was deducted from the total acreage of the survey for the well pad. A total of 5.51 acres (+/-) required an archaeological survey, all of which is on lands administered by the BLM-CFO.
- c. Environmental Setting:

Topography: Very slight hills to generally flat area, sandy/loamy soil shallow to caliche/gypsum

Vegetation: Mesquite, yucca, sumac, pencil cholla, horse crippler, and various grasses

Visibility: 60-70 percent due to vegetative cover

NRCS: Reeves-Gypsum land-Cottonwood association: Loamy soils that are very shallow to moderately deep over Gypsum beds, and Gypsum land

d. Field Methods:

Transect Interval: Transects are no greater than 15 meters and performed in a straight-line pattern.

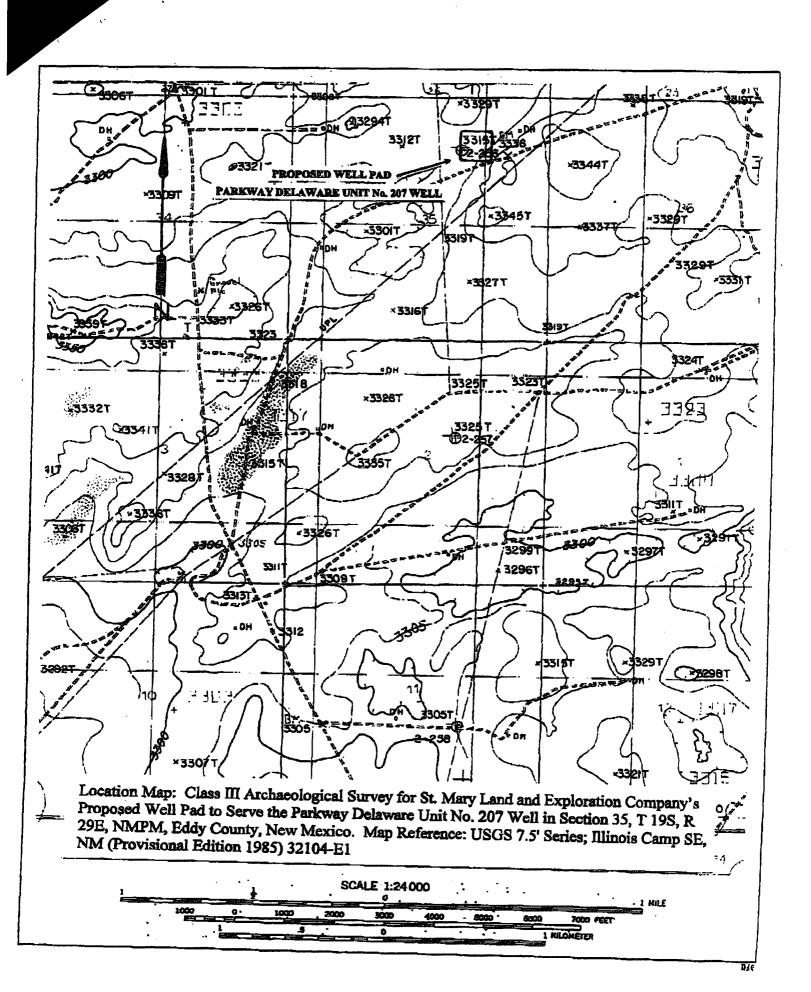
Crew Size: 1

Time in Field: 2.5 hours
e. Artifacts Collected: None

- 17. Cultural Resource Findings: During the course of this survey one isolated manifestation was encountered and recorded.
 - a. Identification and Description: N/A
 - b. Evaluation of Significance of Each Resource: N/A

18. Management Summary (Recommendations): Because no significant cultural resources were encountered during the survey for	
St. Mary Land & Exploration Company's proposed well pad, archaeological clearance is recommended as presently staked. If cultured as presently staked.	ra
resources are encountered during any construction related activity, construction should cease and an archaeologist with the BLM be	
immediately notified.	

