Form 3160-5 (August 1999)	UNITED STATE: DEPARTMENT OF THE I BUREAU OF LAND MANA	NTERIOR GEMENT	OMB Expires: N	1 APPROVED NO. 1004-0135 lovember 30, 2000
SUNDI	Y NOTICES AND REPO	RTS ON WELL S 3	5. Lease Serial No. NM-06293	
Do not use abandoned	this form for proposals to well. Use form 3160-3 (AP	(D) for such nithhoesis	2004	or Tribe Name
SUBMIT IN	RIPLICATE - Other instru	10 REUL		cement, Name and/or No
1. Type of Well		12 OCD - W	8/Well Name and No INDIAN HILLS U	
Oil Well 🖸 Gas Well 🔲		\&,	GF/	ANT 49
2. Name of Operator MARATHON OIL COMPA	Contact:	CHARLES KENDRIX E-Mail: cekendrix@marathpnoli.c		
3a. Address P.O. BOX 3128 HOUSTON, TX 77253	10. Field and Pool, of INDIAN BASIN	T Exploratory I U. PENN ASSOC.		
4. Location of Well (Footage, Se	., T., R., M., or Survey Description	1)	11. County or Parish	, and State
Sec 28 T21S R24E NENE	705FNL 855FEL SHL		EDDY COUNT	Y, NM
12. CHECK A	PPROPRIATE BOX(ES) TO	O INDICATE NATURE OF I	NOTICE, REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION		TYPE O	F ACTION	
53 Notice of Intent	☐ Acidize	□ Deepen	Production (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Fracture Treat	□ Reclamation	■ Well Integrity
☐ Subsequent Report	Casing Repair	■ New Construction	□ Recomplete	Other
☐ Final Abandonment Notic	Change Plans	□ Plug and Abandon	☐ Temporarily Abandon	Drilling Operation
	Convert to Injection	Plug Back	■ Water Disposal	
If the proposal is to deepen direct Attach the Bond under which the following completion of the investing has been completed. Find determined that the site is ready Marathon Oil Co. intends I Indian Basin U.Penn Asso different bottom-hole locat Assoc. (N/2 of SEC. 28, 2 approx. 7700' and drill a 4	ionally or recomplete borizontally, work will be performed or provide led operations. If the operation is I Abandonment Notices shall be fill or final inspection.) o plug off with approx. 200 so. completion interval(N/2 of on in the same permitted pro>, 24-E). Marathon plans of 3/4" hole to new BHL 2590'	give subsurface locations and measure the Bond No. on file with BLM/BIA sults in a multiple completion or reco	drill to a U. Penn ting 7" casing @ 18. 21-S. 24-E	inent markers and zones. e filed within 30 days 60-4 shall be filed once

14. I hereby certify that the foregoing is true and correct.	h
Electronic Submission #32498 verified For MARATHON OIL COMPAN	Dy the DLM Well information System V will be sent to the Corished
777-1m . h	
Name (Printed Typed) MIKE MICK	Title SR. ADV. ENG. TECH
m7 Mik	11 /4
Signature (Electronic Submission)	Date 06/30/2004 (6/38 /02/
THIS SPACE FOR FEDERA	L OR STATE OFFICE USE
(ORIG. SGD.) ALEXIS C. SWOBODA	Title PETROLEUM ENGINEER JUN 3 0 2004
Approved By	Title PETROLEUM ENGINEER JUNaie 3 0 2004
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease	
which would entitle the applicant to conduct operations thereon.	Office
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any po- States any false, fictitious or fraudulent statements or representations as to any matter w	rson knowingly and willfully to make to any department or agency of the United thin its jurisdiction.

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

DISTRICT I

State of New Mexico

Sparry, Missydy and Hatnesd Beartress Separtment

Form C-102 Bestsed February 10, 1994 Pubmit to Appropriate Statist Chiles State Lease - 4 Capies For Lease - 3 Capies

