

MULTOFO C. NDOSZZIDC CULTON 13

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1st	APP		Q		•
POINT OF BEGINNING FD. 5/8" IRON ROD N 17/2372.41 E 1405490.30		0 10/3/07 ISSUED TC 1 10/29/07 ADDED TR/ 10/1/07 0 11/27/67 11/27/67	GRAPHIC 2 12/	703	gži 70379
SURVEYING WAS DONE BY HDR/SHINER MOSELEY AND ASSOCIATES INC. THIS DRAWING		NER MOSE	555 N. Carancahua, Suite 1650	Culpus Culisu, ICAAS 10410	
EVEN IN A DONE OF HOLY SHINER MOSELET AND ASSOCIATES INC. THIS DRAWING EVEN THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEY CONDUCTED IMBER 12, 2007.		P.	TEXAS	TRACT	
HOMER MARTINEZ ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO NAVD '88. RDINATES SHOWN ARE IN U.S. FEET AND ARE REFERENCED TO STATE PLANE GRID	IONS	T OUT	EI, A	ACRE	
RDINATE SYSTEM, TEXAS SOUTH ZONE, AS DEFINED BY ARTICLE 21.071 OF THE RAL RESOURCES CODE OF THE SATE OF TEXAS, 1983 DATUM (1993 ADJUSTMENT). JMENTS USED FOR HORIZONTAL CONTROL WERE:	SOLUTIONS	RACT	AND.	53.56	-
CRANE AZ.MK." N 17,126,435.80' E 1,407,328.74'	ENERGY			ITHIN	
IUMENT USED FOR VERTICAL CONTROL WERE:	HELIX EI	ACR		SURVEY WITHIN	
CRANE AZ.MK." EL. 4.05' D 1518" EL. 6.40'	Ë			SURV	•
HIGH WATER DETERMINED FROM TIDAL INFORMATION AT PACKERY CHANNEL GAUGE = $0.76'$ NAVD '88.		5.80	V.M.	WHW	
S OF BEARING IS "TEXAS COORDINATE SYSTEM" PER SECTION 21.071 OF THE NATURAL URCES CODE.	CI	HEET			
NCES AND BEARINGS ARE GRID, SCALE FACTOR IS 0.99995825, CONVERGENCE IS 5'26".	ା				
ND OWNER IS HARKIN OIL. D1 ACRES OF UPLAND AFTER 11/12/07 SURVEY.			1		
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counter 88809

METES AND BOUNDS DESCRIPTION OF A 15.801 ACRE TRACT DETERMINED FROM A MEAN HIGH WATER SURVEY (MHW) WITHIN W.M. BRYAN SURVEY, A-46, SURVEY 605, NUECES COUNTY, TEXAS

Being 15.801 acres of land, more or less, determined from an on the ground mean high water survey conducted by GPS observations on November 12, 2007, said mean high water determined from Packery Channel, gauge 005 at elevation +0.76', NAVD' 88 and said 15.801 acres located within a 53.56 acre tract as surveyed by Frontier Surveying Company on September 14, 2005 and being same 56.11 acre tract described in Volume 1770, Page 30, Deed Records Nueces County, Texas, and described as being out of the W.M. Bryan Survey, A-46, Survey 605, Nueces County, Texas, and being the portion within said 53.56 acre survey that accreted from the mainland to said W.M. Bryan Survey and being more particularly described by metes and bounds as follows:

Beginning at a found 5/8 inch iron rod for the northeast corner of this tract and said 53.56 acre and 56.11 acre tracts, said corner having a grid coordinate of N = 17,123,722.41', E = 1,405,490.30', State Plane Grid, Texas South Zone, NAD' 83 in U.S. feet and bearing S 34°07'10" W, 3,277.55 feet (1,179.92 varas) from NGS monument "Crane AZ MK" having a grid coordinate of N = 17,126,435.80', E = 1,407,328.74', NAD' 83 (1993 adjustment) State of Texas coordinate system, South Zone as defined by Article 21.071 of the Natural Resources Code of the State of Texas, Scale Factor 0.99995825, convergence +0°35'36.0";

Thence S 30-18-28 W with the east boundary of this tract and said 53.56 acre and 56.11 acre tracts, the same being the west right-of-way line of State Highway 361, 1,505.23 feet (541.88 varas), to the southeast corner of this tract, said 53.56 acre and 56.11 acre tracts, and also being the northeast corner of a tract as recorded in Document number 888926, Official Public Records of Nueces County, Texas, said corner having a grid coordinate of N = 17,122,422.90', E = 1,404,730.69', State Plane Grid, Texas South Zone, NAD' 83 in U.S. feet, and from which a found 5/8 inch iron rod with cap stamped "RPLS 5400" bears N 58°22'00" W, 100.00 feet, and a 4 inch PVC pipe bears N 60°43'28" W, 0.41 feet;

Thence N 58-22-00 W along the south boundary line of this tract and said 53.56 acre and 56.11 acre tracts, the same being the north boundary line of said tract recorded in Document Number 888926, 214.31 feet (77.15 varas), to the southwest corner of this tract, said corner being on the mean high water line;

Thence with said Mean High Water Line as follows:

N 17-31-42 E, 109.53 feet (39.43 varas); N 15-08-41 E, 92.91 feet (33.45 varas); N 26-47-56 E, 91.96 feet (33.11 varas); N 28-37-51 E, 91.73 feet (33.02 varas); N 28-46-09 E, 90.43 feet (32.55 varas); N 11-32-37 E, 104.88 feet (37.76 varas); N 01-45-45 W, 95.37 feet (34.33 varas); N 20-48-54 E, 93.50 feet (33.66 varas); N 15-23-03 W, 95.41 feet (34.35 varas); N 12-08-47 W, 92.72 feet (33.38 varas); N 18-55-49 W, 46.45 feet (16.72 varas); N 16-20-22 E, 6.90 feet (2.49 varas); N 04-55-43 W, 28.19 feet (10.15 varas); N 18-46-03 E, 18.58 feet (6.69 varas); N 28-36-49 E, 18.51 feet (6.66 varas); N 16-35-48 E, 37.56 feet (13.52 varas); N 24-01-36 W, 20.74 feet (7.46 varas); N 31-11-42 W, 6.85 feet (2.47 varas);

TEXAS GENERAL LAND OFFICE Art. 33. 136 Natural Resources Code Co. Mulacas Sketch No. 13 sht. 2 File Date 4.8.2008 by D.J.H.

Thence leaving said mean high water line and crossing artificial fill as follows:

Thence S 59-41-32 E, with the north boundary line of said 53.56 acre and 56.11 acre tracts, 821.09 feet (295.59 varas), to the point of beginning and containing 15.801 acres of land, more or less.



- Note: 1.) Bearings based on "Texas Coordinate System" per Section 21.071 of the Natural Resources Code.
 - 2.) Area noted is grid area.
 - 3.) This metes and bounds description is for survey of 15.801 acres shown in drawing number 70379-00-T1.

TEXAS GENERAL LAND OFFICE Art. 33.136, Natural Resources Code Co. NUECES, Sketchno. 13 Sketchno. 13 Sht. 3 File Date 4 9/2008 by D. J. H.