19.	
I certify that the information provided above is correct and accurate and meets all appr	eciable BLM standards.
Responsible Archaeologist Stoke Dnuth	1-24-05
Signature	Date



Nine Point Drilling Plan (Supplement to BLM 3160-3)

St. Mary Land and Exploration Co.

PDU #207

995' FNL, 1461' FEL; Sec 35, TI9S, R29E

Parkway Delaware Unit

Parkway (Delaware) Field

Eddy Co., NM

NM-24160

1. Name and estimated tops of geologic horizons

 Rustler
 146'

 Slado
 351'

 Tansill
 1261'

 Yates
 1513'

 Capitan Reef
 1695'

 Delaware
 2698'

- 2. Protection of possible useable water will be achieved by setting 13.375" surface casing @ 400'+/- and cementing it to surface. Isolation of the productive Delaware-Brushy Canyon will be achieved by setting 4.5" casing @ 4600' +/-, and cementing back to surface.
- 3. The well control equipment to be employed during the drilling of this well is illustrated on attached EXHIBIT A. This equipment includes a two ram BOP, annular BOP and choke manifold of comparable pressure rating. Equipment will be rated for 3000 PSI and will be tested to 80% of that pressure prior to drilling out of the 13 3/8" surface casing. A hydraulic closing unit will be a part of this equipment and will be function tested daily.
- 4. The casing strings will consist of the following:

Surface: 13 3/8" OD, 48#/ft, H40, STC, new pipe @ 300 - 400' in 17 1/2" hole.

Intermediate 1: 9.625" OD, 36#/ft, J55, STC, new pipe @ 1500'+/- in 12.25" hole. WITNESS

WITHERS

Intermediate 2: 7" OD, 23#/ft, J55, STC, new pipe @ 3200'+/- in 8.75" hole.

Production: 4.50" OD, 11.6#/ft, J55, STC, new pipe @ 4600'+/- in 6.25" hole

5. Cementing programs for the above casing strings are:

Surface:

Lead Slurry: 195 sx Class C Cement w/ 4% bwoc Bentonite, 2% bwoc CaCl, .25#/sk celloflake. .004 gps FP-13L mixed at 13.5 ppg, and having a yield of 1.75 cu ft/sk

Tail Slurry: 150 sx Class C Cement w/ 2% bwoc CaCl, .004 gps FP-13L mixed at 14.8 ppg, and having a yield of 1.34 cu ft/sk

The above volume represents 80% excess over calculated hole volume, and will be adjusted to actual setting depth of casing. The slurries will be preceded by a fresh water spacer, and displaced with brine water.

Intermediate 1 @ 1500':

Lead Slurry: 280 sx (50:50) Poz (Fly Ash): Class C Cement w/ 10% bwoc Bentonite, 5% bwoc CaCl, .25#/sk celloflake, .004 gps FP-13L mixed at 11.9 ppg, and having a yield of 2.37 cu ft/sk

Tail Slurry: 200 sx Class C Cement w/ 2% bwoc CaCl, .004 gps FP-13L mixed at 14.8 ppg, and having a yield of 1.35 cu ft/sk

The above are BJ Services products with 120% excess open hole volume - actual volumes will be adjusted to the open hole caliper of this wellbore. The cement slurries will be preceded by 12 bbls cement wash for mud removal and displaced with fresh water. Equivalent products from another vendor may be substituted for BJ depending on price/availability.

Intermediate 2 @ 3200':

Lead Slurry: 115 sx (50:50) Poz (Fly Ash): Class C Cement w/ 10% bwoc Bentonite, 5% bwoc CaCl, .25#/sk celloflake, .004 gps FP-13L mixed at 11.9 ppg, and having a yield of 2.37 cu ft/sk

Tail Slurry: 150 sx Class C Cement w/ 2% bwoc CaCl, .004 gps FP-13L mixed at 14.8 ppg, and having a yield of 1.35 cu ft/sk

The above are B J Services products with 60% excess open hole volume - actual volumes will be adjusted to the open hole caliper of this wellbore. The cement slurries will be preceded by 12 bbls cement wash for mud removal and displaced with fresh water. Equivalent products from another vendor may be substituted for B J depending on price/availability.