DISTRICT II
F.O. Brester M. Artesta, Mil Mills-6716

OIL CONSERVATION DIVISION P.O. Box 2088

F.U. Box 2005 Santa Fe. New Mexico 67504-2068

DISTRICT III 1900 He Brane Rd., Aston, MR 87418

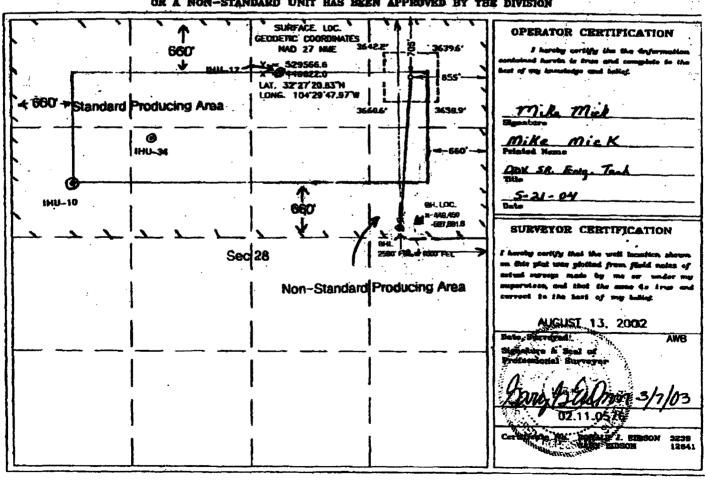
DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

O AMENDED REPORT

API 1	tumber	•	F.	ool Code			Pool Name																																									
30-015	- 32	123		685	エ	. B. Uppe	_	Assoc.																																								
Property C	ede	INDIAN HILLS UNIT		Property Name				Property Stame				Property Steme				Property Stages			Property Stame				Property Stame			Property Name			Property Magne			Property Rema		Property Regue T		Property Steems			Property Ma			Property Steme Well Humber				Property Regar Tell W		
OGRED No. Operator Name Stevention MARATHON OIL COMPANY 3649						_																																										
					Surface Loc	ation																																										
UL or lot No.	Section .	Ternship 21-S	Pange 24-E	Lot Ida	Feet from the 705°	Forth/South Hos NORTH	Piot from the 855'	Start/West line	County																																							
<u> </u>		21-3		Hole Lo	L	rent From Sur	<u> </u>	EAST	EDDY																																							
UR, or lot No.]	Section	Trunchio	Banga	Lot Ma	Feet from the	Herth/Bouth Hine	Feet from the	East/West line	County																																							
H .	28	21-S	24-E		2590	NORTH	1000	EAST	EDDY																																							
320 N/2	Joint o	Pafill Co	cestidation C	orde Ox	der No.	<u> </u>	•	-	<u> </u>																																							

NO ALLOWABLE WHI BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Form 3160-5 (August 1999)

Approved By

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

UNITED STATES

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 200

Date

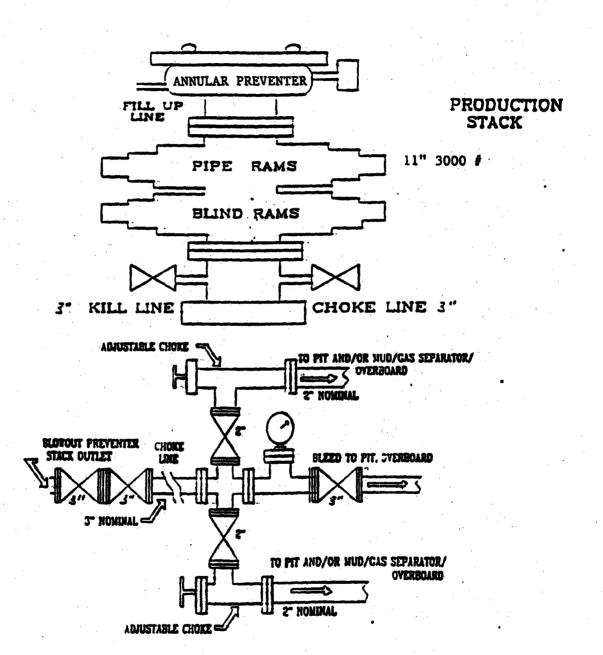
	PARTMENT OF THE INT		Ex	pires: November 30, 2000
SUNDRY I	JREAU OF LAND MANAGE! NOTICES AND REPORT:	S ON WELLS	5. Lease Seri NMNMO	
Do not use this abandoned well	s form for proposals to dri l. Use form 3160-3 (APD) f	ll or to re-enter an for such proposals.	6. If Indian, 2	Allottee or Tribe Name
SUBMIT IN TRIF	PLICATE - Other instruction	ns on reverse side.	7. If Unit or NMNM7	CA/Agreement, Name and/or No. 0964A
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Oth	er		8. Well Name INDIAN F	and No. IILLS UNIT 49
Name of Operator MARATHON OIL COMPANY	Contact: CH	ARLES KENDRIX	9. API Well 1	No. 32723-00-S1
3a. Address		b. Phone No. (include area cod		Pool, or Exploratory
P O BOX 3128 HOUSTON, TX 77253	P	h: 800.351.1417 Ext: 810 x: 915.687.8196		BASIN If Jenn Ass
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. County o	r Parish, and State
√Sec 28 T21S R24E NENE 705	FNL 855FEL		EDDY C	OUNTY, NM
12. CHECK APPR	ROPRIATE BOX(ES) TO IN	NDICATE NATURE OF	NOTICE, REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		· · · · · · · · · · · · · · · · · · ·	OF ACTION	
TITE OF SOBMISSION	A · 1·			W . Cl . CC
Notice of Intent	☐ Acidize☐ Alter Casing☐	Deepen Fracture Treat	☐ Production (Start/Res☐ Reclamation	water Shut-Off Well Integrity
☐ Subsequent Report	Casing Repair	New Construction	Recomplete	
Final Abandonment Notice	Change Plans	☐ Plug and Abandon	☐ Temporarily Abandor	Other Drilling Operations
	Convert to Injection	Plug Back	☐ Water Disposal	
I3. Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fi Marathon Oil Co. intends to plinterval(N/2 of SEC. 28, 21-S, permitted producing interval, lirequests approval of construct which was 150' x 150'. Cutting surface contamination. Pit will	ally or recomplete horizontally, give k will be performed or provide the operations. If the operation results andonment Notices shall be filed of the inal inspection.) ug off existing permitted India 24-E) and re-drill to a differential Basin U. Penn Assocting a reserve pit 120'X 120's removed from original pit to be padded to accept a 20 N	e subsurface locations and meas Bond No. on file with BLM/Bl s in a multiple completion or re- ian Basin U.Penn Assoc. ian Bottom-hole location in (N/2 of SEC. 21, 21-S, 2 at the site of the original- will be stockpited on a line lift liner. At the end of drilli	sured and true vertical depths of IA. Required subsequent report completion in a new interval, a ding reclamation, have been concompletion in the same . 4-E). Merather reserve pit per to prevent ing	all pertinent markers and zones. s shall be filed within 30 days Form 3160-4 shall be filed once
operations pit area will be recl granted for costruction of a pit construct only one pit and utili completion of drilling, move in	Tors.H.U. #45 which is on the ze it for both wells. Well wor amediately to I.H.U.#45	ne same location. Maratho k will start on I.H.U. #49 a	on intends to	Sur Ind
		d bundry 6/	30/04	V
14. I hereby certify that the foregoing is	Electronic Submission #322 For MARATHON	OIL COMPANY, sent to the	e Carlsbad	
Co Name (Printed/Typed) MIKE MIC	mmitted to AFMSS for proces K	· ·]	06/22/2004 (04LA0507SE) DV. ENG. TECH	
Signature (Electronic S	submission)	Date 06/22/2	2004	

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.

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title

Office



Marathon Oil Company Indian Hills Unit #49

slot #1 INDIAN BASIN Eddy County New Mexico

PROPOSAL LISTING

by Baker Hughes INTEQ

Your ref : ST Pln 2 Our ref : prop4273

License :

Date printed : 21-May-2004 Date created : 21-May-2004 Last revised : 21-May-2004

Field is centred on 445535.500,521332.200,-105.00000,N Structure is centred on 449622.000,529566.600,-105.00000,N

Slot location is n32 27 20.826,w104 29 47.972 Slot Grid coordinates are N 529566.600, E 449622.000 Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

Marathon Oil Company Indian Hills Unit #49, slot #1

Your ref : ST Pln 2 INDIAN BASIN, Eddy County New Mexico Last revised: 21-May-2004 Measured Inclin Azimuth True Vert. RECTANGULAR Dogleg Vert GRID COORDS