Production:

Lead Slurry: 145 sx (50:50) Poz (Fly Ash): Class C Cement w/ 10% bwoc Bentonite, 5% bwoc CaCl, .25#/sk celloflake, .004 gps FP-13L, 5 #/sk LCM-1 mixed at 11.5 ppg, and having a yield of 2.71cu ft/sk

Tail Slurry: 100 sx Class C Cement w/ 12% bwoc CSE-2, 1% bwoc FL-62, .004 gps FP-13L mixed at 13.6 ppg, and having a yield of 1.8 cu ft/sk

The above are B J Services products with 50% excess open hole volume - actual volumes will be adjusted to the open hole caliper of this wellbore. Equivalent products from another vendor may be substituted for BJ depending on price/availability.

6. It is anticipated that this well will be drilled to TD utilizing the fluids shown below:

0-400': Gel/Lime "spud mud" 8.6-9.0 PPG. Utilize native solids to maintain

sufficient viscosity to clean hole. Mix paper as required to control

seepage loss.

300-1800': Brine 9.9 - 10.0 PPG. Circulate thru reserve pit for gravitational solids

solids removal. Add paper as required to control seepage loss while maintaining pH at 10.0 - 10.5 using Lime. Brine water will minimize

hole wash out in the salt.

1800-3200': Fresh Water 8.3 - 8.5 PPG Loss of circulation is anticipated in the

Capitan Reef which will require switching to fresh water and dry drilling

to casing point.

3200-3800': Cut Brine 8.5 – 8.9 PPG Pump high-vis sweeps to clean hole.

3800-4600': Cut Brine/Starch 8.7 – 8.9 PPG Maintain water loss @ 10-15 cc.

Sweep with high-vis pill to clean hole for logging operations.

7. Auxiliary equipment will include an upper kelly cock valve, safety valve to fit drill pipe and pressure gauges.

- 8. No drill stem testing, mud logging or coring is planned for this wellbore. A Platform Express Triple Combo electric log suite will be run at TD.
- 9. The estimated BHP at TD is not expected to exceed 1500 psi, and a BHT of 105 F is anticipated. There is no H2S present in the hydrocarbons being produced from the other wells in this section. Should such unexpected circumstances be encountered the operator and drilling contractor are prepared to take necessary steps to ensure safety of all personnel, and environment. Lost circulation could occur but is not expected to be a serious problem in this area, and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

It is estimated that this well will be drilled and cased in 10-11 days. Drilling will commence as soon after approval is received and services can be contracted.

Thirteen Point Plan for Surface Use (Additional data for form 3160-3)

St. Mary Land and Exploration Company

PDU #207

995' FNL, 1461' FEL; Sec 35, TI9S, R29E

Parkway Delaware Unit

Parkway (Delaware)

Eddy Co., NM

NM-24160 6/582

1. EXISTING ROADS - A "VICINITY MAP" and a "LOCATION VERIFCATION

MAP" by John West Surveying are attached which show the location of existing roads and the area topography.

The road log to the location is as follows:

- a) From the intersection of Hwy. 360 and Co. Rd 235(Curry Comb Rd), proceed west on 235 for 4.7 miles.
- b) Turn south on lease road and proceed for 1.4 miles to a "T" intersection.
- c) Turn west on caliche road for .5 miles to lease road on the right.
- d) Turn north and proceed for .4 miles.
- e) Turn west .1 miles
- f) Turn north and go 200' to location.
- 2. PLANNED ACCESS ROAD —Approximately 200' of new N-S access road will be built from the existing E-W main caliche road to the east.
- 3. LOCATION OF EXISTING WELLS EXHIBIT B shows the location of other wells within a mile radius of the proposed location.
- 4. LOCATION OF EXISTING OR PROPOSED FACILITIES This production well will be tied into existing PDU facilities.
- 5. LOCATION AND TYPE OF WATER SUPPLY All water (fresh or otherwise) needed for the drilling and completion of this well will be purchased from a commercial source and trucked to the location via the existing and proposed access road. No water source wells will be drilled, and no surface water will be utilized.

6. SOURCE OF CONSTRUCTION MATERIALS - Construction material (caliche) required for the preparation of the drill site is available from a local source 3 ½ miles away. It is not anticipated that a significant amount of material will be required as the terrain is relatively flat. Transportation will be over the existing roads.

METHODS FOR HANDLING WASTE DISPOSAL -

- Drill cuttings will be disposed into drilling pits after fluids have evaporated.
- The drilling pits will be lined with a biodegradable plastic liner, and buried as per regulatory requirements. The pits will be located on the #207 drill site.
- Receptacles for solid wastes (paper, plastic, etc) will be provided and equipped to prevent scattering by wind, animals, etc. This waste will be hauled to an approved landfill site.
- Any other waste generated by the drilling, completion, testing of this well will be removed from the site within 30 days of the completion of drilling or testing operations.
- A Porta-John will be provided for the crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
- 8. ANCILLARY FACILITIES The drilling, completion, and/or testing of this well will require no ancillary facilities.
- 9. WELLSITE LAYOUT Attached, as EXHIBITS C & D are plats showing the anticipated orientation of the drilling rig and the pad. A similar rig may have to be substituted for United Drilling Rig #24 if it is no longer available when approval is granted for this application. Material moved to create the drilling pits will be utilized in the dike around the pits so as to facilitate restoration of the area when operations are completed.
- 10. PLANS FOR SURFACE RESTORATION Reclamation of the surface location will be in accordance with the requirements set forth by the BLM. As stated earlier all waste generated by this operation will be disposed of in an approved manner, and the site restored as closely as possible to its pre-operation appearance. Due to the topography of the area no problems are anticipated in achieving this status and no erosion or other detrimental effects are expected as a result of this operation.
- 11. OTHER INFORMATION The surface ownership of the drill site and the access routes are under the control/ownership of:

Bureau of Land Management

P. O. Box 1778

Carlsbad, New Mexico 88221-1778

505-234-5972

The BLM representative for this area is Barry Hunt who can be reached at the above number, or 505-361-4078.

The site was archaeologically surveyed in July 2004. Danny Boone, the registered archeological surveyor, should forward a copy of that report to the BLM.

12. OPERATORS REPRESENTATIVE - St. Mary Land and Exploration is covered by Nationwide Bond No. 6041872. St. Mary Land and Exploration is represented by:

Charles M. Jones, Operations Manager

Dennis Goins, Operations Engineer

580 Westlake Park Blvd., Suite 600

Houston, Texas 77079

281-677-2800 Office

281-677-2774 Direct

918-408-8025 Cell

Alan D. Means, Contract Drilling Engineer Midland, Tx

432-620-9181 Office

432-664-7052 Cell

432-687-3117 Home

Jackie Herron, Contract Pumper Hagerman, NM

505-746-7601 Cell

505-752-2701 Home

13. OPERATORS CERTIFICATION

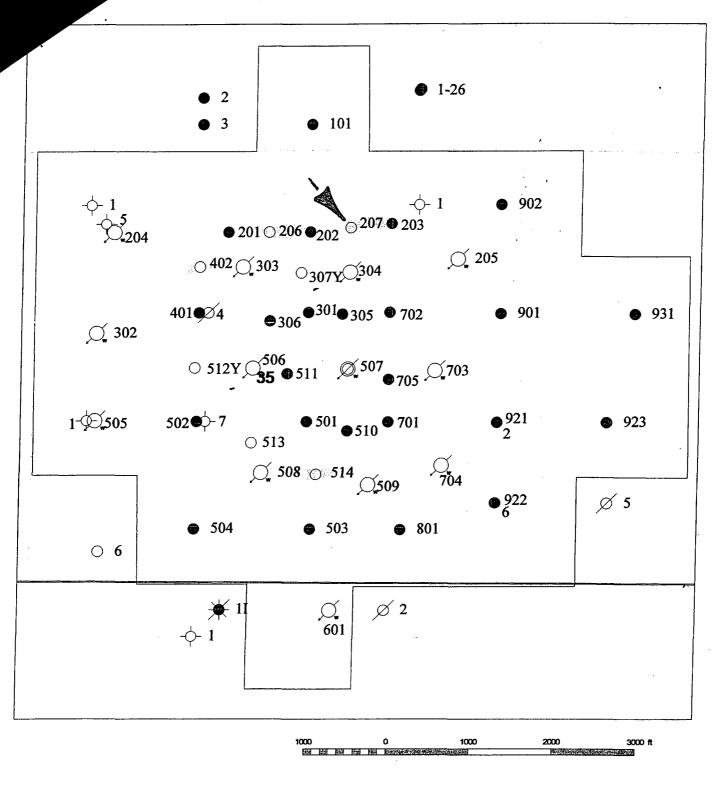
I hereby certify that I, Alan D. Means-Operations Engineer, have inspected the proposed drill site and access route and that I am familiar with the conditions that currently exist; that the statements made in the APD package are to the best of my knowledge true and correct; and that the work associated with operations herein will be performed by ST. MARY LAND & EXPLORATION COMPANY and it's contractors and subcontractors in conformity with the terms and conditions of this APD package. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application with bond coverage being provided under a BLM nationwide bond.