PROPOSAL LISTING Page 1

PROPOSAL LISTING Page 2

Your ref : ST Pln 2

Last revised: 21-May-2004

Measured	Inclin	Azimuth	True Vert	RECTANG	ULAR	Dogleg	Vert	GRID C	OORDS
Depth	Degrees	Degrees	Depth	COORDIN	ATES	Deg/100:	ft Sect	Easting	Northing
								_	-
7680.00	12.28	170.32	7599.59	790.14S	114.57E	0.00	776.47	449736.57	528776.46
7700.00	21.47	181.53	7618.72	795.91S	114.83E	48.58	782.19	449736.83	528770.69
7730.00	35.77	187.58	7644.99	810.17S	113.52E	48.58	796.51	449735.52	528756.43
7780.00	59.88	191.77	7678.32	846.37s	107.09E	48.58	833.15	449729.09	528720.23
7800.00	69.54	192.84	7686.85	864.01S	103.23E	48.58	851.07	449725.23	528702.59
									320,02133
7830.00	84.06	194.22	7693.68	892.33S	96.41E	48.58	879.89	449718.41	528674.27
7850.97	94.20	195.14	7694.00	912.59S	91.10E	48.58	900.54	449713.10	528654.01
7880.00	94.20	195.14	7691.88	940.53s	83.54E	0.00	929.06	449705.54	528626.07
7930.00	94.20	195.14	7688.21	988.67S	70.52E	0.00	978.18	449692.52	528577.93
7980.00	94.20	195.14	7684.55	1036.80S	57.49E	0.00	1027.30	449679.49	528529.80
					5,,,,,,	0.00	-02/150	***************************************	320323.00
8000.00	94.20	195.14	7683.08	1056.06s	52.28E	0.00	1046.95	449674.28	528510.54
8030.00	94.20	195.14	7680.89	1084.94S	44.47E	0.00	1076.42	449666.47	528481.66
8080.00	94.20	195.14	7677.22	1133.07s	31.44E	0.00	1125.54	449653.44	528433.53
8130.00	94.20	195.14	7673.56	1181.21S	18.42E	0.00	1174.66	449640.42	528385.39
8180.00	94.20	195.14	7669.90	1229.34S	5.40E	0.00	1223.77	449627.40	528337.26
			. 003.30	1023.310	3.402	0.00	1223.77	447027.40	326337.20
8230.00	94.20	195.14	7666.23	1277.48S	7.63W	0.00	1272.89	449614.37	528289.12
8280.00	94.20	195.14	7662.57	1325.61S	20.65W	0.00	1322.01	449601.35	528240.99
8330.00	94.20	195.14	7658.91	1373.75s	33.67W	0.00	1371.13	449588.33	528192.85
8380.00	94.20	195.14	7655.24	1421.885	46.70W	0.00	1420.25	449575.30	528144.72
8430.00	94.20	195.14	7651.58	1470.02S	59.72W	0.00	1469.37	449562.28	528096.58
				2270.020	33.7211	0.00	1402.37	449302.20	320030.30
8480.00	94.20	195.14	7647.92	1518.15s	72.74W	0.00	1518.49	449549.26	528048.45
8500.00	94.20	195.14	7646.45	1537.41s	77.95W	0.00	1538.13	449544.05	528029.19
8530.00	94.20	195.14	7644.25	1566.29S	85.77W	0.00	1567.60	449536.23	528000.31
8580.00	94.20	195.14	7640.59	1614.42S	98.79W	0.00	1616.72	449523.21	527952.18
8630.00	94.20	195.14	7636.93	1662.56S	111.81W	0.00	1665.84	449510.19	527904.04
				20021302	111.014	0.00	1003.04	449310.19	32/904.04
8680.00	94.20	195.14	7633.27	1710.69\$	124.84W	0.00	1714.96	449497.16	527855.91
	94.20	195.14	7629.60	1758.83S	137.86W	0.00	1764.08	449484.14	527807.77
8780.00	94.20	195.14	7625.94	1806.96S	150.89W	0.00	1813.20	449471.11	527759.64
8830.00	94.20	195.14	7622.28	1855.10s	163.91W	0.00	1862.32	449458.09	527711.50
8861.06	94.20	195.14	7620.00	1885.00s	172.00W	0.00	1892.83	449450.00	527681.60
				2005.005	1/2.000	0.00	1072.03	442430.00	25/001.00

All data in feet unless otherwise stated. Calculation uses minimum curvature method. Coordinates from slot #1 and TVD from rotary table. Bottom hole distance is 1892.83 on azimuth 185.21 degrees from wellhead. Vertical section is from N 0.00 W 0.00 on azimuth 185.21 degrees. Grid is mercator - New Mexico East (3001). Grid coordinates in FEET and computed using the Clarke - 1866 spheroid Presented by Baker Hughes INTEQ

Marathon Oil Company Indian Hills Unit #49, slot #1 INDIAN BASIN, Eddy County New Mexico

Comments in wellpath

				========	
MD	TVD	Rectangular	Coords.	Comment	
				00111110110	
8861.06	7620.00	1885.00s	172.00W		
3301.00	7020.00	1003.005	1/2.00W	BHL	

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular	Coordinates	Revised		
BHL Arc	449450.000,527681.600,-105.00 450450.000,527597.000,-105.00		1885.00s 1969.60s		21-May-2004 21-May-2004		





Marathon Oil Company

Structure: Indian Hills Unit #49

Created by: danf Date plotted : 21-May-2004 Plot Reference is ST Pin 2.