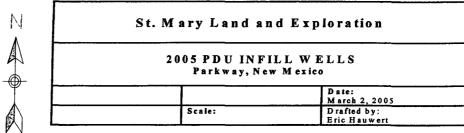
This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name and title: Alan D. Means, Consulting Operations Engineer for St. Mary Land &

Exploration/Company

Signature:



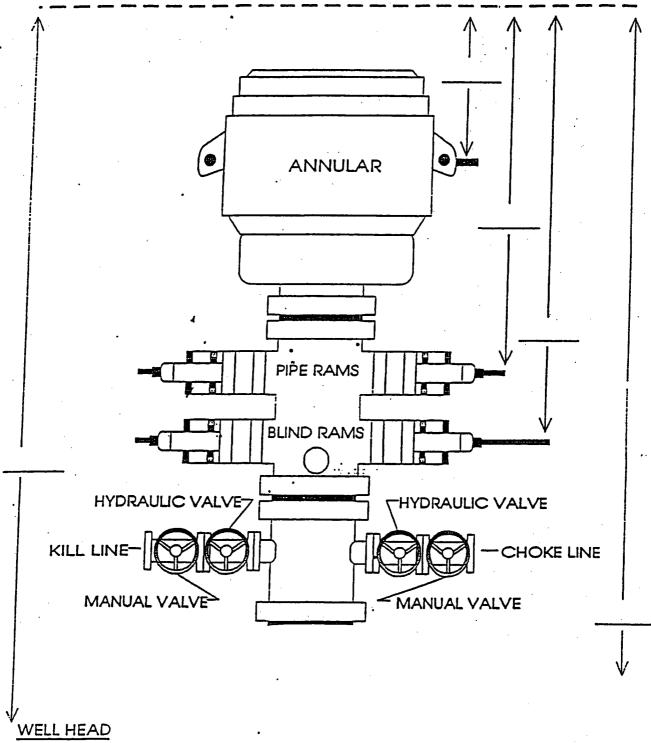


Randa de de Reio C

EXHIBIT A

B.O.P. STACK SPACING SIZE: 11" 3000#

TOP OF ROTARY



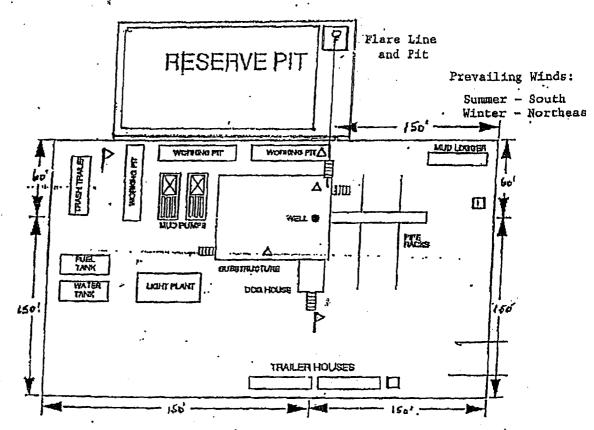
WELL PDU 512

4. 4.5 27

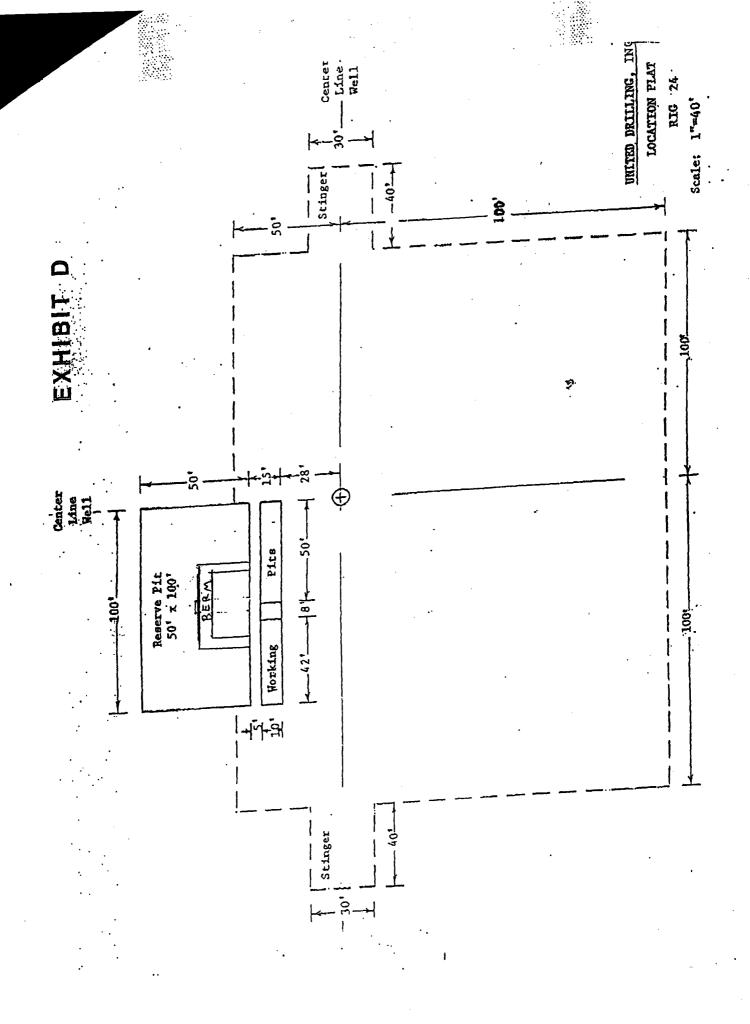
CONTRACTOR UNITED DRILLING

EXHIBIT C

Typical United Drilling Rig Layout



- △ H2S Monitors with alarms at the bell nipple and shale shaker
- > '- Wind Direction Indicators .
- Safe Briefing areas with caution signs and protective breathing equipment. Minimum 150 feet from wellhead. I designates primary area.



State of New Mexico

R., HOBBS, NW 88240

Energy, Minerals and Natural Resources Department

RICT II W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 API Number Pool Code Pool Name 30 -15 49625 Parkway Delaware Property Code Property Name Well Number PARKWAY DELAWARE UNIT 207 Operator Name OGRID No. Elevation ST. MARY LAND & EXPLORATION COMPANY 3318

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B [.]	35	19 - S	29-E		995	NORTH	1461	EAST	EDDY

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
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	ler 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

	OPERATOR CERTIFICATION
	I hereby certify the the information contained herein is true and complete to the
3321.8' 3320.0'	best of my knowledge and belief.
3315.0' 3327.9'	Signature Alan D. Means
	Printed Name
	Operations Engineer
	7/79/pc-
	Date
	SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME	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 supervison and that the same is true and
Y=589929.2 N X=589932.9 E	correct to the best of my belief.
LAT.=32°37′17.33″ N	DECEMBER 28, 2004
LONG.=104°02'28.45" W	DECEMBER 28, 2004 Date Surveyed Seal of 10 Signature Seal of 10 Signatu
	Signature & Seal of DS Professional Surveyor.
	第 04.11.1751
	Certificate No. CARY EDSON 12841