Coordinates are in feet reference slot #1.

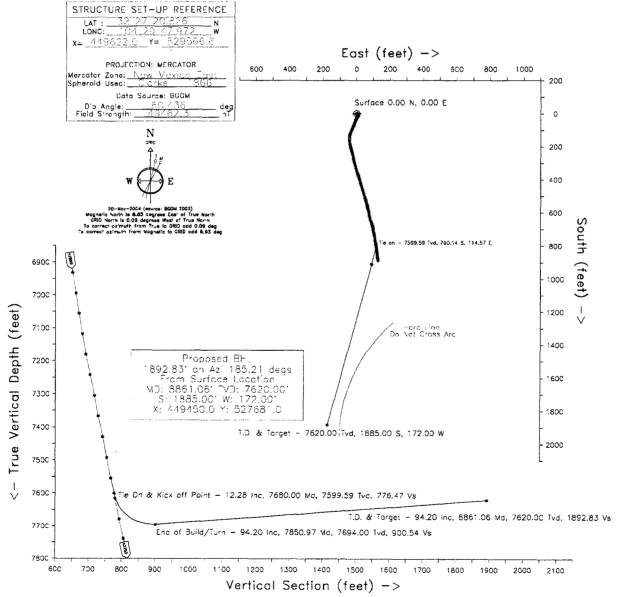
--- Baker Hughes INTEQ ---

Slot : slot #1 True Vertical Septins are reference rotary table

Field: INDIAN BASIN Location: Eddy County New Mexico

WELL PROFILE DATA

	۷۷ <u>۲</u>		² ROI		DA	A -		
Point	MD	inc	Dir	TVD	North	East	V. Sect	Deg/100
KOS	7680.00	12.28	170.32	7599.59	-790.14	114.57	776.47	0.00
End of Build/Turn	7850.97	94.20	195.14	7694.00	-912.59	91.10	900.54	48.58
T.D. & Target BHL	8861.06	94.20	195.14	7620.00	-1885.00	-172,00	1892.83	0.00



Azimuth 185.21 with reference 0.00 N, 0.00 W from slot #1

MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

- 1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

- A. Wind direction indicators.
- B. Automatic H2S detection alarm equipment (both audio and visual).

- C. Clearly visible warning signs. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas.

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accommodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxiliary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud- gas separator
- d. flare line and means of ignition _____ e. remote operated choke

B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

III. WELL SITE DIAGRAM

Exhibit "I"

Marathon Oil Company

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

Marathon Oil Company has pollution prevention, good housekeeping, safety and fire prevention policies that are to be followed at all times. All company employees, contractors and subcontract personnel are to observe safe working practices and prevent pollution to the maximum extent possible.

In the event of an emergency, spill, fire, explosion or blowout, personal injuries, property or equipment damage, call **MARATHON OIL COMPANY** @ 1-800-351-1417

Prior to drilling, certain measures should be taken:

- 1. Use impervious materials to build the location and the reserve pit.
- 2. Ditch the outline of the rig toward the reserve pit.
- 3. Place sumps on each end of the rig to catch any free oil or debris from entering the reserve pit.
- 4. Keep materials on location to contain or clean up spills (absorbent pads, shovels, etc).
- 5. Make known to Drilling Supervisors a list of spill response contractors available.
- 6. BOP testing shall be performed each time a casing string is set.
- 7. The Drilling contractor is required to have a certified SPCC plan for the Drilling rig.
- 8. Routine inspections of the operations shall be performed to ensure SPCC guidelines are followed.
- 9. Ensure all Marathon personnel are HAZWOPER trained in methods for stopping, controlling, and cleaning up any spills.

Spill control measures to be taken:

- 1. Shut down activities underway, as deemed necessary by the person in charge.
- 2. Determine the source of pollution and stop the discharge, if possible.
- 3. Isolate and contain the discharged materials, if possible.
- 4. Seek guidance from the Southern Region Emergency Action Plan.